

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP101824\  
 Data File : BP022460.D  
 Acq On : 18 Oct 2024 14:49  
 Operator : RC/JU  
 Sample : P4346-07  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 EOAW9

Quant Time: Oct 19 02:58:07 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP100724.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Oct 18 11:08:24 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024  
 Supervised By :mohammad ahmed 10/21/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.663  | 152  | 138697   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.422 | 136  | 510949   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.281 | 164  | 345839   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.075 | 188  | 690860   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.504 | 240  | 712998   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.774 | 264  | 932189   | 20.000 | ng/u1  | 0.02     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.199  | 96   | 12901    | 3.615  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.611  | 84   | 180848   | 18.457 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.858  | 99   | 252577   | 21.634 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.005  | 67   | 154094   | 22.456 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.210  | 132  | 196346   | 23.701 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.369  | 113  | 209106   | 22.443 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.805  | 128  | 95254    | 24.246 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.516  | 143  | 115084   | 25.302 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.057 | 165  | 227575   | 23.541 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.557 | 131  | 244456   | 21.401 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.693 | 166  | 671110   | 24.424 | ng/u1  | 0.01     |
| 49) Acenaphthylene-d8         | 13.975 | 160  | 718973   | 24.635 | ng/u1  | 0.01     |
| 54) 4-Nitrophenol-d4          | 14.504 | 143  | 56333    | 12.220 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.281 | 176  | 555499   | 23.308 | ng/u1  | -0.01    |
| 65) 4,6-Dinitro-2-methylph... | 15.422 | 200  | 52445    | 11.542 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.186 | 188  | 822455   | 25.307 | ng/u1  | 0.02     |
| 81) Pyrene-d10                | 19.557 | 212  | 960050   | 25.462 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.557 | 264  | 1253379  | 25.176 | ng/u1  | 0.03     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 72) Phenanthrene              | 17.122 | 178  | 174120   | 4.711  | ng/u1  | 99       |
| 74) Anthracene                | 17.222 | 178  | 42287    | 1.146  | ng/u1  | 98       |
| 80) Fluoranthene              | 19.210 | 202  | 367427   | 8.477  | ng/u1  | 99       |
| 82) Pyrene                    | 19.586 | 202  | 299593   | 6.449  | ng/u1  | 99       |
| 85) Benzo(a)anthracene        | 21.480 | 228  | 188787   | 3.777  | ng/u1  | 96       |
| 86) Bis(2-ethylhexyl)phtha... | 21.422 | 149  | 62374    | 2.687  | ng/u1  | 96       |
| 87) Chrysene                  | 21.551 | 228  | 199160   | 4.297  | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 23.739 | 252  | 288235   | 4.912  | ng/u1  | 99       |
| 91) Benzo(k)fluoranthene      | 23.804 | 252  | 107967m  | 1.879  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.621 | 252  | 205015   | 3.796  | ng/u1  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.474 | 276  | 153203   | 2.126  | ng/u1  | 99       |
| 96) Benzo(g,h,i)perylene      | 29.603 | 276  | 150291   | 2.681  | ng/u1  | 97       |
| -----                         |        |      |          |        |        |          |

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

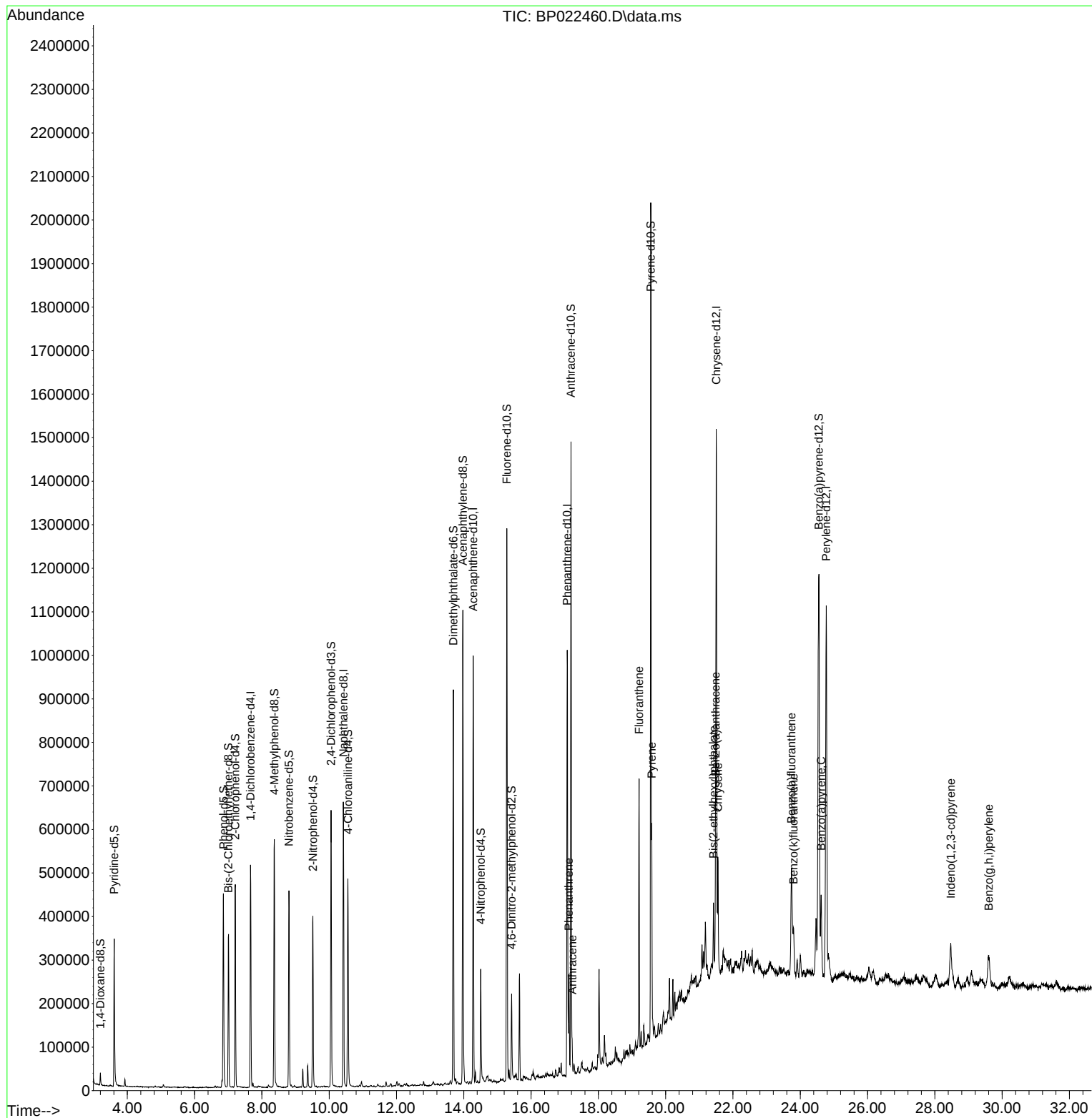
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP101824\  
Data File : BP022460.D  
Acq On : 18 Oct 2024 14:49  
Operator : RC/JU  
Sample : P4346-07  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

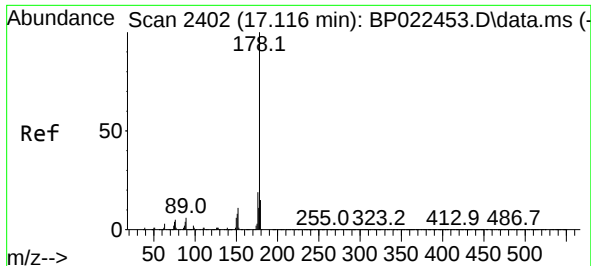
Instrument :  
BNA\_P  
ClientSampleId :  
EOAW9

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/21/2024  
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 19 02:58:07 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP100724.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Oct 18 11:08:24 2024  
Response via : Initial Calibration





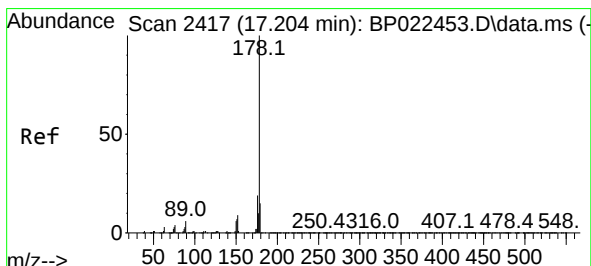
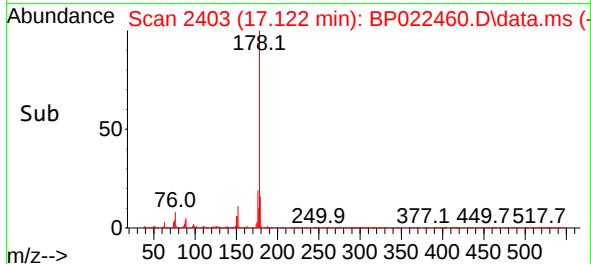
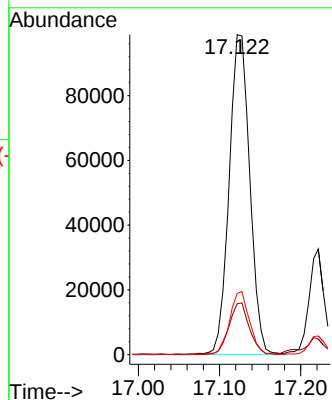
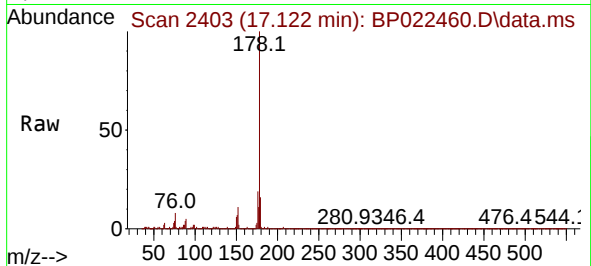
#72  
Phenanthrene  
Concen: 4.711 ng/ul  
RT: 17.122 min Scan# 2402  
Delta R.T. 0.006 min  
Lab File: BP022460.D  
Acq: 18 Oct 2024 14:49

Instrument :  
BNA\_P  
ClientSampleId :  
EOAW9

Tgt Ion:178 Resp: 174120  
Ion Ratio Lower Upper  
178 100  
179 15.9 12.2 18.4  
176 19.1 15.7 23.5

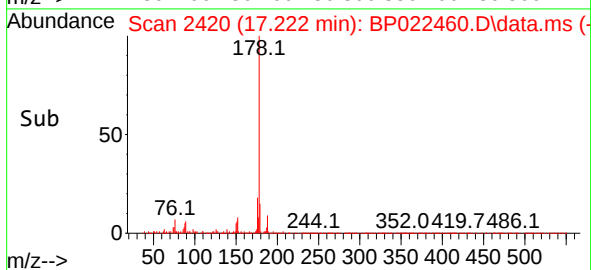
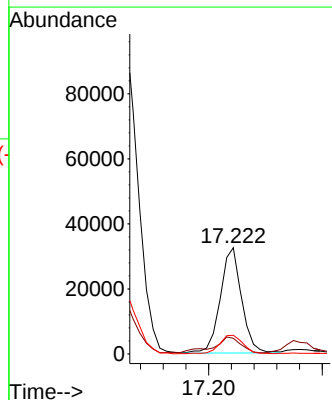
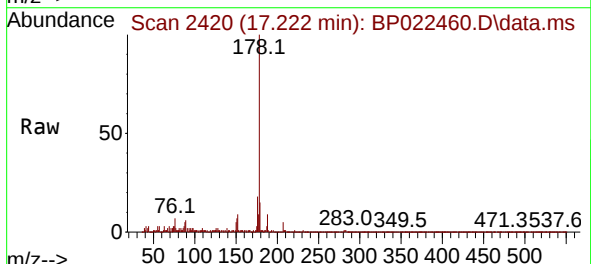
Manual Integrations  
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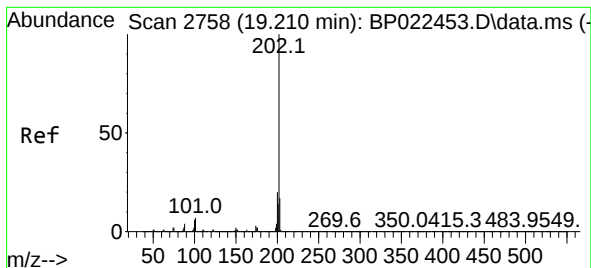
Reviewed By :Yogesh Patel 10/21/2024  
Supervised By :mohammad ahmed 10/21/2024



#74  
Anthracene  
Concen: 1.146 ng/ul  
RT: 17.222 min Scan# 2420  
Delta R.T. 0.018 min  
Lab File: BP022460.D  
Acq: 18 Oct 2024 14:49

Tgt Ion:178 Resp: 42287  
Ion Ratio Lower Upper  
178 100  
179 14.8 12.0 18.0  
176 17.7 15.0 22.4





#80

Fluoranthene

Concen: 8.477 ng/ul

RT: 19.210 min Scan# 2758

Delta R.T. 0.000 min

Lab File: BP022460.D

Acq: 18 Oct 2024 14:49

Instrument :

BNA\_P

ClientSampleId :

EOAW9

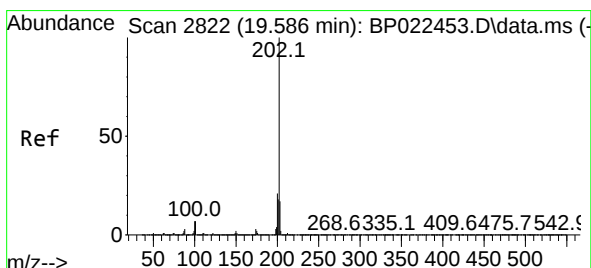
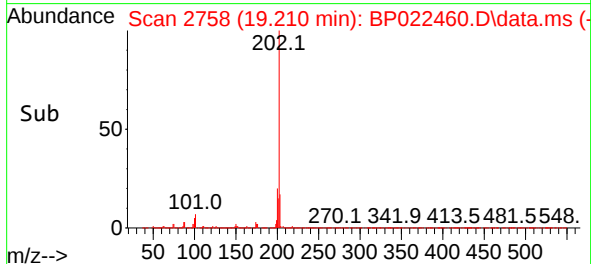
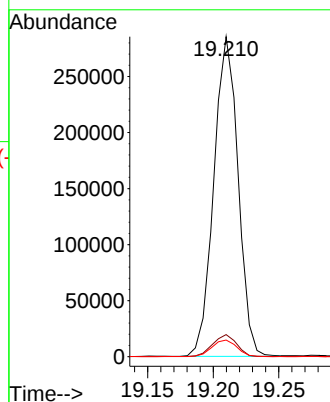
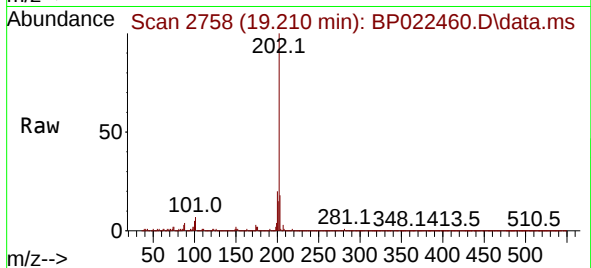
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 36742 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 6.9   | 5.8   | 8.8   |
| 100       | 5.2   | 4.5   | 6.7   |

Manual Integrations

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Supervised By :mohammad ahmed 10/21/2024



#82

Pyrene

Concen: 6.449 ng/ul

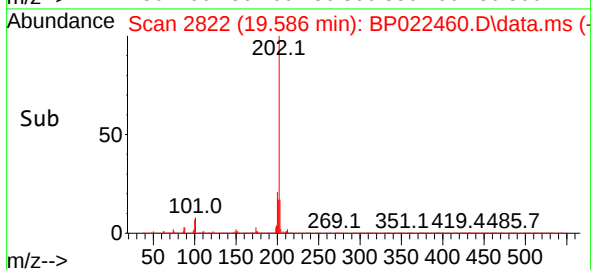
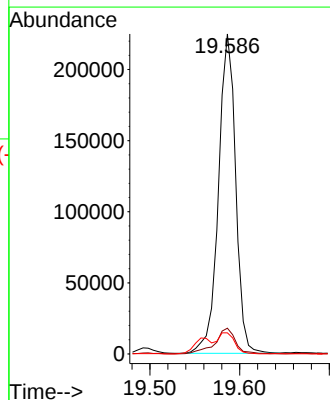
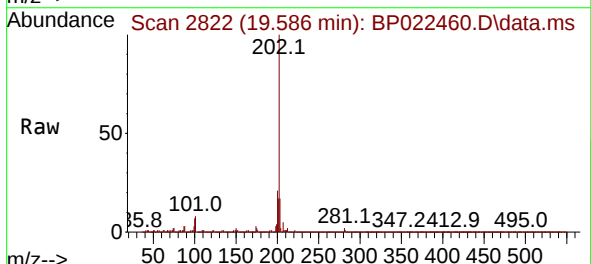
RT: 19.586 min Scan# 2822

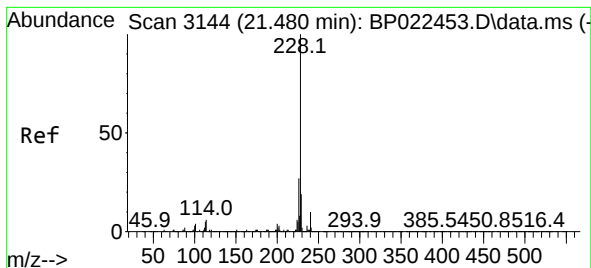
Delta R.T. 0.000 min

Lab File: BP022460.D

Acq: 18 Oct 2024 14:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 299593 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.1   | 6.7   | 10.1   |
| 100       | 6.6   | 5.8   | 8.6    |





#85

Benzo(a)anthracene

Concen: 3.777 ng/ul

RT: 21.480 min Scan# 3144

Delta R.T. 0.000 min

Lab File: BP022460.D

Acq: 18 Oct 2024 14:49

Instrument :

BNA\_P

ClientSampleId :

EOAW9

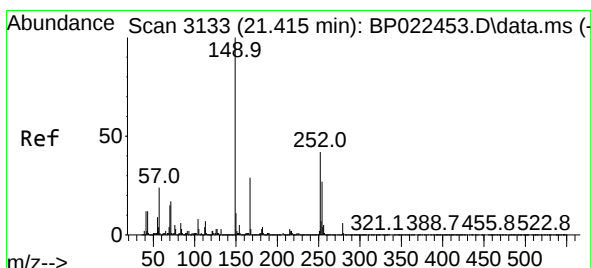
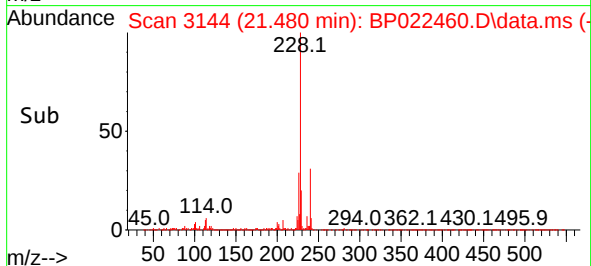
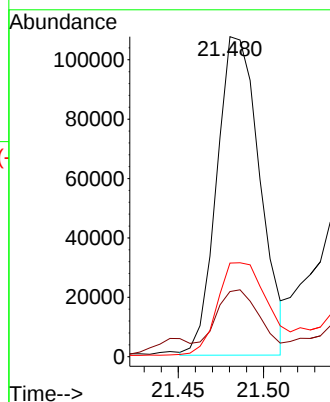
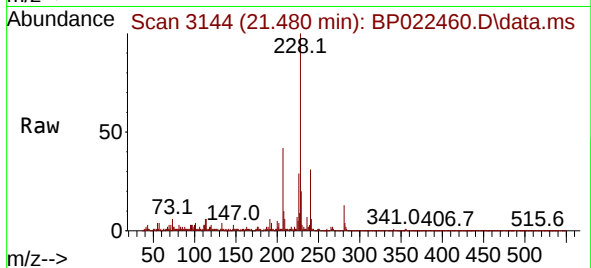
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 18878 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 20.3  | 15.4  | 23.0  |
| 226       | 29.2  | 21.5  | 32.3  |

Manual Integrations

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Reviewed By :Yogesh Patel 10/21/2024

Supervised By :mohammad ahmed 10/21/2024



#86

Bis(2-ethylhexyl)phthalate

Concen: 2.687 ng/ul

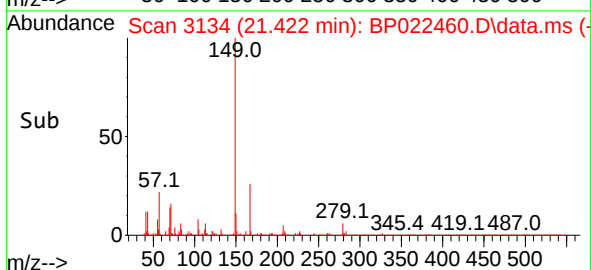
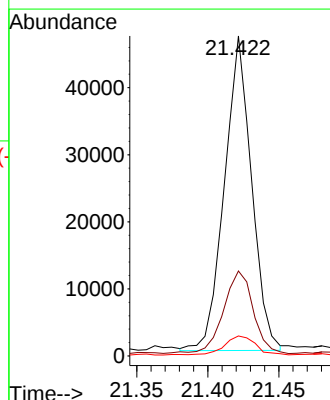
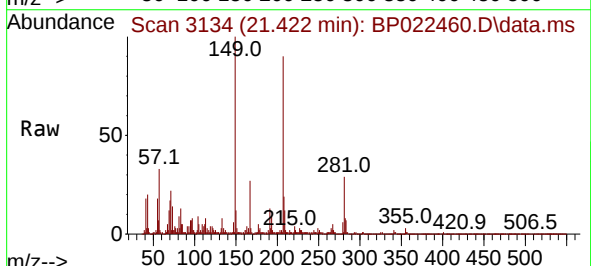
RT: 21.422 min Scan# 3134

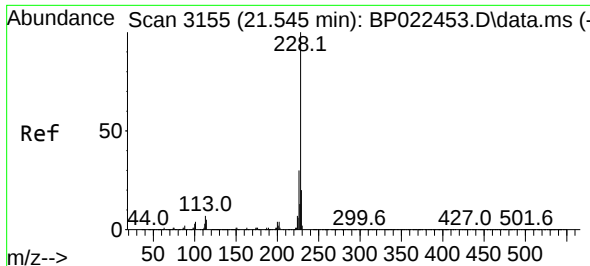
Delta R.T. 0.006 min

Lab File: BP022460.D

Acq: 18 Oct 2024 14:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 62374 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 26.5  | 23.0  | 34.4  |
| 279       | 6.3   | 4.8   | 7.2   |





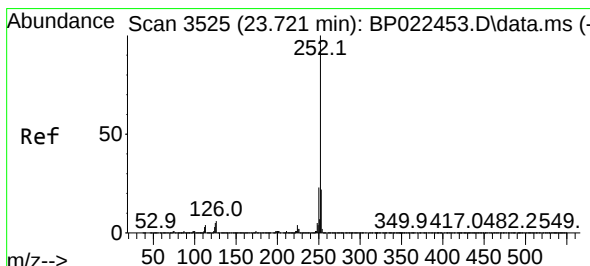
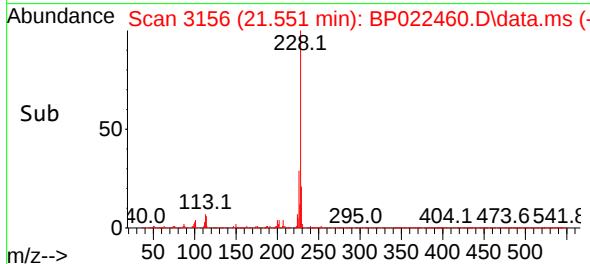
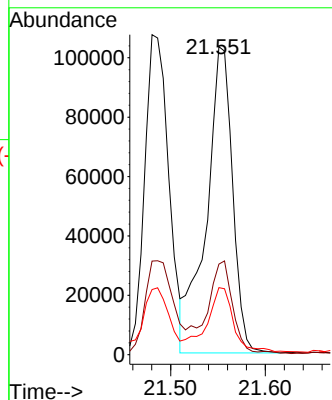
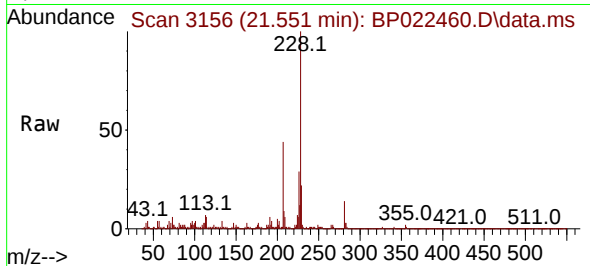
#87  
Chrysene  
Concen: 4.297 ng/ul  
RT: 21.551 min Scan# 3155  
Delta R.T. 0.006 min  
Lab File: BP022460.D  
Acq: 18 Oct 2024 14:49

Instrument :  
BNA\_P  
ClientSampleId :  
EOAW9

Tgt Ion:228 Resp: 199160  
Ion Ratio Lower Upper  
228 100  
226 29.4 23.8 35.8  
229 21.8 15.5 23.3

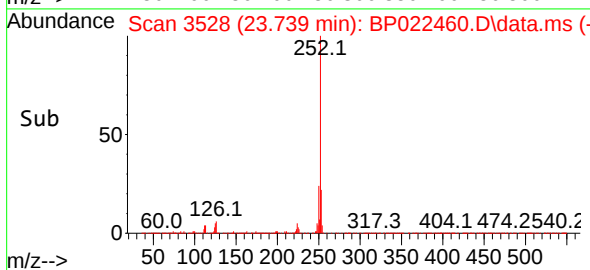
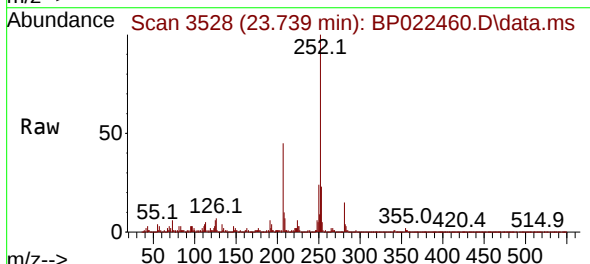
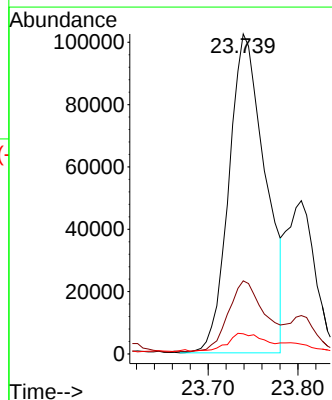
Manual Integrations  
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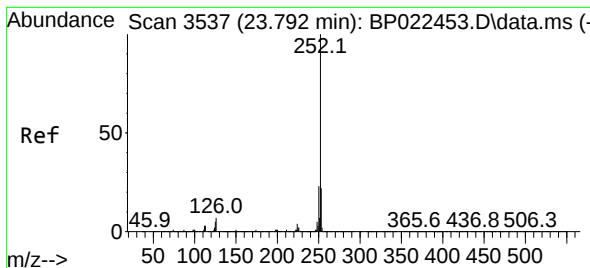
Reviewed By :Yogesh Patel 10/21/2024  
Supervised By :mohammad ahmed 10/21/2024



#90  
Benzo(b)fluoranthene  
Concen: 4.912 ng/ul  
RT: 23.739 min Scan# 3528  
Delta R.T. 0.018 min  
Lab File: BP022460.D  
Acq: 18 Oct 2024 14:49

Tgt Ion:252 Resp: 288235  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.8 26.8  
125 6.3 5.0 7.4





#91

Benzo(k)fluoranthene

Concen: 1.879 ng/ul m

RT: 23.804 min Scan# 3537

Delta R.T. 0.012 min

Lab File: BP022460.D

Acq: 18 Oct 2024 14:49

Instrument :

BNA\_P

ClientSampleId :

EOAW9

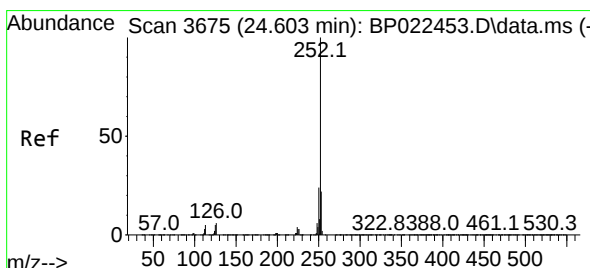
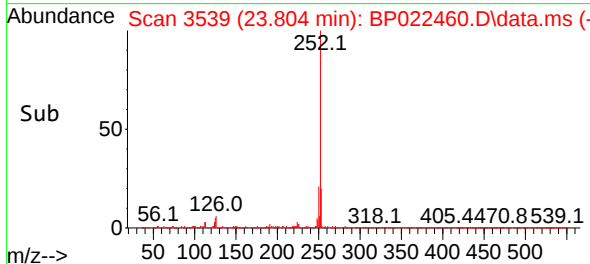
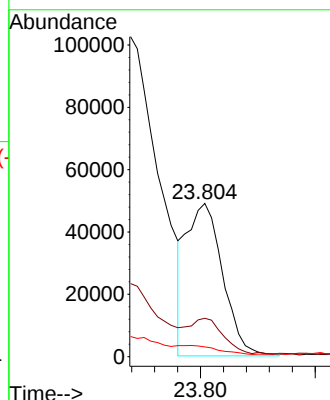
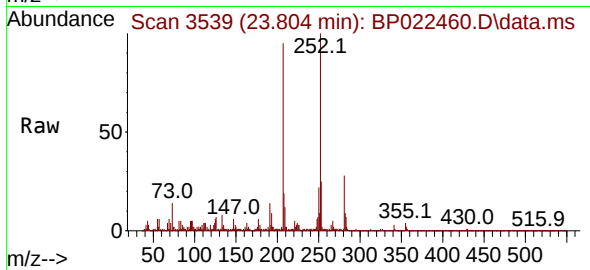
Tgt Ion:252 Resp: 10796  
 Ion Ratio Lower Upper  
 252 100  
 253 25.0 17.4 26.0  
 125 6.4 4.6 6.8

Manual Integrations

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Supervised By :mohammad ahmed 10/21/2024



#93

Benzo(a)pyrene

Concen: 3.796 ng/ul

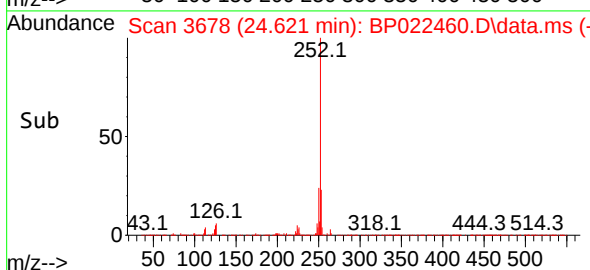
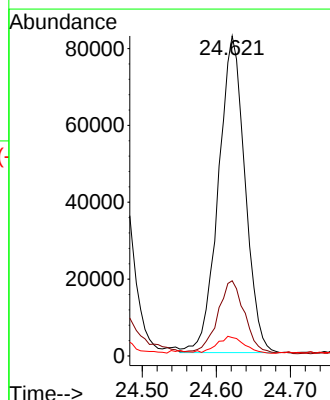
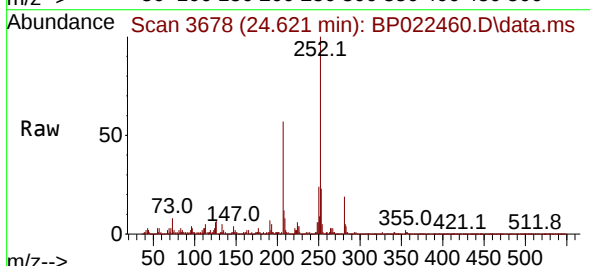
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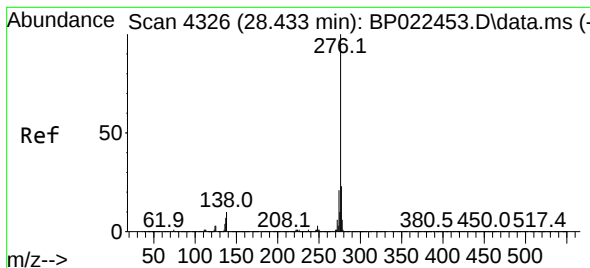
Delta R.T. 0.018 min

Lab File: BP022460.D

Acq: 18 Oct 2024 14:49

Tgt Ion:252 Resp: 205015  
 Ion Ratio Lower Upper  
 252 100  
 253 23.5 17.7 26.5  
 125 5.8 4.9 7.3





#94

Indeno(1,2,3-cd)pyrene

Concen: 2.126 ng/ul

RT: 28.474 min Scan# 41

Delta R.T. 0.041 min

Lab File: BP022460.D

Acq: 18 Oct 2024 14:49

Instrument :

BNA\_P

ClientSampleId :

EOAW9

Tgt Ion:276 Resp: 15320

Ion Ratio Lower Upper

276 100

138 11.3 9.1 13.7

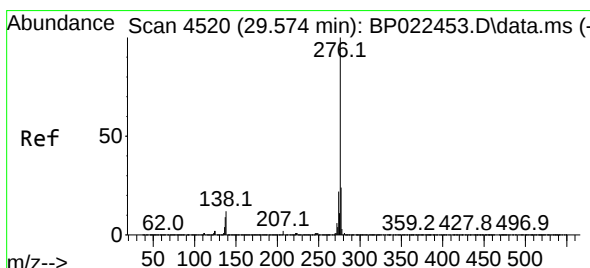
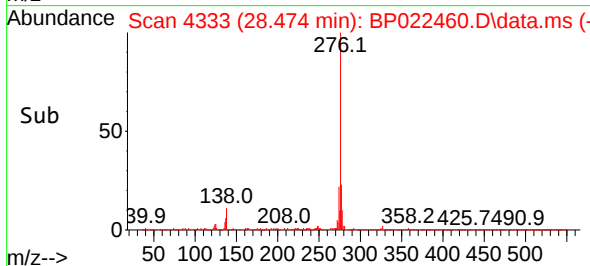
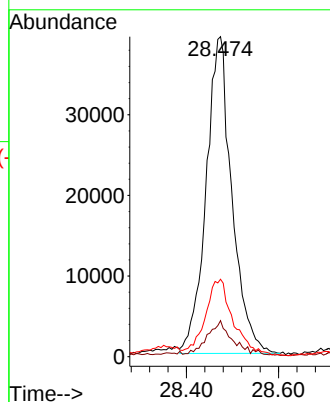
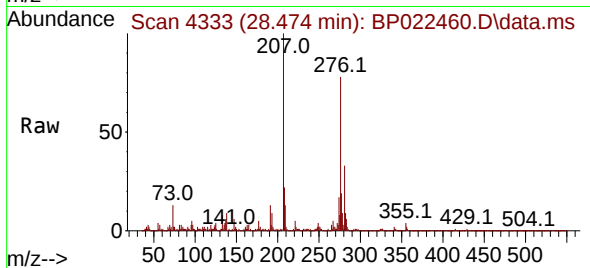
277 24.2 18.6 27.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/21/2024

Supervised By :mohammad ahmed 10/21/2024



#96

Benzo(g,h,i)perylene

Concen: 2.681 ng/ul

RT: 29.603 min Scan# 4525

Delta R.T. 0.030 min

Lab File: BP022460.D

Acq: 18 Oct 2024 14:49

Tgt Ion:276 Resp: 150291

Ion Ratio Lower Upper

276 100

138 12.5 8.5 12.7

277 24.6 19.0 28.4

