

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121624\  
 Data File : BN035625.D  
 Acq On : 16 Dec 2024 20:00  
 Operator : RC/JU  
 Sample : P5232-16  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 E28T0

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/18/2024  
 Supervised By :mohammad ahmed 12/21/2024

Quant Time: Dec 16 21:56:41 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   | 7.284  | 152  | 2373     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.031 | 136  | 7085     | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 13.944 | 164  | 5006     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.713 | 188  | 11033    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 20.958 | 240  | 9445     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.042 | 264  | 9495m    | 0.400 | ng/ul  | -0.01    |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 2.955  | 96   | 5803     | 2.758 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.631 | 152  | 1486     | 0.147 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.767 | 212  | 3443     | 0.125 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.075 | 128  | 1486m    | 0.086 | ng/ul  |          |
| 7) 2-Methylnaphthalene      | 11.708 | 142  | 1074     | 0.092 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 11.939 | 142  | 755      | 0.062 | ng/ul  | 98       |
| 10) Acenaphthylene          | 13.657 | 152  | 560      | 0.029 | ng/ul# | 58       |
| 11) Acenaphthene            | 14.009 | 153  | 662      | 0.045 | ng/ul  | 94       |
| 12) Fluorene                | 15.008 | 166  | 544      | 0.032 | ng/ul# | 87       |
| 14) Pentachlorophenol       | 16.379 | 266  | 89       | 0.031 | ng/ul  | 99       |
| 15) Phenanthrene            | 16.755 | 178  | 9930     | 0.360 | ng/ul  | 100      |
| 16) Anthracene              | 16.844 | 178  | 2308     | 0.089 | ng/ul# | 89       |
| 19) Fluoranthene            | 18.795 | 202  | 20623    | 0.611 | ng/ul  | 99       |
| 20) Pyrene                  | 19.162 | 202  | 18459    | 0.496 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 20.944 | 228  | 8803     | 0.281 | ng/ul  | 95       |
| 22) Chrysene                | 20.993 | 228  | 10057    | 0.309 | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 22.434 | 252  | 13634m   | 0.487 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.472 | 252  | 5553m    | 0.179 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 22.951 | 252  | 9403     | 0.347 | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.071 | 276  | 6713m    | 0.203 | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 25.077 | 278  | 1586m    | 0.063 | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 25.684 | 276  | 6974     | 0.263 | ng/ul  | 95       |

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

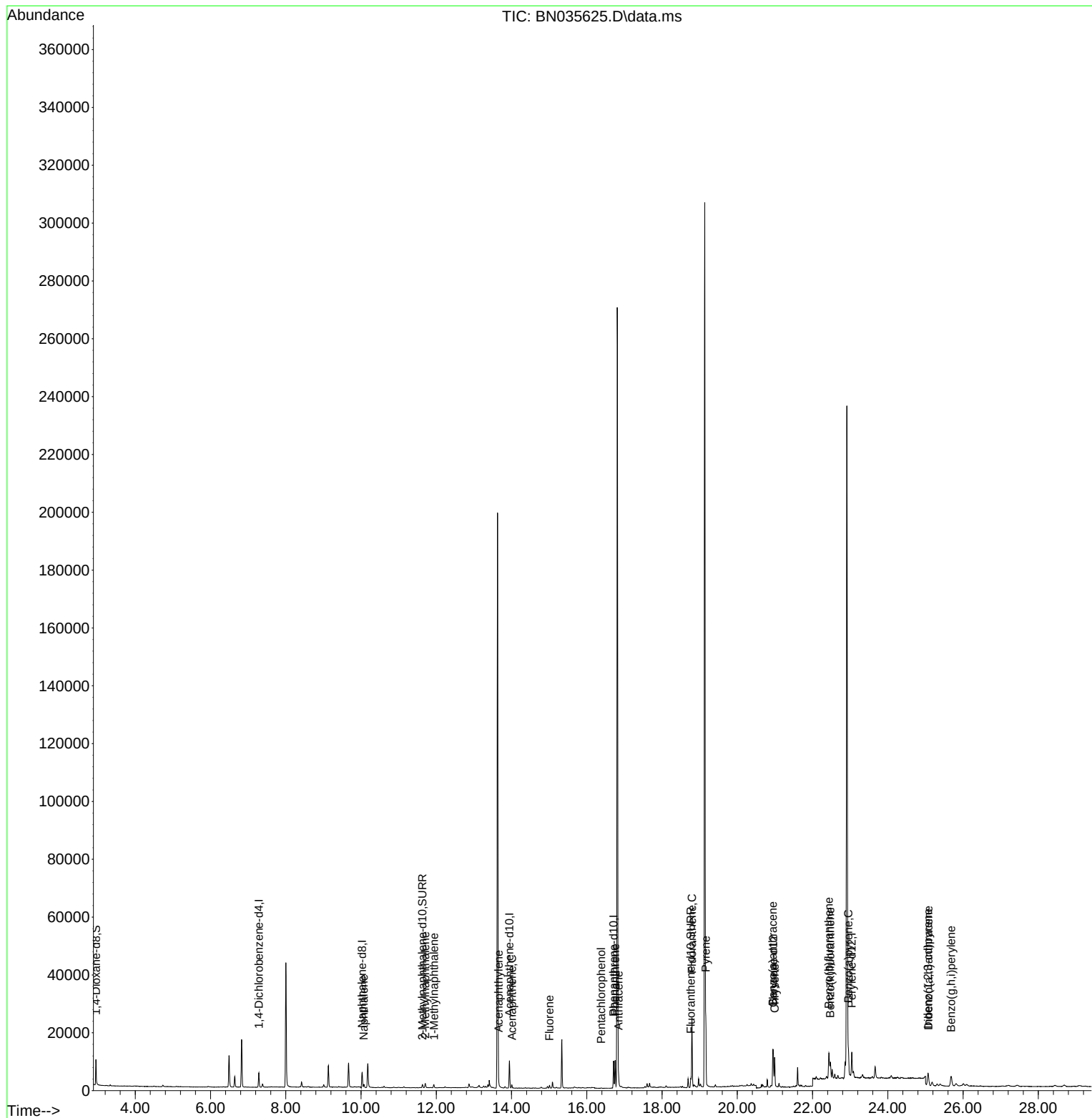
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121624\  
Data File : BN035625.D  
Acq On : 16 Dec 2024 20:00  
Operator : RC/JU  
Sample : P5232-16  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

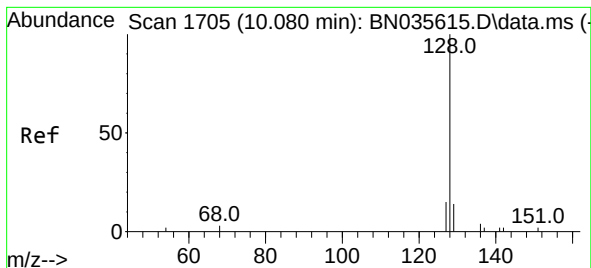
Instrument :  
BNA\_N  
ClientSampleId :  
E28T0

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Supervised By :mohammad ahmed 12/21/2024

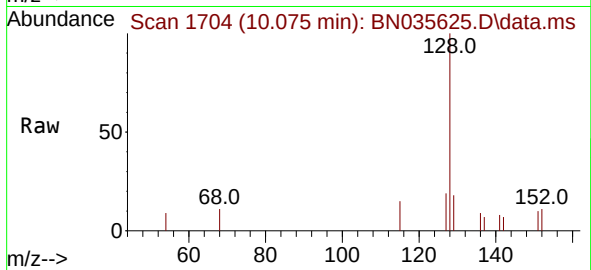
Quant Time: Dec 16 21:56:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN121624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 16 16:26:08 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.086 ng/ul m  
RT: 10.075 min Scan# 1704  
Delta R.T. -0.006 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00

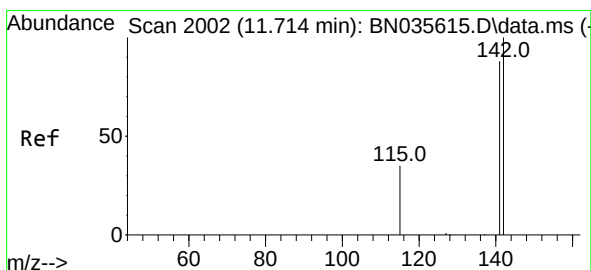
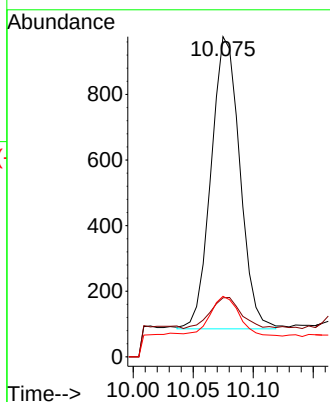
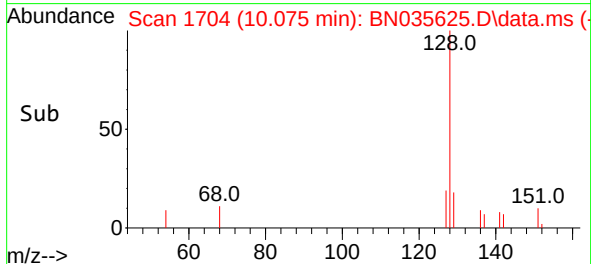
Instrument :  
BNA\_N  
ClientSampleId :  
E28T0



Tgt Ion:128 Resp: 1480  
Ion Ratio Lower Upper  
128 100  
129 18.4 10.8 16.2  
127 18.9 12.0 18.0

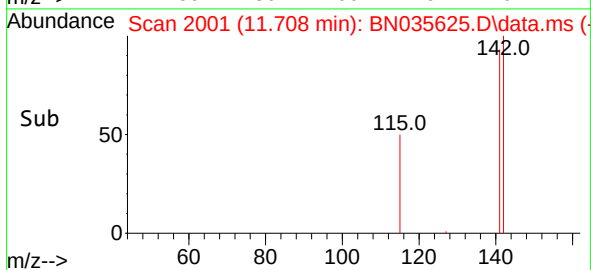
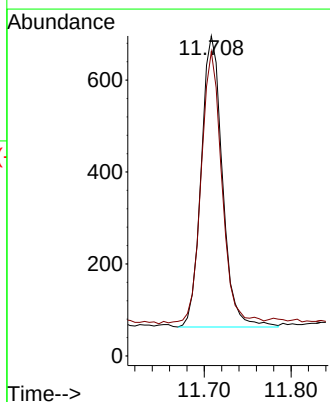
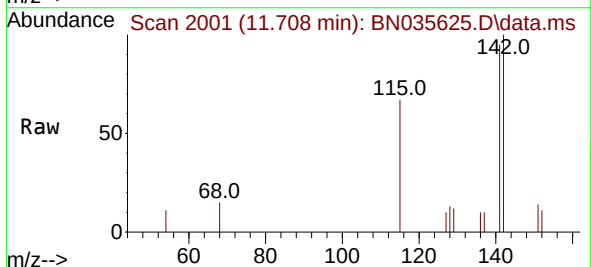
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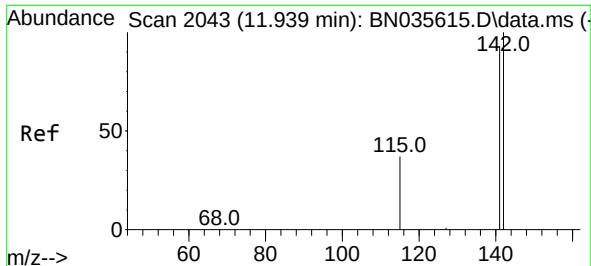
Reviewed By :Yogesh Patel 12/18/2024  
Supervised By :mohammad ahmed 12/21/2024



#7  
2-Methylnaphthalene  
Concen: 0.092 ng/ul  
RT: 11.708 min Scan# 2001  
Delta R.T. -0.006 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00

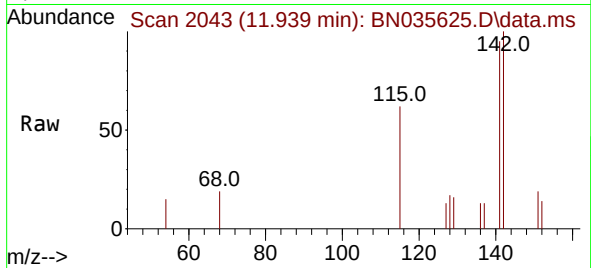
Tgt Ion:142 Resp: 1074  
Ion Ratio Lower Upper  
142 100  
141 91.8 72.8 109.2





#8  
1-Methylnaphthalene  
Concen: 0.062 ng/ul  
RT: 11.939 min Scan# 2043  
Delta R.T. -0.000 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00

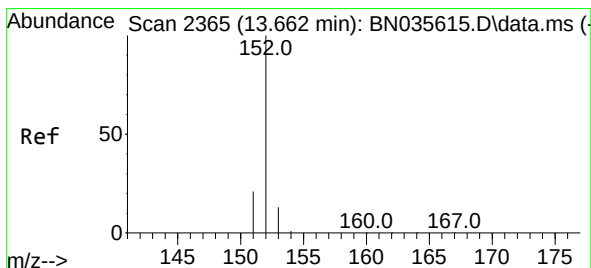
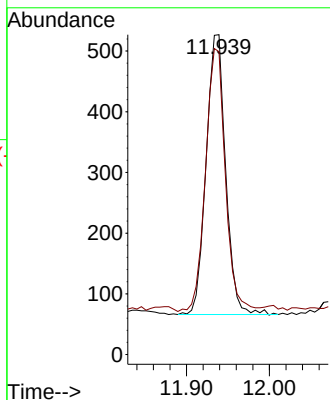
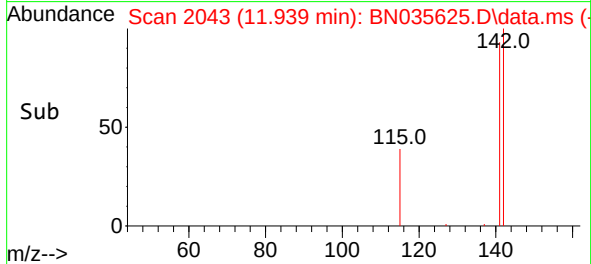
Instrument :  
BNA\_N  
ClientSampleId :  
E28T0



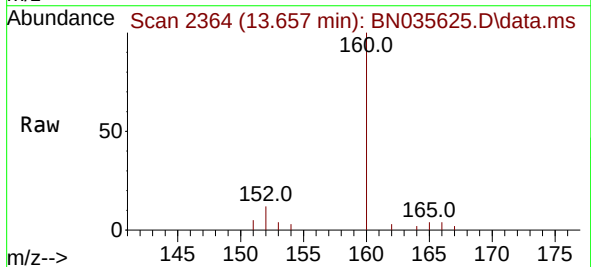
Tgt Ion:142 Resp: 75  
Ion Ratio Lower Upper  
142 100  
141 95.6 74.7 112.1

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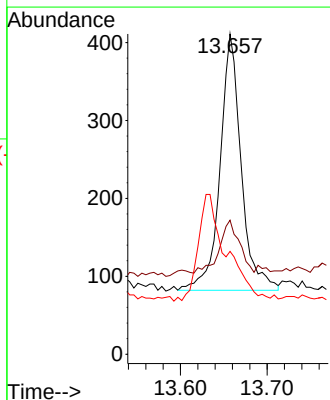
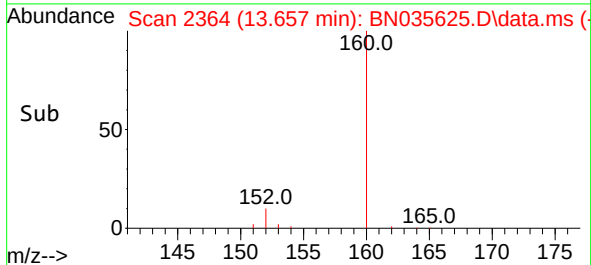
Reviewed By :Yogesh Patel 12/18/2024  
Supervised By :mohammad ahmed 12/21/2024

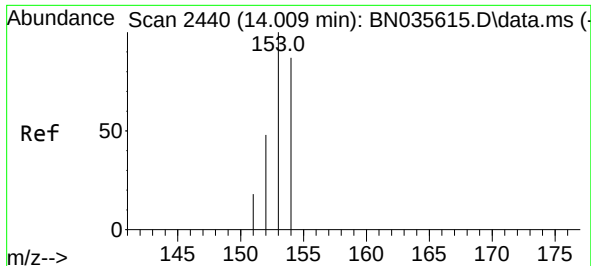


#10  
Acenaphthylene  
Concen: 0.029 ng/ul  
RT: 13.657 min Scan# 2364  
Delta R.T. -0.005 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00



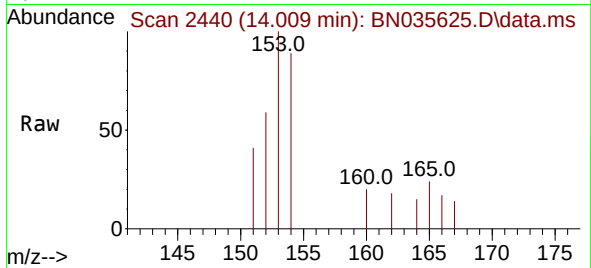
Tgt Ion:152 Resp: 560  
Ion Ratio Lower Upper  
152 100  
151 41.8 17.6 26.4#  
153 32.1 11.4 17.2#





#11  
Acenaphthene  
Concen: 0.045 ng/u1  
RT: 14.009 min Scan# 2440  
Delta R.T. -0.000 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00

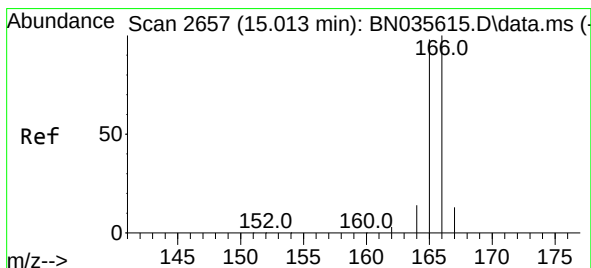
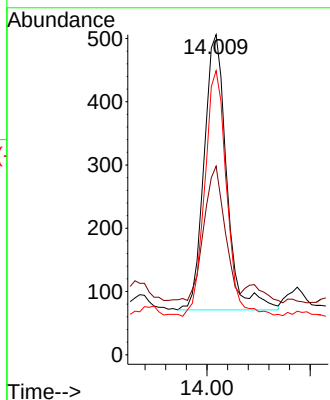
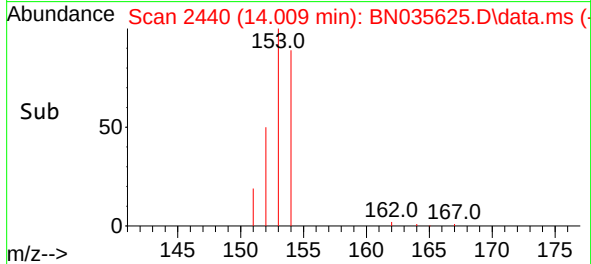
Instrument :  
BNA\_N  
ClientSampleId :  
E28T0



Tgt Ion:153 Resp: 662  
Ion Ratio Lower Upper  
153 100  
152 58.9 39.8 59.6  
154 88.7 69.8 104.8

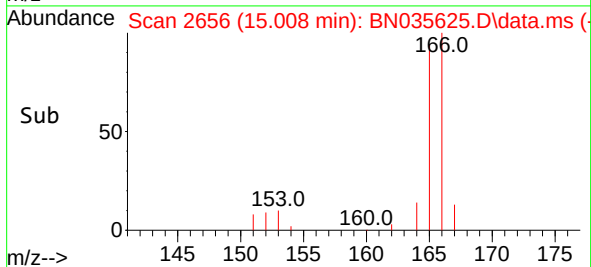
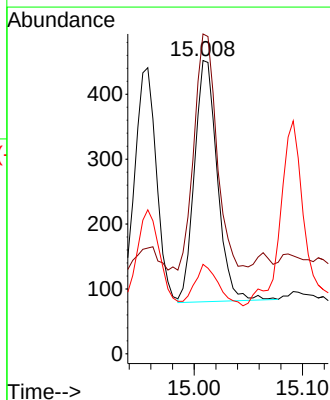
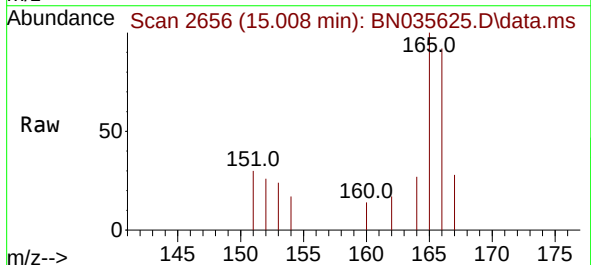
Manual Integrations  
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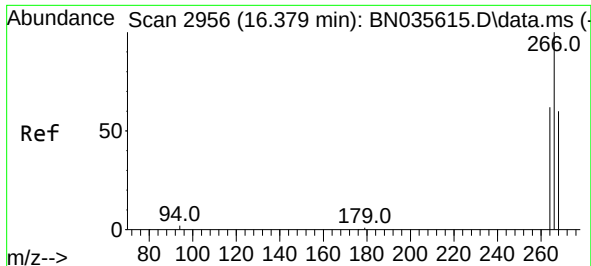
Reviewed By :Yogesh Patel 12/18/2024  
Supervised By :mohammad ahmed 12/21/2024



#12  
Fluorene  
Concen: 0.032 ng/u1  
RT: 15.008 min Scan# 2656  
Delta R.T. -0.005 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00

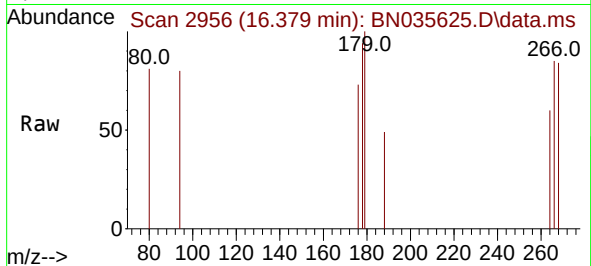
Tgt Ion:166 Resp: 544  
Ion Ratio Lower Upper  
166 100  
165 109.1 79.5 119.3  
167 30.5 11.8 17.8#





#14  
 Pentachlorophenol  
 Concen: 0.031 ng/ul  
 RT: 16.379 min Scan# 2956  
 Delta R.T. -0.000 min  
 Lab File: BN035625.D  
 Acq: 16 Dec 2024 20:00

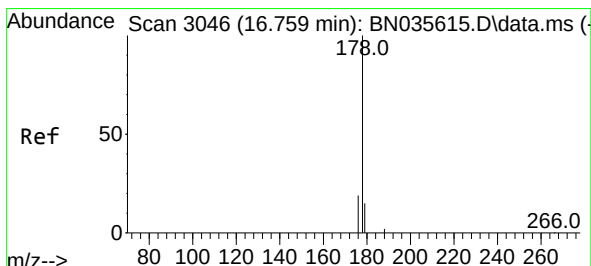
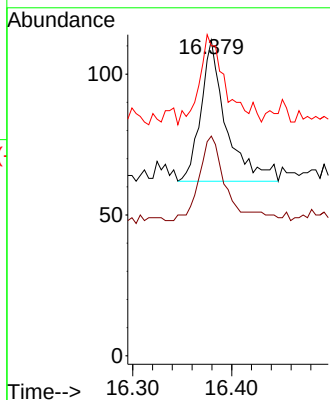
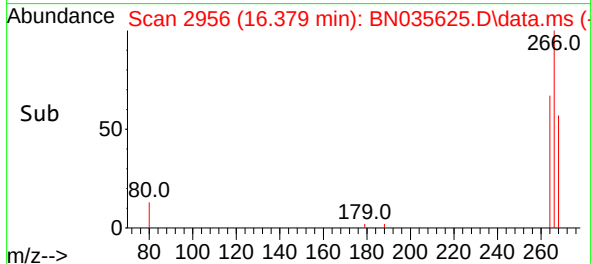
Instrument :  
 BNA\_N  
 ClientSampleId :  
 E28T0



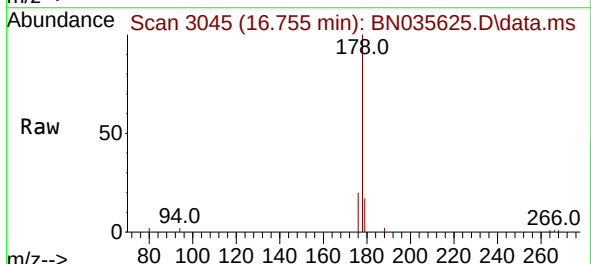
Tgt Ion:266 Resp: 89  
 Ion Ratio Lower Upper  
 266 100  
 264 62.9 49.9 74.9  
 268 67.4 52.8 79.2

Manual Integrations  
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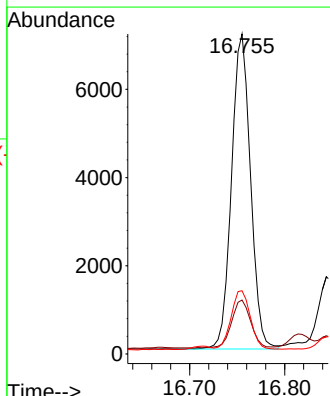
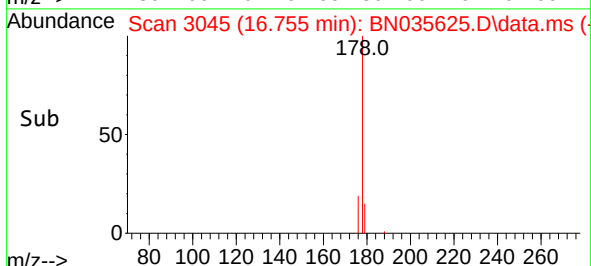
Reviewed By :Yogesh Patel 12/18/2024  
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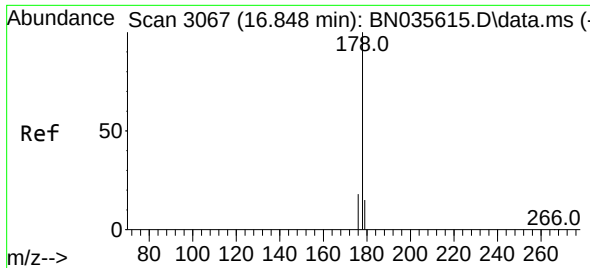


#15  
 Phenanthrene  
 Concen: 0.360 ng/ul  
 RT: 16.755 min Scan# 3045  
 Delta R.T. -0.004 min  
 Lab File: BN035625.D  
 Acq: 16 Dec 2024 20:00



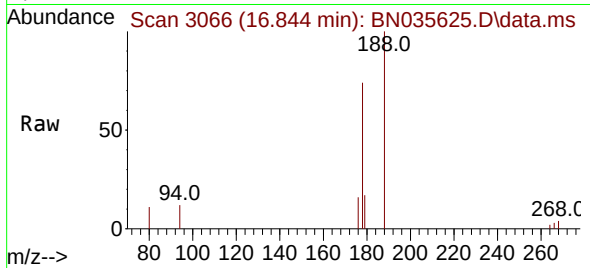
Tgt Ion:178 Resp: 9930  
 Ion Ratio Lower Upper  
 178 100  
 179 16.9 13.3 19.9  
 176 19.7 15.8 23.8





#16  
 Anthracene  
 Concen: 0.089 ng/ul  
 RT: 16.844 min Scan# 3067  
 Delta R.T. -0.004 min  
 Lab File: BN035625.D  
 Acq: 16 Dec 2024 20:00

Instrument :  
 BNA\_N  
 ClientSampleId :  
 E28T0

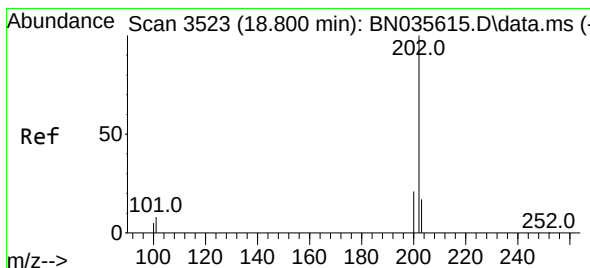
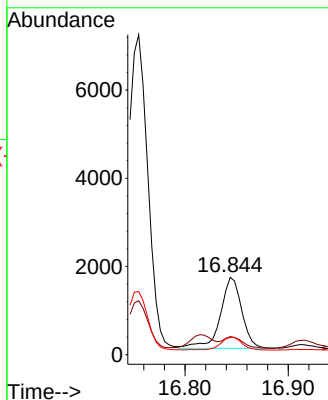
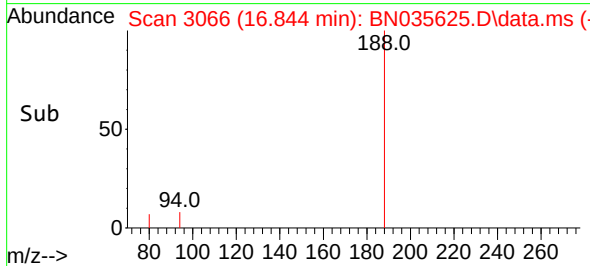


Tgt Ion:178 Resp: 2308

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 23.4  | 13.4  | 20.0  |
| 176 | 22.2  | 15.4  | 23.0  |

Manual Integrations  
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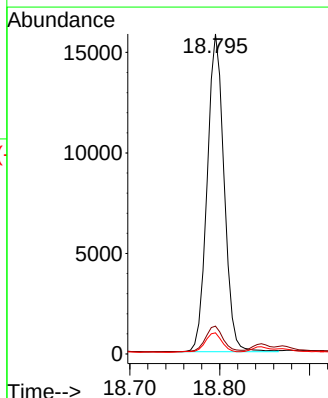
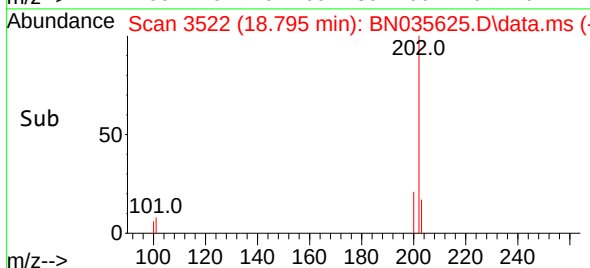
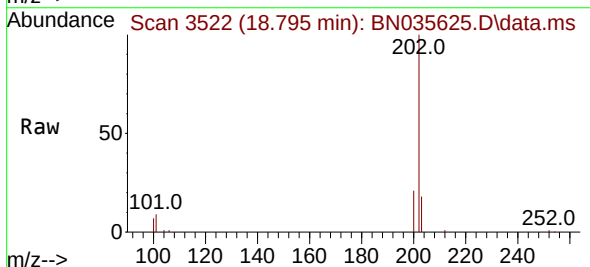
Reviewed By :Yogesh Patel 12/18/2024  
 Supervised By :mohammad ahmed 12/21/2024

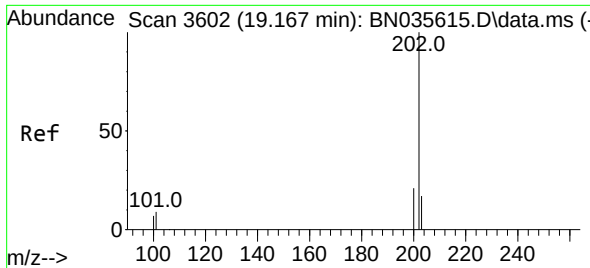


#19  
 Fluoranthene  
 Concen: 0.611 ng/ul  
 RT: 18.795 min Scan# 3522  
 Delta R.T. -0.005 min  
 Lab File: BN035625.D  
 Acq: 16 Dec 2024 20:00

Tgt Ion:202 Resp: 20623

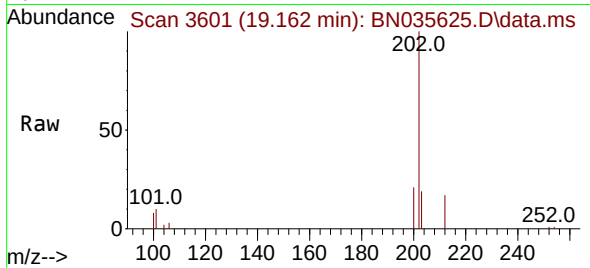
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 8.7   | 7.3   | 10.9  |
| 100 | 6.6   | 5.4   | 8.0   |





#20  
Pyrene  
Concen: 0.496 ng/ul  
RT: 19.162 min Scan# 3601  
Delta R.T. -0.005 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00

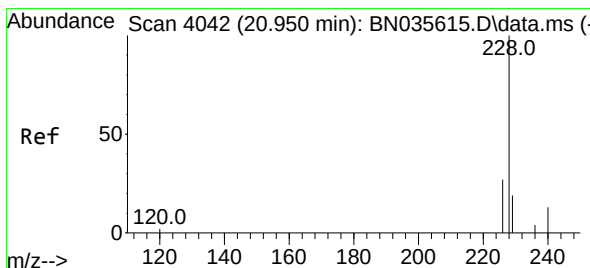
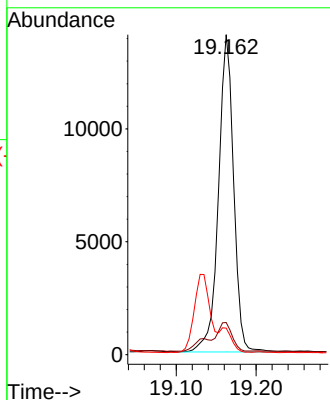
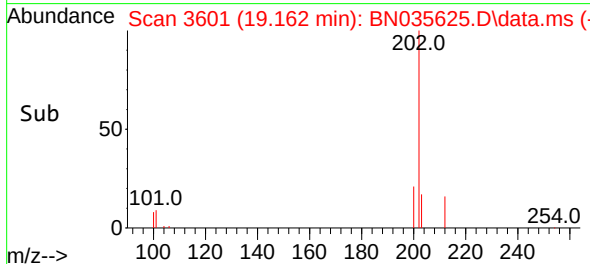
Instrument :  
BNA\_N  
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E28T0



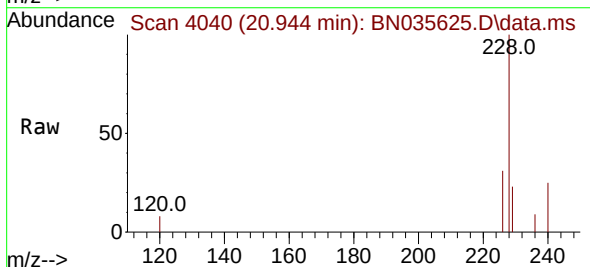
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Ion Ratio Lower Upper  
202 100  
101 10.1 8.5 12.7  
100 8.3 6.5 9.7

Manual Integrations  
APPROVED

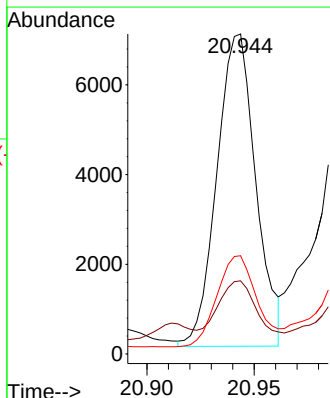
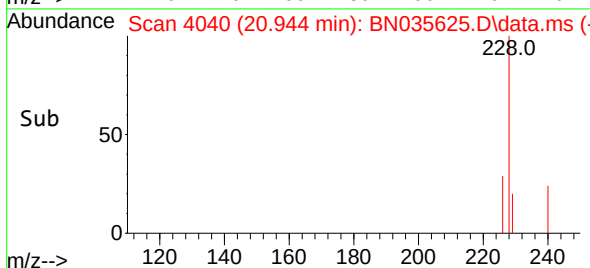
Reviewed By :Yogesh Patel 12/18/2024  
Supervised By :mohammad ahmed 12/21/2024



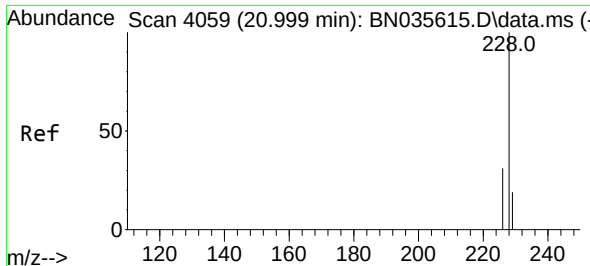
#21  
Benzo(a)anthracene  
Concen: 0.281 ng/ul  
RT: 20.944 min Scan# 4040  
Delta R.T. -0.006 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00



Tgt Ion:228 Resp: 8803  
Ion Ratio Lower Upper  
228 100  
229 22.9 16.6 25.0  
226 30.7 22.5 33.7

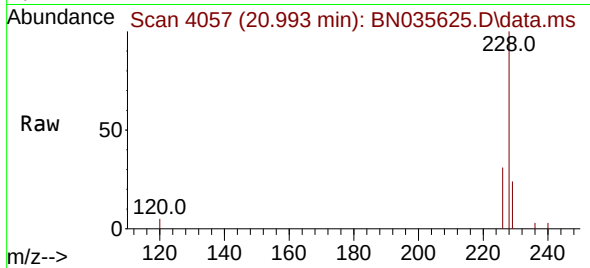






#22  
Chrysene  
Concen: 0.309 ng/ul  
RT: 20.993 min Scan# 4057  
Delta R.T. -0.006 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00

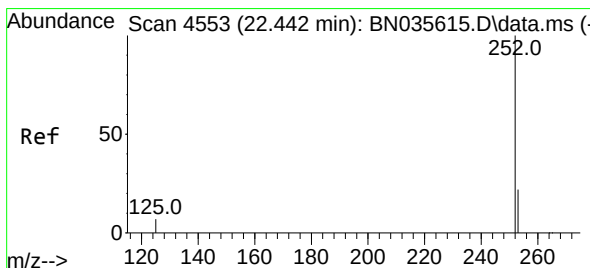
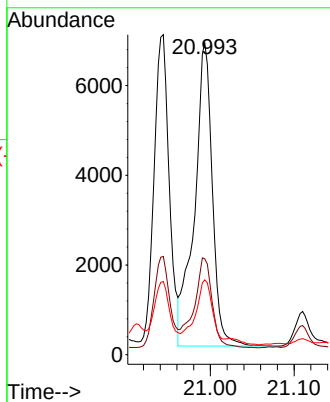
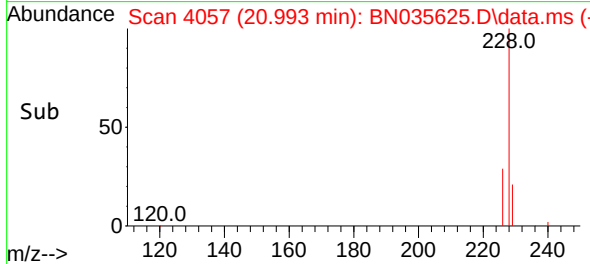
Instrument :  
BNA\_N  
ClientSampleId :  
E28T0



Tgt Ion:228 Resp: 1005  
Ion Ratio Lower Upper  
228 100  
226 30.8 25.1 37.7  
229 24.0 16.6 24.8

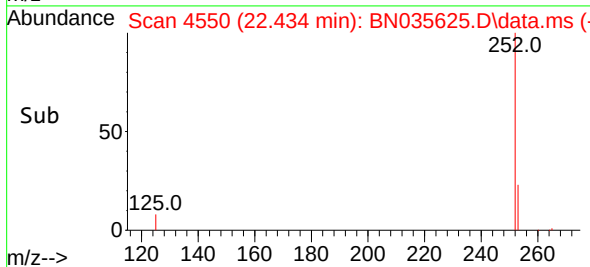
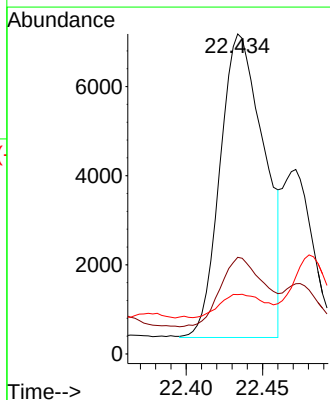
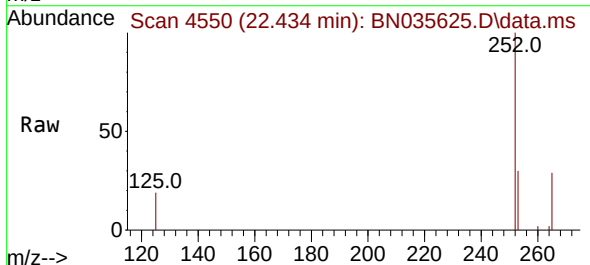
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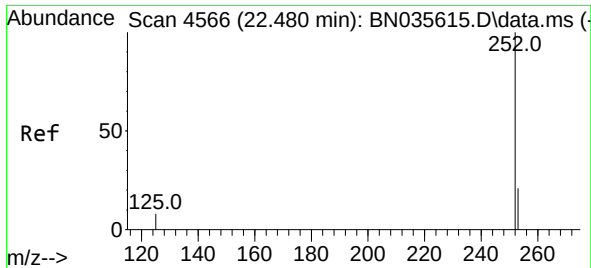
Reviewed By :Yogesh Patel 12/18/2024  
Supervised By :mohammad ahmed 12/21/2024



#24  
Benzo(b)fluoranthene  
Concen: 0.487 ng/ul m  
RT: 22.434 min Scan# 4550  
Delta R.T. -0.009 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00

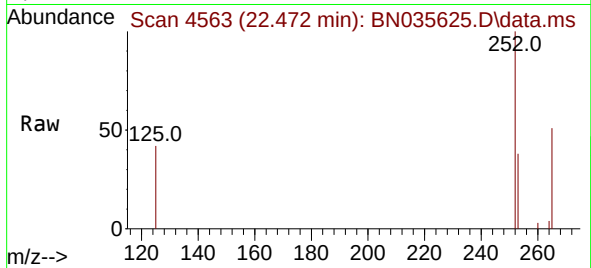
Tgt Ion:252 Resp: 13634  
Ion Ratio Lower Upper  
252 100  
253 30.2 0.0 56.4  
125 18.6 0.0 37.6





#25  
Benzo(k)fluoranthene  
Concen: 0.179 ng/ul m  
RT: 22.472 min Scan# 4566  
Delta R.T. -0.009 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00

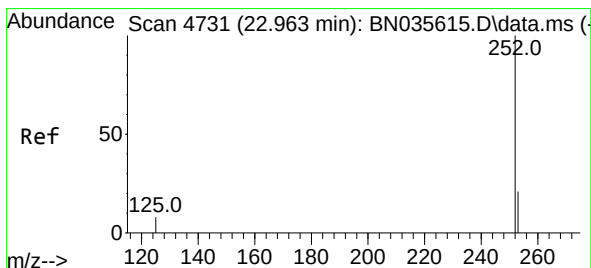
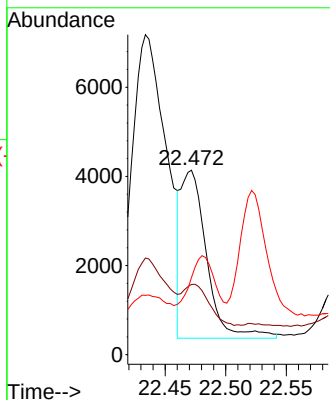
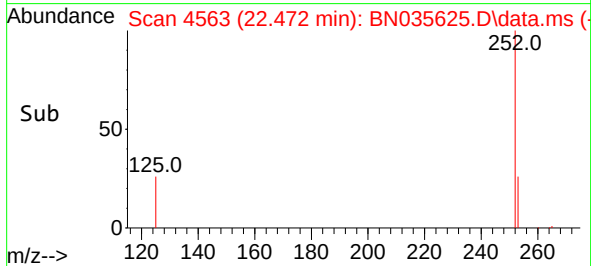
Instrument :  
BNA\_N  
ClientSampleId :  
E28T0



Tgt Ion:252 Resp: 555  
Ion Ratio Lower Upper  
252 100  
253 38.1 22.1 33.1  
125 41.8 15.3 22.9

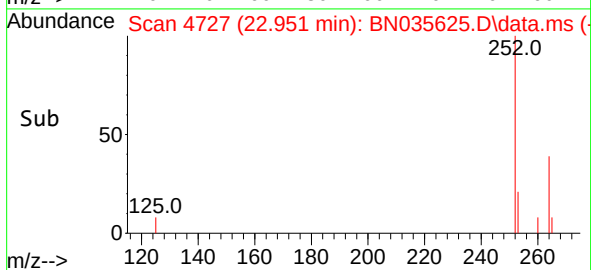
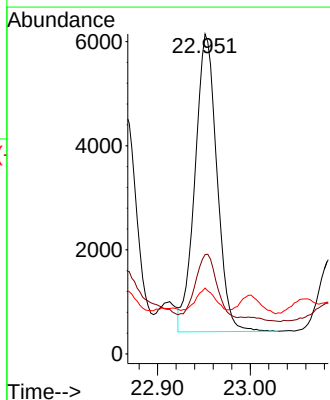
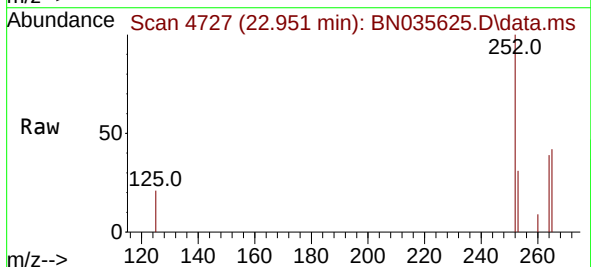
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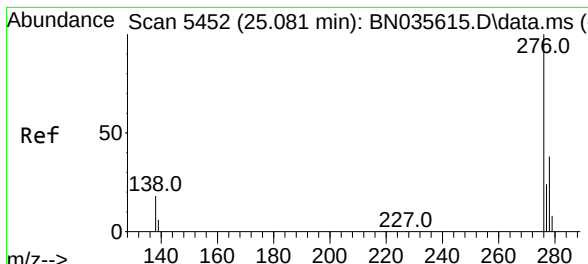
Reviewed By :Yogesh Patel 12/18/2024  
Supervised By :mohammad ahmed 12/21/2024



#26  
Benzo(a)pyrene  
Concen: 0.347 ng/ul  
RT: 22.951 min Scan# 4727  
Delta R.T. -0.012 min  
Lab File: BN035625.D  
Acq: 16 Dec 2024 20:00

Tgt Ion:252 Resp: 9403  
Ion Ratio Lower Upper  
252 100  
253 31.1 24.1 36.1  
125 20.6 19.1 28.7





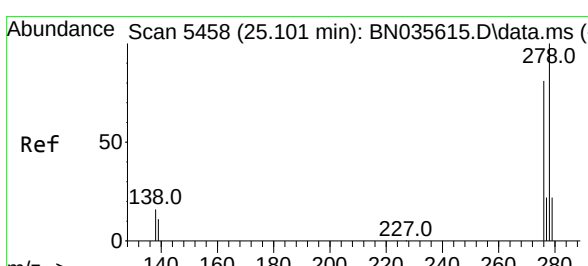
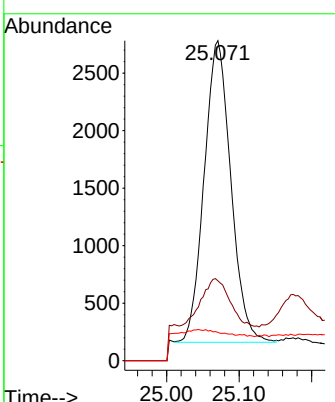
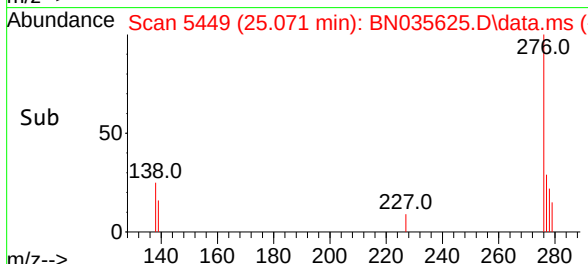
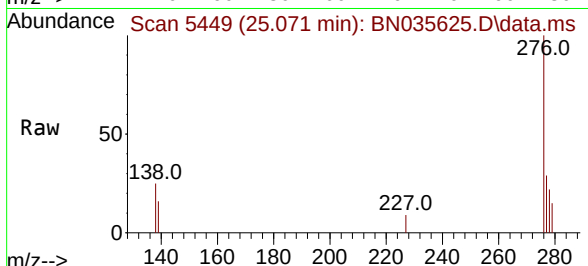
#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.203 ng/ul m  
 RT: 25.071 min Scan# 5451  
 Delta R.T. -0.010 min  
 Lab File: BN035625.D  
 Acq: 16 Dec 2024 20:00

Instrument :  
 BNA\_N  
 ClientSampleId :  
 E28T0

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 671  |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 9.9   | 14.7  | 22.1 |
| 227       | 0.0   | 21.6  | 32.4 |

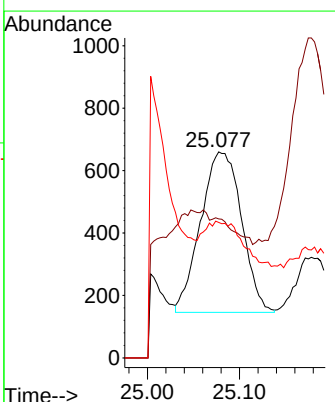
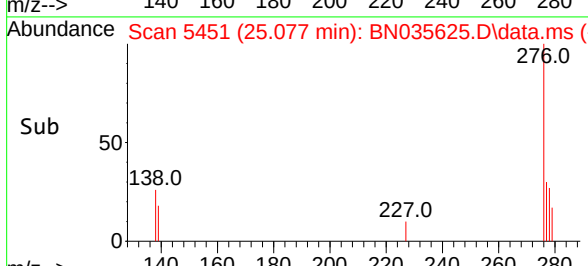
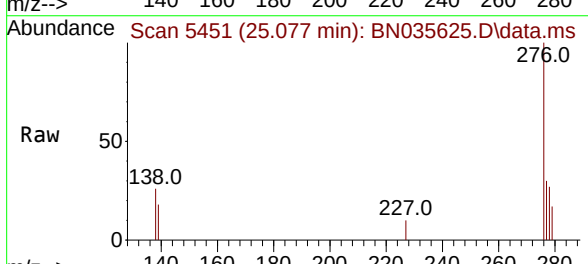
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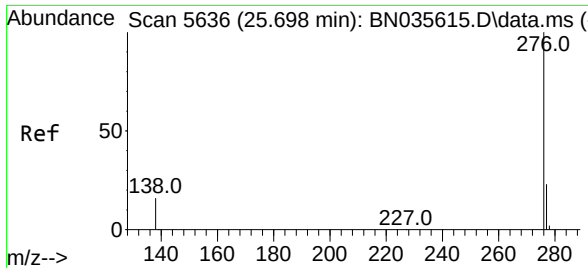
Reviewed By :Yogesh Patel 12/18/2024  
 Supervised By :mohammad ahmed 12/21/2024



#28  
 Dibenzo(a,h)anthracene  
 Concen: 0.063 ng/ul m  
 RT: 25.077 min Scan# 5451  
 Delta R.T. -0.024 min  
 Lab File: BN035625.D  
 Acq: 16 Dec 2024 20:00

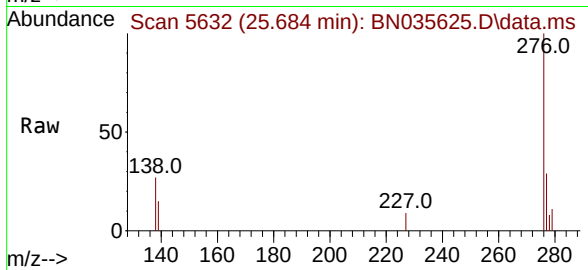
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 1586 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 67.4  | 19.8  | 29.8 |
| 279       | 65.8  | 24.0  | 36.0 |





#29  
 Benzo(g,h,i)perylene  
 Concen: 0.263 ng/ul  
 RT: 25.684 min Scan# 50  
 Delta R.T. -0.013 min  
 Lab File: BN035625.D  
 Acq: 16 Dec 2024 20:00

Instrument :  
 BNA\_N  
 ClientSampleId :  
 E28T0



Tgt Ion: 276 Resp: 6974

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 27.3  | 19.6  | 29.4  |
| 277 | 29.4  | 21.6  | 32.4  |

Manual Integrations  
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Reviewed By :Yogesh Patel 12/18/2024  
 Supervised By :mohammad ahmed 12/21/2024

