

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112224\  
 Data File : BN035242.D  
 Acq On : 22 Nov 2024 15:22  
 Operator : RC/JU  
 Sample : P4872-22  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 E29Y9

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 11/26/2024  
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 22 15:56:59 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN111624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 22 12:45:23 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.318  | 152  | 3122     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.069 | 136  | 8322     | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 13.981 | 164  | 5275     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.747 | 188  | 11579    | 0.400 | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 20.993 | 240  | 7764     | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.097 | 264  | 6218m    | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 2.972  | 96   | 7955     | 2.788 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.670 | 152  | 2148     | 0.176 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.800 | 212  | 5866     | 0.274 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 10) Acenaphthylene          | 13.694 | 152  | 1604     | 0.077 | ng/ul# | 88       |
| 12) Fluorene                | 15.045 | 166  | 446      | 0.024 | ng/ul# | 91       |
| 15) Phenanthrene            | 16.789 | 178  | 5799     | 0.189 | ng/ul  | 97       |
| 16) Anthracene              | 16.882 | 178  | 1558     | 0.055 | ng/ul# | 87       |
| 19) Fluoranthene            | 18.833 | 202  | 12492    | 0.462 | ng/ul# | 94       |
| 20) Pyrene                  | 19.200 | 202  | 10805m   | 0.384 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 20.976 | 228  | 5333m    | 0.198 | ng/ul  |          |
| 22) Chrysene                | 21.028 | 228  | 5573     | 0.206 | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 22.481 | 252  | 7529m    | 0.366 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.519 | 252  | 2795m    | 0.132 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.007 | 252  | 5565m    | 0.296 | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.148 | 276  | 3853m    | 0.152 | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 25.155 | 278  | 968m     | 0.049 | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 25.765 | 276  | 3940m    | 0.197 | ng/ul  |          |
| -----                       |        |      |          |       |        |          |

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

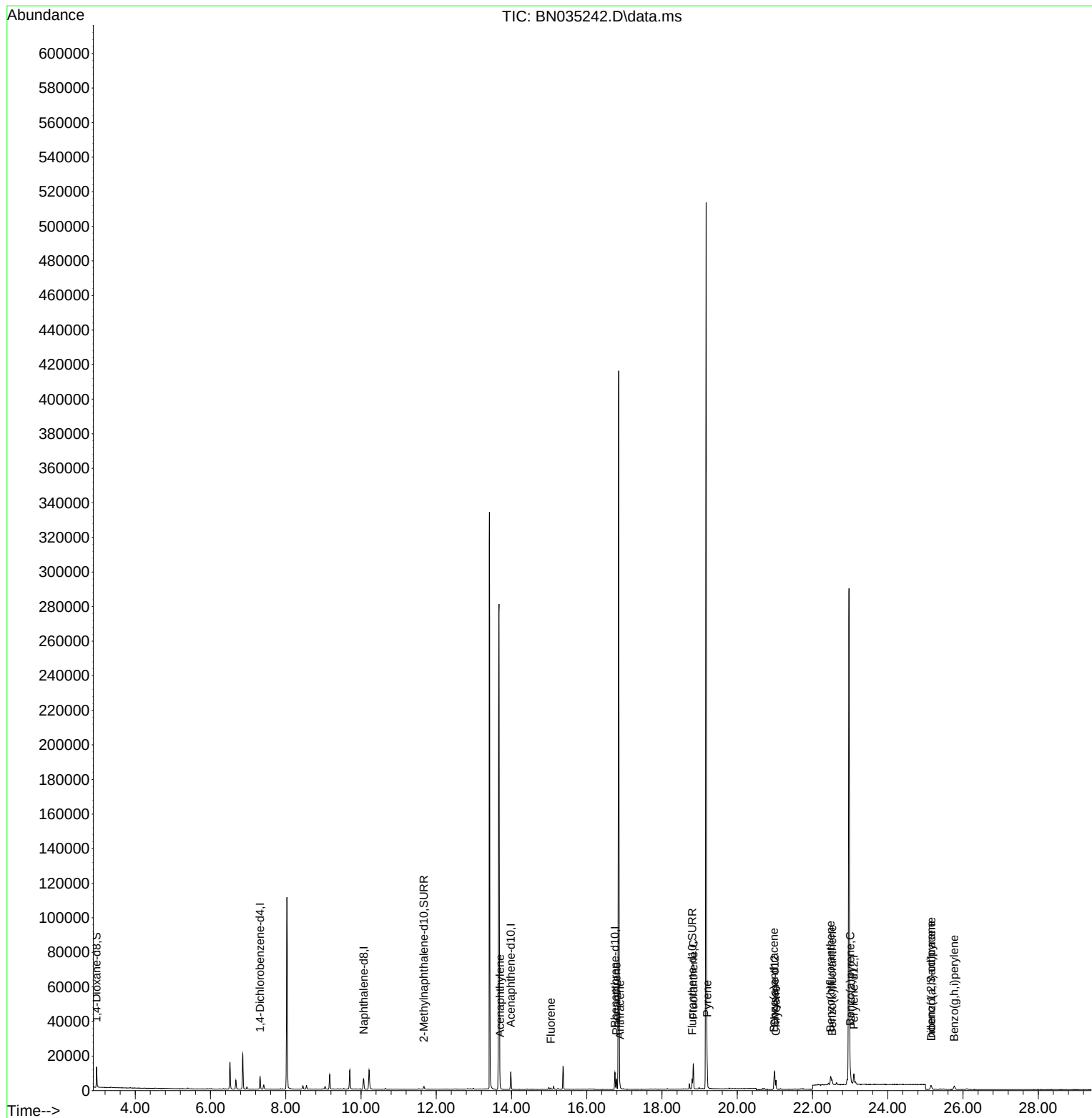
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112224\  
Data File : BN035242.D  
Acq On : 22 Nov 2024 15:22  
Operator : RC/JU  
Sample : P4872-22  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

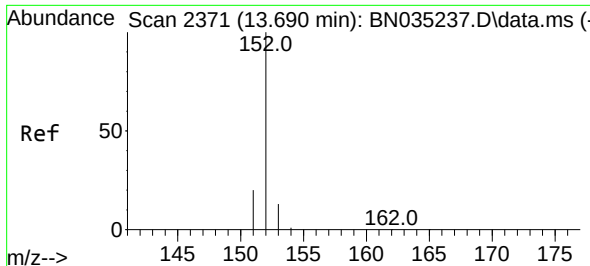
Instrument :  
BNA\_N  
ClientSampleId :  
E29Y9

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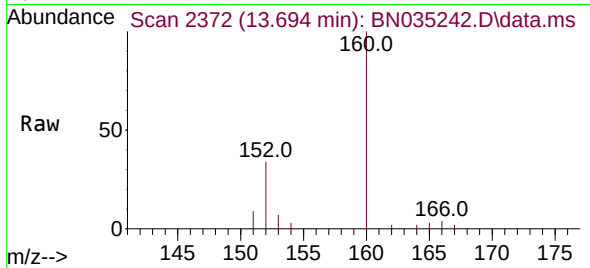
Quant Time: Nov 22 15:56:59 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN11624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 22 12:45:23 2024  
Response via : Initial Calibration





#10  
Acenaphthylene  
Concen: 0.077 ng/ul  
RT: 13.694 min Scan# 21  
Delta R.T. 0.005 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22

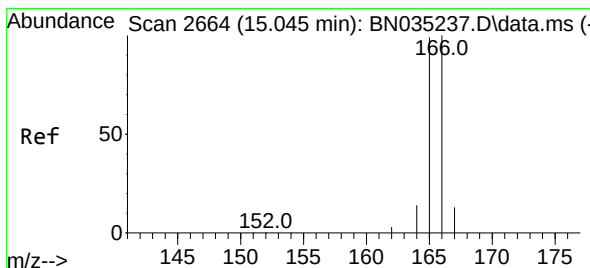
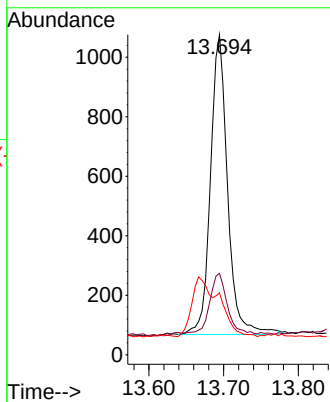
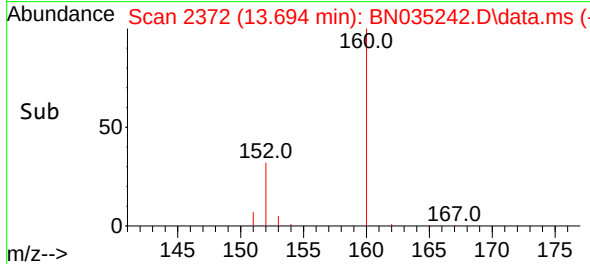
Instrument :  
BNA\_N  
ClientSampleId :  
E29Y9



Tgt Ion:152 Resp: 1604  
Ion Ratio Lower Upper  
152 100  
151 25.5 16.4 24.6  
153 19.3 11.1 16.7

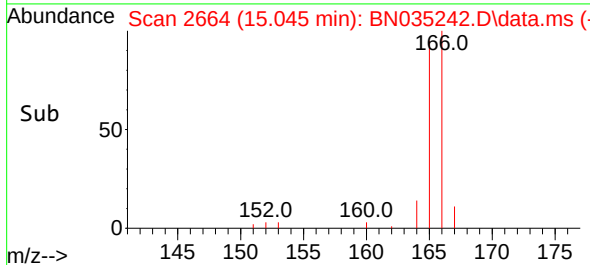
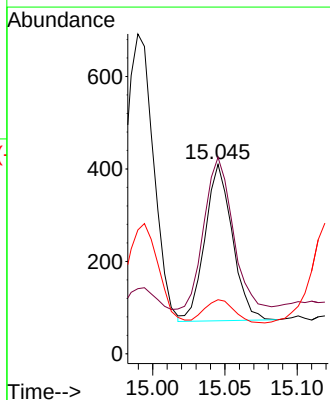
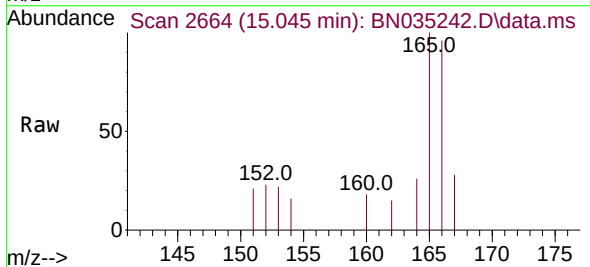
Manual Integrations  
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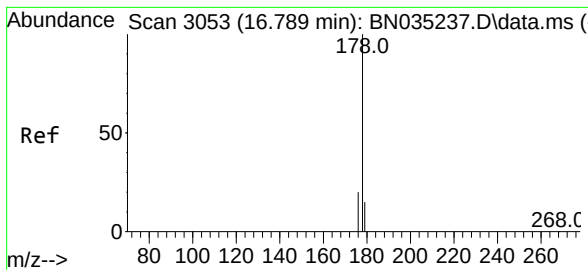
Reviewed By :Jagrut Upadhyay 11/26/2024  
Supervised By :mohammad ahmed 11/27/2024



#12  
Fluorene  
Concen: 0.024 ng/ul  
RT: 15.045 min Scan# 2664  
Delta R.T. 0.000 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22

Tgt Ion:166 Resp: 446  
Ion Ratio Lower Upper  
166 100  
165 103.7 78.6 118.0  
167 28.5 11.8 17.6





#15

Phenanthrene

Concen: 0.189 ng/ul

RT: 16.789 min Scan# 3053

Delta R.T. 0.000 min

Lab File: BN035242.D

Acq: 22 Nov 2024 15:22

Instrument :

BNA\_N

ClientSampleId :

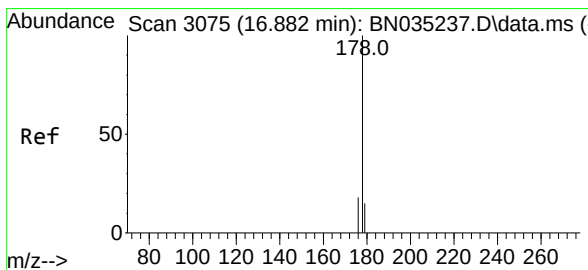
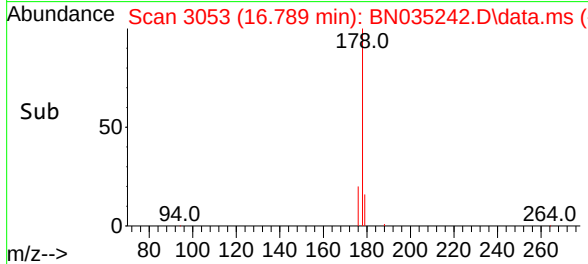
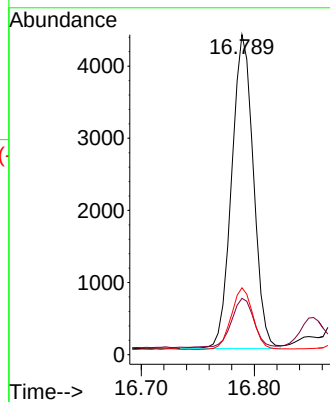
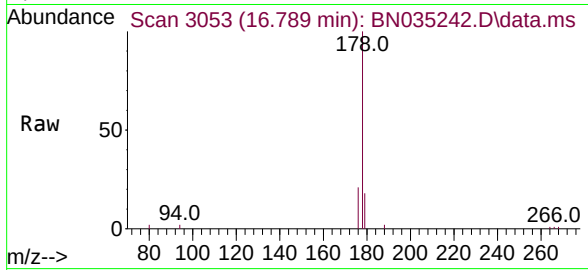
E29Y9

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 5799 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 17.6  | 12.9  | 19.3 |
| 176       | 20.9  | 15.6  | 23.4 |

Manual Integrations

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#16

Anthracene

Concen: 0.055 ng/ul

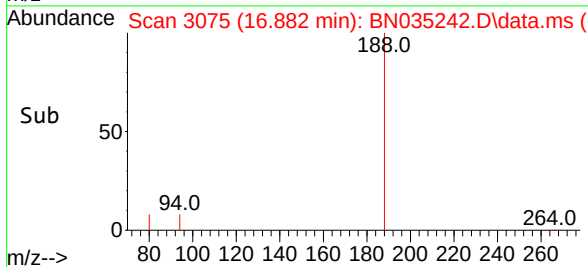
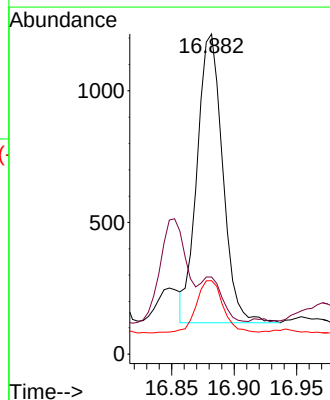
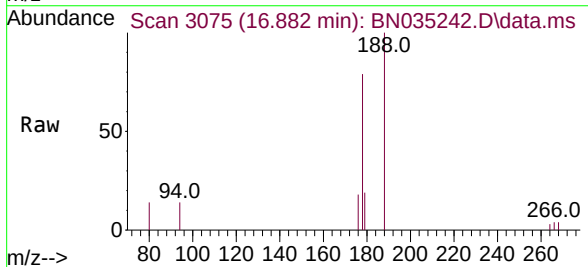
RT: 16.882 min Scan# 3075

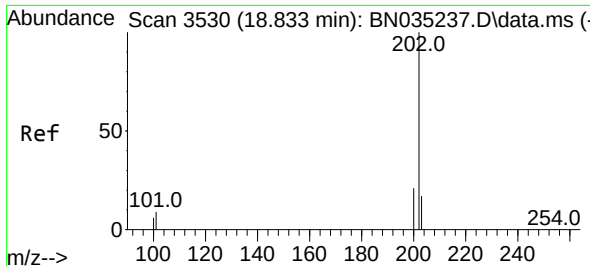
Delta R.T. 0.000 min

Lab File: BN035242.D

Acq: 22 Nov 2024 15:22

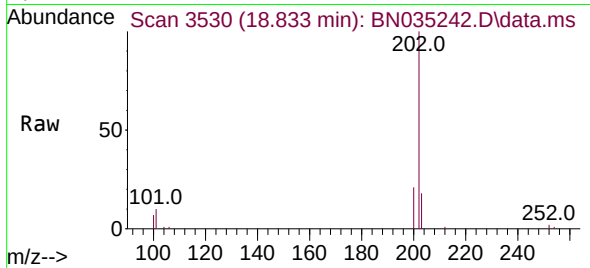
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 1558 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 24.1  | 12.9  | 19.3 |
| 176       | 22.9  | 15.4  | 23.2 |





#19  
Fluoranthene  
Concen: 0.462 ng/u1  
RT: 18.833 min Scan# 3099  
Delta R.T. 0.000 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22

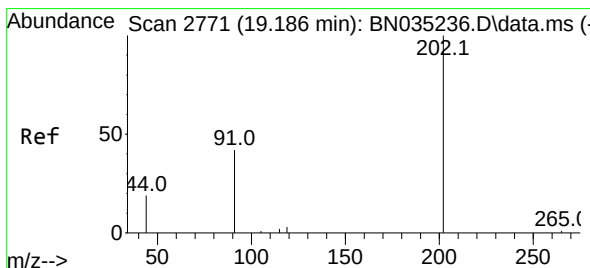
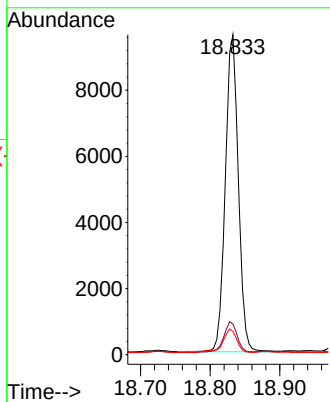
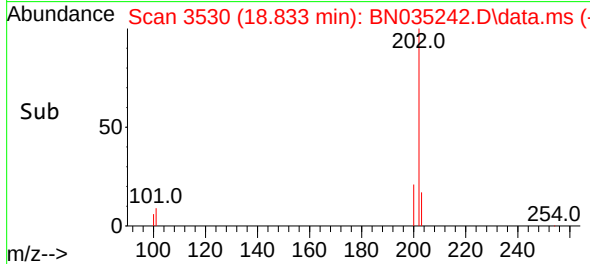
Instrument :  
BNA\_N  
ClientSampleId :  
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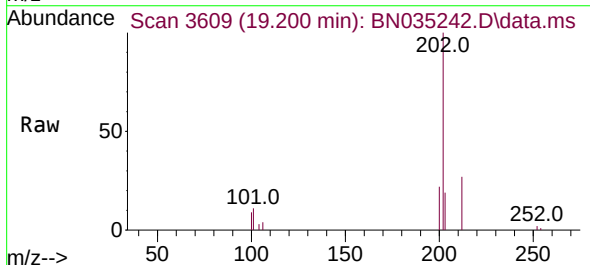
Tgt Ion:202 Resp: 12492  
Ion Ratio Lower Upper  
202 100  
101 9.5 5.8 8.6#  
100 7.2 4.5 6.7#

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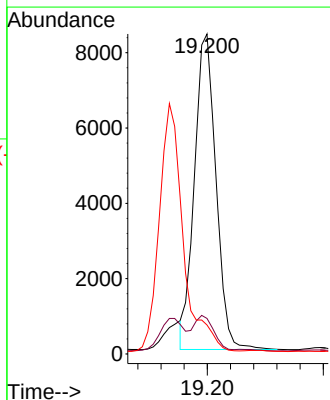
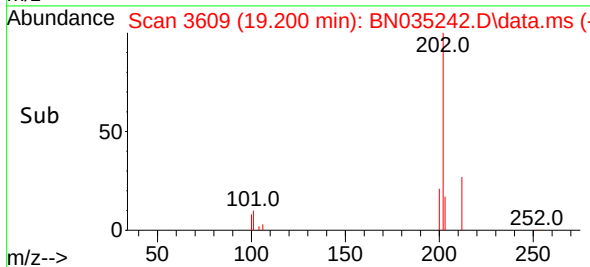
Reviewed By :Jagrut Upadhyay 11/26/2024  
Supervised By :mohammad ahmed 11/27/2024

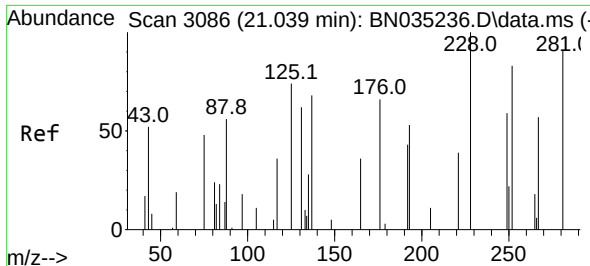


#20  
Pyrene  
Concen: 0.384 ng/u1 m  
RT: 19.200 min Scan# 3609  
Delta R.T. 0.000 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22



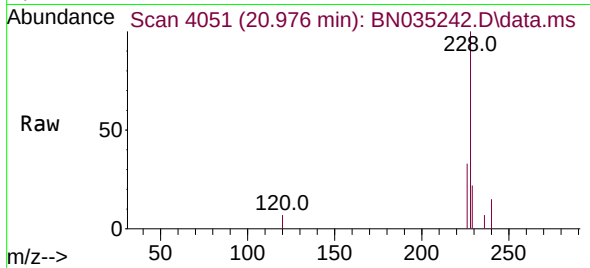
Tgt Ion:202 Resp: 10805  
Ion Ratio Lower Upper  
202 100  
101 11.1 6.2 9.4#  
100 9.0 5.1 7.7#





#21  
Benzo(a)anthracene  
Concen: 0.198 ng/ul m  
RT: 20.976 min Scan# 4051  
Delta R.T. -0.003 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22

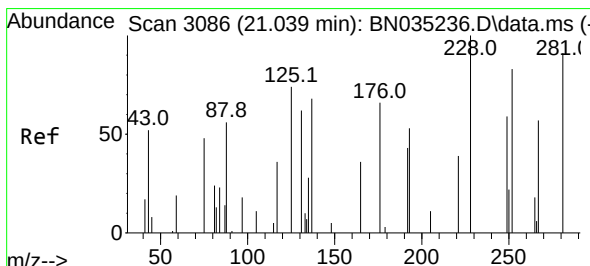
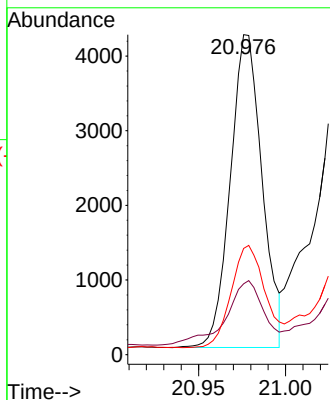
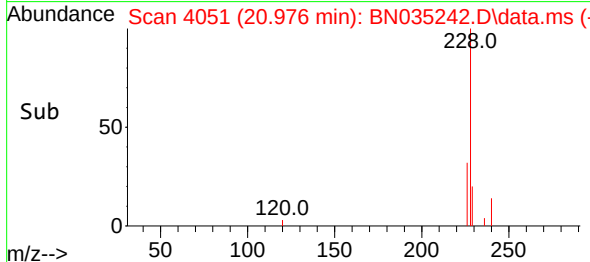
Instrument :  
BNA\_N  
ClientSampleId :  
E29Y9



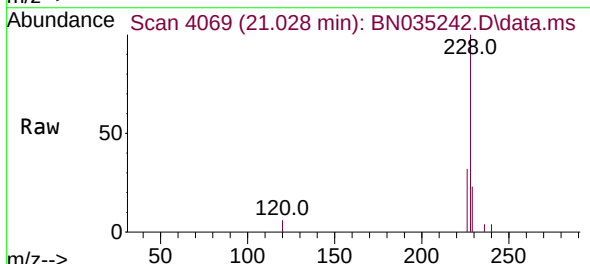
Tgt Ion:228 Resp: 533  
Ion Ratio Lower Upper  
228 100  
229 22.1 15.8 23.8  
226 33.2 21.8 32.8

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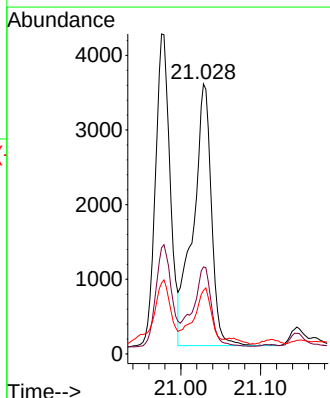
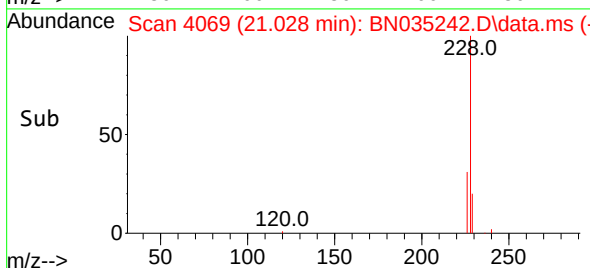
Reviewed By :Jagrut Upadhyay 11/26/2024  
Supervised By :mohammad ahmed 11/27/2024

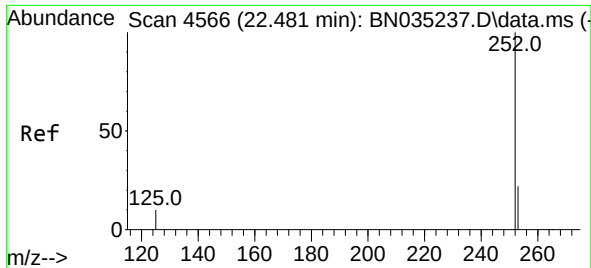


#22  
Chrysene  
Concen: 0.206 ng/ul  
RT: 21.028 min Scan# 4069  
Delta R.T. 0.000 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22



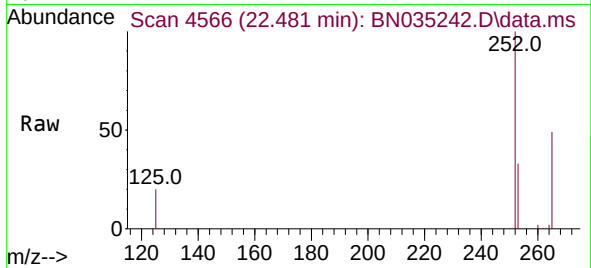
Tgt Ion:228 Resp: 5573  
Ion Ratio Lower Upper  
228 100  
226 32.2 24.7 37.1  
229 23.5 16.0 24.0





#24  
Benzo(b)fluoranthene  
Concen: 0.366 ng/ul m  
RT: 22.481 min Scan# 4566  
Delta R.T. 0.000 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22

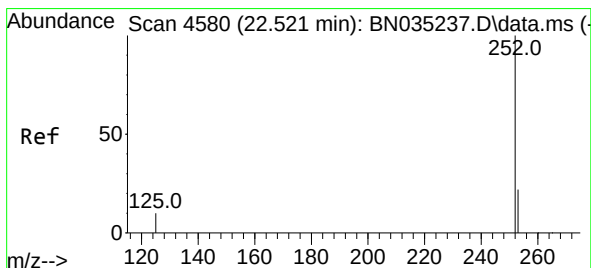
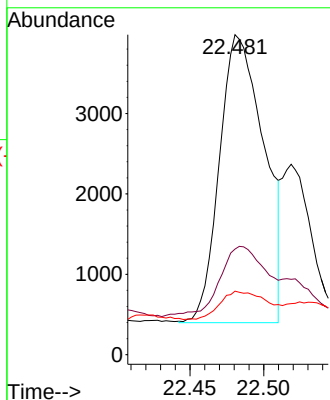
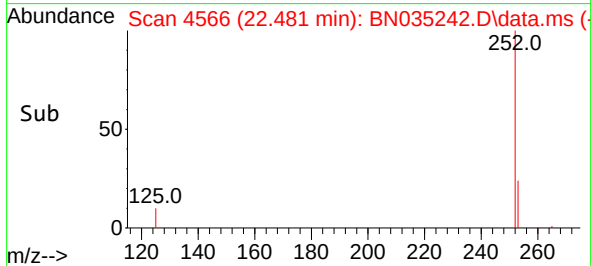
Instrument :  
BNA\_N  
ClientSampleId :  
E29Y9



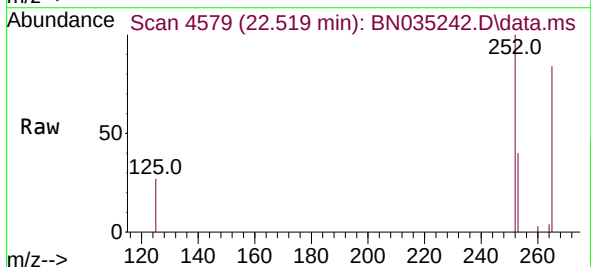
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Ion Ratio Lower Upper  
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253 33.0 0.0 54.0  
125 19.8 0.0 19.4

Manual Integrations  
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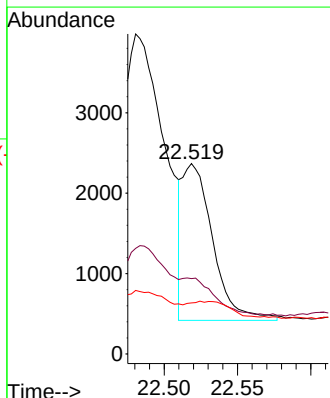
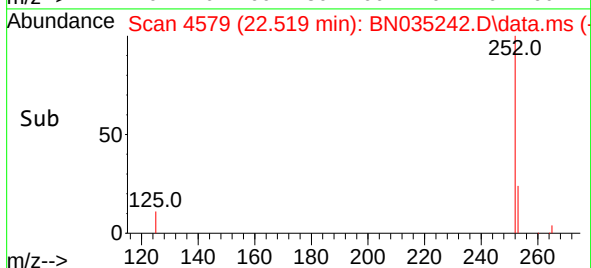
Reviewed By :Jagrut Upadhyay 11/26/2024  
Supervised By :mohammad ahmed 11/27/2024

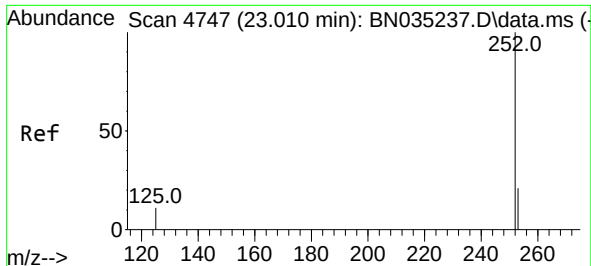


#25  
Benzo(k)fluoranthene  
Concen: 0.132 ng/ul m  
RT: 22.519 min Scan# 4579  
Delta R.T. -0.003 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22



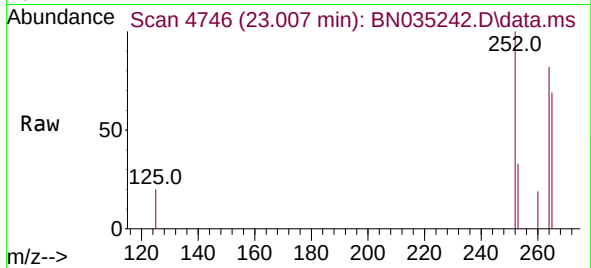
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Ion Ratio Lower Upper  
252 100  
253 39.6 21.8 32.6#  
125 26.8 8.6 12.8#





#26  
Benzo(a)pyrene  
Concen: 0.296 ng/ul m  
RT: 23.007 min Scan# 4746  
Delta R.T. -0.003 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22

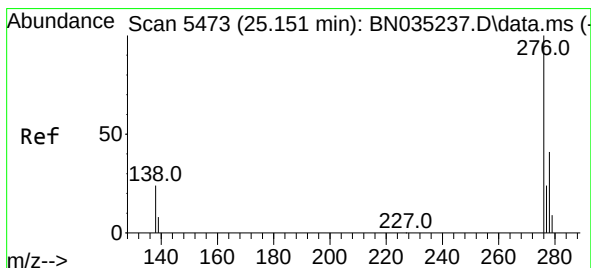
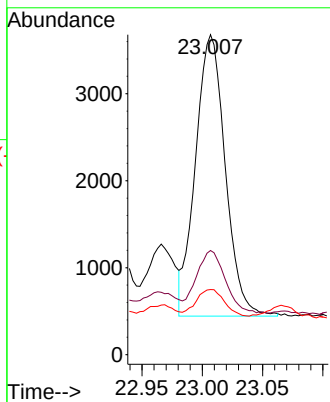
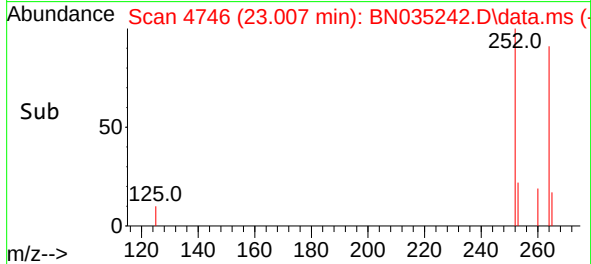
Instrument :  
BNA\_N  
ClientSampleId :  
E29Y9



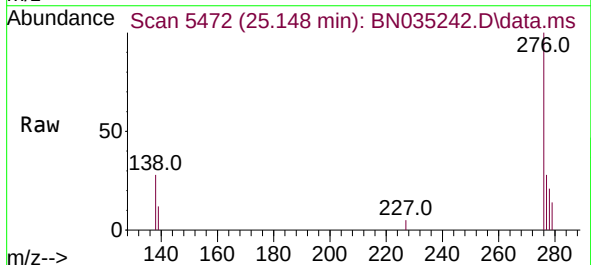
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Ion Ratio Lower Upper  
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253 32.5 22.9 34.3  
125 20.4 9.4 14.2

Manual Integrations  
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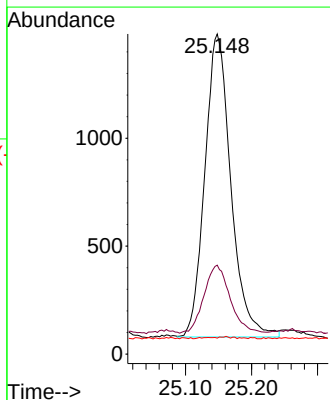
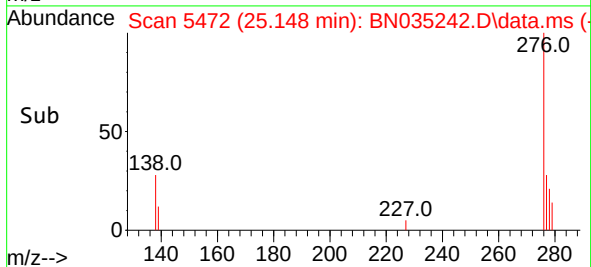
Reviewed By :Jagrut Upadhyay 11/26/2024  
Supervised By :mohammad ahmed 11/27/2024



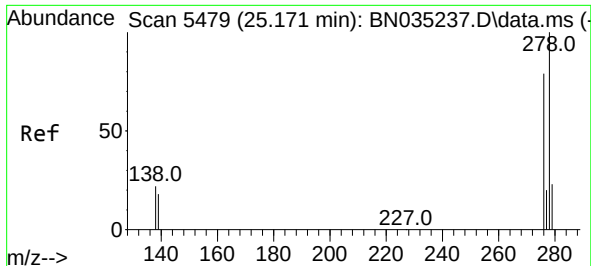
#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.152 ng/ul m  
RT: 25.148 min Scan# 5472  
Delta R.T. -0.003 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22



Tgt Ion:276 Resp: 3853  
Ion Ratio Lower Upper  
276 100  
138 0.0 13.8 20.8#  
227 0.0 0.2 0.4#

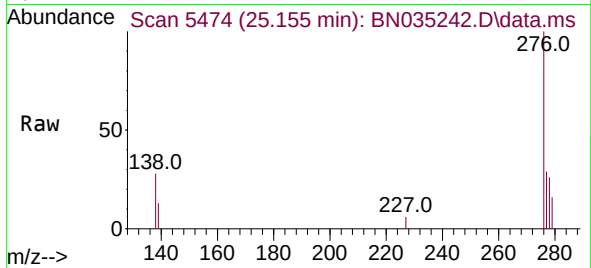






#28  
Dibenzo(a,h)anthracene  
Concen: 0.049 ng/ul m  
RT: 25.155 min Scan# 5479  
Delta R.T. -0.017 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22

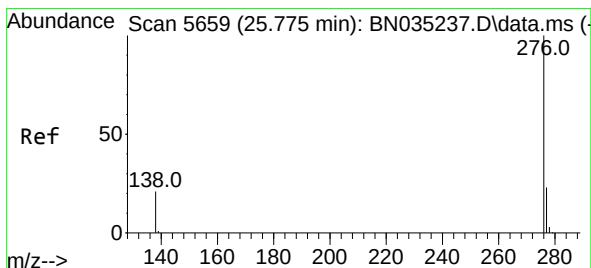
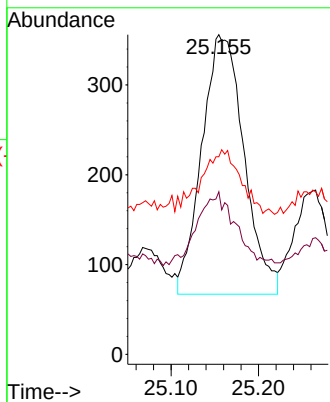
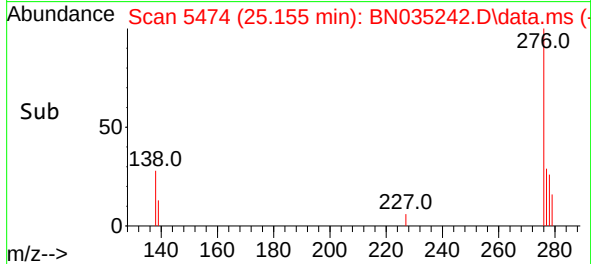
Instrument :  
BNA\_N  
ClientSampleId :  
E29Y9



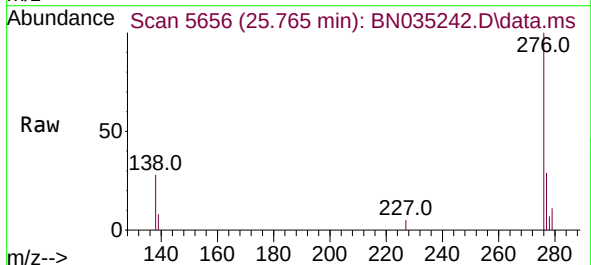
Tgt Ion:278 Resp: 968  
Ion Ratio Lower Upper  
278 100  
139 50.8 10.7 16.1  
279 61.8 22.8 34.2

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 11/26/2024  
Supervised By :mohammad ahmed 11/27/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.197 ng/ul m  
RT: 25.765 min Scan# 5656  
Delta R.T. -0.010 min  
Lab File: BN035242.D  
Acq: 22 Nov 2024 15:22



Tgt Ion:276 Resp: 3940  
Ion Ratio Lower Upper  
276 100  
138 28.1 13.0 19.6  
277 28.8 20.5 30.7

