

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121824\  
 Data File : BN035700.D  
 Acq On : 19 Dec 2024 11:30  
 Operator : RC/JU  
 Sample : P5258-05MS  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 E28X0MS

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 19 12:16:59 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN121624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 16 16:26:08 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.276  | 152  | 3542     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.020 | 136  | 9181     | 0.400 | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 13.935 | 164  | 6701     | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.705 | 188  | 13941    | 0.400 | ng/ul  | -0.01    |
| 17) Chrysene-d12            | 20.953 | 240  | 12340    | 0.400 | ng/ul  | -0.01    |
| 23) Perylene-d12            | 23.033 | 264  | 13008    | 0.400 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 2.955  | 96   | 1755     | 0.559 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.620 | 152  | 5201     | 0.398 | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 18.758 | 212  | 12053    | 0.334 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 2) 1,4-Dioxane              | 2.985  | 88   | 4784     | 1.509 | ng/ul# | 73       |
| 5) Naphthalene              | 10.070 | 128  | 12700m   | 0.564 | ng/ul  |          |
| 7) 2-Methylnaphthalene      | 11.697 | 142  | 8283     | 0.546 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 11.923 | 142  | 8396     | 0.534 | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.648 | 152  | 12603    | 0.485 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.000 | 153  | 12102    | 0.617 | ng/ul  | 99       |
| 12) Fluorene                | 15.004 | 166  | 14675    | 0.643 | ng/ul  | 100      |
| 14) Pentachlorophenol       | 16.371 | 266  | 1809     | 0.506 | ng/ul  | 99       |
| 15) Phenanthrene            | 16.747 | 178  | 137818   | 3.950 | ng/ul  | 98       |
| 16) Anthracene              | 16.840 | 178  | 35429    | 1.086 | ng/ul  | 98       |
| 19) Fluoranthene            | 18.791 | 202  | 219355   | 4.970 | ng/ul  | 99       |
| 20) Pyrene                  | 19.158 | 202  | 186192   | 3.830 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 20.935 | 228  | 100316   | 2.451 | ng/ul  | 99       |
| 22) Chrysene                | 20.988 | 228  | 96871    | 2.281 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.425 | 252  | 121887m  | 3.180 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.463 | 252  | 51928m   | 1.225 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 22.943 | 252  | 87952    | 2.369 | ng/ul# | 81       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.057 | 276  | 70473m   | 1.559 | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 25.071 | 278  | 27772    | 0.805 | ng/ul# | 90       |
| 29) Benzo(g,h,i)perylene    | 25.668 | 276  | 69603    | 1.919 | ng/ul# | 92       |

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

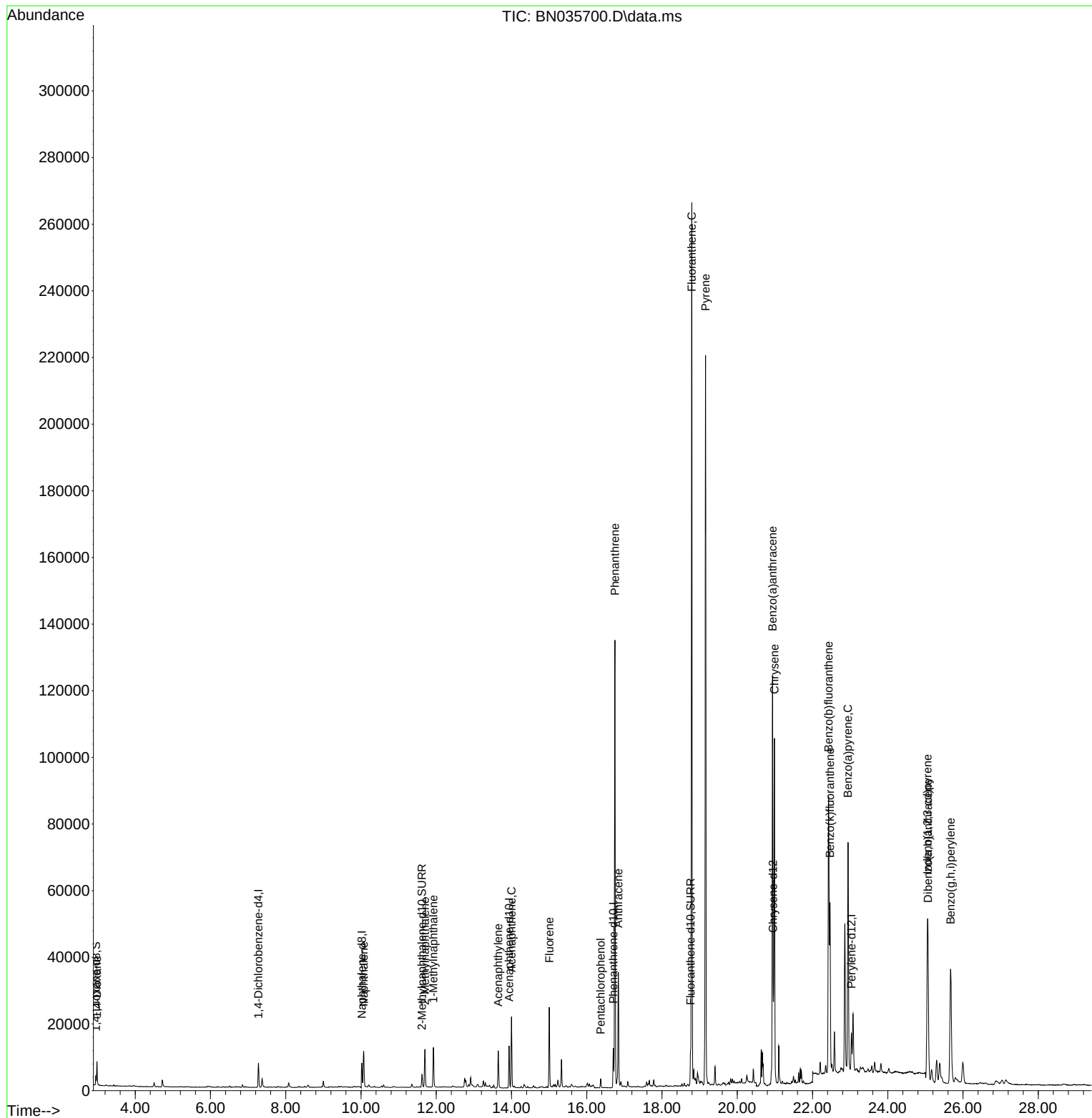
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121824\  
Data File : BN035700.D  
Acq On : 19 Dec 2024 11:30  
Operator : RC/JU  
Sample : P5258-05MS  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

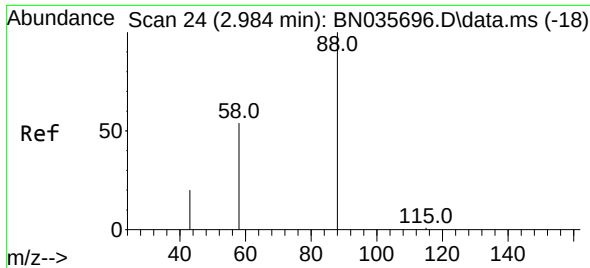
Instrument :  
BNA\_N  
ClientSampleId :  
E28X0MS

Quant Time: Dec 19 12:16:59 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN121624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 16 16:26:08 2024  
Response via : Initial Calibration

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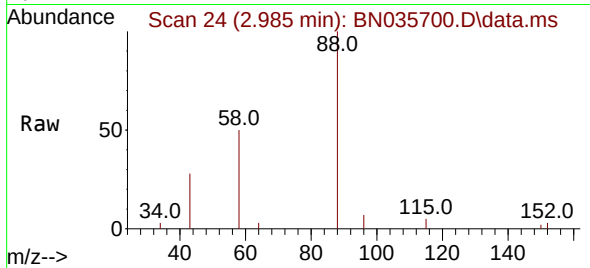
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024





#2  
1,4-Dioxane  
Concen: 1.509 ng/ul  
RT: 2.985 min Scan# 24  
Delta R.T. -0.004 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

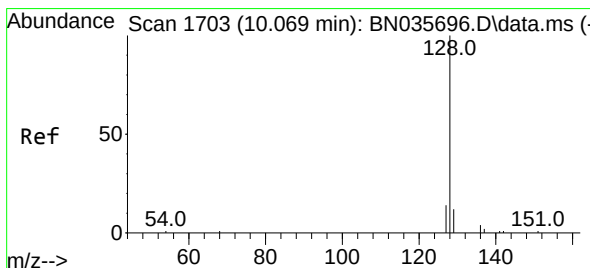
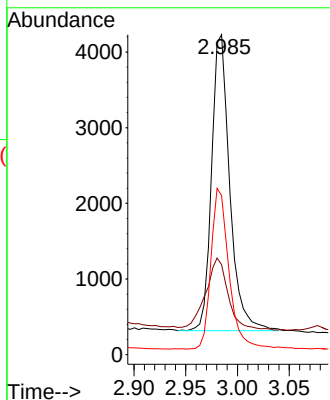
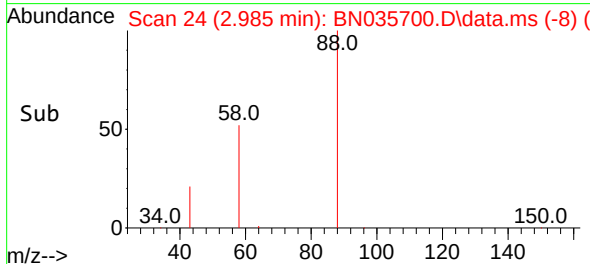
Instrument :  
BNA\_N  
ClientSampleId :  
E28X0MS



Tgt Ion: 88 Resp: 4784  
Ion Ratio Lower Upper  
88 100  
43 28.1 39.4 59.2  
58 49.7 29.8 44.6

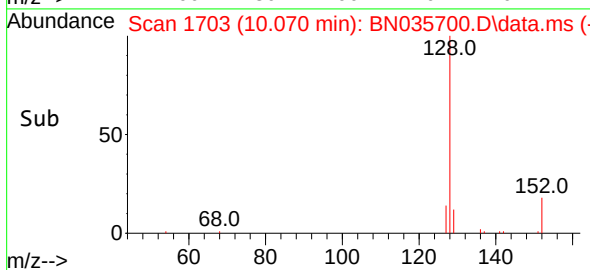
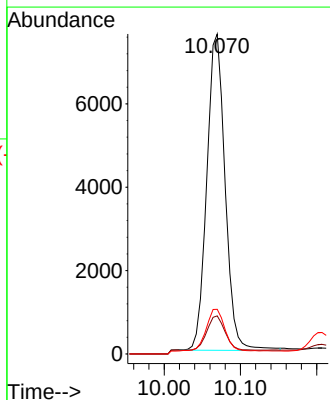
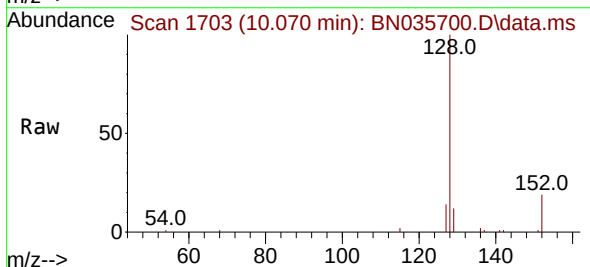
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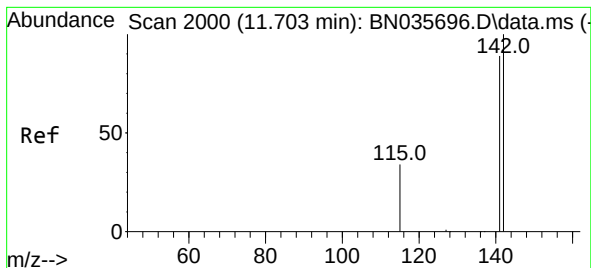
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#5  
Naphthalene  
Concen: 0.564 ng/ul m  
RT: 10.070 min Scan# 1703  
Delta R.T. -0.011 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

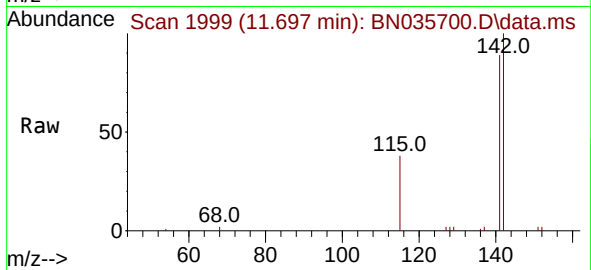
Tgt Ion:128 Resp: 12700  
Ion Ratio Lower Upper  
128 100  
129 11.9 10.8 16.2  
127 14.0 12.0 18.0





#7  
2-Methylnaphthalene  
Concen: 0.546 ng/ul  
RT: 11.697 min Scan# 1999  
Delta R.T. -0.016 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

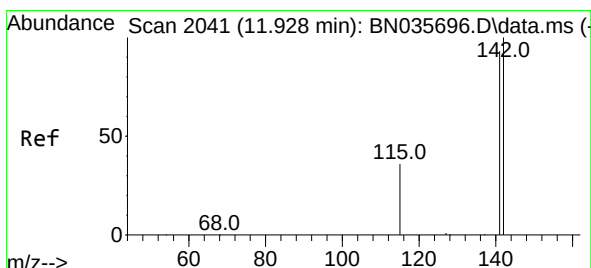
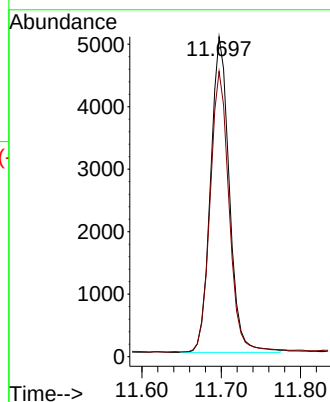
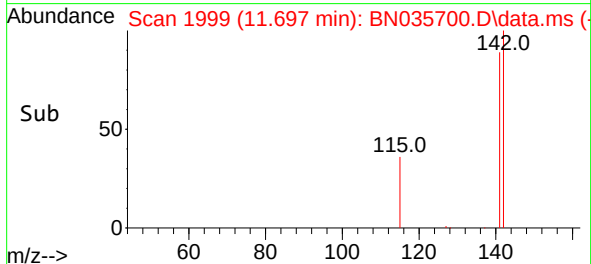
Instrument :  
BNA\_N  
ClientSampleId :  
E28X0MS



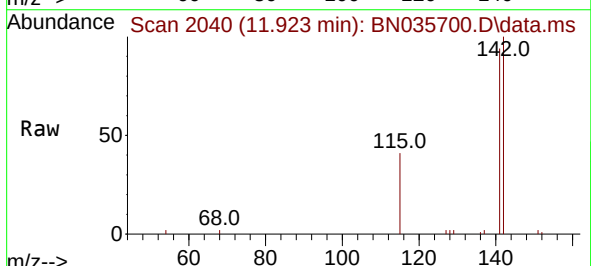
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Ion Ratio Lower Upper  
142 100  
141 89.6 72.8 109.2

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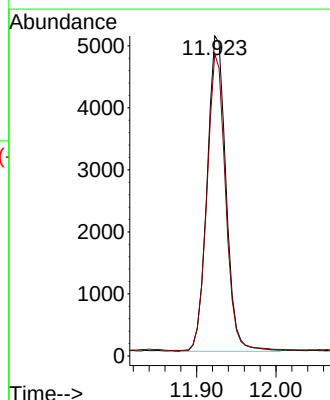
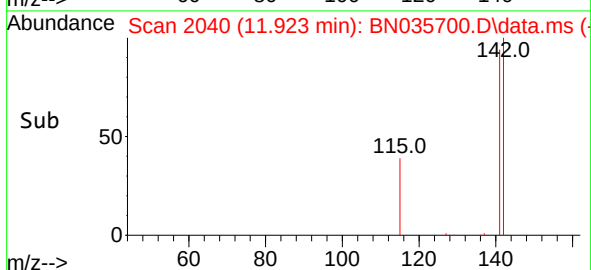
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

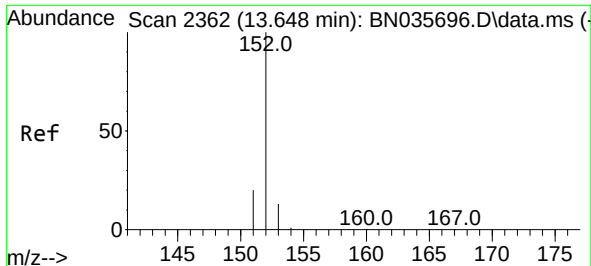


#8  
1-Methylnaphthalene  
Concen: 0.534 ng/ul  
RT: 11.923 min Scan# 2040  
Delta R.T. -0.016 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30



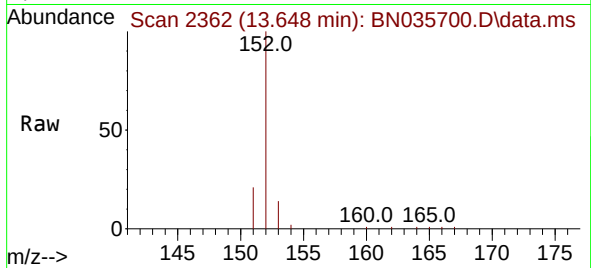
Tgt Ion:142 Resp: 8396  
Ion Ratio Lower Upper  
142 100  
141 92.7 74.7 112.1





#10  
Acenaphthylene  
Concen: 0.485 ng/ul  
RT: 13.648 min Scan# 21  
Delta R.T. -0.014 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

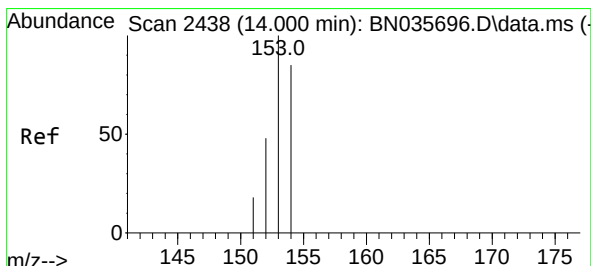
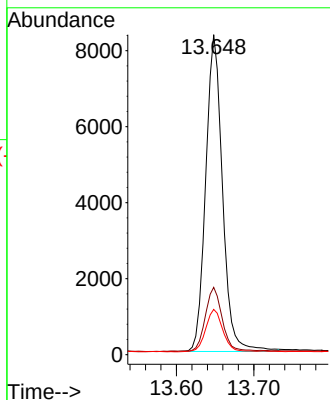
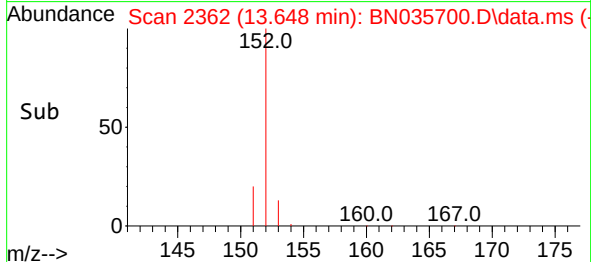
Instrument :  
BNA\_N  
ClientSampleId :  
E28X0MS



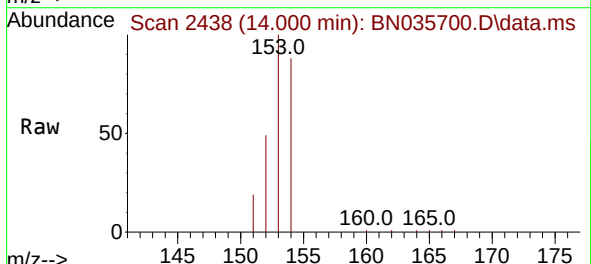
Tgt Ion:152 Resp: 1260  
Ion Ratio Lower Upper  
152 100  
151 21.1 17.6 26.4  
153 14.2 11.4 17.2

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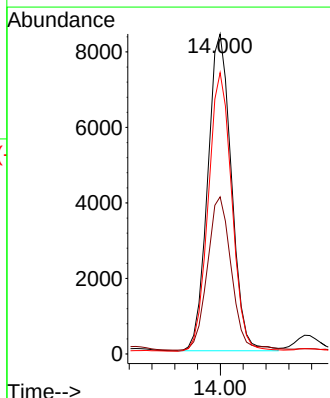
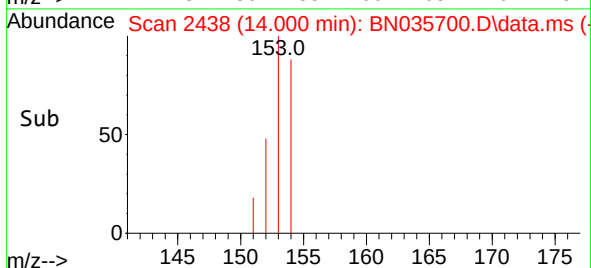
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

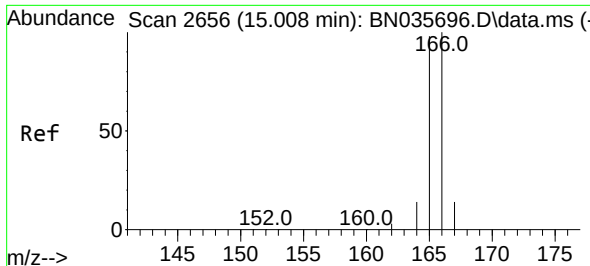


#11  
Acenaphthene  
Concen: 0.617 ng/ul  
RT: 14.000 min Scan# 2438  
Delta R.T. -0.009 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30



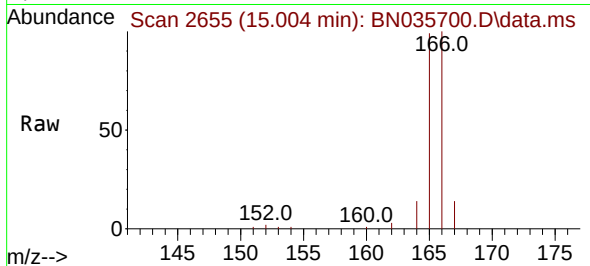
Tgt Ion:153 Resp: 12102  
Ion Ratio Lower Upper  
153 100  
152 49.1 39.8 59.6  
154 87.9 69.8 104.8





#12  
Fluorene  
Concen: 0.643 ng/ul  
RT: 15.004 min Scan# 2655  
Delta R.T. -0.009 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

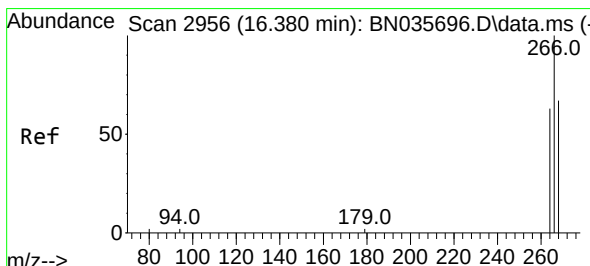
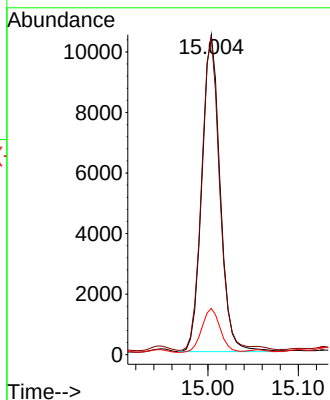
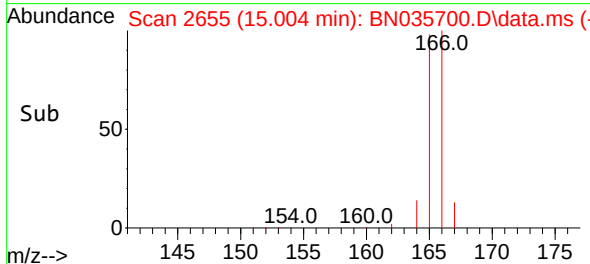
Instrument :  
BNA\_N  
ClientSampleId :  
E28X0MS



Tgt Ion:166 Resp: 1467  
Ion Ratio Lower Upper  
166 100  
165 99.0 79.5 119.3  
167 14.5 11.8 17.8

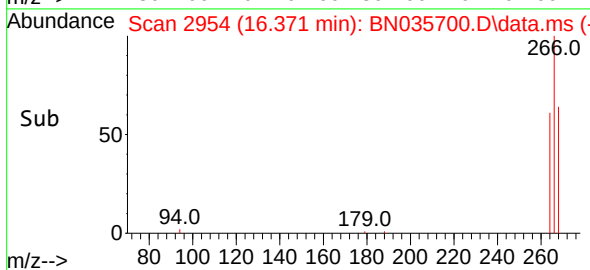
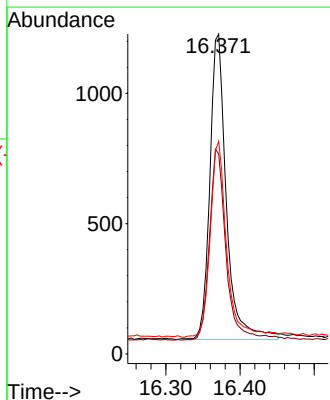
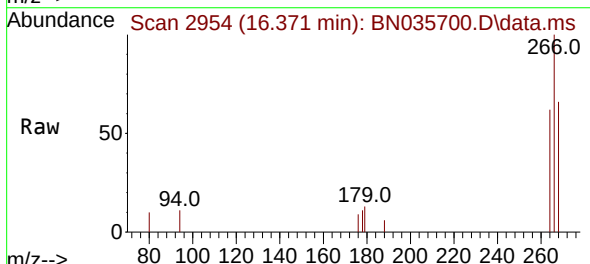
Manual Integrations  
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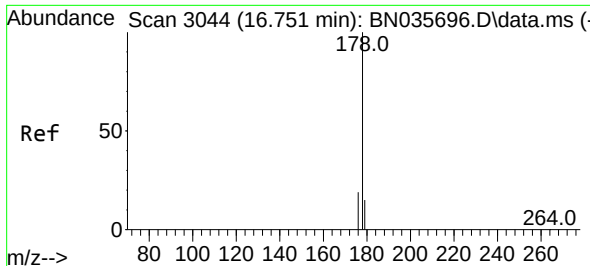
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#14  
Pentachlorophenol  
Concen: 0.506 ng/ul  
RT: 16.371 min Scan# 2954  
Delta R.T. -0.008 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

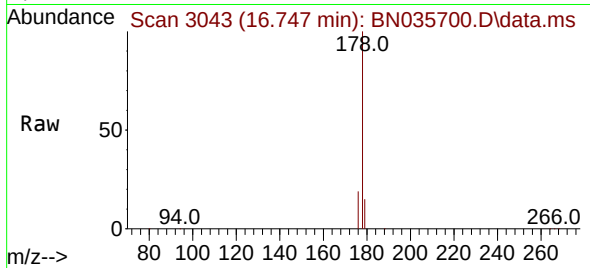
Tgt Ion:266 Resp: 1809  
Ion Ratio Lower Upper  
266 100  
264 63.0 49.9 74.9  
268 64.5 52.8 79.2





#15  
Phenanthrene  
Concen: 3.950 ng/ul  
RT: 16.747 min Scan# 3043  
Delta R.T. -0.012 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

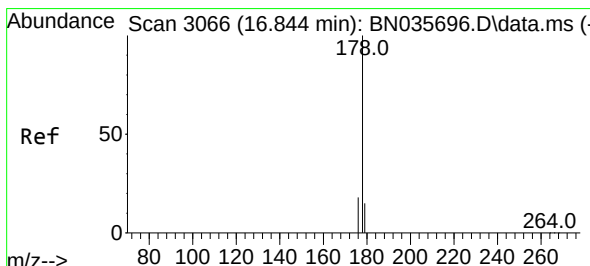
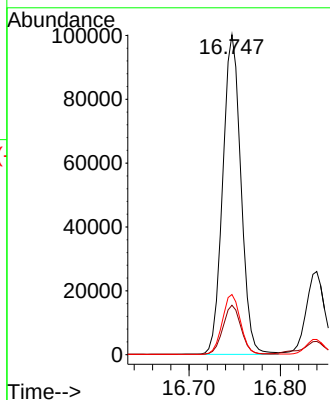
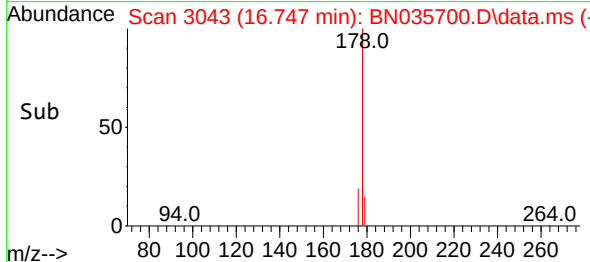
Instrument :  
BNA\_N  
ClientSampleId :  
E28X0MS



Tgt Ion:178 Resp: 137818  
Ion Ratio Lower Upper  
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176 18.8 15.8 23.8

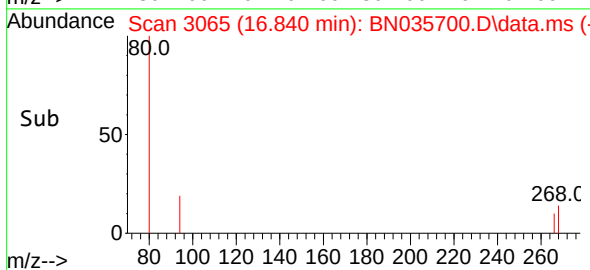
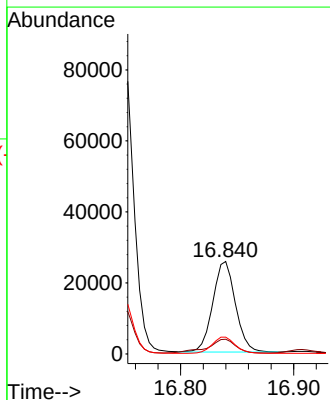
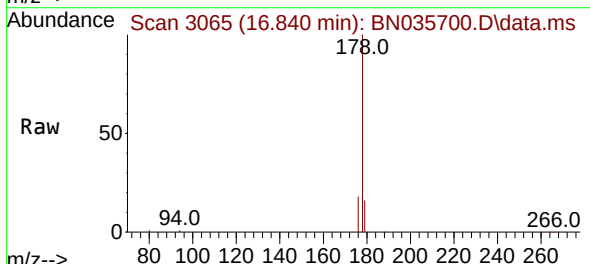
Manual Integrations  
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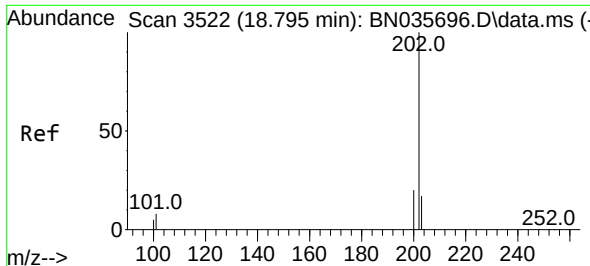
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#16  
Anthracene  
Concen: 1.086 ng/ul  
RT: 16.840 min Scan# 3065  
Delta R.T. -0.008 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

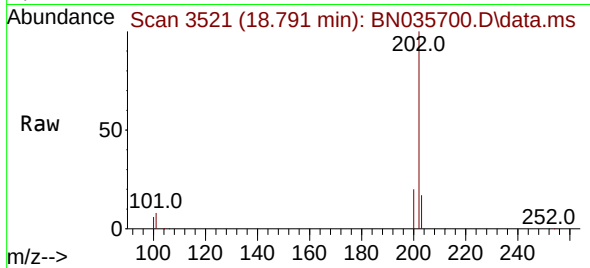
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Ion Ratio Lower Upper  
178 100  
179 15.9 13.4 20.0  
176 18.2 15.4 23.0





#19  
Fluoranthene  
Concen: 4.970 ng/ul  
RT: 18.791 min Scan# 3521  
Delta R.T. -0.009 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

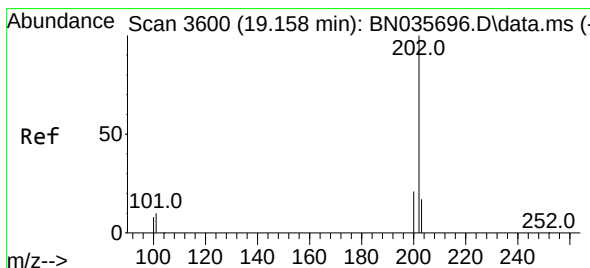
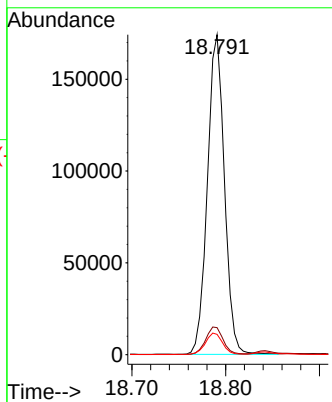
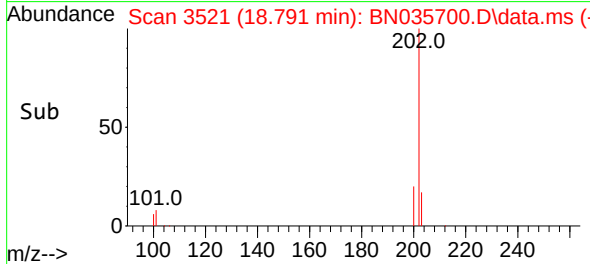
Instrument :  
BNA\_N  
ClientSampleId :  
E28X0MS



Tgt Ion:202 Resp: 21935  
Ion Ratio Lower Upper  
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100 6.3 5.4 8.0

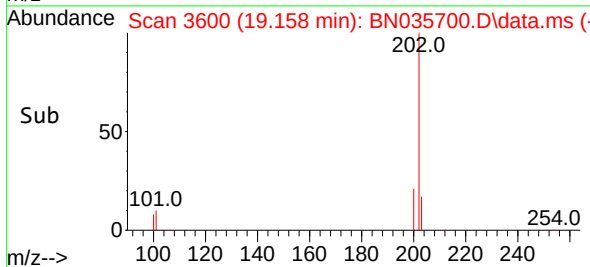
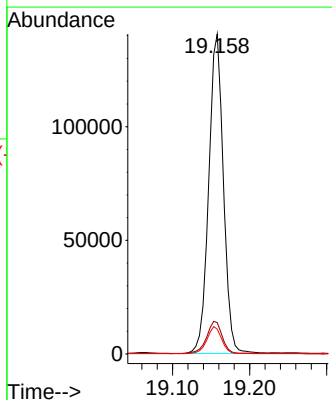
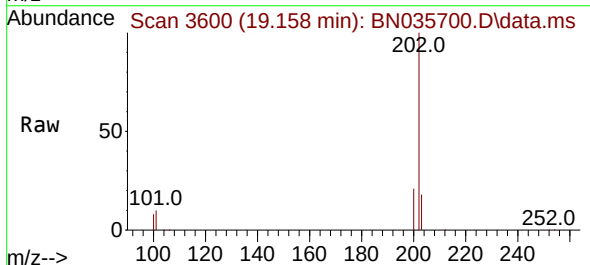
Manual Integrations  
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Supervised By :mohammad ahmed 12/24/2024

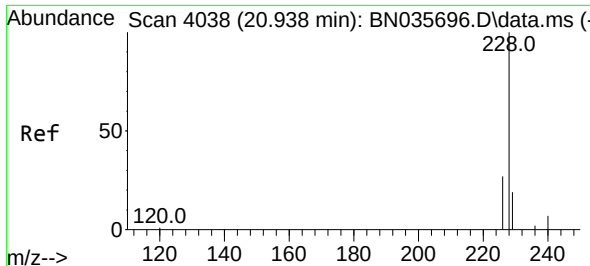


#20  
Pyrene  
Concen: 3.830 ng/ul  
RT: 19.158 min Scan# 3600  
Delta R.T. -0.009 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

Tgt Ion:202 Resp: 186192  
Ion Ratio Lower Upper  
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100 7.8 6.5 9.7

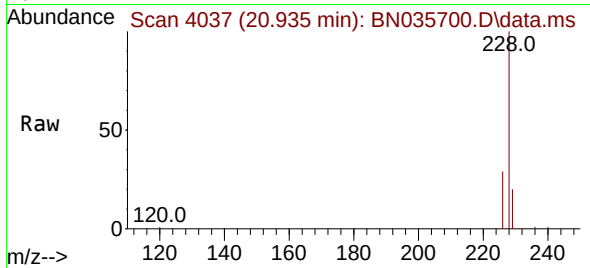






#21  
Benzo(a)anthracene  
Concen: 2.451 ng/u1  
RT: 20.935 min Scan# 4038  
Delta R.T. -0.014 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

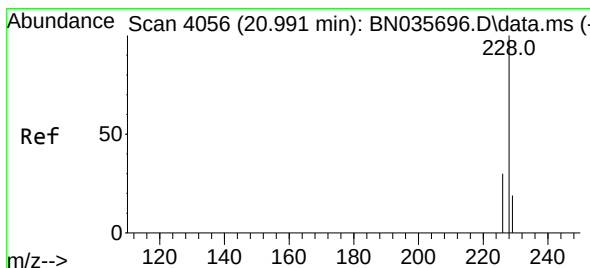
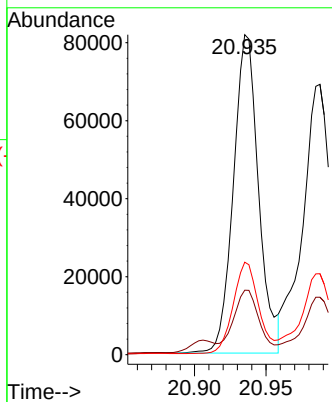
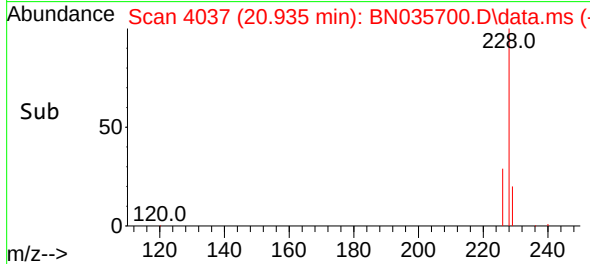
Instrument :  
BNA\_N  
ClientSampleId :  
E28X0MS



Tgt Ion:228 Resp: 100310  
Ion Ratio Lower Upper  
228 100  
229 20.2 16.6 25.0  
226 28.9 22.5 33.7

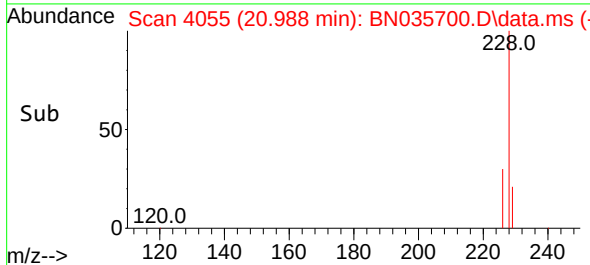
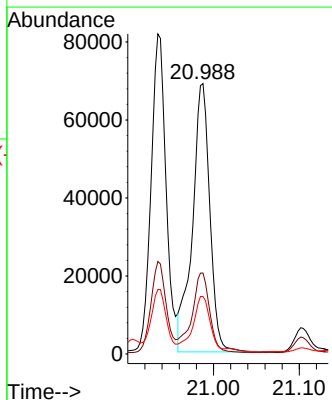
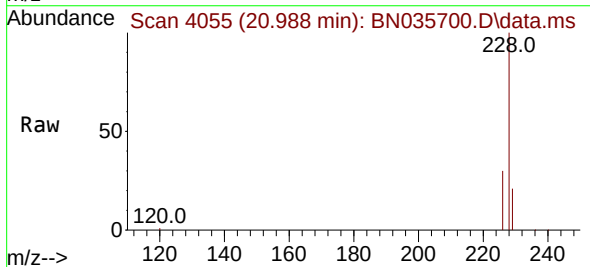
Manual Integrations  
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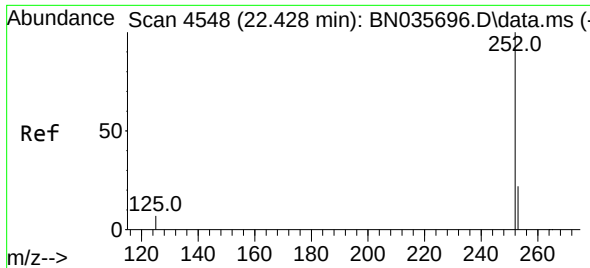
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#22  
Chrysene  
Concen: 2.281 ng/u1  
RT: 20.988 min Scan# 4055  
Delta R.T. -0.011 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

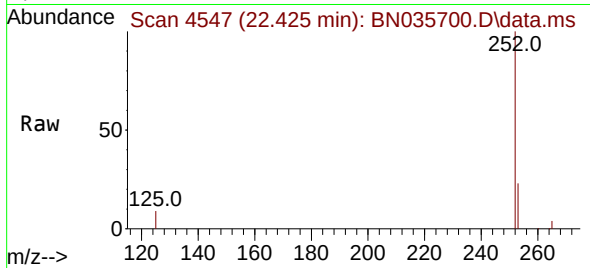
Tgt Ion:228 Resp: 96871  
Ion Ratio Lower Upper  
228 100  
226 29.9 25.1 37.7  
229 21.3 16.6 24.8





#24  
Benzo(b)fluoranthene  
Concen: 3.180 ng/ul m  
RT: 22.425 min Scan# 4547  
Delta R.T. -0.017 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

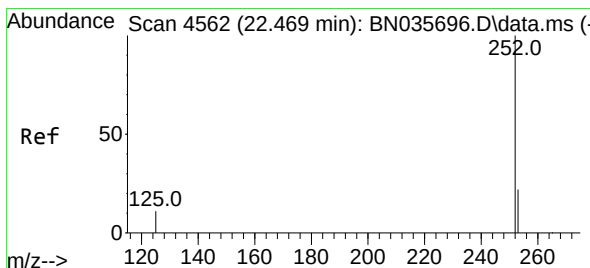
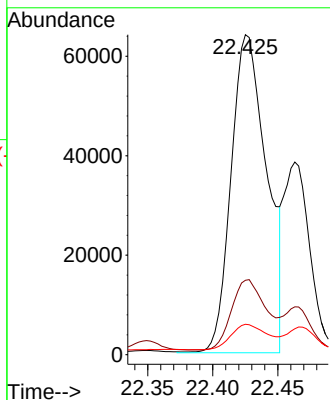
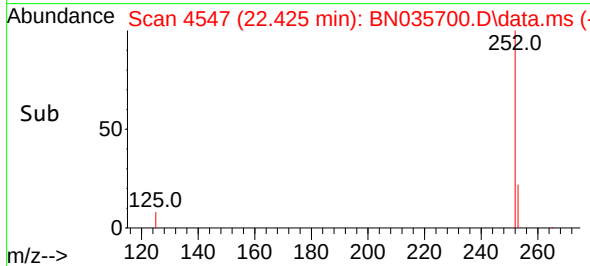
Instrument :  
BNA\_N  
ClientSampleId :  
E28X0MS



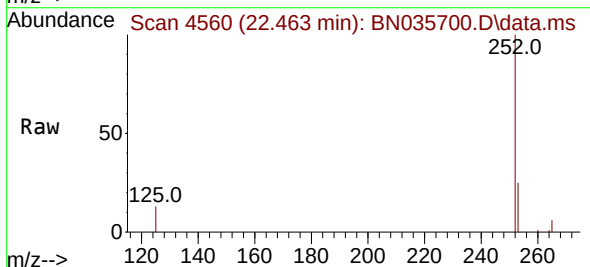
Tgt Ion:252 Resp: 12188  
Ion Ratio Lower Upper  
252 100  
253 23.2 0.0 56.4  
125 9.5 0.0 37.6

Manual Integrations  
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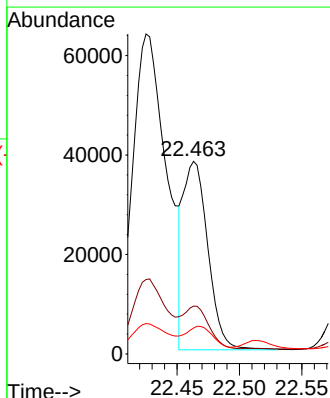
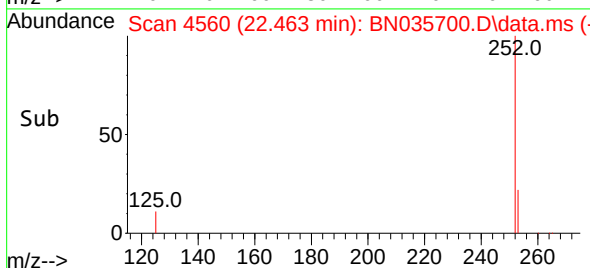
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

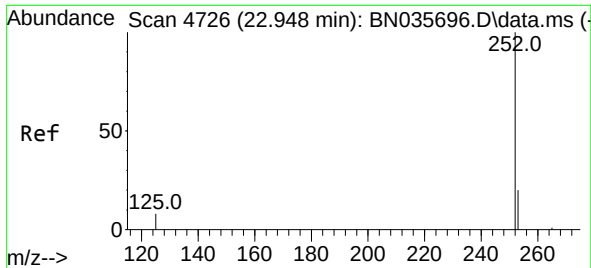


#25  
Benzo(k)fluoranthene  
Concen: 1.225 ng/ul m  
RT: 22.463 min Scan# 4560  
Delta R.T. -0.017 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30



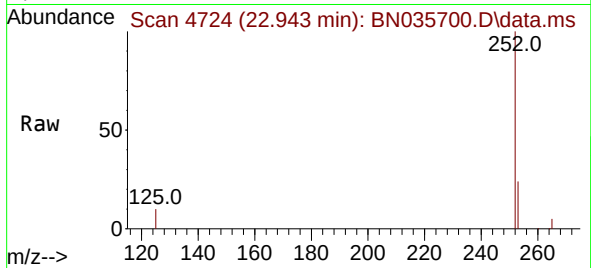
Tgt Ion:252 Resp: 51928  
Ion Ratio Lower Upper  
252 100  
253 24.9 22.1 33.1  
125 13.4 15.3 22.9#





#26  
Benzo(a)pyrene  
Concen: 2.369 ng/ul  
RT: 22.943 min Scan# 4724  
Delta R.T. -0.020 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

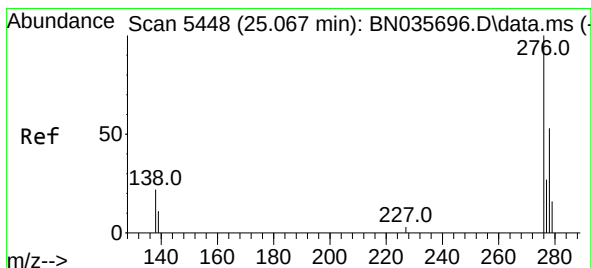
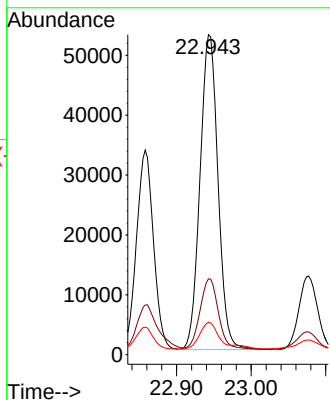
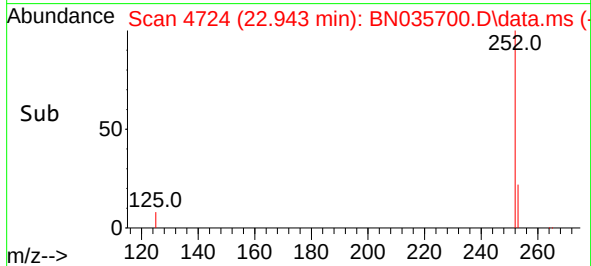
Instrument :  
BNA\_N  
ClientSampleId :  
E28X0MS



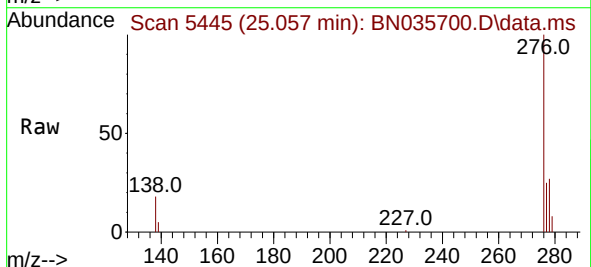
Tgt Ion:252 Resp: 87952  
Ion Ratio Lower Upper  
252 100  
253 23.7 24.1 36.1#  
125 10.2 19.1 28.7#

Manual Integrations  
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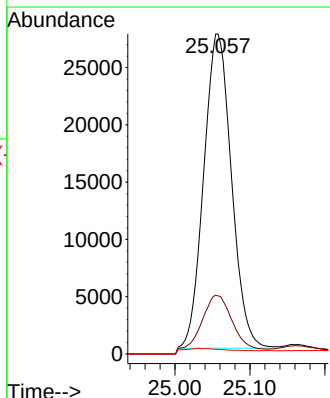
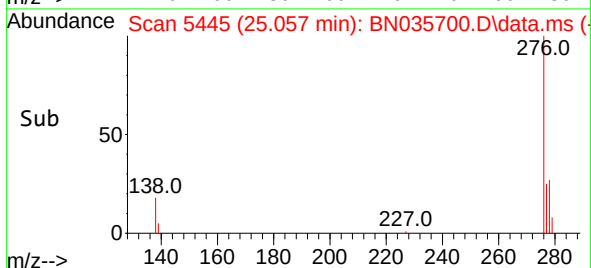
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

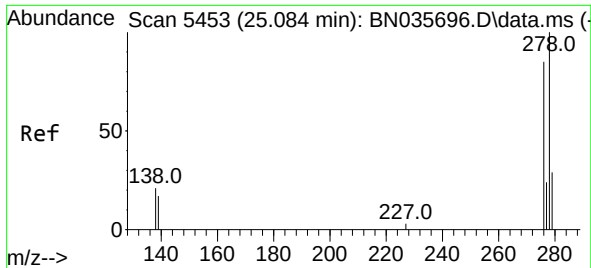


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.559 ng/ul m  
RT: 25.057 min Scan# 5445  
Delta R.T. -0.023 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30



Tgt Ion:276 Resp: 70473  
Ion Ratio Lower Upper  
276 100  
138 22.6 14.7 22.1#  
227 0.0 21.6 32.4#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.805 ng/ul  
RT: 25.071 min Scan# 5449  
Delta R.T. -0.030 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

Instrument :

BNA\_N

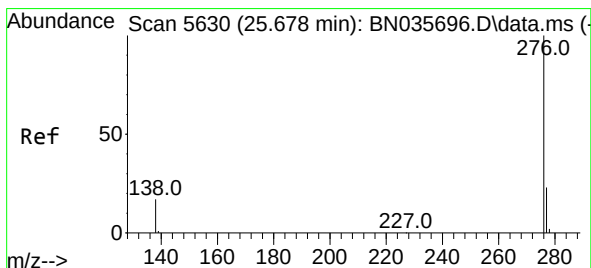
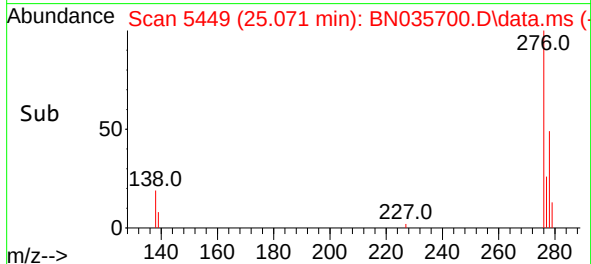
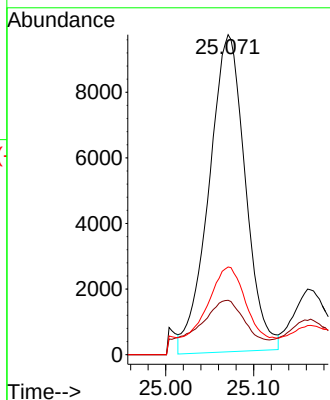
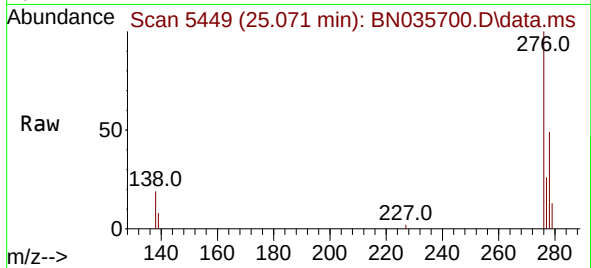
ClientSampleId :

E28X0MS

Tgt Ion:278 Resp: 27772  
Ion Ratio Lower Upper  
278 100  
139 17.0 19.8 29.8  
279 27.4 24.0 36.0

Manual Integrations  
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Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#29  
Benzo(g,h,i)perylene  
Concen: 1.919 ng/ul  
RT: 25.668 min Scan# 5627  
Delta R.T. -0.030 min  
Lab File: BN035700.D  
Acq: 19 Dec 2024 11:30

Tgt Ion:276 Resp: 69603  
Ion Ratio Lower Upper  
276 100  
138 18.5 19.6 29.4  
277 24.6 21.6 32.4

