

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN040424\  
 Data File : BN030610.D  
 Acq On : 02 Apr 2024 11:02  
 Operator : MA/JU  
 Sample : P1934-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AA2

Quant Time: Apr 02 23:22:40 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN032824.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Mar 31 12:24:07 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut  
 Upadhyay  
 04/03/2024

Supervised By :mohammad  
 ahmed  
 04/06/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.693  | 152  | 228292   | 20.000  | ng/u1 | 0.00     |
| 20) Naphthalene-d8            | 10.481 | 136  | 1003115  | 20.000  | ng/u1 | 0.00     |
| 38) Acenaphthene-d10          | 14.334 | 164  | 658832   | 20.000  | ng/u1 | 0.00     |
| 64) Phenanthrene-d10          | 17.086 | 188  | 1387346  | 20.000  | ng/u1 | 0.00     |
| 79) Chrysene-d12              | 21.322 | 240  | 1259533  | 20.000  | ng/u1 | 0.00     |
| 88) Perylene-d12              | 24.263 | 264  | 1229944  | 20.000  | ng/u1 | -0.01    |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 3) 1,4-Dioxane-d8             | 3.193  | 96   | 37315    | 7.663   | ng/uL | 0.00     |
| 4) Pyridine-d5                | 3.599  | 84   | 540064   | 36.993  | ng/u1 | 0.00     |
| 7) Phenol-d5                  | 6.863  | 99   | 753818   | 40.818  | ng/u1 | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.034  | 67   | 456429   | 40.015  | ng/u1 | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.228  | 132  | 598808   | 42.742  | ng/u1 | 0.00     |
| 15) 4-Methylphenol-d8         | 8.399  | 113  | 614313   | 39.690  | ng/u1 | 0.00     |
| 21) Nitrobenzene-d5           | 8.852  | 128  | 305104   | 43.846  | ng/u1 | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.563  | 143  | 492196m  | 77.319  | ng/u1 | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.099 | 165  | 593170   | 42.563  | ng/u1 | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.628 | 131  | 242842   | 10.584  | ng/u1 | 0.00     |
| 46) Dimethylphthalate-d6      | 13.757 | 166  | 1976983  | 44.944  | ng/u1 | 0.00     |
| 49) Acenaphthylene-d8         | 14.028 | 160  | 2214003  | 43.776  | ng/u1 | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.534 | 143  | 337991   | 40.171  | ng/u1 | 0.00     |
| 60) Fluorene-d10              | 15.334 | 176  | 1688061  | 43.854  | ng/u1 | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.451 | 200  | 219105   | 35.780  | ng/u1 | 0.00     |
| 73) Anthracene-d10            | 17.186 | 188  | 2612553  | 43.706  | ng/u1 | 0.00     |
| 81) Pyrene-d10                | 19.486 | 212  | 3095429  | 45.711  | ng/u1 | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.063 | 264  | 2749660  | 48.518  | ng/u1 | -0.01    |
| Target Compounds              |        |      |          |         |       |          |
| 8) Phenol                     | 6.887  | 94   | 68629    | 3.567   | ng/u1 | 96       |
| 10) Bis(2-Chloroethyl)ether   | 7.128  | 93   | 1807780  | 115.229 | ng/u1 | 99       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.228  | 45   | 2986708  | 135.200 | ng/u1 | 99       |
| 22) Nitrobenzene              | 8.893  | 77   | 491892   | 28.957  | ng/u1 | 99       |
| 23) Isophorone                | 9.416  | 82   | 285329   | 8.423   | ng/u1 | 97       |
| 27) Bis(2-Chloroethoxy)met... | 9.904  | 93   | 1900930  | 88.256  | ng/u1 | 98       |
| 36) 2-Methylnaphthalene       | 12.146 | 142  | 2234394  | 62.189  | ng/u1 | 97       |
| 47) Dimethylphthalate         | 13.810 | 163  | 6861565  | 151.007 | ng/u1 | 99       |
| 50) Acenaphthylene            | 14.057 | 152  | 1257593  | 21.521  | ng/u1 | 99       |
| 52) Acenaphthene              | 14.404 | 153  | 1807984  | 46.428  | ng/u1 | 99       |
| 61) Fluorene                  | 15.387 | 166  | 2146558  | 49.889  | ng/u1 | 98       |
| 68) 4-Bromophenyl-phenylether | 16.281 | 248  | 331253   | 25.145  | ng/u1 | 97       |
| 69) Hexachlorobenzene         | 16.381 | 284  | 745893   | 48.083  | ng/u1 | 96       |
| 72) Phenanthrene              | 17.128 | 178  | 2856524  | 40.076  | ng/u1 | 98       |
| 74) Anthracene                | 17.216 | 178  | 1804133  | 25.038  | ng/u1 | 98       |
| 78) Di-n-butylphthalate       | 18.063 | 149  | 8137677  | 105.563 | ng/u1 | 98       |
| 82) Pyrene                    | 19.510 | 202  | 2294501  | 26.989  | ng/u1 | 100      |
| 83) Butylbenzylphthalate      | 20.427 | 149  | 3162314  | 97.402  | ng/u1 | 99       |
| 85) Benzo(a)anthracene        | 21.304 | 228  | 1780689  | 21.184  | ng/u1 | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.239 | 149  | 5001382  | 104.459 | ng/u1 | 98       |
| 89) Di-n-octyl phthalate      | 22.363 | 149  | 11596922 | 148.890 | ng/u1 | 100      |
| 90) Benzo(b)fluoranthene      | 23.333 | 252  | 2163408  | 29.888  | ng/u1 | 99       |
| 91) Benzo(k)fluoranthene      | 23.392 | 252  | 2455225  | 33.400  | ng/u1 | 98       |
| 93) Benzo(a)pyrene            | 24.121 | 252  | 280303   | 4.099   | ng/u1 | 98       |

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Sample : P1934-01  
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Instrument :  
BNA\_N  
ClientSampleId :  
C0AA2

Quant Time: Apr 02 23:22:40 2024  
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Quant Title : SVOA CALIBRATION  
QLast Update : Sun Mar 31 12:24:07 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Jagrut  
Upadhyay  
04/03/2024

Supervised By :mohammad  
ahmed  
04/06/2024

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| 95) Dibenzo(a,h)anthracene | 27.633 | 278  | 2565715  | 41.233 | ng/ul | 98       |

04/03/2024  
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ahmed

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

04/05/2024

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Supervised By :mohammad

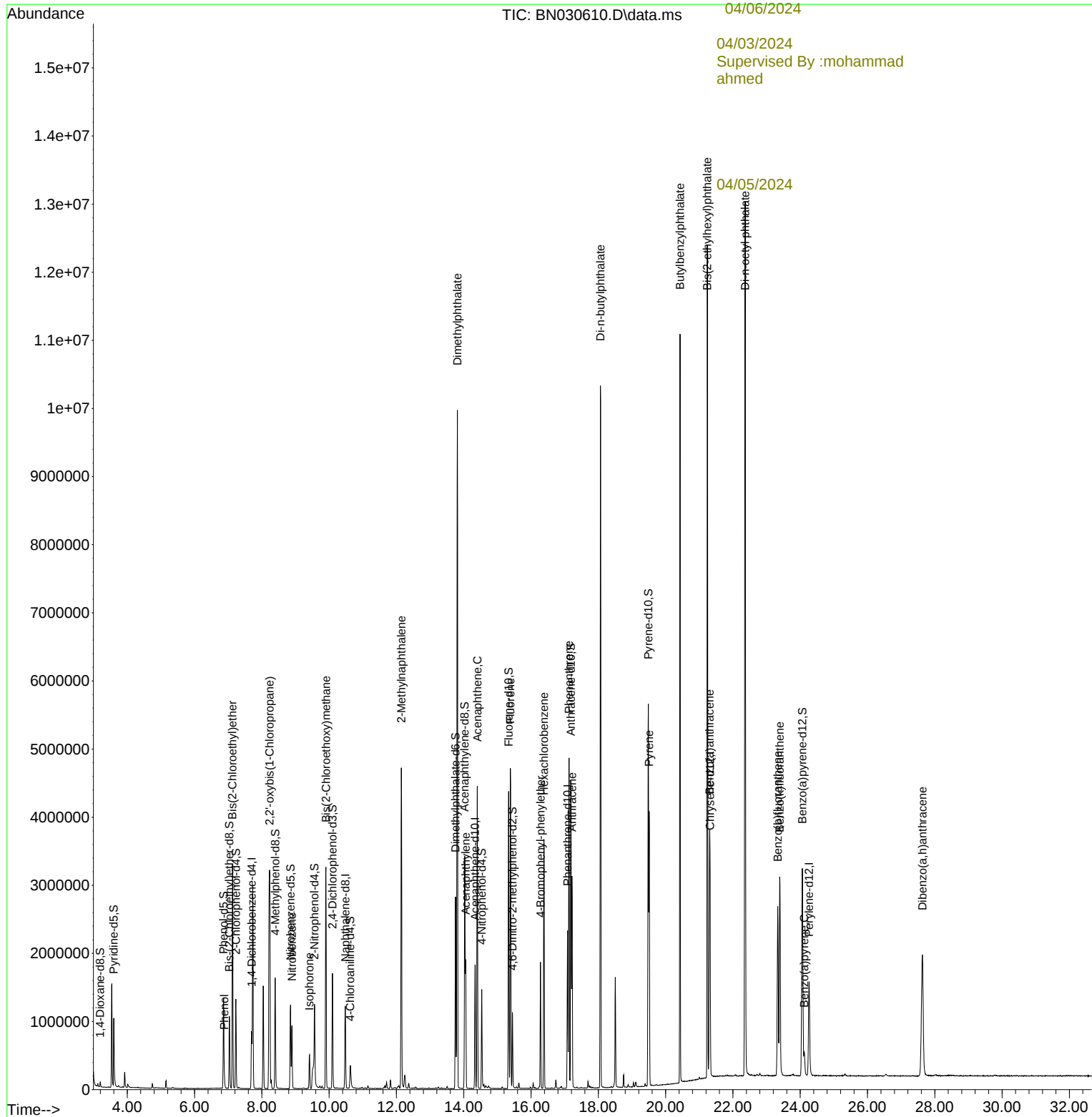
ahmed

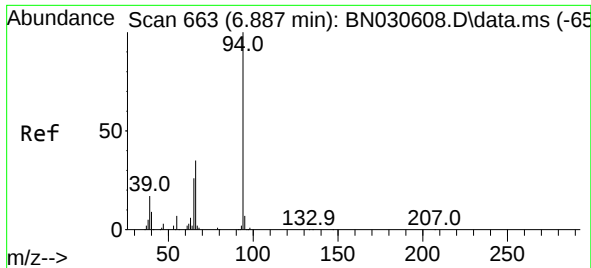
04/06/2024

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Supervised By :mohammad

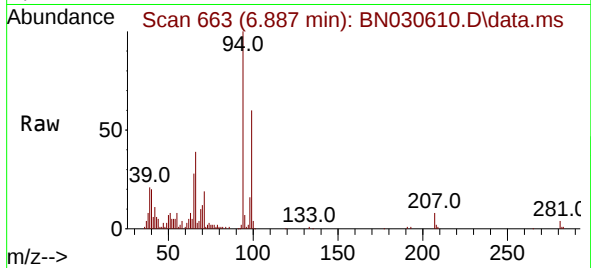
ahmed





#8  
Phenol  
Concen: 3.567 ng/ul  
RT: 6.887 min Scan# 663  
Delta R.T. -0.000 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

Instrument :  
BNA\_N  
ClientSampleId :  
C0AA2



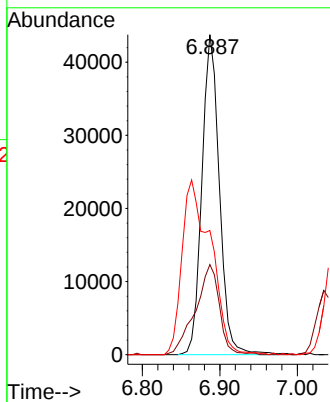
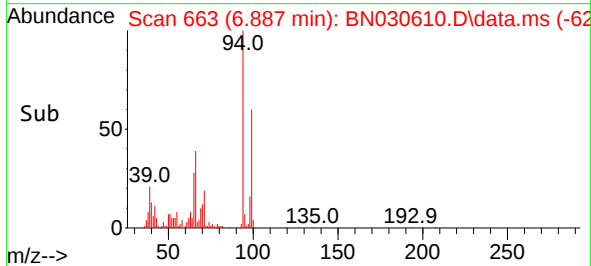
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Ion Ratio Lower Upper  
94 100  
65 28.1 21.4 32.0  
66 38.8 28.5 42.7

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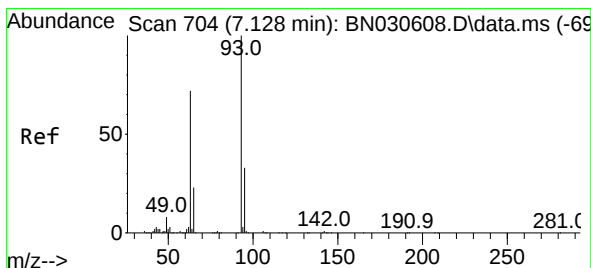
Reviewed By :Jagrut  
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ahmed

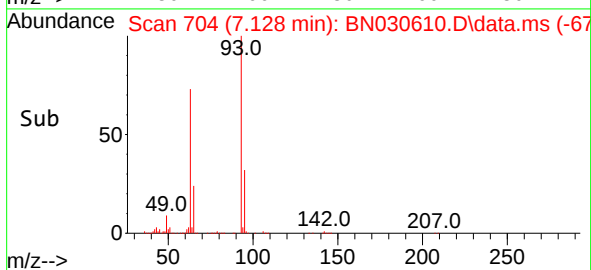
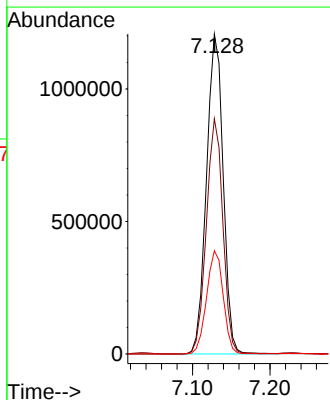
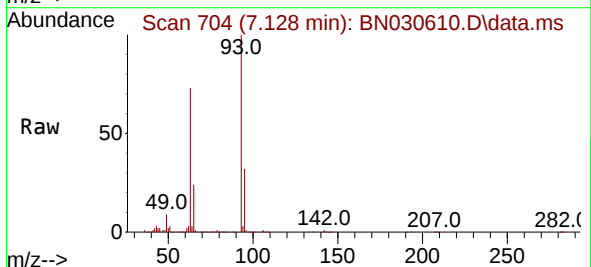


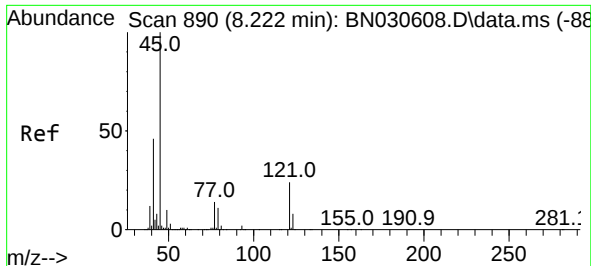
04/05/2024



#10  
Bis(2-Chloroethyl)ether  
Concen: 115.229 ng/ul  
RT: 7.128 min Scan# 704  
Delta R.T. -0.000 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

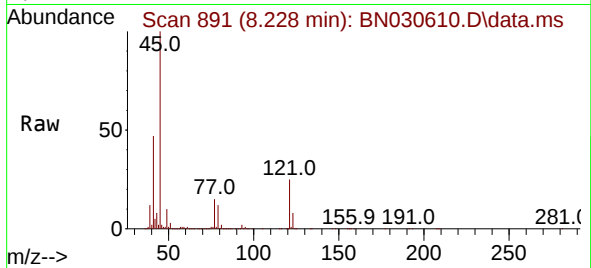
Tgt Ion: 93 Resp: 1807780  
Ion Ratio Lower Upper  
93 100  
63 73.5 58.2 87.4  
95 32.2 26.0 39.0





#14  
2,2'-oxybis(1-Chloropropane)  
Concen: 135.200 ng/ul  
RT: 8.228 min Scan# 891  
Delta R.T. 0.006 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

Instrument :  
BNA\_N  
ClientSampleId :  
C0AA2



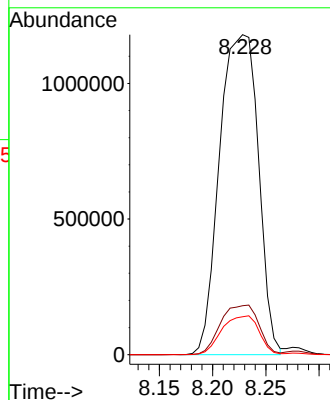
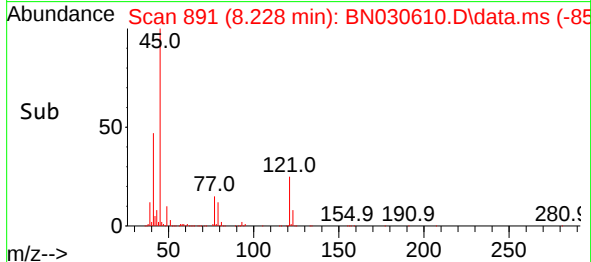
Tgt Ion: 45 Resp: 2986708  
Ion Ratio Lower Upper  
45 100  
77 15.3 12.1 18.1  
79 11.9 8.6 13.0

Manual Integrations  
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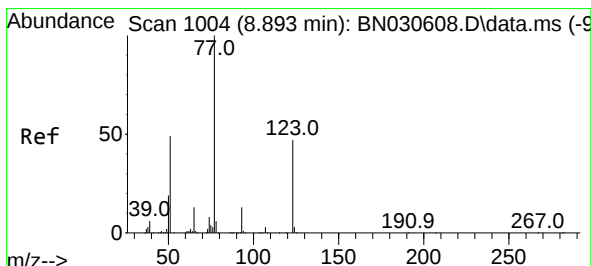
Reviewed By :Jagrut  
Upadhyay  
04/03/2024

Supervised By :mohammad  
ahmed  
04/06/2024

04/03/2024  
Supervised By :mohammad  
ahmed

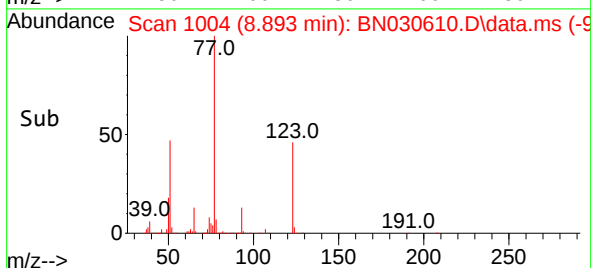
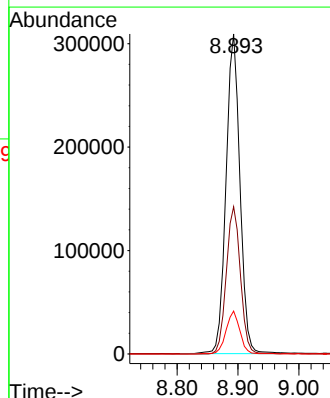
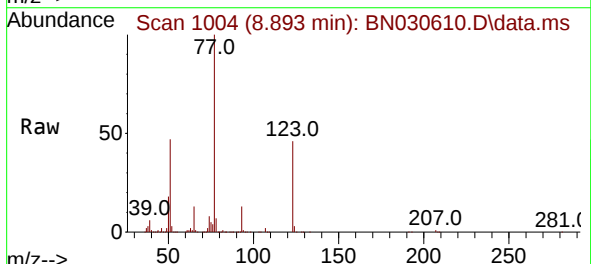


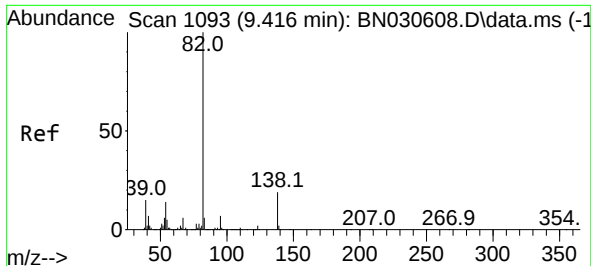
04/05/2024



#22  
Nitrobenzene  
Concen: 28.957 ng/ul  
RT: 8.893 min Scan# 1004  
Delta R.T. -0.000 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

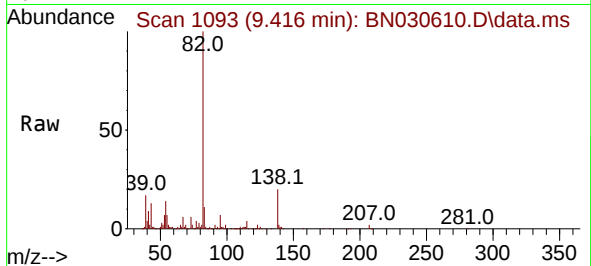
Tgt Ion: 77 Resp: 491892  
Ion Ratio Lower Upper  
77 100  
123 46.0 37.5 56.3  
65 13.4 10.6 15.8





#23  
Isophorone  
Concen: 8.423 ng/ul  
RT: 9.416 min Scan# 1093  
Delta R.T. -0.000 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

Instrument :  
BNA\_N  
ClientSampleId :  
C0AA2



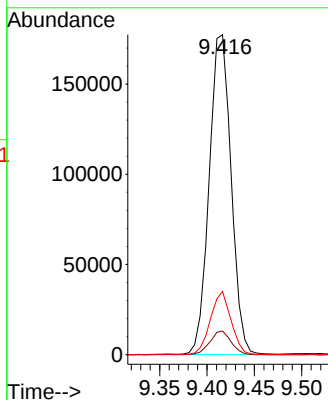
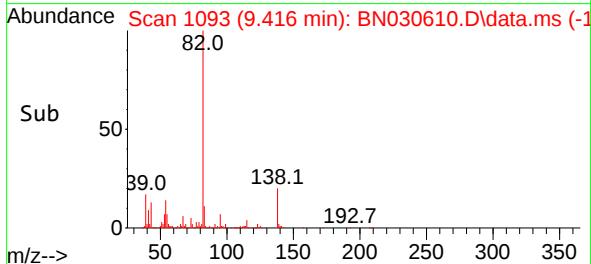
Tgt Ion: 82 Resp: 285329  
Ion Ratio Lower Upper  
82 100  
95 7.4 5.7 8.5  
138 19.8 14.6 21.8

Manual Integrations  
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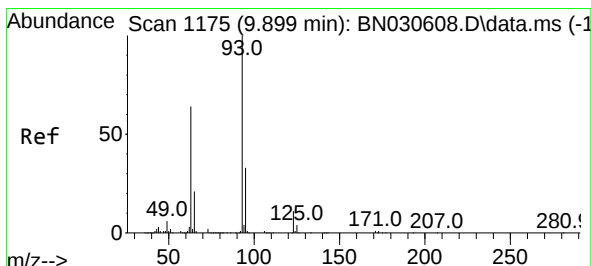
Reviewed By :Jagrut  
Upadhyay  
04/03/2024

Supervised By :mohammad  
ahmed  
04/06/2024

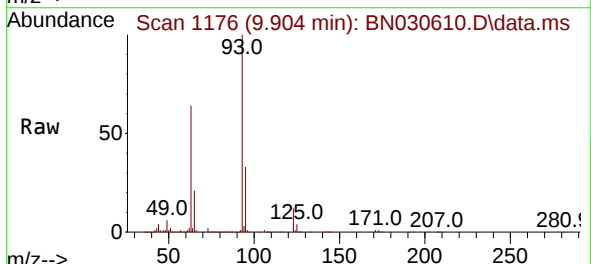
04/03/2024  
Supervised By :mohammad  
ahmed



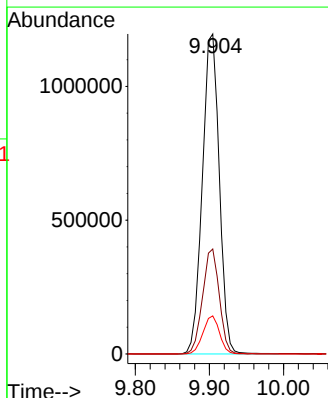
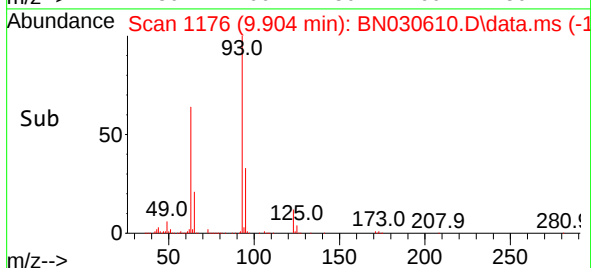
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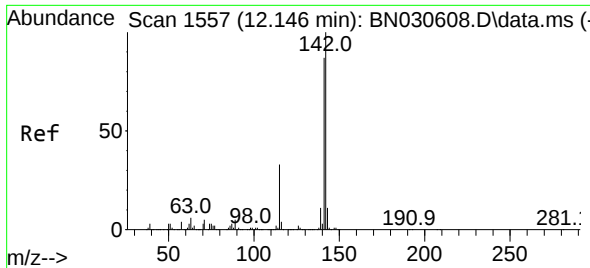


#27  
Bis(2-Chloroethoxy)methane  
Concen: 88.256 ng/ul  
RT: 9.904 min Scan# 1176  
Delta R.T. -0.000 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02



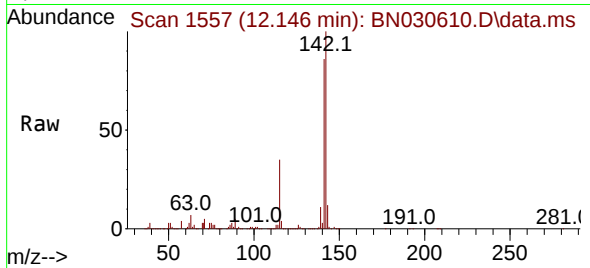
Tgt Ion: 93 Resp: 1900930  
Ion Ratio Lower Upper  
93 100  
95 32.8 25.4 38.0  
123 11.9 9.4 14.0





#36  
2-Methylnaphthalene  
Concen: 62.189 ng/ul  
RT: 12.146 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

Instrument :  
BNA\_N  
ClientSampleId :  
C0AA2



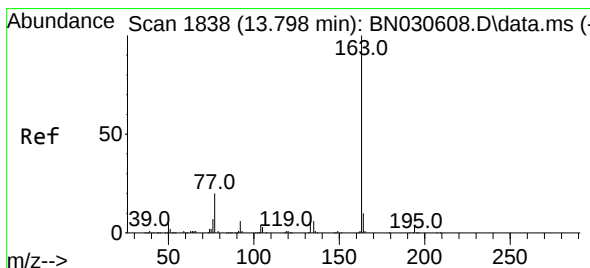
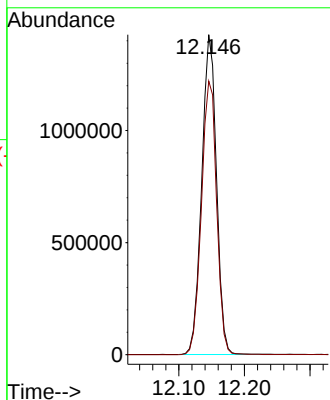
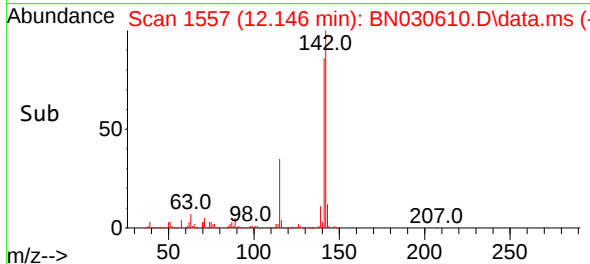
Tgt Ion:142 Resp: 2234394  
Ion Ratio Lower Upper  
142 100  
141 85.5 70.8 106.2

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Upadhyay  
04/03/2024

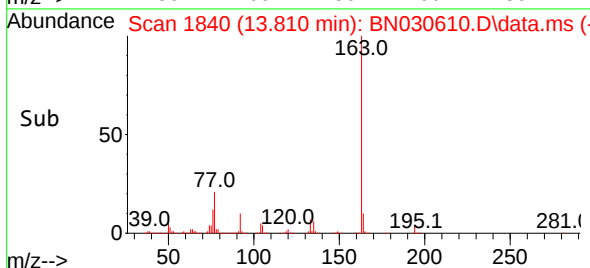
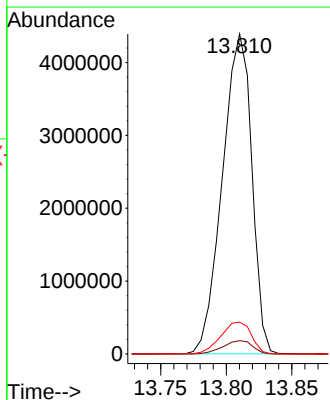
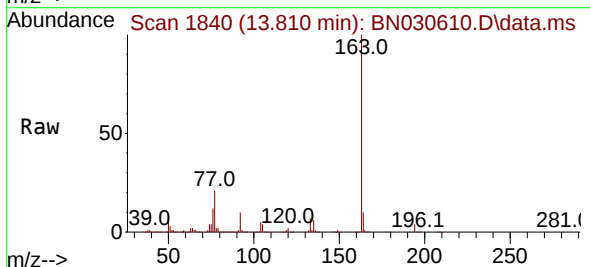
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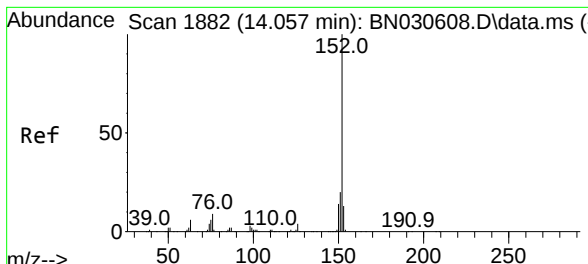
04/03/2024  
Supervised By :mohammad  
ahmed



#47  
Dimethylphthalate  
Concen: 151.007 ng/ul  
RT: 13.810 min Scan# 1840  
Delta R.T. 0.006 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

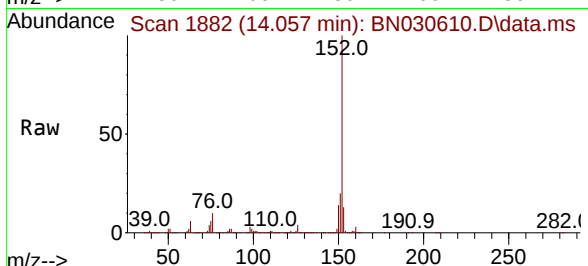
Tgt Ion:163 Resp: 6861565  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.3 4.9  
164 10.0 8.2 12.4





#50  
Acenaphthylene  
Concen: 21.521 ng/ul  
RT: 14.057 min Scan# 1882  
Delta R.T. -0.006 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

Instrument : BNA\_N  
ClientSampleId : C0AA2



Tgt Ion:152 Resp: 125759  
Ion Ratio Lower Upper  
152 100  
151 20.1 15.8 23.8  
153 13.2 10.7 16.1

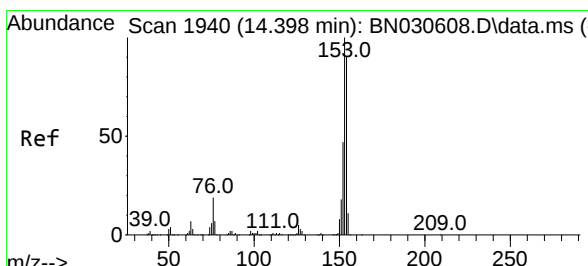
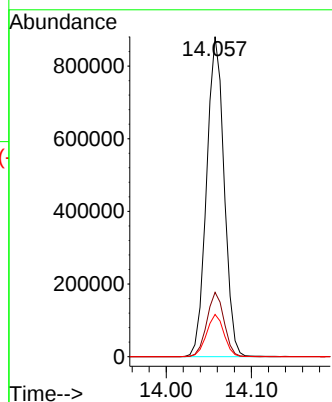
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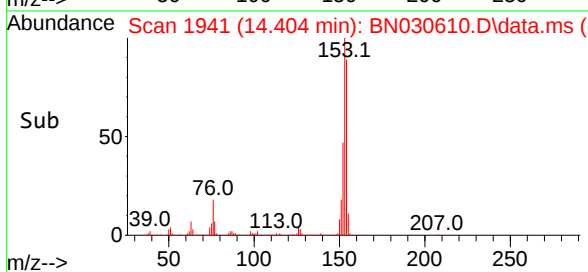
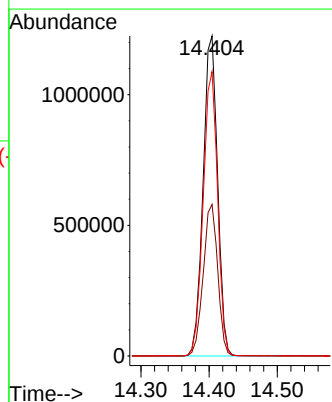
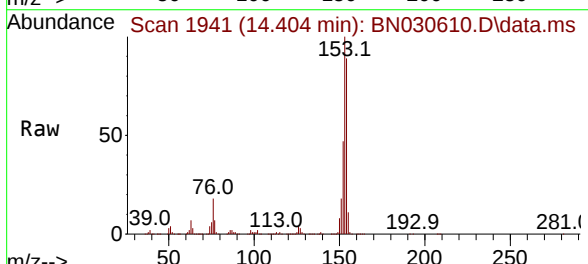
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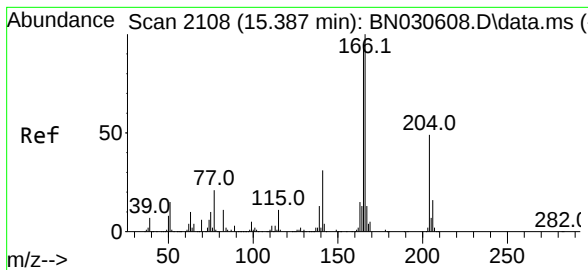
04/05/2024



#52  
Acenaphthene  
Concen: 46.428 ng/ul  
RT: 14.404 min Scan# 1941  
Delta R.T. -0.000 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

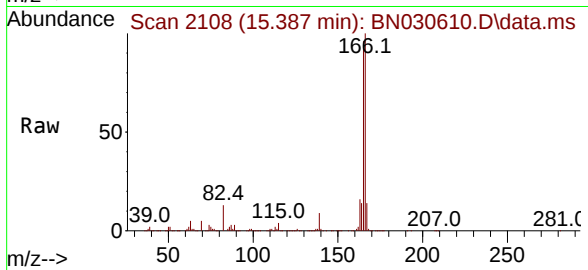
Tgt Ion:153 Resp: 1807984  
Ion Ratio Lower Upper  
153 100  
152 47.3 37.6 56.4  
154 88.8 70.3 105.5





#61  
 Fluorene  
 Concen: 49.889 ng/ul  
 RT: 15.387 min Scan# 2108  
 Delta R.T. -0.006 min  
 Lab File: BN030610.D  
 Acq: 02 Apr 2024 11:02

Instrument : BNA\_N  
 ClientSampleId : C0AA2



Tgt Ion:166 Resp: 214655  

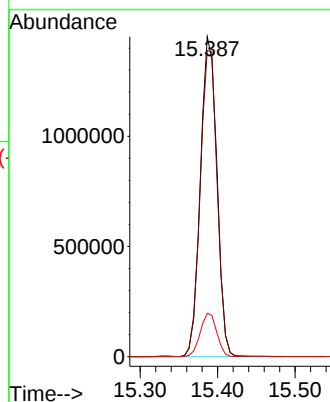
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 95.7  | 78.2  | 117.4 |
| 167 | 13.6  | 11.0  | 16.4  |

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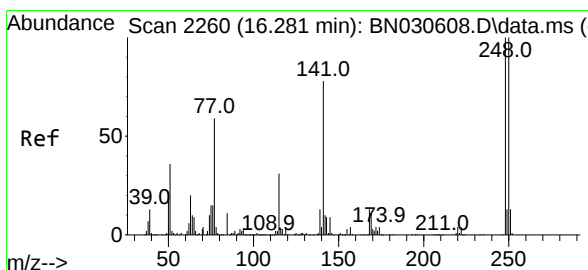
Reviewed By :Jagrut  
 Upadhyay  
 04/03/2024

Supervised By :mohammad  
 ahmed  
 04/06/2024

04/03/2024  
 Supervised By :mohammad  
 ahmed



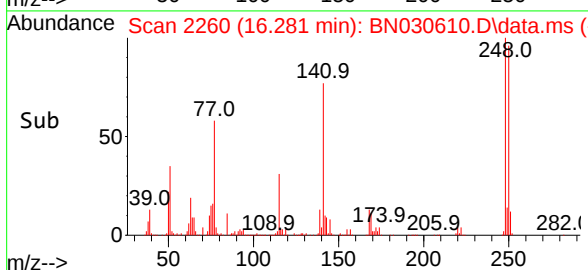
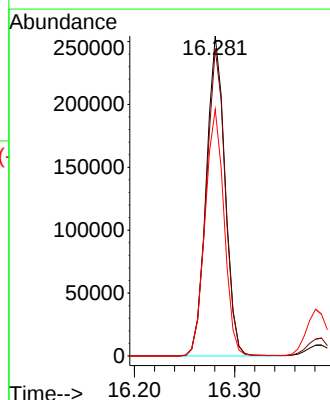
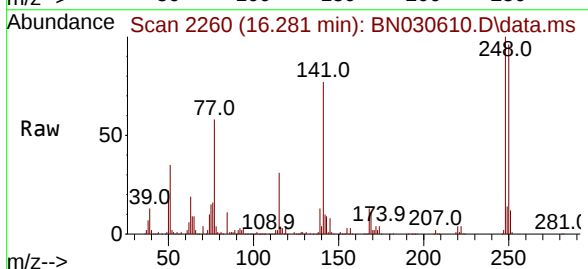
04/05/2024

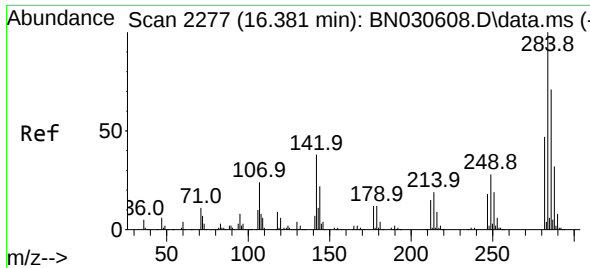


#68  
 4-Bromophenyl-phenylether  
 Concen: 25.145 ng/ul  
 RT: 16.281 min Scan# 2260  
 Delta R.T. -0.006 min  
 Lab File: BN030610.D  
 Acq: 02 Apr 2024 11:02

Tgt Ion:248 Resp: 331253  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 248 | 100   |       |       |
| 250 | 96.1  | 80.0  | 120.0 |
| 141 | 77.1  | 60.5  | 90.7  |





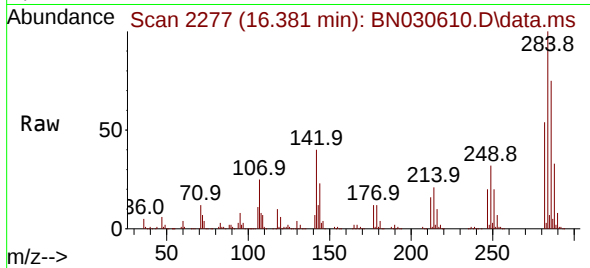
#69  
Hexachlorobenzene  
Concen: 48.083 ng/ul  
RT: 16.381 min Scan# 2277  
Delta R.T. -0.006 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

Instrument :

BNA\_N

ClientSampleId :

C0AA2



Tgt Ion:284 Resp: 74589  
Ion Ratio Lower Upper  
284 100  
142 39.7 28.6 43.0  
249 32.0 25.0 37.4

Manual Integrations

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04/03/2024

Supervised By :mohammad

ahmed

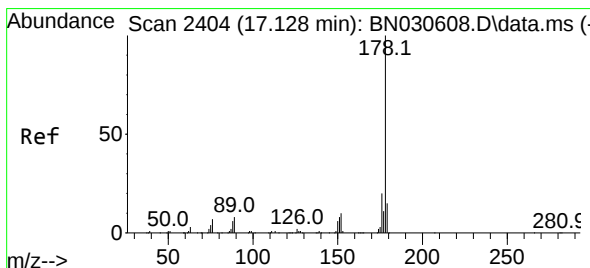
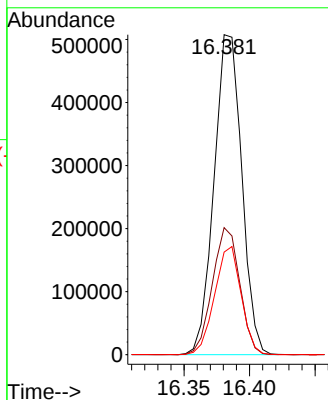
04/06/2024

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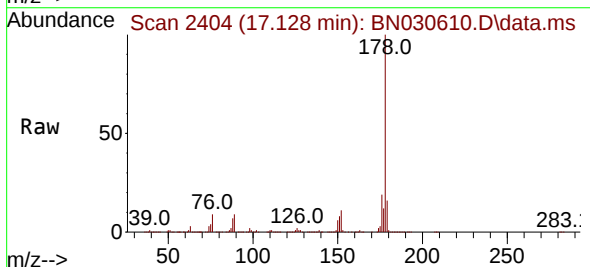
Supervised By :mohammad

ahmed

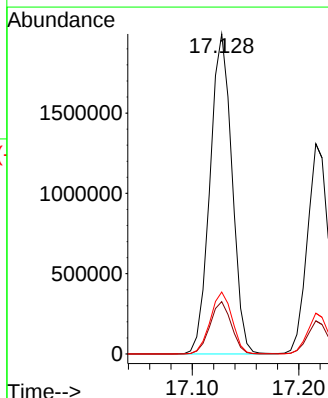
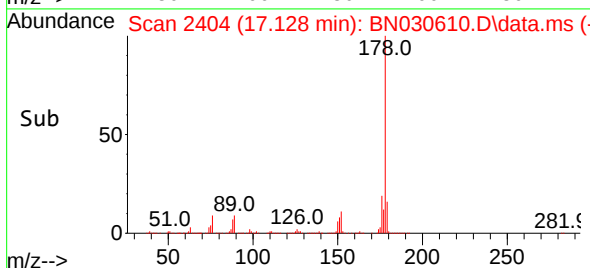
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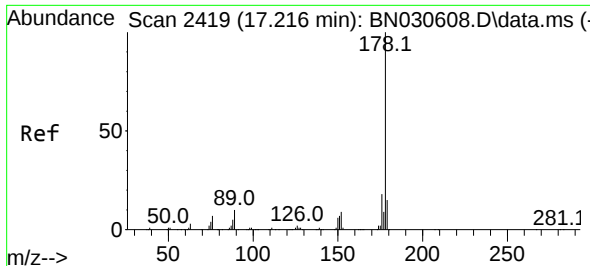


#72  
Phenanthrene  
Concen: 40.076 ng/ul  
RT: 17.128 min Scan# 2404  
Delta R.T. -0.006 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02



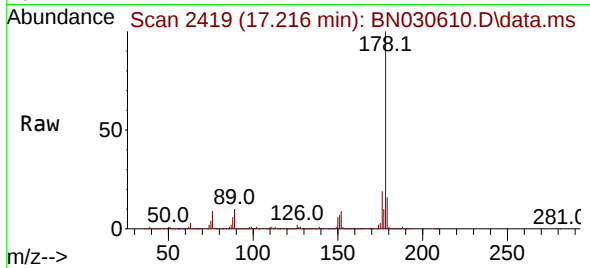
Tgt Ion:178 Resp: 2856524  
Ion Ratio Lower Upper  
178 100  
179 16.3 12.4 18.6  
176 19.4 15.0 22.6





#74  
 Anthracene  
 Concen: 25.038 ng/ul  
 RT: 17.216 min Scan# 2419  
 Delta R.T. -0.006 min  
 Lab File: BN030610.D  
 Acq: 02 Apr 2024 11:02

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AA2



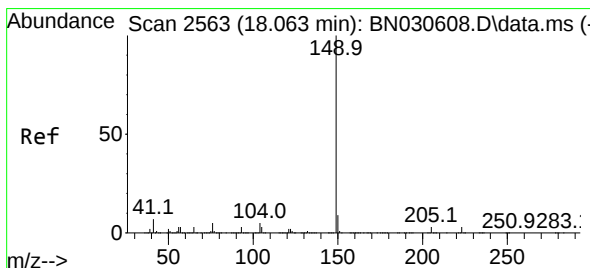
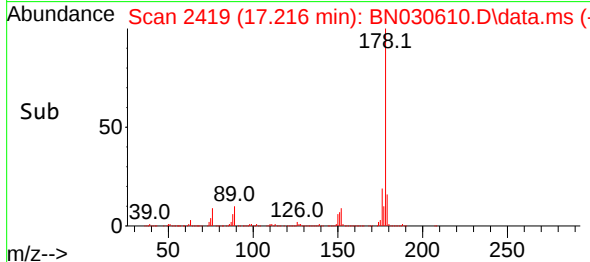
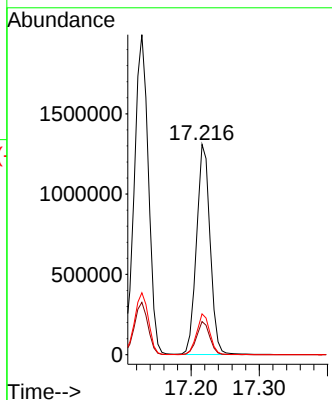
Tgt Ion:178 Resp: 1804133  
 Ion Ratio Lower Upper  
 178 100  
 179 15.7 12.0 18.0  
 176 19.4 15.0 22.4

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 Upadhyay  
 04/03/2024

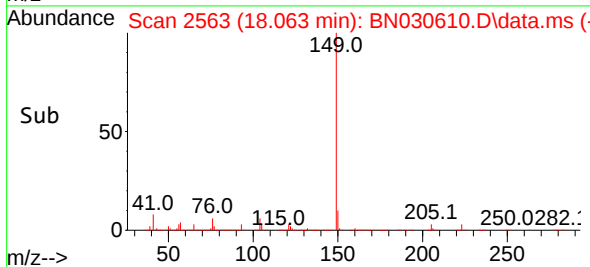
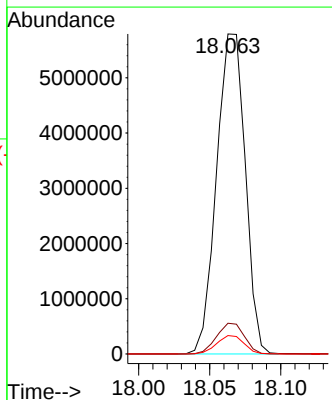
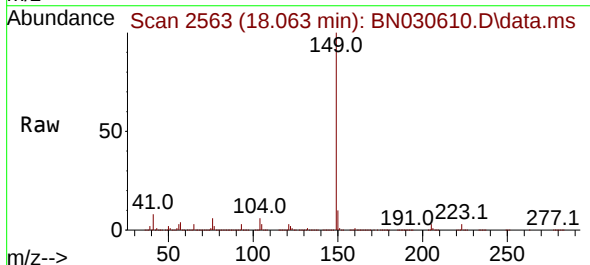
Supervised By :mohammad  
 ahmed  
 04/06/2024

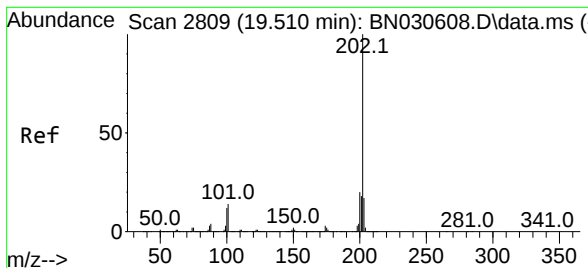
04/03/2024  
 Supervised By :mohammad  
 ahmed



#78  
 Di-n-butylphthalate  
 Concen: 105.563 ng/ul  
 RT: 18.063 min Scan# 2563  
 Delta R.T. -0.006 min  
 Lab File: BN030610.D  
 Acq: 02 Apr 2024 11:02

Tgt Ion:149 Resp: 8137677  
 Ion Ratio Lower Upper  
 149 100  
 150 9.6 7.2 10.8  
 104 5.7 4.1 6.1





#82

Pyrene

Concen: 26.989 ng/ul

RT: 19.510 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN030610.D

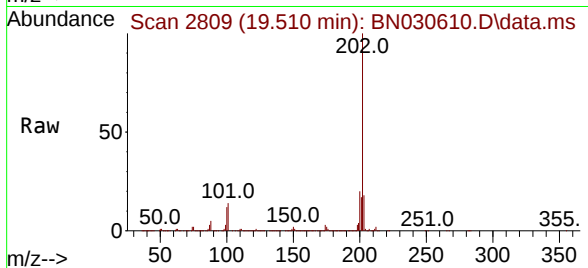
Acq: 02 Apr 2024 11:02

Instrument :

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ClientSampleId :

C0AA2



Tgt Ion:202 Resp: 229450

Ion Ratio Lower Upper

202 100

101 14.2 11.3 16.9

100 11.6 9.2 13.8

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Upadhyay

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Supervised By :mohammad

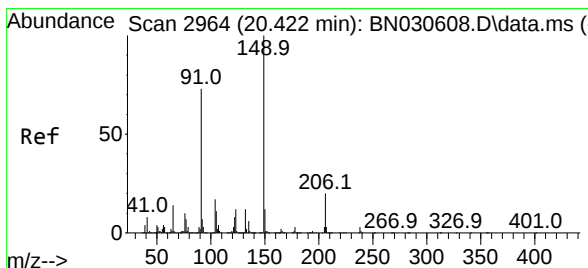
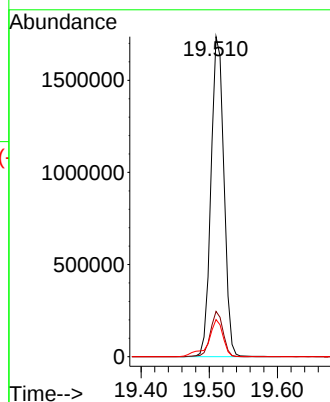
ahmed

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#83

Butylbenzylphthalate

Concen: 97.402 ng/ul

RT: 20.427 min Scan# 2965

Delta R.T. -0.006 min

Lab File: BN030610.D

Acq: 02 Apr 2024 11:02

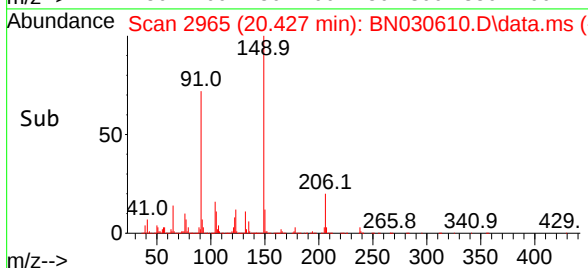
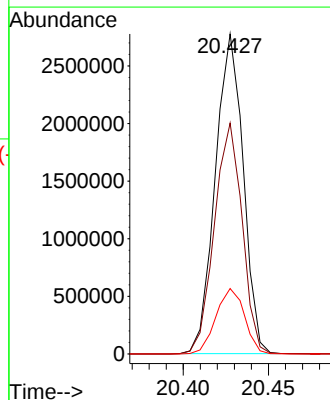
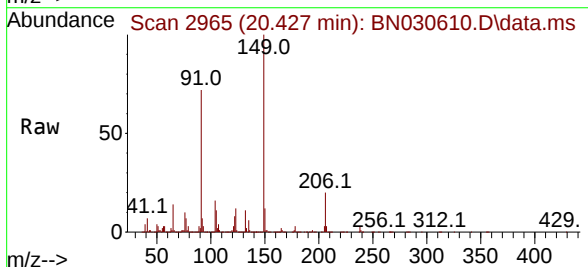
Tgt Ion:149 Resp: 3162314

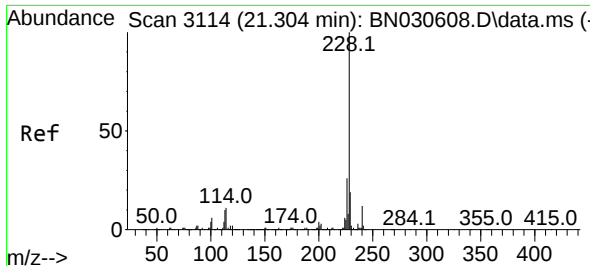
Ion Ratio Lower Upper

149 100

91 72.2 58.2 87.2

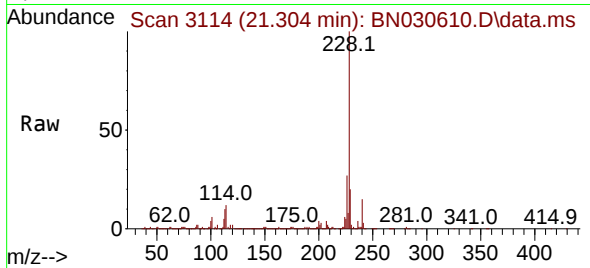
206 20.5 15.4 23.0





#85  
Benzo(a)anthracene  
Concen: 21.184 ng/ul  
RT: 21.304 min Scan# 3114  
Delta R.T. -0.006 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

Instrument :  
BNA\_N  
ClientSampleId :  
C0AA2



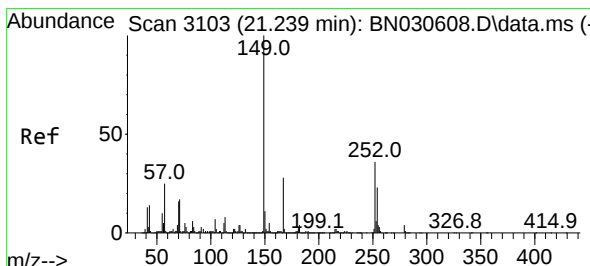
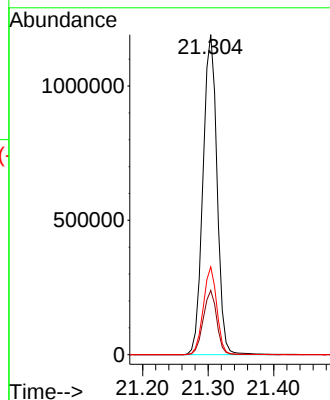
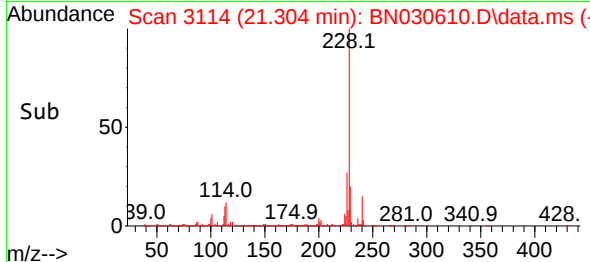
Tgt Ion:228 Resp: 1780689  
Ion Ratio Lower Upper  
228 100  
229 20.1 15.8 23.6  
226 27.5 20.5 30.7

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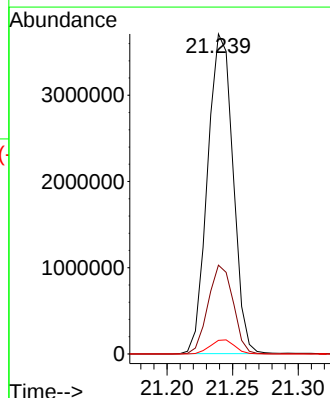
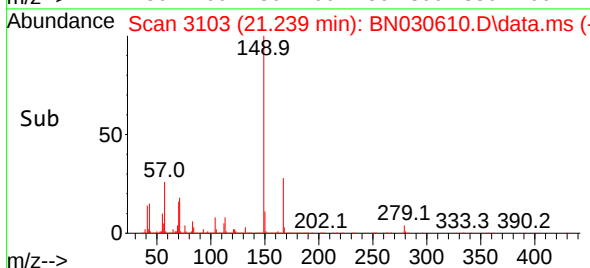
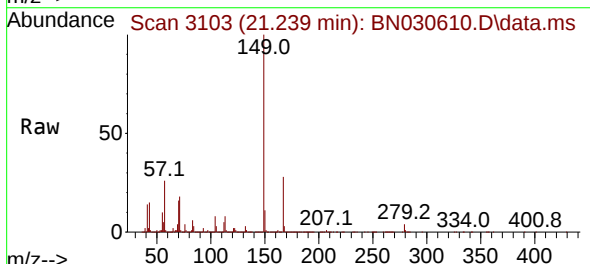
Supervised By :mohammad  
ahmed  
04/06/2024

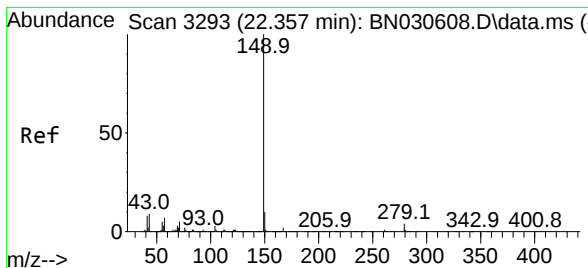
04/03/2024  
Supervised By :mohammad  
ahmed



#86  
Bis(2-ethylhexyl)phthalate  
Concen: 104.459 ng/ul  
RT: 21.239 min Scan# 3103  
Delta R.T. -0.012 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

Tgt Ion:149 Resp: 5001382  
Ion Ratio Lower Upper  
149 100  
167 27.7 21.4 32.0  
279 4.3 3.5 5.3





#89  
Di-n-octyl phthalate  
Concen: 148.890 ng/ul  
RT: 22.363 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

Instrument :  
BNA\_N  
ClientSampleId :  
C0AA2

Tgt Ion:149 Resp:1159692

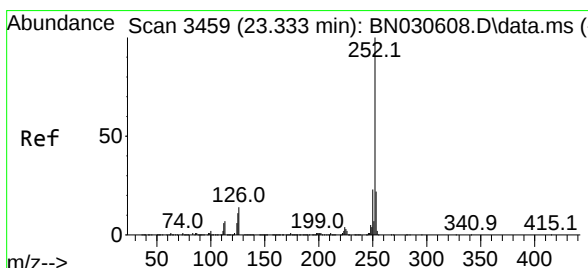
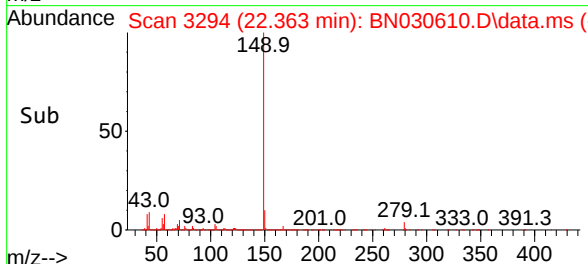
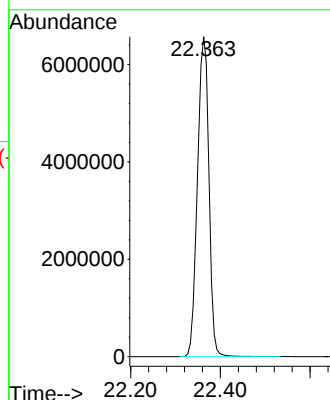
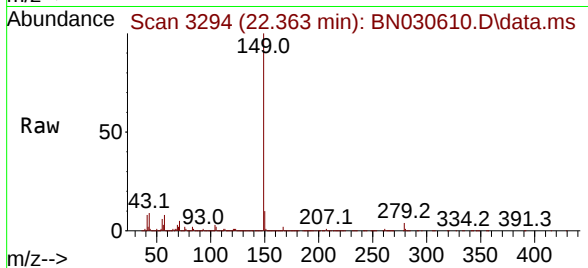
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04/03/2024

Supervised By :mohammad  
ahmed  
04/06/2024

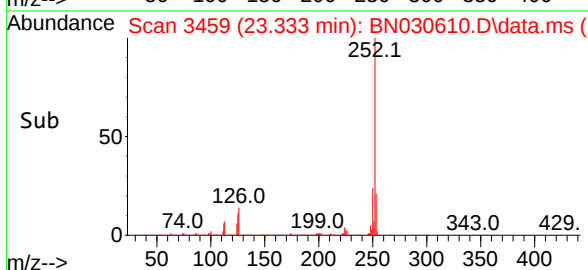
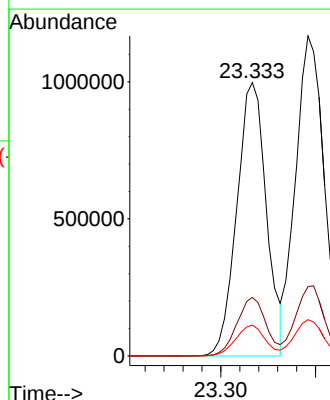
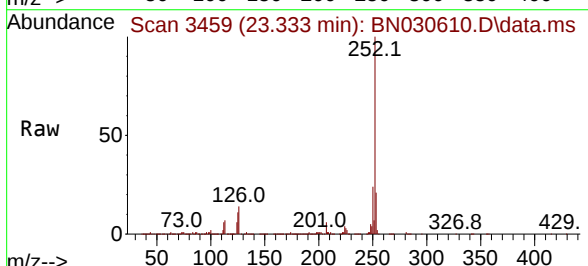
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Supervised By :mohammad  
ahmed

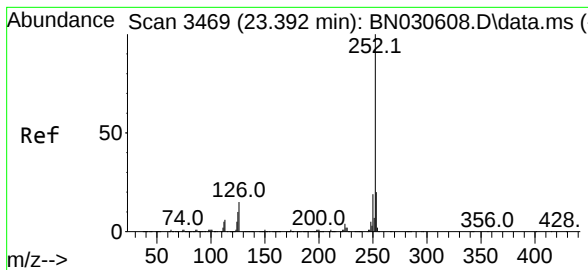
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#90  
Benzo(b)fluoranthene  
Concen: 29.888 ng/ul  
RT: 23.333 min Scan# 3459  
Delta R.T. -0.012 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

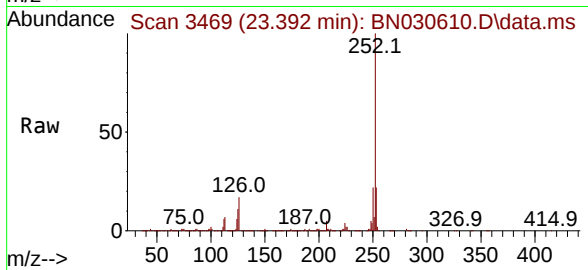
Tgt Ion:252 Resp: 2163408  
Ion Ratio Lower Upper  
252 100  
253 21.4 16.7 25.1  
125 11.3 8.5 12.7





#91  
Benzo(k)fluoranthene  
Concen: 33.400 ng/u1  
RT: 23.392 min Scan# 3469  
Delta R.T. -0.012 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02

Instrument :  
BNA\_N  
ClientSampleId :  
C0AA2



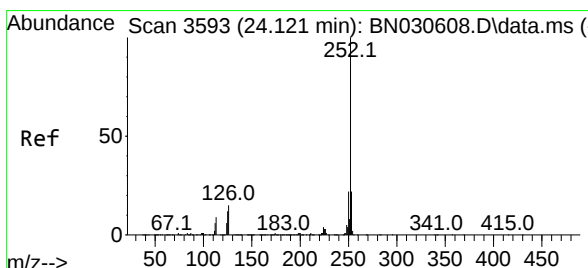
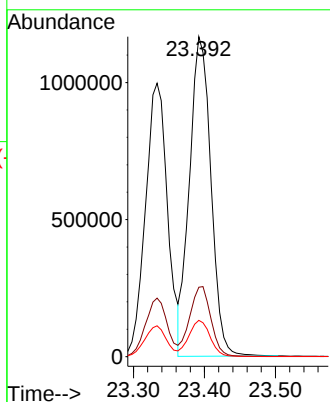
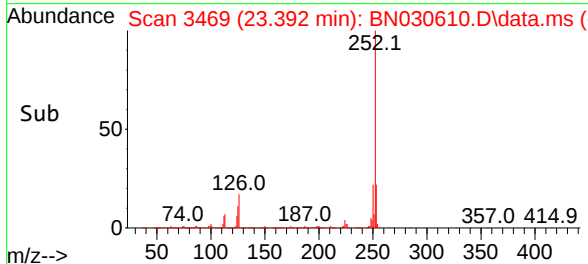
Tgt Ion:252 Resp: 245522  
Ion Ratio Lower Upper  
252 100  
253 21.7 16.9 25.3  
125 11.3 8.5 12.7

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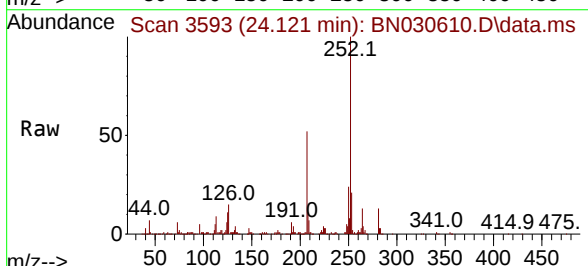
Reviewed By :Jagrut  
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04/03/2024

Supervised By :mohammad  
ahmed  
04/06/2024

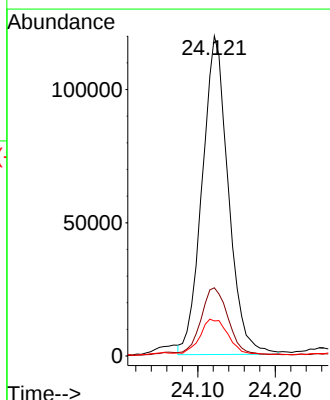
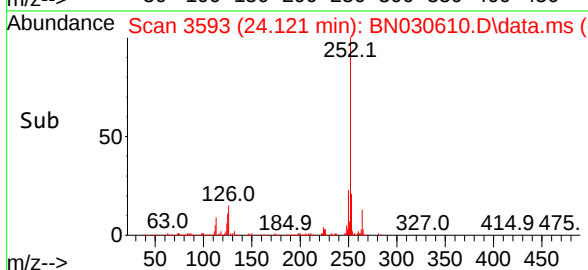
04/03/2024  
Supervised By :mohammad  
ahmed

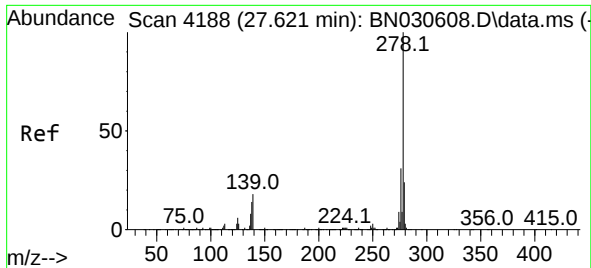


#93  
Benzo(a)pyrene  
Concen: 4.099 ng/u1  
RT: 24.121 min Scan# 3593  
Delta R.T. -0.018 min  
Lab File: BN030610.D  
Acq: 02 Apr 2024 11:02



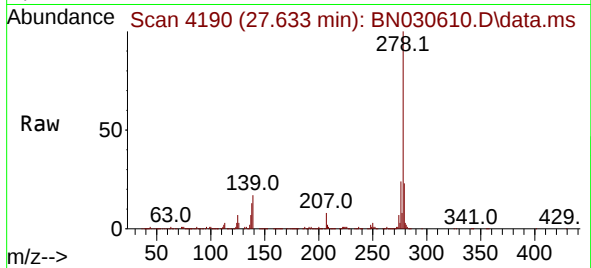
Tgt Ion:252 Resp: 280303  
Ion Ratio Lower Upper  
252 100  
253 21.3 16.7 25.1  
125 11.0 9.6 14.4





#95  
 Dibenzo(a,h)anthracene  
 Concen: 41.233 ng/ul  
 RT: 27.633 min Scan# 41  
 Delta R.T. -0.018 min  
 Lab File: BN030610.D  
 Acq: 02 Apr 2024 11:02

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AA2



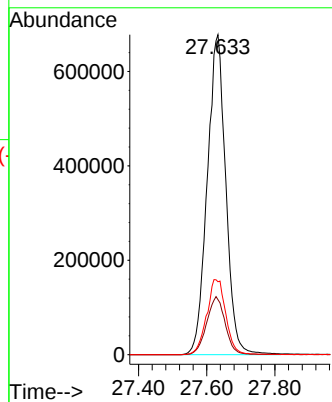
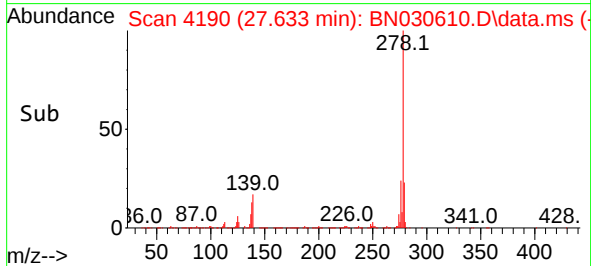
Tgt Ion:278 Resp: 2565715  
 Ion Ratio Lower Upper  
 278 100  
 139 17.2 13.2 19.8  
 279 22.8 17.4 26.2

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Reviewed By :Jagrut  
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 04/03/2024

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 ahmed  
 04/06/2024

04/03/2024  
 Supervised By :mohammad  
 ahmed



04/05/2024