

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071624\  
 Data File : BN032772.D  
 Acq On : 17 Jul 2024 10:35  
 Operator : MA/JU  
 Sample : P3177-03  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BS1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/18/2024  
 Supervised By :mohammad ahmed 07/19/2024

Quant Time: Jul 17 11:30:10 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 17 02:35:25 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.544  | 152  | 3417     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.315 | 136  | 11866    | 0.400 | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.197 | 164  | 6547     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.956 | 188  | 13876m   | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.173 | 240  | 11700m   | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.374 | 264  | 12886m   | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.101  | 96   | 21052    | 5.131 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.916 | 152  | 4736     | 0.264 | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 18.998 | 212  | 9890     | 0.259 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.365 | 128  | 3605     | 0.113 | ng/ul# | 93       |
| 7) 2-Methylnaphthalene      | 11.993 | 142  | 1510     | 0.076 | ng/ul  | 95       |
| 8) 1-Methylnaphthalene      | 12.218 | 142  | 943      | 0.046 | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.915 | 152  | 7695     | 0.291 | ng/ul  | 96       |
| 11) Acenaphthene            | 14.257 | 153  | 2549     | 0.117 | ng/ul  | 98       |
| 12) Fluorene                | 15.257 | 166  | 3254     | 0.130 | ng/ul# | 96       |
| 14) Pentachlorophenol       | 16.636 | 266  | 141m     | 0.058 | ng/ul  |          |
| 15) Phenanthrene            | 16.999 | 178  | 54521m   | 1.443 | ng/ul  |          |
| 16) Anthracene              | 17.087 | 178  | 13952m   | 0.452 | ng/ul  |          |
| 19) Fluoranthene            | 19.031 | 202  | 109042   | 2.292 | ng/ul  | 99       |
| 20) Pyrene                  | 19.393 | 202  | 107164   | 2.176 | ng/ul  | 100      |
| 21) Benzo(a)anthracene      | 21.156 | 228  | 58022    | 1.558 | ng/ul  | 94       |
| 22) Chrysene                | 21.208 | 228  | 62185m   | 1.154 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.716 | 252  | 82974m   | 1.825 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.754 | 252  | 29342m   | 0.530 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.274 | 252  | 59642    | 1.516 | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.585 | 276  | 42605    | 0.800 | ng/ul# | 91       |
| 28) Dibenzo(a,h)anthracene  | 25.585 | 278  | 10867    | 0.263 | ng/ul# | 33       |
| 29) Benzo(g,h,i)perylene    | 26.270 | 276  | 44452    | 0.998 | ng/ul  | 93       |
| -----                       |        |      |          |       |        |          |

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

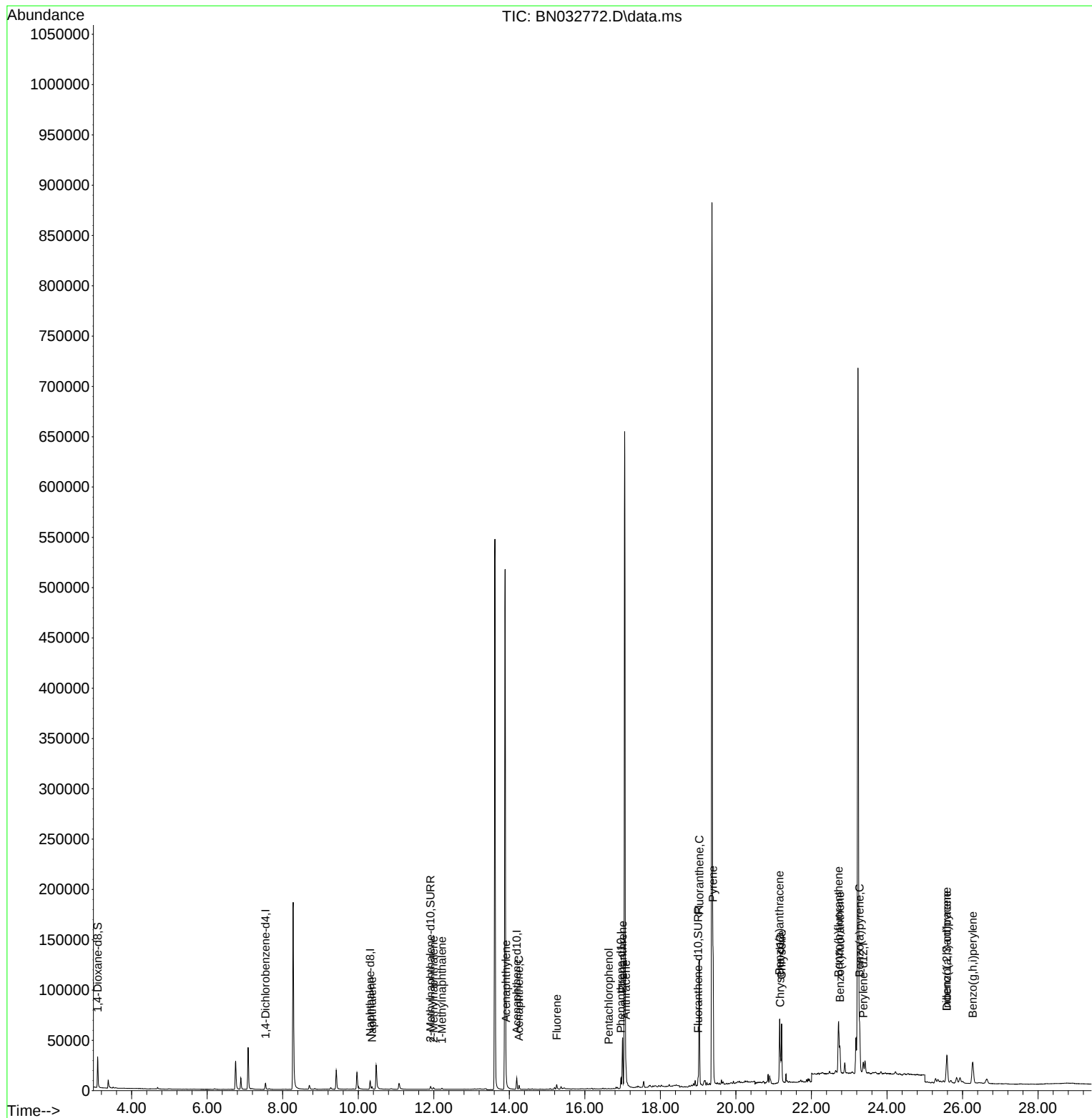
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071624\  
Data File : BN032772.D  
Acq On : 17 Jul 2024 10:35  
Operator : MA/JU  
Sample : P3177-03  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

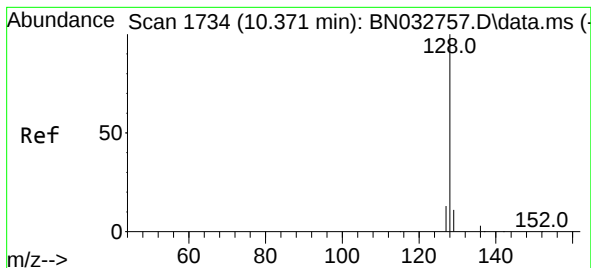
Instrument :  
BNA\_N  
ClientSampleId :  
A4BS1

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024

Quant Time: Jul 17 11:30:10 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 17 02:35:25 2024  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.113 ng/ul

RT: 10.365 min Scan# 1734

Delta R.T. -0.006 min

Lab File: BN032772.D

Acq: 17 Jul 2024 10:35

Instrument :

BNA\_N

ClientSampleId :

A4BS1

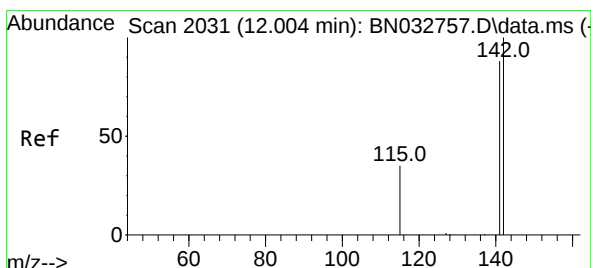
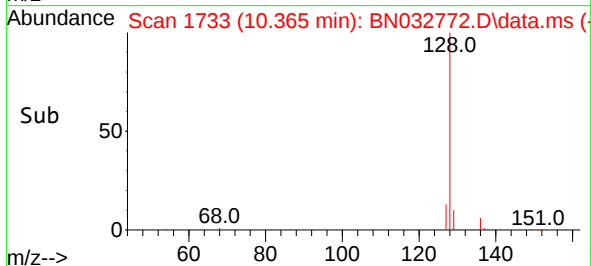
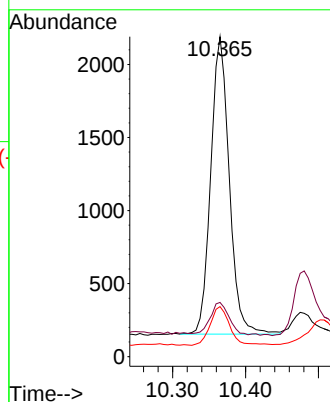
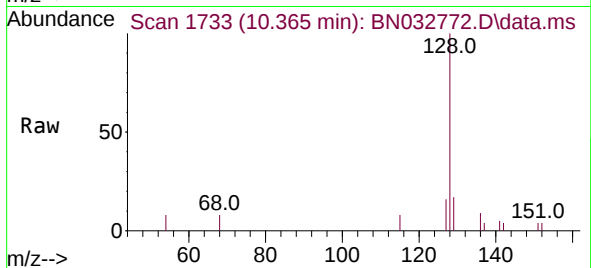
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 360  |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 16.9  | 10.0  | 15.0 |
| 127       | 15.7  | 11.6  | 17.4 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/18/2024

Supervised By :mohammad ahmed 07/19/2024



#7

2-Methylnaphthalene

Concen: 0.076 ng/ul

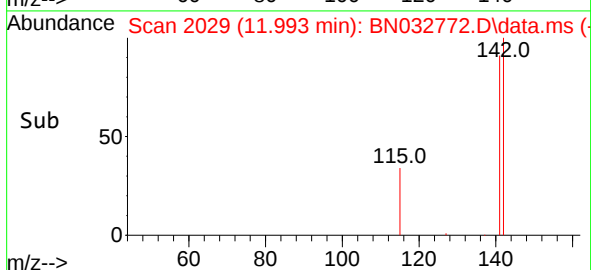
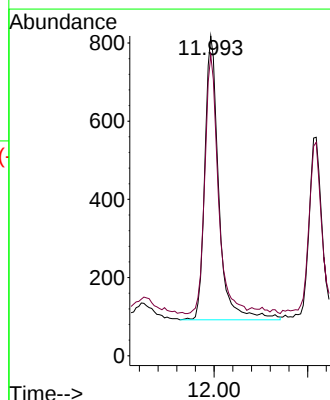
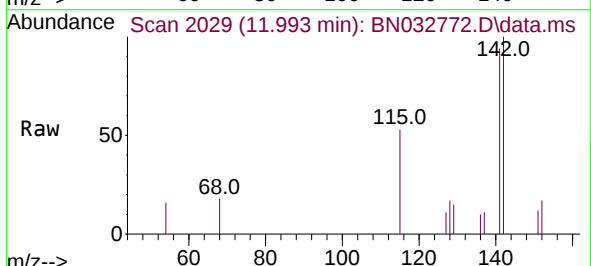
RT: 11.993 min Scan# 2029

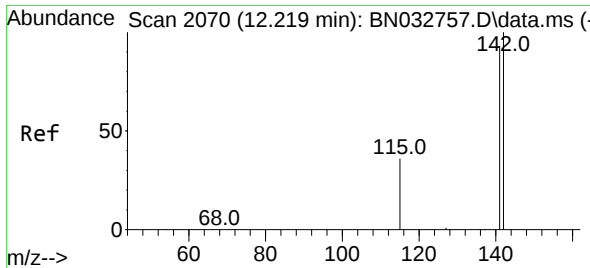
Delta R.T. -0.012 min

Lab File: BN032772.D

Acq: 17 Jul 2024 10:35

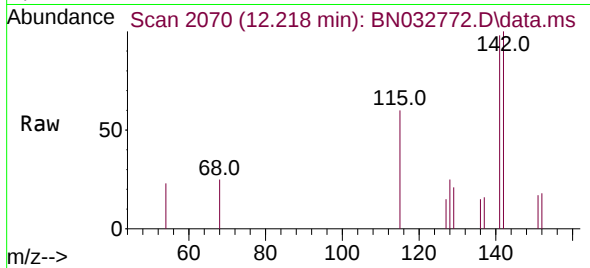
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 1510  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 87.7  | 74.0  | 111.0 |





#8  
1-Methylnaphthalene  
Concen: 0.046 ng/ul  
RT: 12.218 min Scan# 2070  
Delta R.T. -0.001 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

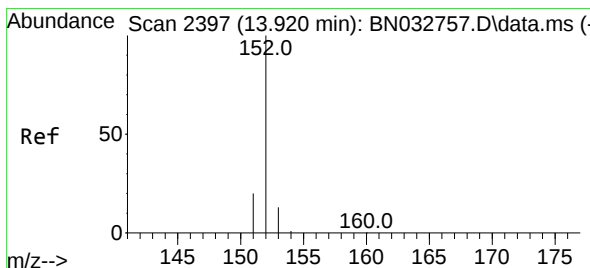
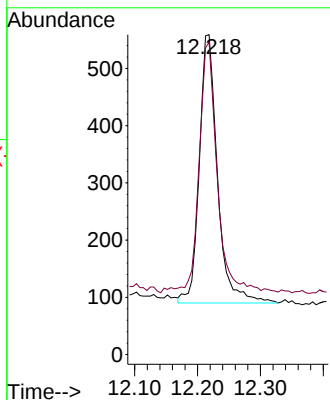
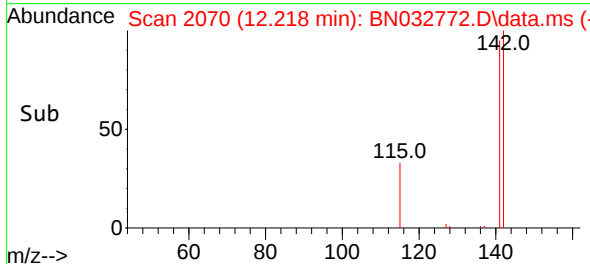
Instrument :  
BNA\_N  
ClientSampleId :  
A4BS1



Tgt Ion:142 Resp: 94.0  
Ion Ratio Lower Upper  
142 100  
141 93.2 75.0 112.4

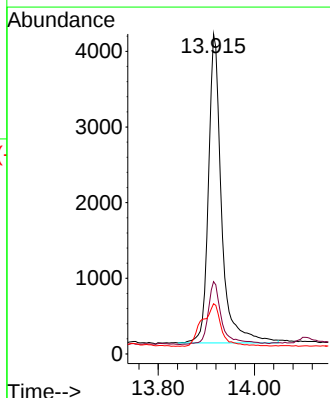
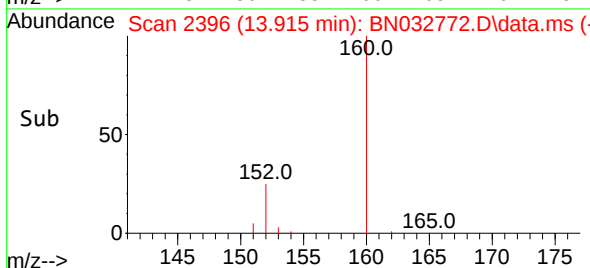
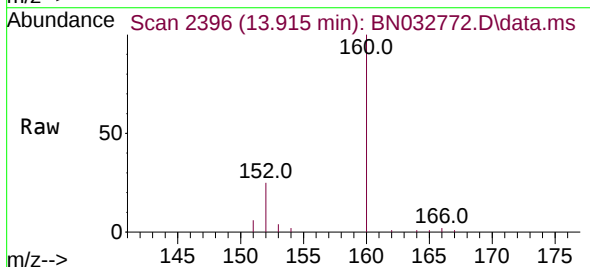
Manual Integrations  
APPROVED

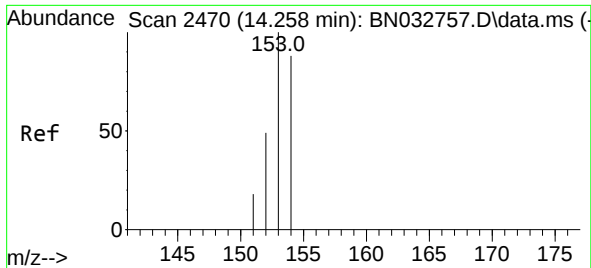
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024



#10  
Acenaphthylene  
Concen: 0.291 ng/ul  
RT: 13.915 min Scan# 2396  
Delta R.T. -0.005 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

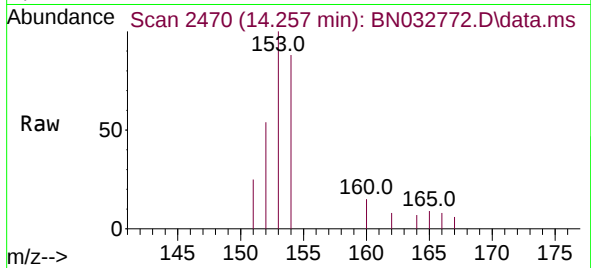
Tgt Ion:152 Resp: 7695  
Ion Ratio Lower Upper  
152 100  
151 22.6 16.3 24.5  
153 15.7 11.3 16.9





#11  
Acenaphthene  
Concen: 0.117 ng/ul  
RT: 14.257 min Scan# 2470  
Delta R.T. -0.001 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

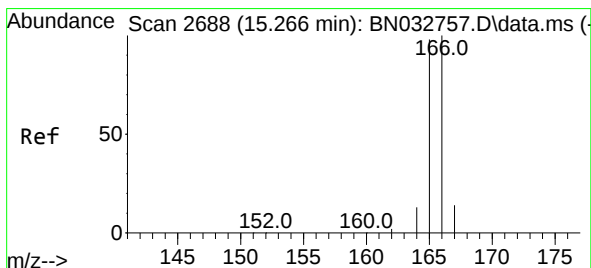
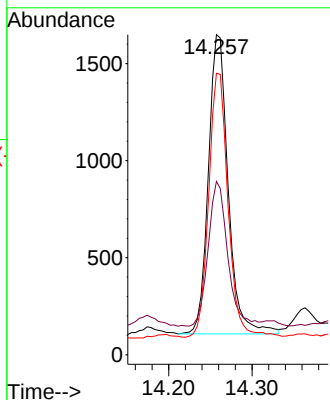
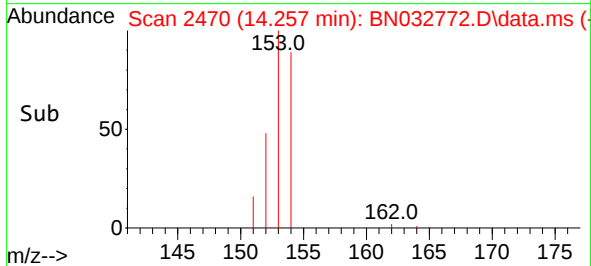
Instrument :  
BNA\_N  
ClientSampleId :  
A4BS1



Tgt Ion:153 Resp: 2549  
Ion Ratio Lower Upper  
153 100  
152 54.2 40.0 60.0  
154 87.9 70.2 105.4

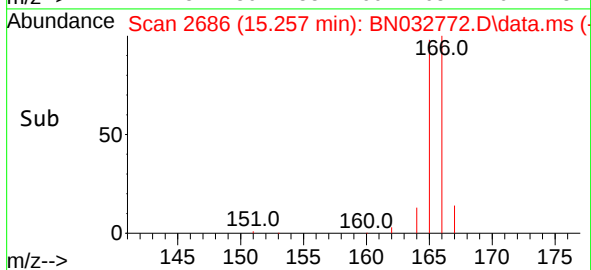
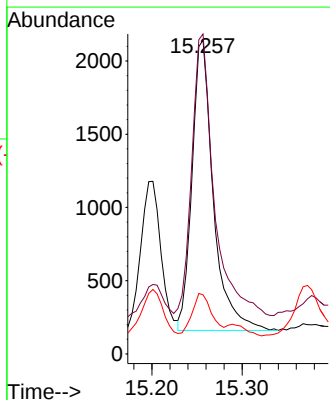
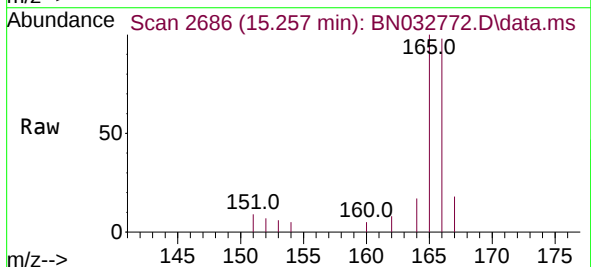
Manual Integrations  
APPROVED

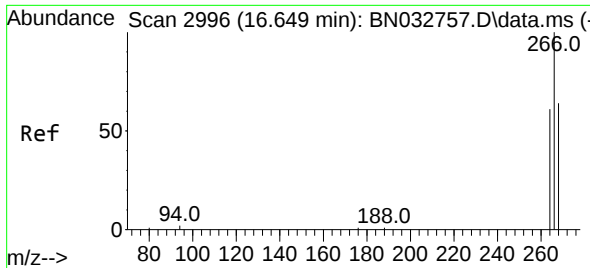
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024



#12  
Fluorene  
Concen: 0.130 ng/ul  
RT: 15.257 min Scan# 2686  
Delta R.T. -0.010 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

Tgt Ion:166 Resp: 3254  
Ion Ratio Lower Upper  
166 100  
165 102.0 79.7 119.5  
167 18.9 11.4 17.2#





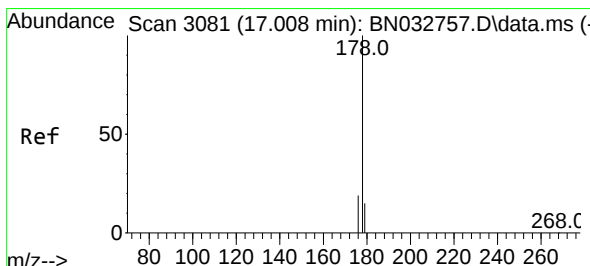
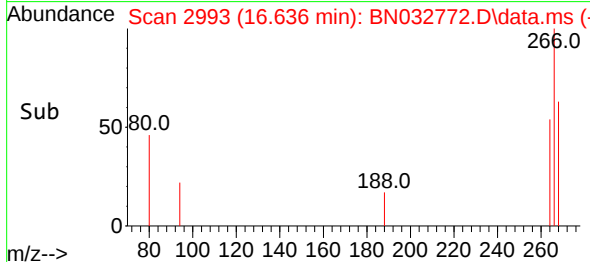
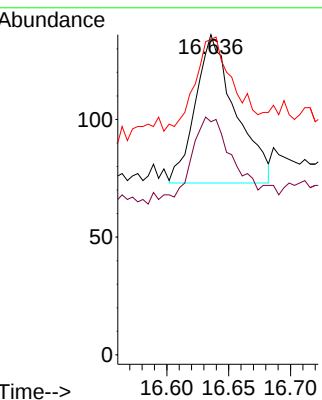
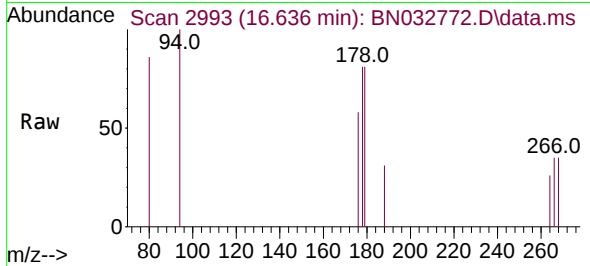
#14  
Pentachlorophenol  
Concen: 0.058 ng/ul m  
RT: 16.636 min Scan# 2993  
Delta R.T. -0.013 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

Instrument :  
BNA\_N  
ClientSampleId :  
A4BS1

Tgt Ion:266 Resp: 14  
Ion Ratio Lower Upper  
266 100  
264 5.0 49.4 74.2  
268 2.8 51.6 77.4

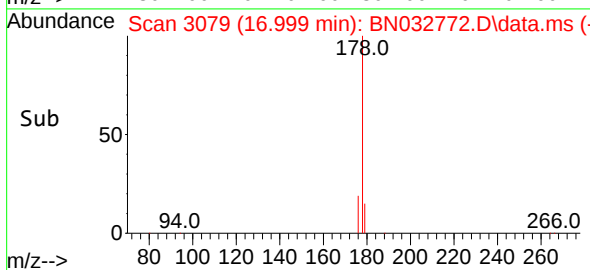
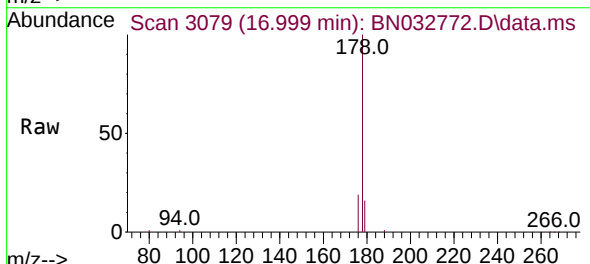
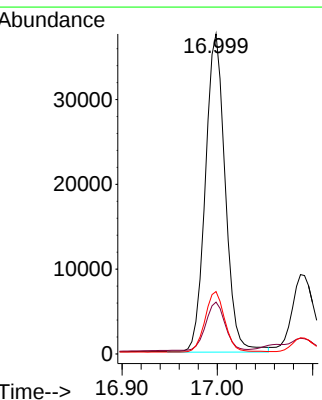
Manual Integrations  
APPROVED

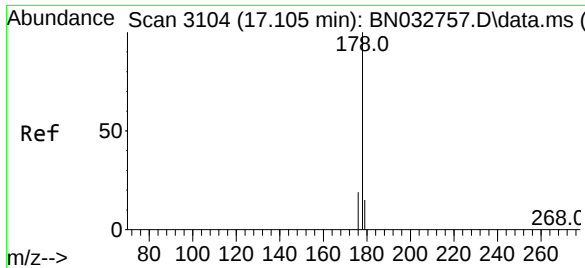
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024



#15  
Phenanthrene  
Concen: 1.443 ng/ul m  
RT: 16.999 min Scan# 3079  
Delta R.T. -0.009 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

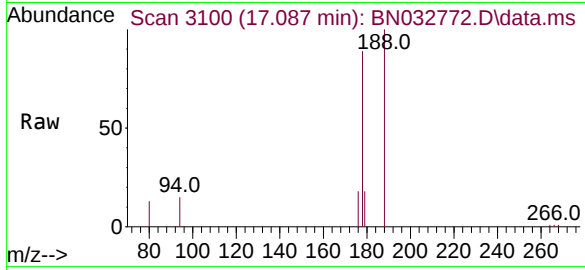
Tgt Ion:178 Resp: 54521  
Ion Ratio Lower Upper  
178 100  
179 16.2 13.0 19.4  
176 19.5 15.6 23.4





#16  
 Anthracene  
 Concen: 0.452 ng/ul m  
 RT: 17.087 min Scan# 3100  
 Delta R.T. -0.017 min  
 Lab File: BN032772.D  
 Acq: 17 Jul 2024 10:35

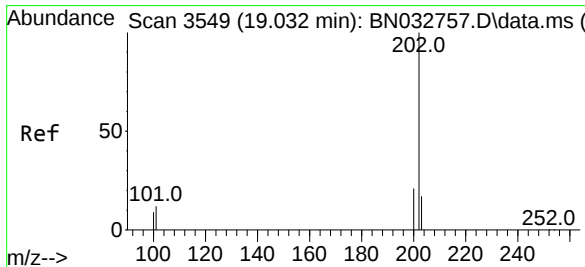
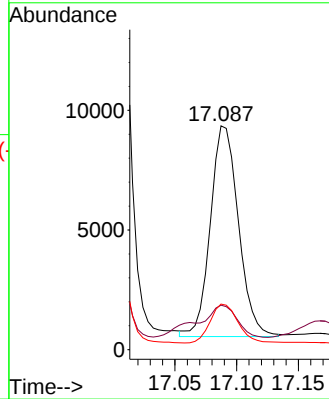
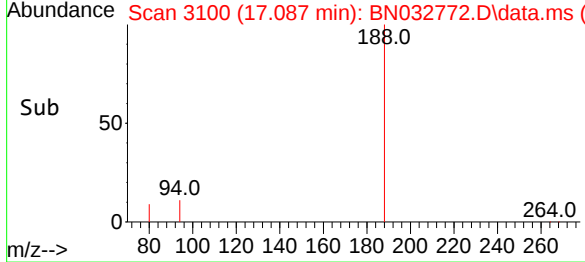
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BS1



Tgt Ion:178 Resp: 13952  
 Ion Ratio Lower Upper  
 178 100  
 179 19.9 13.4 20.2  
 176 20.4 15.4 23.0

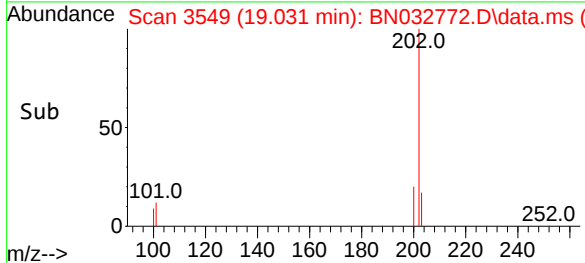
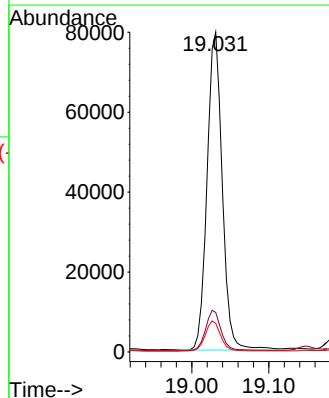
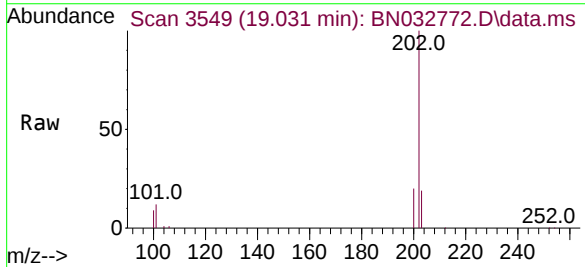
Manual Integrations  
 APPROVED

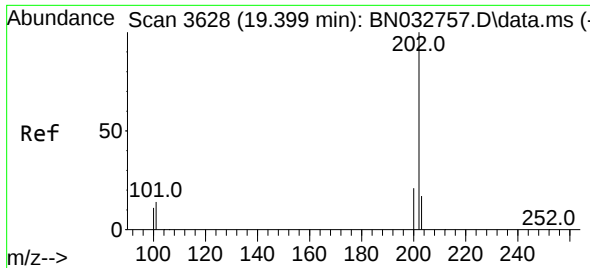
Reviewed By :Yogesh Patel 07/18/2024  
 Supervised By :mohammad ahmed 07/19/2024



#19  
 Fluoranthene  
 Concen: 2.292 ng/ul  
 RT: 19.031 min Scan# 3549  
 Delta R.T. -0.001 min  
 Lab File: BN032772.D  
 Acq: 17 Jul 2024 10:35

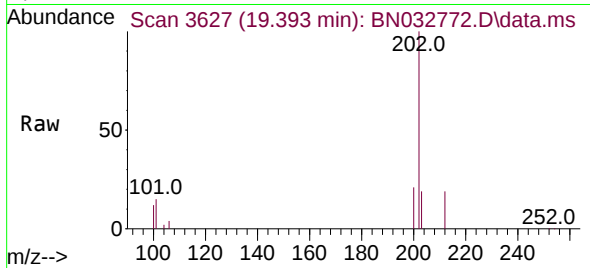
Tgt Ion:202 Resp: 109042  
 Ion Ratio Lower Upper  
 202 100  
 101 12.4 9.8 14.8  
 100 9.0 7.9 11.9





#20  
Pyrene  
Concen: 2.176 ng/ul  
RT: 19.393 min Scan# 30  
Delta R.T. -0.005 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

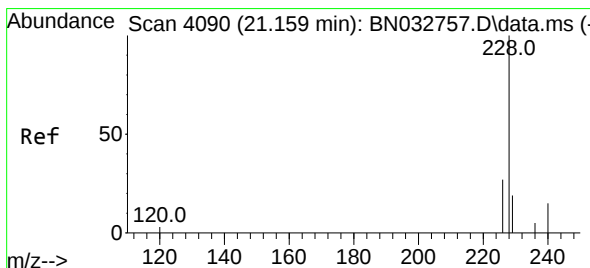
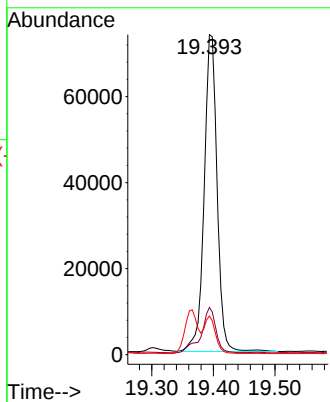
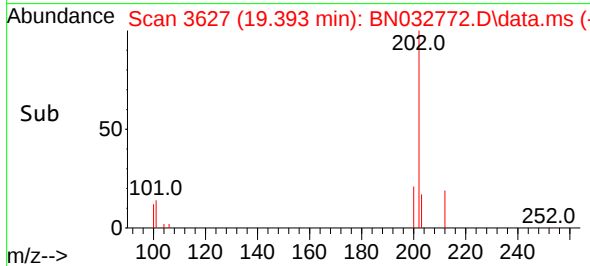
Instrument :  
BNA\_N  
ClientSampleId :  
A4BS1



Tgt Ion:202 Resp: 107164  
Ion Ratio Lower Upper  
202 100  
101 14.8 11.8 17.6  
100 12.1 9.6 14.4

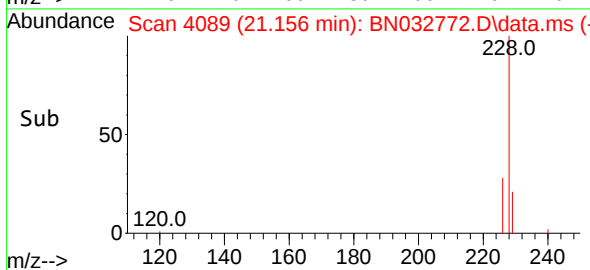
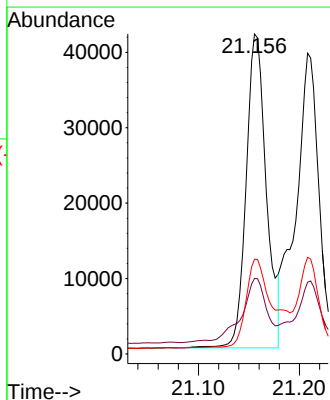
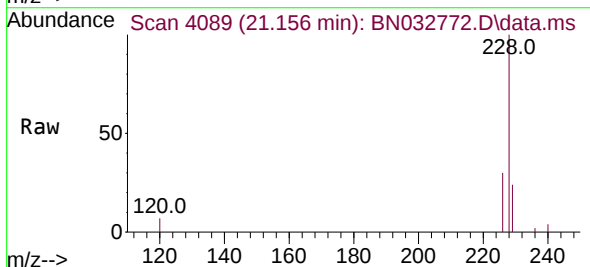
Manual Integrations  
APPROVED

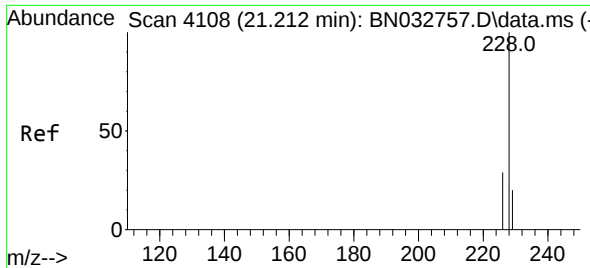
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024



#21  
Benzo(a)anthracene  
Concen: 1.558 ng/ul  
RT: 21.156 min Scan# 4089  
Delta R.T. -0.003 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

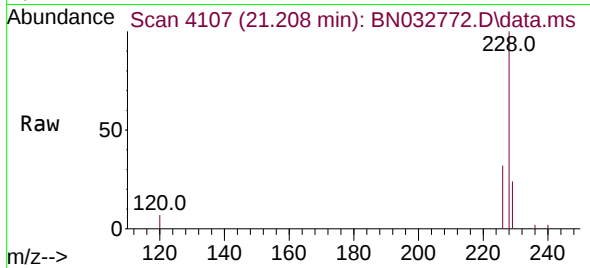
Tgt Ion:228 Resp: 58022  
Ion Ratio Lower Upper  
228 100  
229 23.6 16.1 24.1  
226 29.6 21.9 32.9





#22  
Chrysene  
Concen: 1.154 ng/ul m  
RT: 21.208 min Scan# 4107  
Delta R.T. -0.003 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

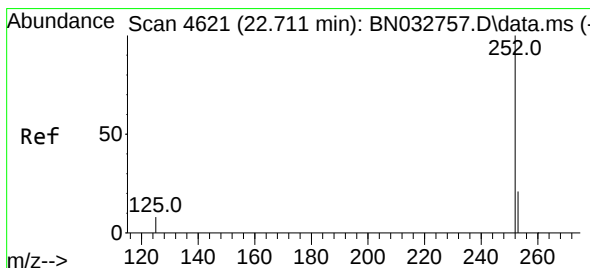
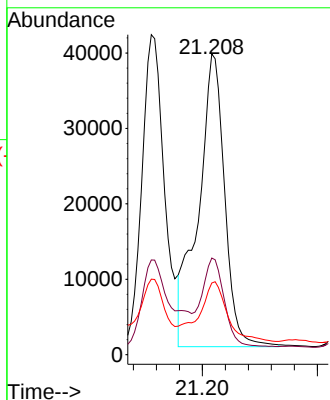
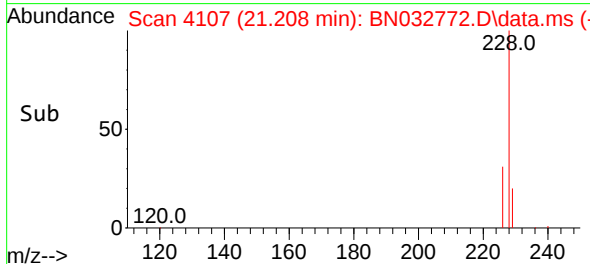
Instrument :  
BNA\_N  
ClientSampleId :  
A4BS1



Tgt Ion:228 Resp: 62185  
Ion Ratio Lower Upper  
228 100  
226 32.1 24.0 36.0  
229 23.8 15.8 23.6

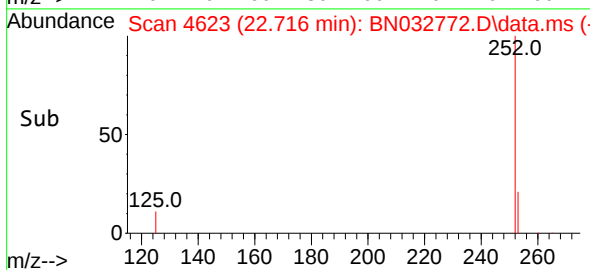
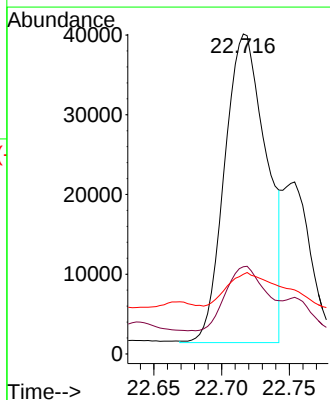
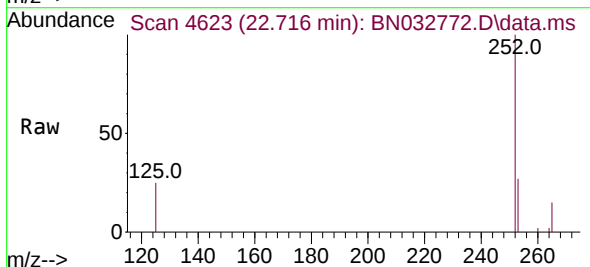
Manual Integrations  
APPROVED

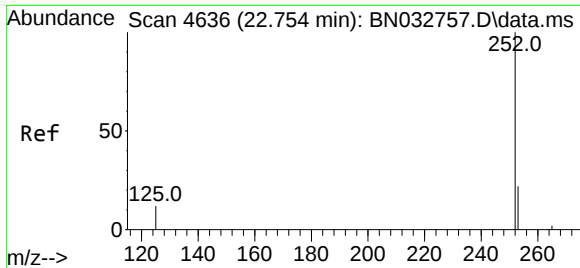
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024



#24  
Benzo(b)fluoranthene  
Concen: 1.825 ng/ul m  
RT: 22.716 min Scan# 4623  
Delta R.T. 0.005 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

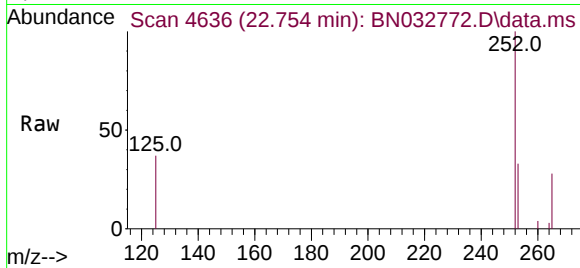
Tgt Ion:252 Resp: 82974  
Ion Ratio Lower Upper  
252 100  
253 27.2 0.0 54.0  
125 24.9 0.0 36.0





#25  
Benzo(k)fluoranthene  
Concen: 0.530 ng/ul m  
RT: 22.754 min Scan# 4636  
Delta R.T. -0.001 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

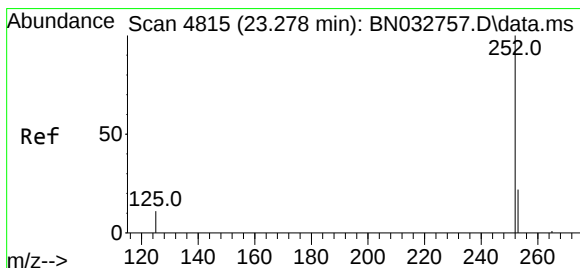
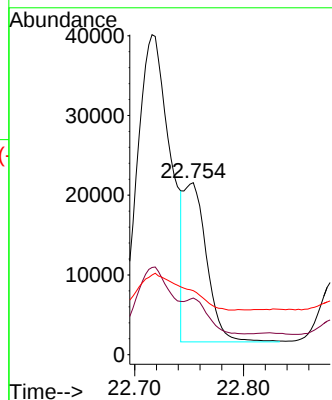
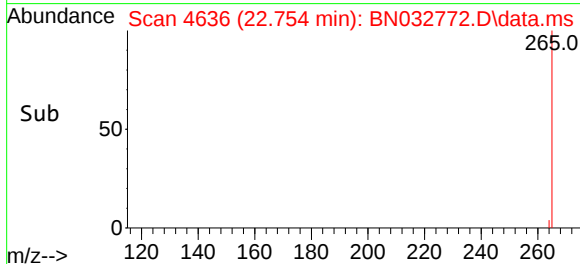
Instrument :  
BNA\_N  
ClientSampleId :  
A4BS1



Tgt Ion:252 Resp: 29342  
Ion Ratio Lower Upper  
252 100  
253 32.9 21.2 31.8  
125 37.2 14.8 22.2

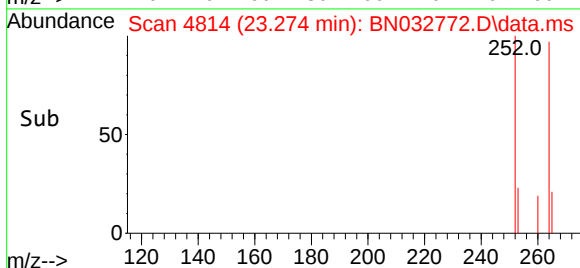
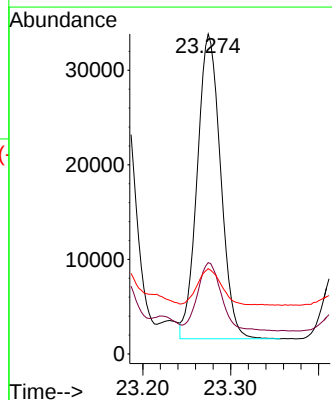
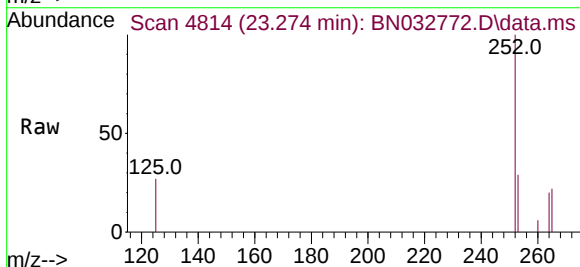
Manual Integrations  
APPROVED

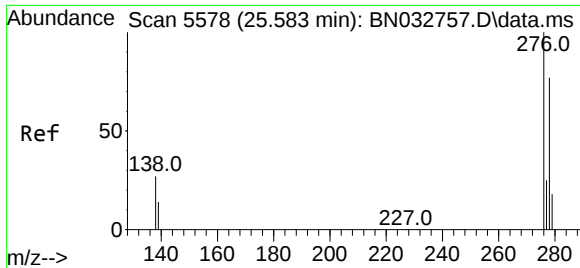
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024



#26  
Benzo(a)pyrene  
Concen: 1.516 ng/ul  
RT: 23.274 min Scan# 4814  
Delta R.T. -0.003 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

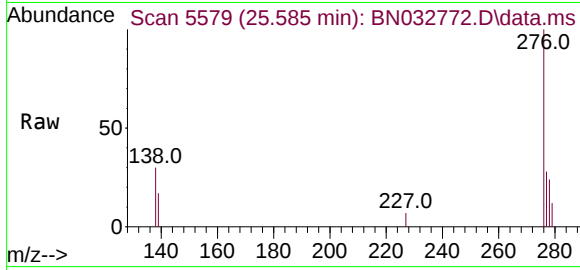
Tgt Ion:252 Resp: 59642  
Ion Ratio Lower Upper  
252 100  
253 28.5 25.4 38.0  
125 26.6 20.6 30.8





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.800 ng/ul  
RT: 25.585 min Scan# 5578  
Delta R.T. 0.003 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

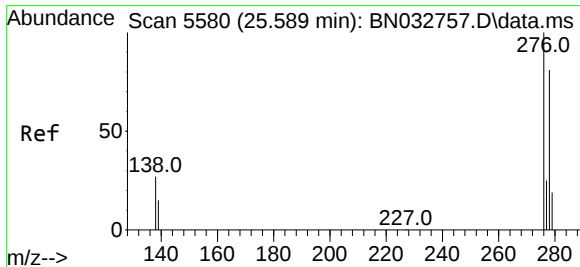
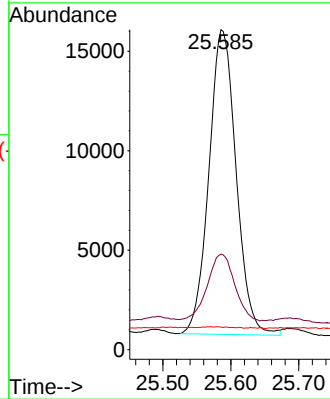
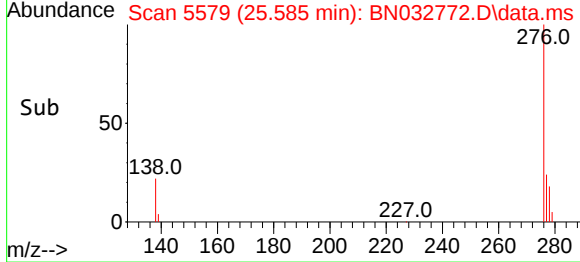
Instrument :  
BNA\_N  
ClientSampleId :  
A4BS1



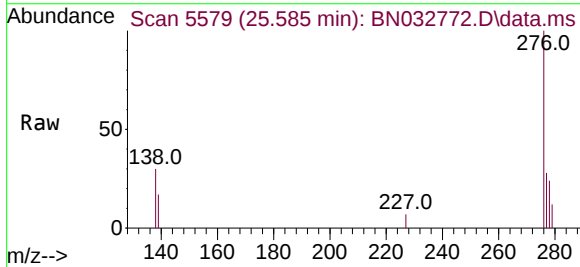
Tgt Ion:276 Resp: 42609  
Ion Ratio Lower Upper  
276 100  
138 22.5 21.6 32.4  
227 0.0 0.0 0.0

Manual Integrations  
APPROVED

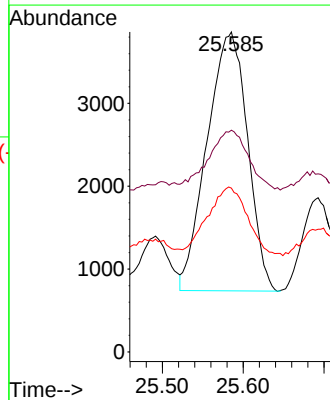
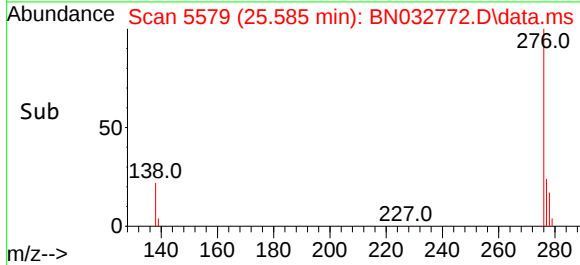
Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024

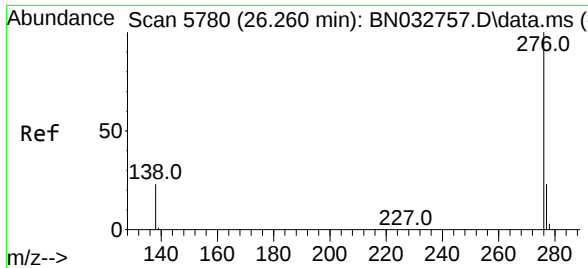


#28  
Dibenzo(a,h)anthracene  
Concen: 0.263 ng/ul  
RT: 25.585 min Scan# 5579  
Delta R.T. -0.004 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35



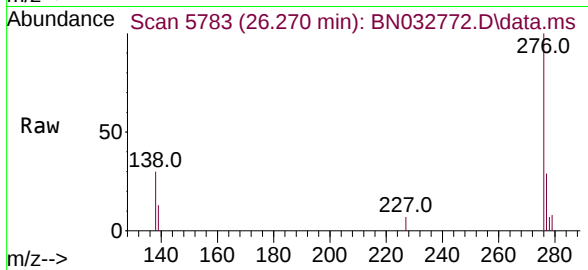
Tgt Ion:278 Resp: 10867  
Ion Ratio Lower Upper  
278 100  
139 69.3 16.6 24.8#  
279 51.2 23.7 35.5#





#29  
Benzo(g,h,i)perylene  
Concen: 0.998 ng/ul  
RT: 26.270 min Scan# 51  
Delta R.T. 0.010 min  
Lab File: BN032772.D  
Acq: 17 Jul 2024 10:35

Instrument :  
BNA\_N  
ClientSampleId :  
A4BS1



Tgt Ion:276 Resp: 44452  
Ion Ratio Lower Upper  
276 100  
138 30.2 21.0 31.4  
277 28.6 20.6 31.0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024

