

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060624\  
 Data File : BN031831.D  
 Acq On : 06 Jun 2024 23:11  
 Operator : MA/JU  
 Sample : P2647-19  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BHBT3

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/07/2024  
 Supervised By :mohammad ahmed 06/08/2024

Quant Time: Jun 07 00:08:59 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 29 15:13:07 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.669  | 152  | 372720   | 20.000 | ng/u1  | -0.02    |
| 20) Naphthalene-d8            | 10.451 | 136  | 1550566  | 20.000 | ng/u1  | -0.02    |
| 38) Acenaphthene-d10          | 14.316 | 164  | 960297   | 20.000 | ng/u1  | -0.01    |
| 64) Phenanthrene-d10          | 17.063 | 188  | 1863344  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.298 | 240  | 1131873  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.239 | 264  | 1280732  | 20.000 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.187  | 96   | 33341    | 3.701  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.593  | 84   | 166688   | 6.573  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.846  | 99   | 754473   | 23.612 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.010  | 67   | 407953   | 21.827 | ng/u1  | -0.02    |
| 11) 2-Chlorophenol-d4         | 7.205  | 132  | 597651   | 24.514 | ng/u1  | -0.01    |
| 15) 4-Methylphenol-d8         | 8.375  | 113  | 552234   | 21.202 | ng/u1  | -0.01    |
| 21) Nitrobenzene-d5           | 8.828  | 128  | 290324   | 24.488 | ng/u1  | -0.01    |
| 24) 2-Nitrophenol-d4          | 9.546  | 143  | 303247   | 24.762 | ng/u1  | -0.01    |
| 28) 2,4-Dichlorophenol-d3     | 10.081 | 165  | 543740   | 23.782 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.599 | 131  | 355967   | 10.486 | ng/u1  | -0.01    |
| 46) Dimethylphthalate-d6      | 13.728 | 166  | 1592204  | 23.800 | ng/u1  | -0.02    |
| 49) Acenaphthylene-d8         | 14.004 | 160  | 1893543  | 24.615 | ng/u1  | -0.01    |
| 54) 4-Nitrophenol-d4          | 14.528 | 143  | 269467   | 20.117 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.310 | 176  | 1422986  | 25.139 | ng/u1  | -0.01    |
| 65) 4,6-Dinitro-2-methylph... | 15.439 | 200  | 143483   | 15.319 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.163 | 188  | 2053642  | 25.743 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.463 | 212  | 1761051  | 29.075 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.033 | 264  | 1060334  | 17.338 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 36) 2-Methylnaphthalene       | 12.122 | 142  | 64484    | 1.176  | ng/u1  | 93       |
| 37) 1-Methylnaphthalene       | 12.340 | 142  | 68111    | 1.238  | ng/u1  | 97       |
| 50) Acenaphthylene            | 14.034 | 152  | 104132   | 1.198  | ng/u1# | 97       |
| 72) Phenanthrene              | 17.104 | 178  | 1164641  | 12.270 | ng/u1  | 98       |
| 74) Anthracene                | 17.198 | 178  | 178712   | 1.858  | ng/u1  | 97       |
| 77) Carbazole                 | 17.469 | 167  | 92733    | 1.131  | ng/u1  | 96       |
| 80) Fluoranthene              | 19.127 | 202  | 1849138  | 25.546 | ng/u1  | 99       |
| 82) Pyrene                    | 19.492 | 202  | 1404899  | 18.917 | ng/u1  | 98       |
| 83) Butylbenzylphthalate      | 20.398 | 149  | 43848    | 1.250  | ng/u1  | 98       |
| 85) Benzo(a)anthracene        | 21.280 | 228  | 706624   | 9.327  | ng/u1  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.210 | 149  | 246838   | 4.827  | ng/u1  | 100      |
| 87) Chrysene                  | 21.339 | 228  | 800764   | 11.316 | ng/u1  | 95       |
| 90) Benzo(b)fluoranthene      | 23.310 | 252  | 1009708  | 13.190 | ng/u1  | 96       |
| 91) Benzo(k)fluoranthene      | 23.368 | 252  | 314175m  | 4.182  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.098 | 252  | 412947   | 5.760  | ng/u1  | 95       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.539 | 276  | 385081   | 4.661  | ng/u1  | 94       |
| 95) Dibenzo(a,h)anthracene    | 27.580 | 278  | 135738m  | 2.012  | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

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

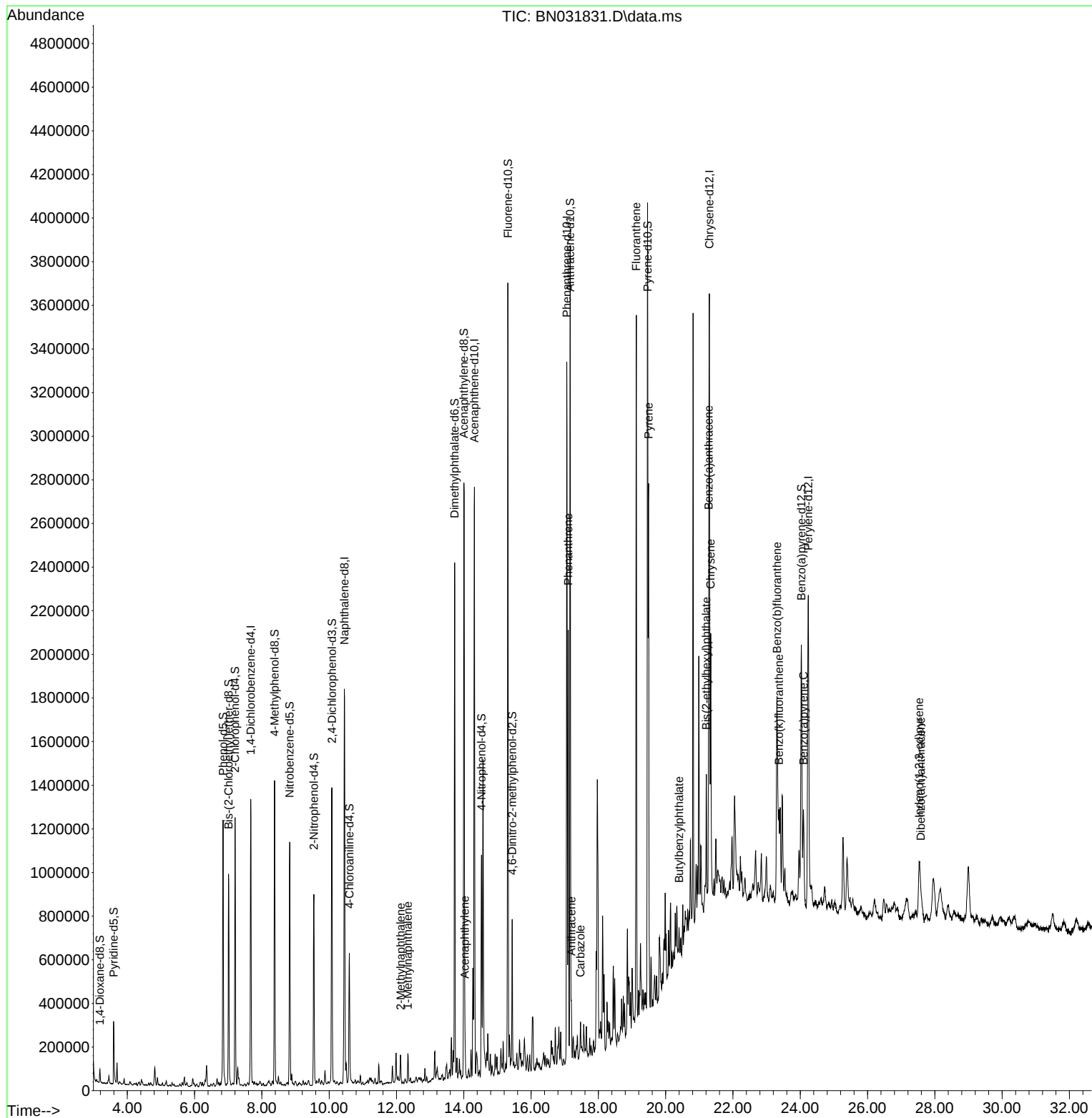
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060624\  
 Data File : BN031831.D  
 Acq On : 06 Jun 2024 23:11  
 Operator : MA/JU  
 Sample : P2647-19  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

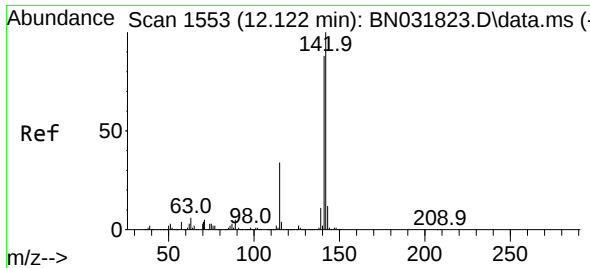
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BHBT3

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 06/07/2024  
 Supervised By :mohammad ahmed 06/08/2024

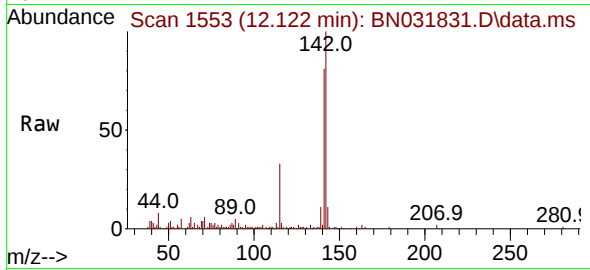
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 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 29 15:13:07 2024  
 Response via : Initial Calibration





#36  
2-Methylnaphthalene  
Concen: 1.176 ng/ul  
RT: 12.122 min Scan# 1553  
Delta R.T. -0.012 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11

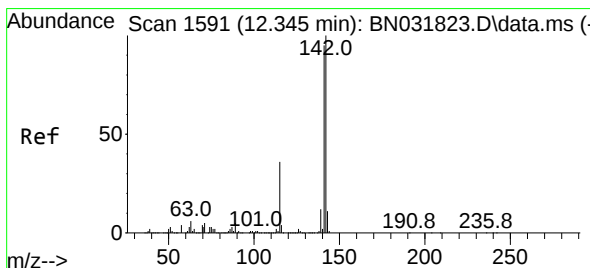
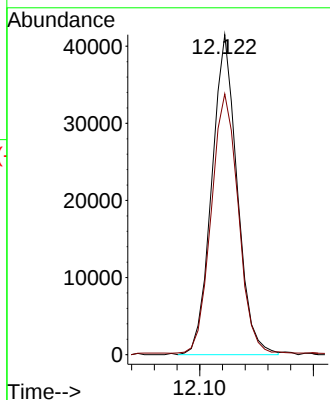
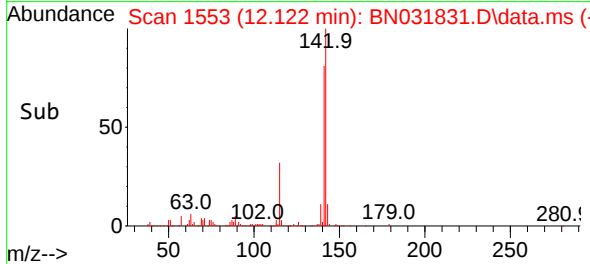
Instrument :  
BNA\_N  
ClientSampleId :  
BHBT3



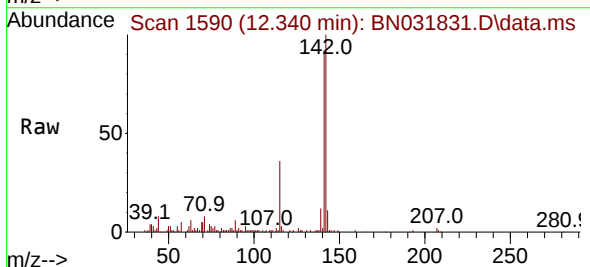
Tgt Ion:142 Resp: 64484  
Ion Ratio Lower Upper  
142 100  
141 81.5 70.1 105.1

Manual Integrations  
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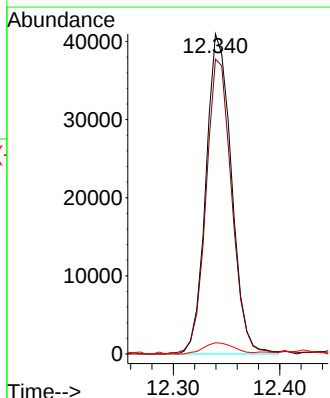
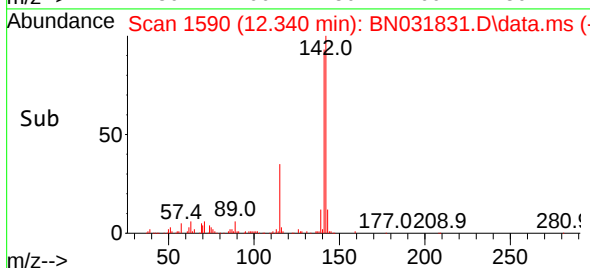
Reviewed By :Jagrut Upadhyay 06/07/2024  
Supervised By :mohammad ahmed 06/08/2024

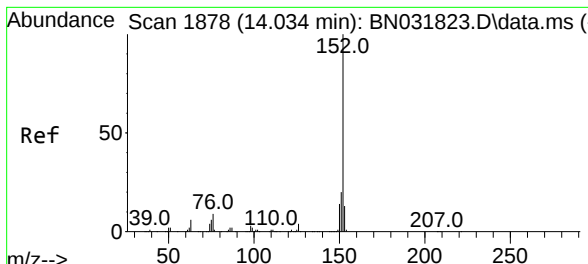


#37  
1-Methylnaphthalene  
Concen: 1.238 ng/ul  
RT: 12.340 min Scan# 1590  
Delta R.T. -0.018 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11



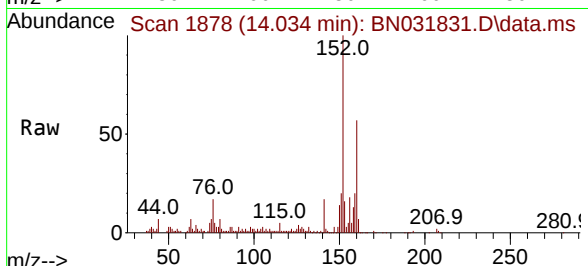
Tgt Ion:142 Resp: 68111  
Ion Ratio Lower Upper  
142 100  
141 92.1 71.7 107.5  
116 3.5 3.0 4.4





#50  
Acenaphthylene  
Concen: 1.198 ng/ul  
RT: 14.034 min Scan# 1878  
Delta R.T. -0.012 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11

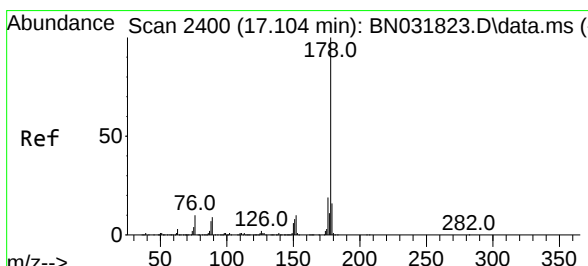
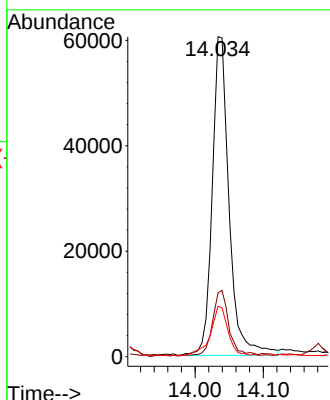
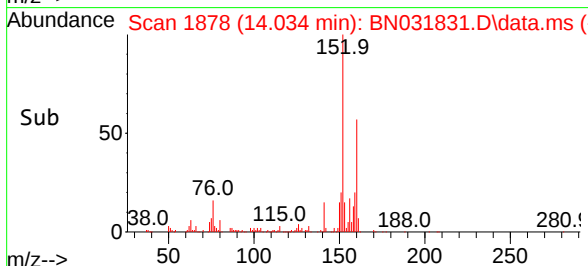
Instrument : BNA\_N  
ClientSampleId : BHBT3



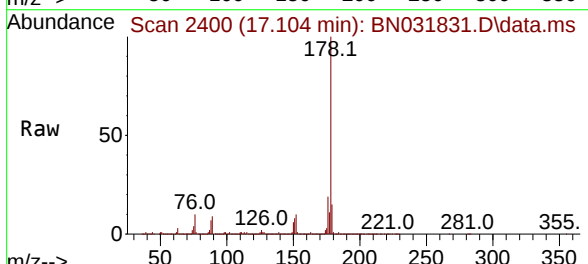
Tgt Ion:152 Resp: 104132  
Ion Ratio Lower Upper  
152 100  
151 20.0 15.9 23.9  
153 15.8 10.4 15.6

Manual Integrations  
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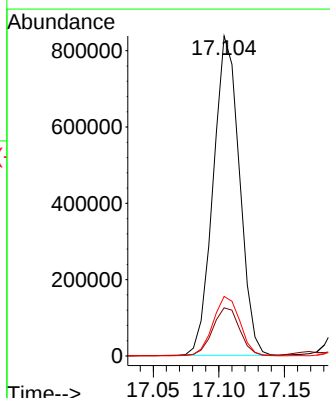
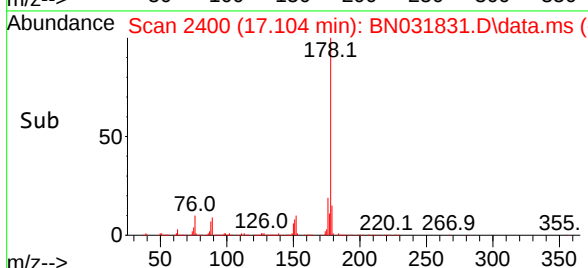
Reviewed By :Jagrut Upadhyay 06/07/2024  
Supervised By :mohammad ahmed 06/08/2024

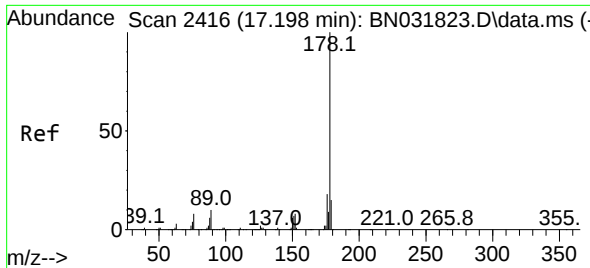


#72  
Phenanthrene  
Concen: 12.270 ng/ul  
RT: 17.104 min Scan# 2400  
Delta R.T. -0.012 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11



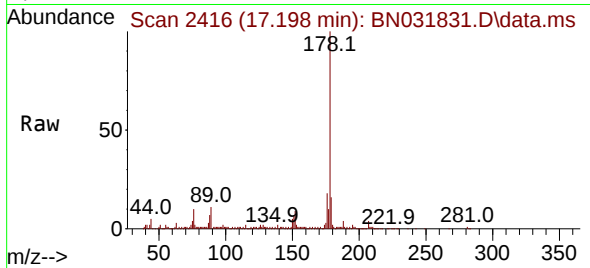
Tgt Ion:178 Resp: 1164641  
Ion Ratio Lower Upper  
178 100  
179 15.1 12.6 19.0  
176 18.6 15.8 23.6





#74  
 Anthracene  
 Concen: 1.858 ng/ul  
 RT: 17.198 min Scan# 2416  
 Delta R.T. -0.006 min  
 Lab File: BN031831.D  
 Acq: 06 Jun 2024 23:11

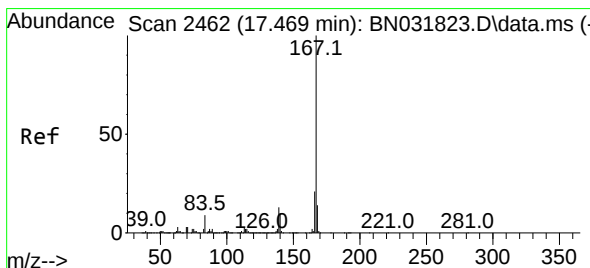
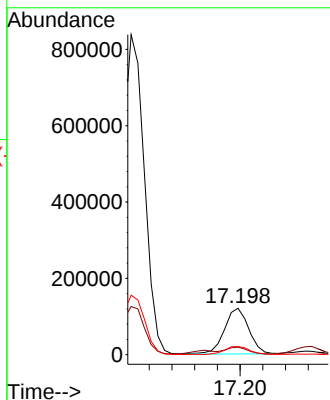
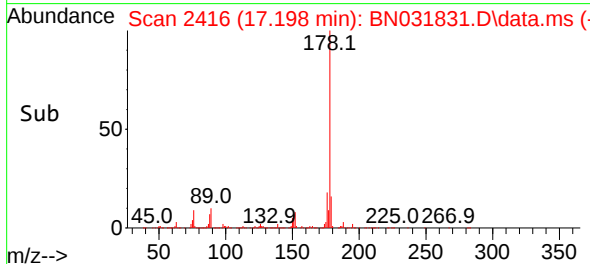
Instrument :  
 BNA\_N  
 ClientSampleId :  
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Tgt Ion:178 Resp: 178712  
 Ion Ratio Lower Upper  
 178 100  
 179 16.4 11.8 17.6  
 176 17.7 14.8 22.2

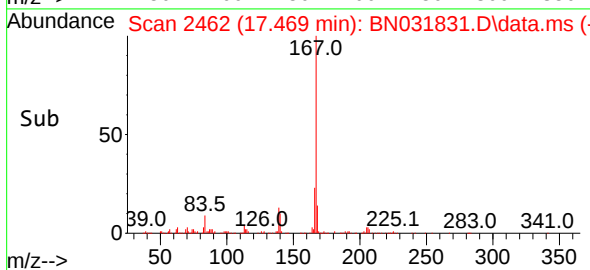
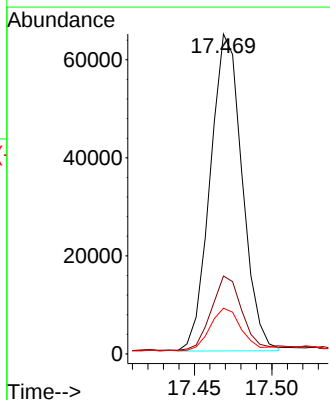
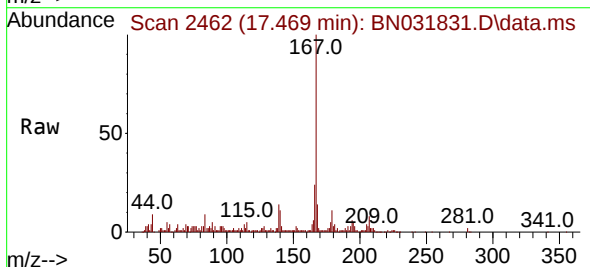
Manual Integrations  
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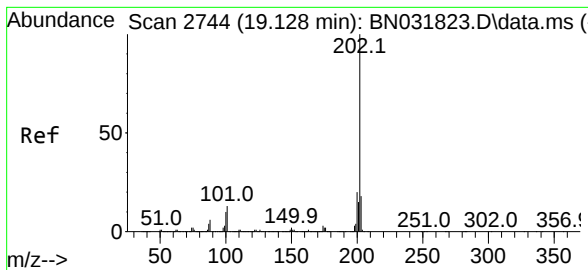
Reviewed By :Jagrut Upadhyay 06/07/2024  
 Supervised By :mohammad ahmed 06/08/2024



#77  
 Carbazole  
 Concen: 1.131 ng/ul  
 RT: 17.469 min Scan# 2462  
 Delta R.T. -0.006 min  
 Lab File: BN031831.D  
 Acq: 06 Jun 2024 23:11

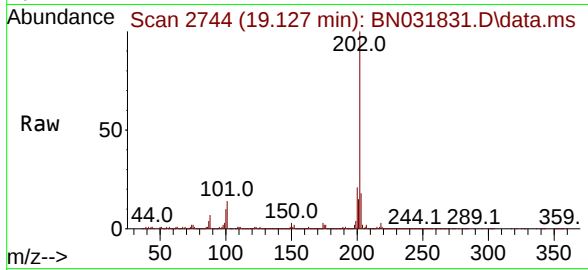
Tgt Ion:167 Resp: 92733  
 Ion Ratio Lower Upper  
 167 100  
 166 24.4 17.9 26.9  
 139 14.3 10.5 15.7





#80  
Fluoranthene  
Concen: 25.546 ng/ul  
RT: 19.127 min Scan# 2744  
Delta R.T. -0.006 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11

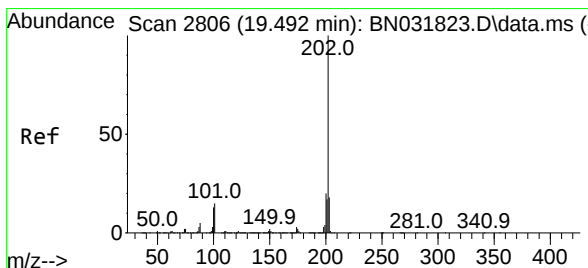
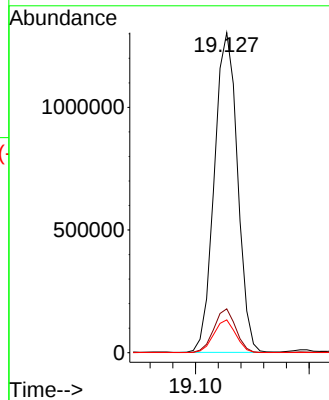
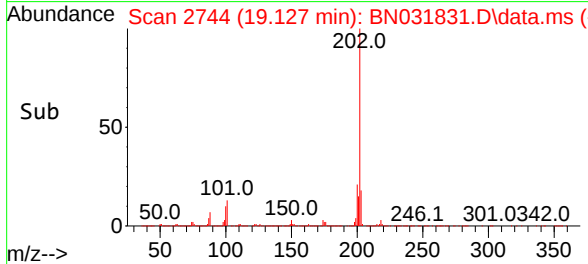
Instrument :  
BNA\_N  
ClientSampleId :  
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Tgt Ion:202 Resp: 1849138  
Ion Ratio Lower Upper  
202 100  
101 13.7 10.3 15.5  
100 10.3 8.0 12.0

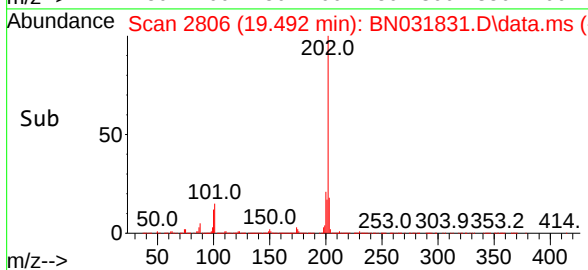
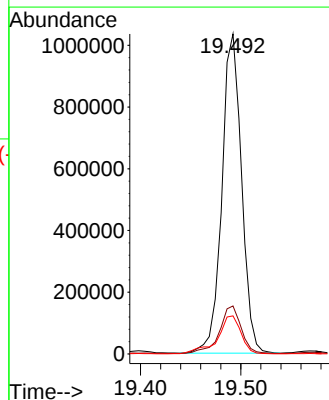
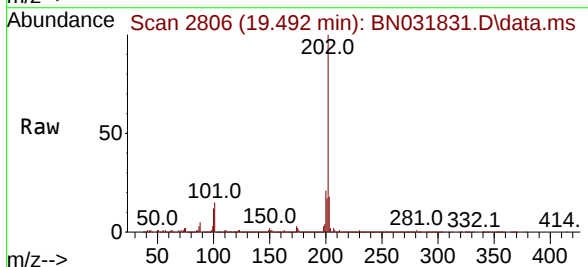
Manual Integrations  
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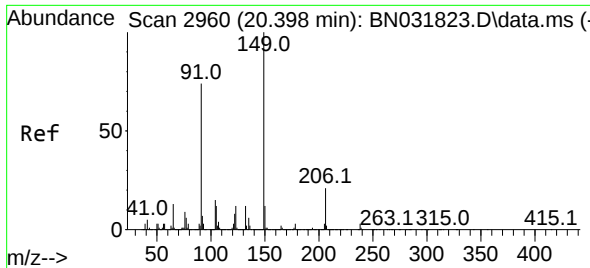
Reviewed By :Jagrut Upadhyay 06/07/2024  
Supervised By :mohammad ahmed 06/08/2024



#82  
Pyrene  
Concen: 18.917 ng/ul  
RT: 19.492 min Scan# 2806  
Delta R.T. -0.000 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11

Tgt Ion:202 Resp: 1404899  
Ion Ratio Lower Upper  
202 100  
101 15.0 12.6 18.8  
100 11.9 10.2 15.2





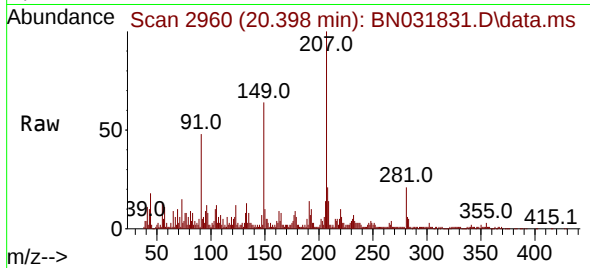
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Butylbenzylphthalate  
Concen: 1.250 ng/ul  
RT: 20.398 min Scan# 2960  
Delta R.T. -0.006 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11

Instrument :

BNA\_N

ClientSampleId :

BHBT3

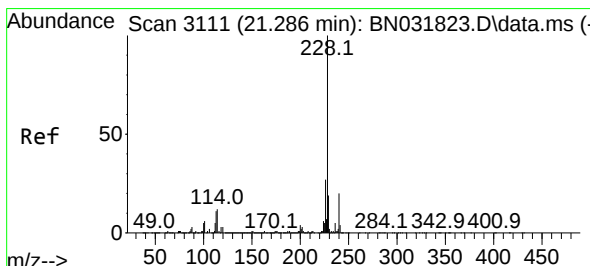
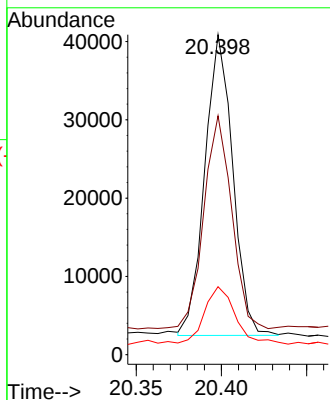
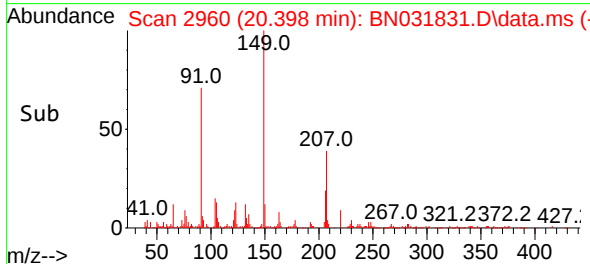


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Ion Ratio Lower Upper  
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91 74.7 61.0 91.4  
206 21.3 16.5 24.7

Manual Integrations

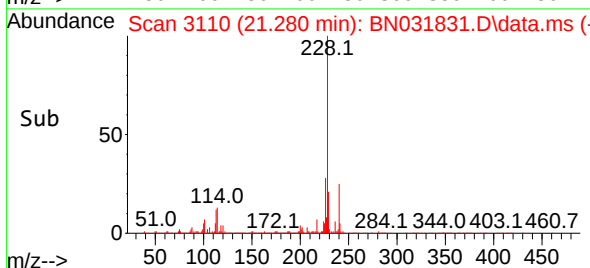
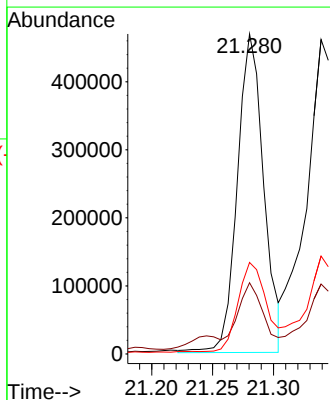
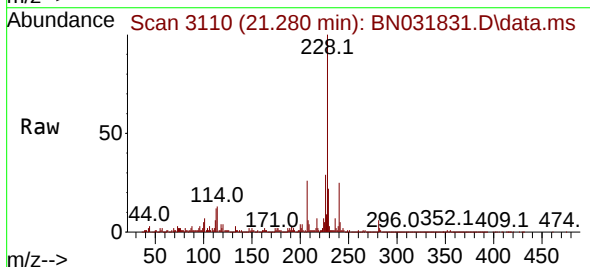
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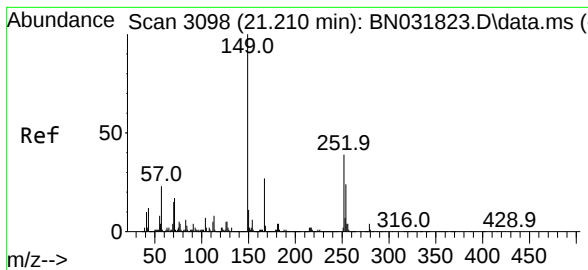
Reviewed By :Jagrut Upadhyay 06/07/2024  
Supervised By :mohammad ahmed 06/08/2024



#85  
Benzo(a)anthracene  
Concen: 9.327 ng/ul  
RT: 21.280 min Scan# 3110  
Delta R.T. -0.006 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11

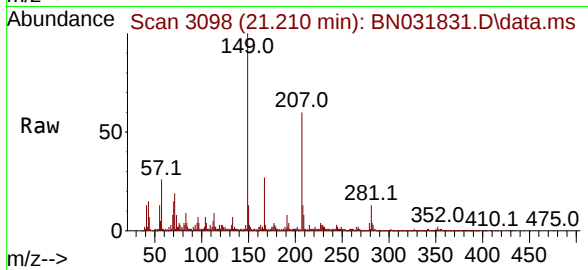
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Ion Ratio Lower Upper  
228 100  
229 22.3 16.7 25.1  
226 28.6 22.8 34.2





#86  
Bis(2-ethylhexyl)phthalate  
Concen: 4.827 ng/ul  
RT: 21.210 min Scan# 3098  
Delta R.T. -0.012 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11

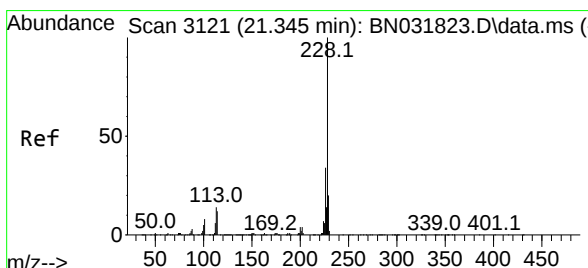
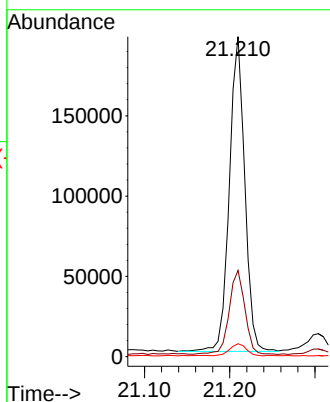
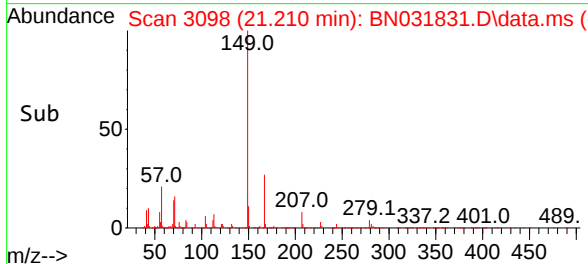
Instrument :  
BNA\_N  
ClientSampleId :  
BHBT3



Tgt Ion:149 Resp: 246838  
Ion Ratio Lower Upper  
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167 27.0 21.4 32.0  
279 4.1 3.3 4.9

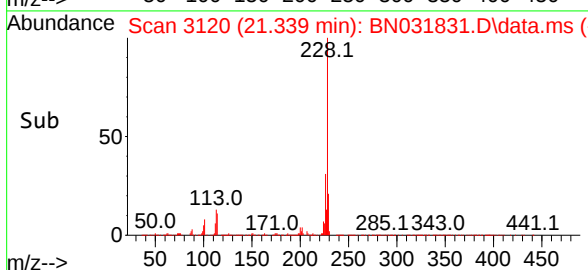
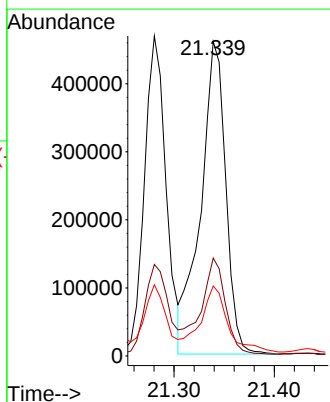
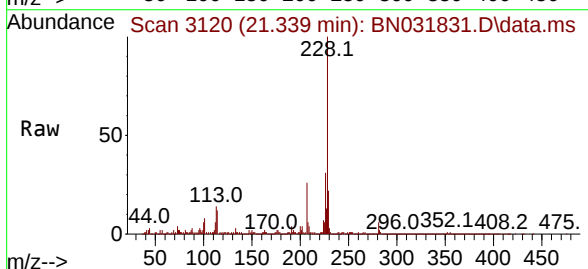
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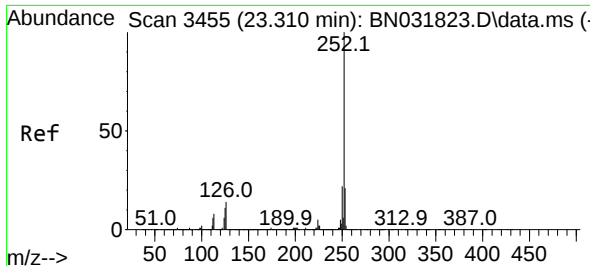
Reviewed By :Jagrut Upadhyay 06/07/2024  
Supervised By :mohammad ahmed 06/08/2024



#87  
Chrysene  
Concen: 11.316 ng/ul  
RT: 21.339 min Scan# 3120  
Delta R.T. -0.012 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11

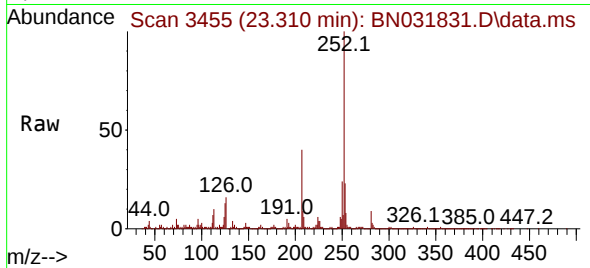
Tgt Ion:228 Resp: 800764  
Ion Ratio Lower Upper  
228 100  
226 31.1 23.7 35.5  
229 22.2 15.1 22.7





#90  
Benzo(b)fluoranthene  
Concen: 13.190 ng/ul  
RT: 23.310 min Scan# 3455  
Delta R.T. -0.000 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11

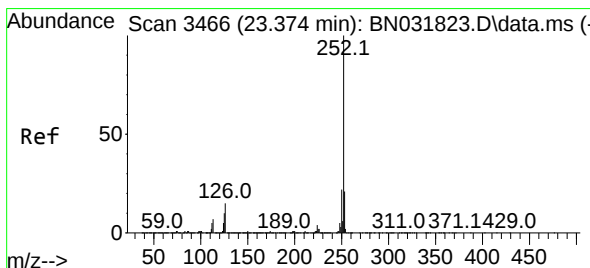
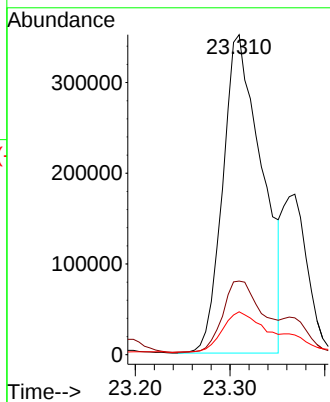
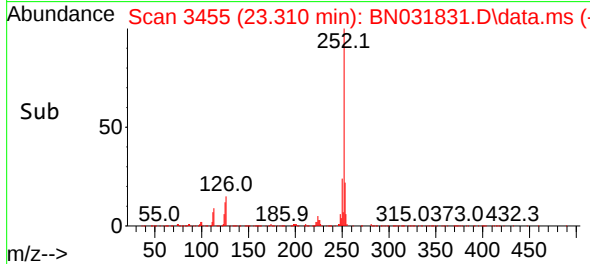
Instrument :  
BNA\_N  
ClientSampleId :  
BHBT3



Tgt Ion:252 Resp: 1009708  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.0 25.6  
125 13.4 9.2 13.8

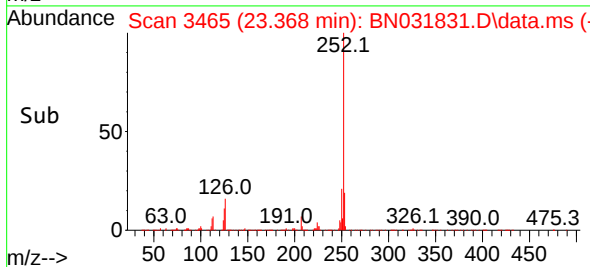
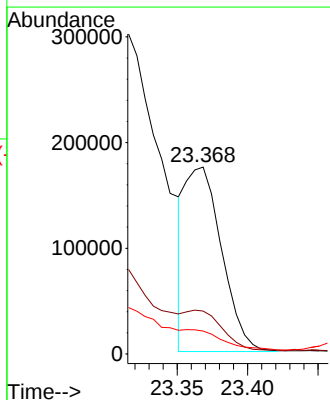
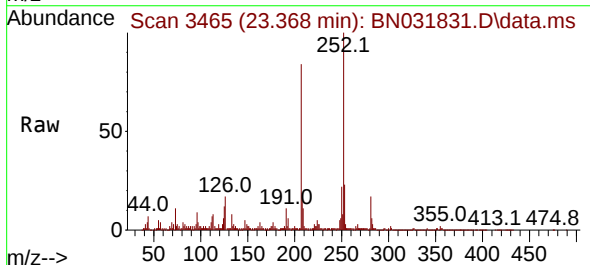
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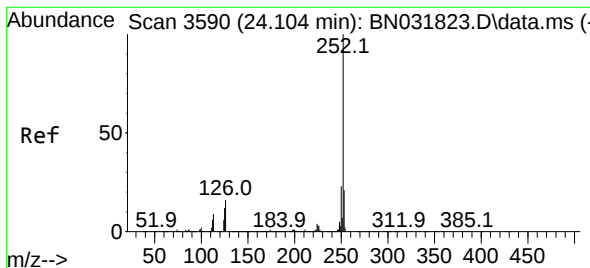
Reviewed By :Jagrut Upadhyay 06/07/2024  
Supervised By :mohammad ahmed 06/08/2024



#91  
Benzo(k)fluoranthene  
Concen: 4.182 ng/ul m  
RT: 23.368 min Scan# 3465  
Delta R.T. -0.006 min  
Lab File: BN031831.D  
Acq: 06 Jun 2024 23:11

Tgt Ion:252 Resp: 314175  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.6 26.4  
125 12.3 9.4 14.2





#93

Benzo(a)pyrene

Concen: 5.760 ng/ul

RT: 24.098 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN031831.D

Acq: 06 Jun 2024 23:11

Instrument :

BNA\_N

ClientSampleId :

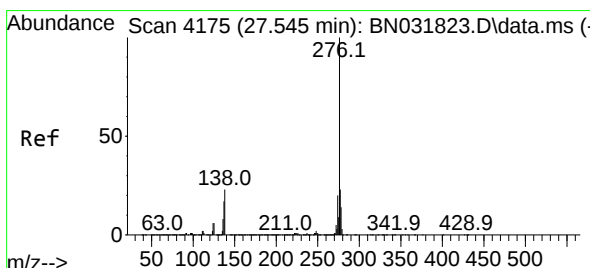
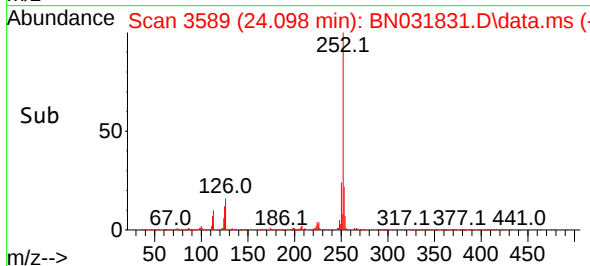
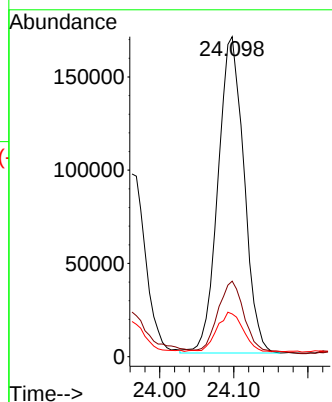
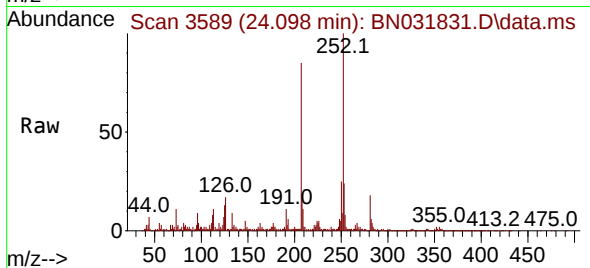
BHBT3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 41294 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.6  | 16.6  | 24.8  |
| 125       | 13.3  | 9.8   | 14.8  |

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Reviewed By :Jagrut Upadhyay 06/07/2024  
Supervised By :mohammad ahmed 06/08/2024



#94

Indeno(1,2,3-cd)pyrene

Concen: 4.661 ng/ul

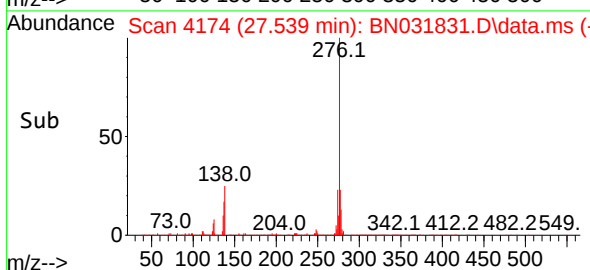
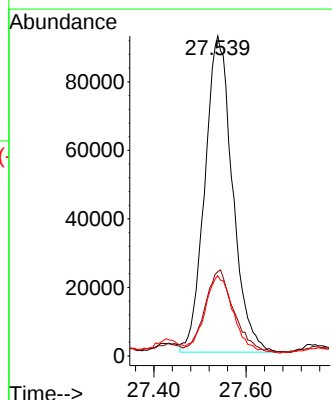
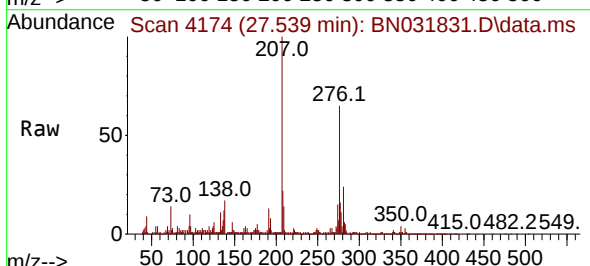
RT: 27.539 min Scan# 4174

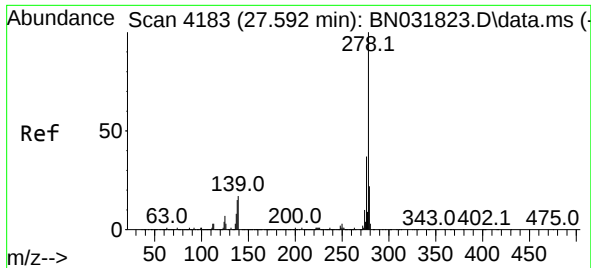
Delta R.T. 0.006 min

Lab File: BN031831.D

Acq: 06 Jun 2024 23:11

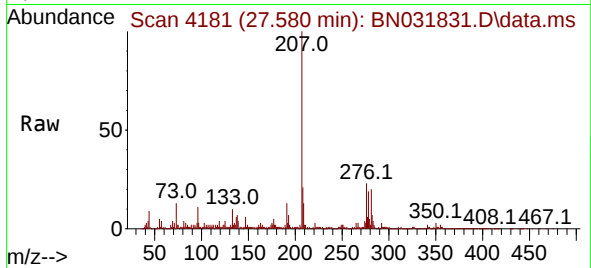
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 385081 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 26.3  | 18.1  | 27.1   |
| 277       | 25.1  | 18.2  | 27.2   |





#95  
 Dibenzo(a,h)anthracene  
 Concen: 2.012 ng/ul m  
 RT: 27.580 min Scan# 4181  
 Delta R.T. -0.024 min  
 Lab File: BN031831.D  
 Acq: 06 Jun 2024 23:11

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BHBT3



Tgt Ion:278 Resp: 135738  
 Ion Ratio Lower Upper  
 278 100  
 139 22.5 15.0 22.6  
 279 27.5 17.4 26.0

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/07/2024  
 Supervised By :mohammad ahmed 06/08/2024

