

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
 Data File : BN033164.D  
 Acq On : 01 Aug 2024 11:56  
 Operator : MA/JU  
 Sample : P3265-09DL 5X  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4D42DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/02/2024  
 Supervised By :mohammad ahmed 08/13/2024

Quant Time: Aug 01 12:26:10 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 30 14:49:49 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.490  | 152  | 2586m    | 0.400 | ng/ul  | -0.06    |
| 4) Naphthalene-d8           | 10.262 | 136  | 7618     | 0.400 | ng/ul  | -0.05    |
| 9) Acenaphthene-d10         | 14.134 | 164  | 4514     | 0.400 | ng/ul  | -0.03    |
| 13) Phenanthrene-d10        | 16.907 | 188  | 9379     | 0.400 | ng/ul  | -0.03    |
| 17) Chrysene-d12            | 21.139 | 240  | 7918     | 0.400 | ng/ul  | -0.01    |
| 23) Perylene-d12            | 23.320 | 264  | 8059m    | 0.400 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.052  | 96   | 2547     | 0.779 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.890 | 152  | 569      | 0.046 | ng/ul  | -0.04    |
| 18) Fluoranthene-d10        | 18.953 | 212  | 1327     | 0.059 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 10) Acenaphthylene          | 13.856 | 152  | 381      | 0.021 | ng/ul# | 43       |
| 11) Acenaphthene            | 14.199 | 153  | 448      | 0.032 | ng/ul# | 93       |
| 12) Fluorene                | 15.207 | 166  | 535      | 0.033 | ng/ul# | 92       |
| 15) Phenanthrene            | 16.945 | 178  | 8669     | 0.345 | ng/ul  | 98       |
| 16) Anthracene              | 17.042 | 178  | 2133     | 0.094 | ng/ul# | 85       |
| 19) Fluoranthene            | 18.981 | 202  | 12557    | 0.482 | ng/ul  | 99       |
| 20) Pyrene                  | 19.344 | 202  | 12377    | 0.443 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.125 | 228  | 5012m    | 0.186 | ng/ul  |          |
| 22) Chrysene                | 21.177 | 228  | 5176     | 0.164 | ng/ul  | 95       |
| 24) Benzo(b)fluoranthene    | 22.673 | 252  | 6684m    | 0.284 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.706 | 252  | 3247m    | 0.115 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.226 | 252  | 4629     | 0.209 | ng/ul# | 81       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.544 | 276  | 2902     | 0.086 | ng/ul# | 87       |
| 28) Dibenzo(a,h)anthracene  | 25.527 | 278  | 664      | 0.025 | ng/ul# | 1        |
| 29) Benzo(g,h,i)perylene    | 26.214 | 276  | 2962     | 0.111 | ng/ul# | 83       |
| -----                       |        |      |          |       |        |          |

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

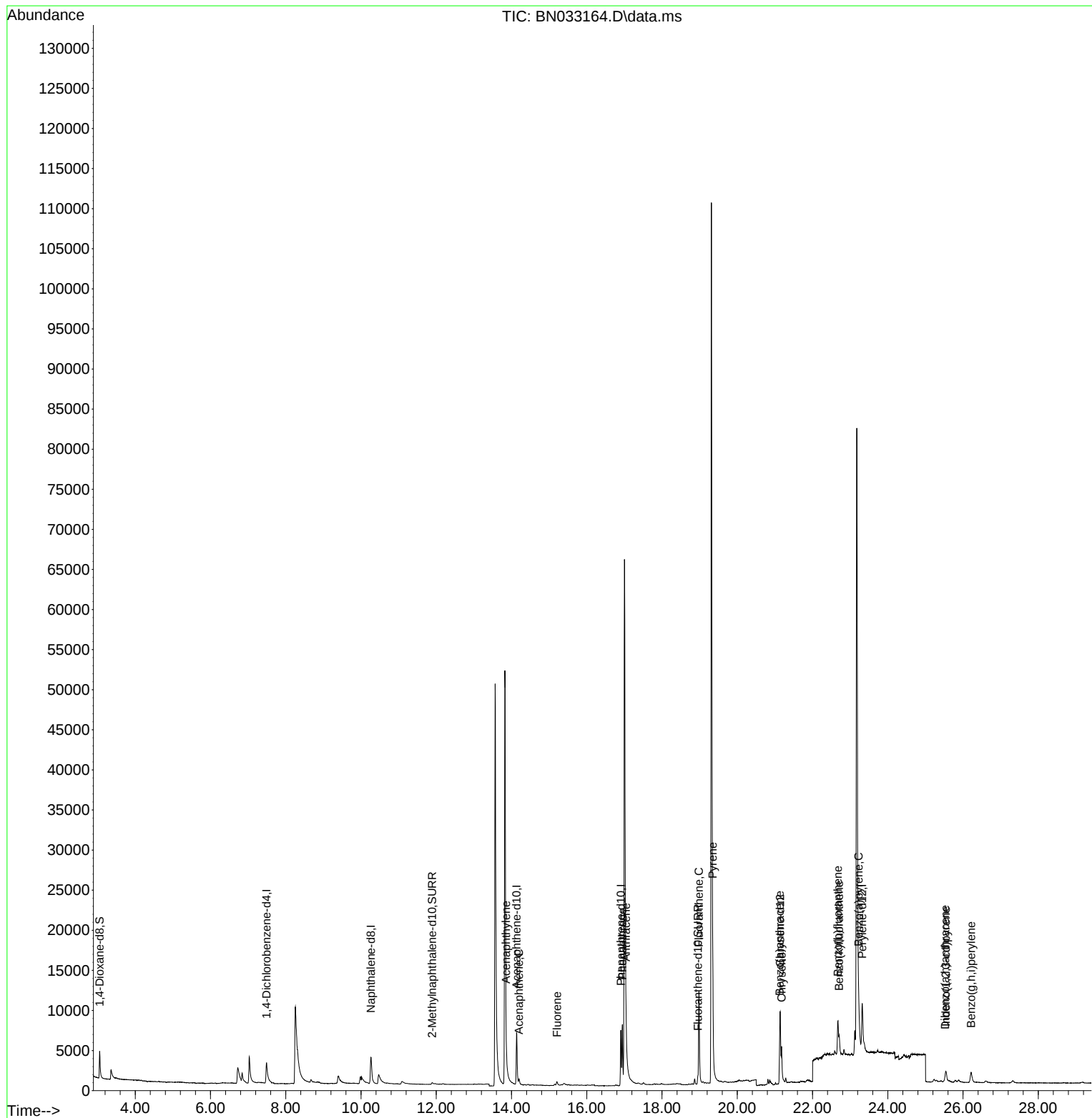
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080124\  
Data File : BN033164.D  
Acq On : 01 Aug 2024 11:56  
Operator : MA/JU  
Sample : P3265-09DL 5X  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

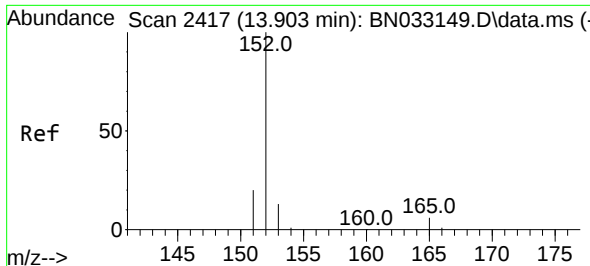
Instrument :  
BNA\_N  
ClientSampleId :  
A4D42DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/02/2024  
Supervised By :mohammad ahmed 08/13/2024

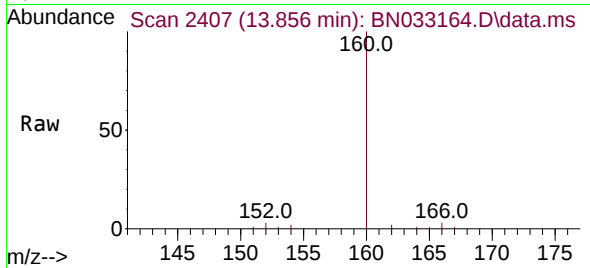
Quant Time: Aug 01 12:26:10 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN072524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 14:49:49 2024  
Response via : Initial Calibration





#10  
Acenaphthylene  
Concen: 0.021 ng/u1  
RT: 13.856 min Scan# 2407  
Delta R.T. -0.042 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56

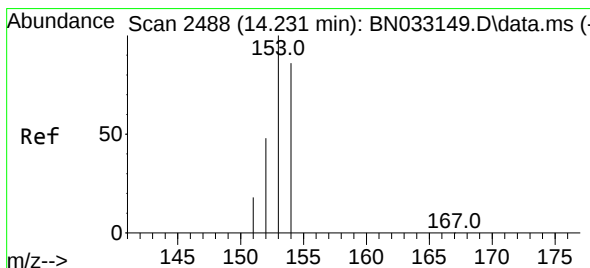
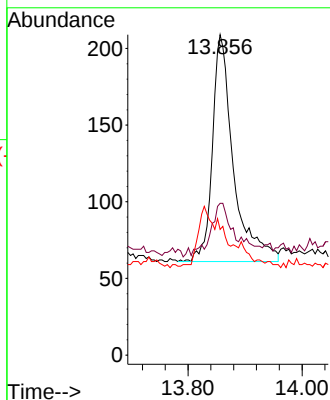
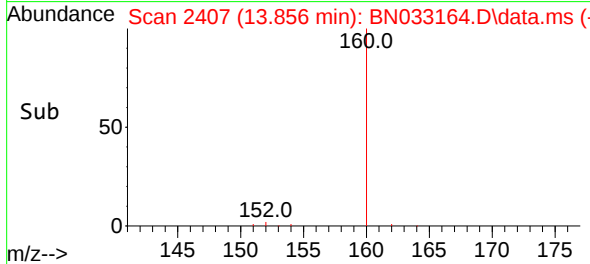
Instrument :  
BNA\_N  
ClientSampleId :  
A4D42DL



Tgt Ion:152 Resp: 38  
Ion Ratio Lower Upper  
152 100  
151 47.4 16.8 25.2  
153 39.2 11.9 17.9

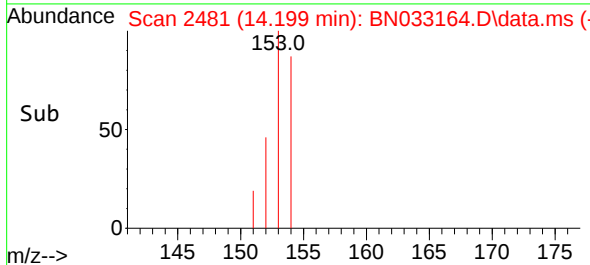
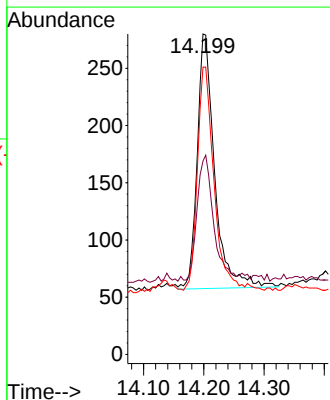
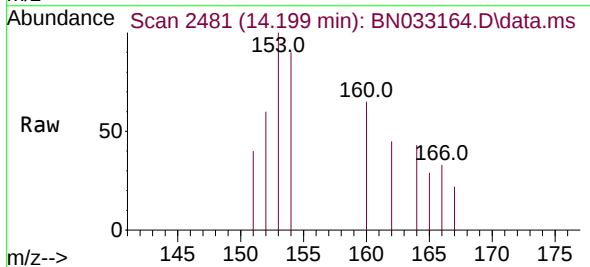
Manual Integrations  
APPROVED

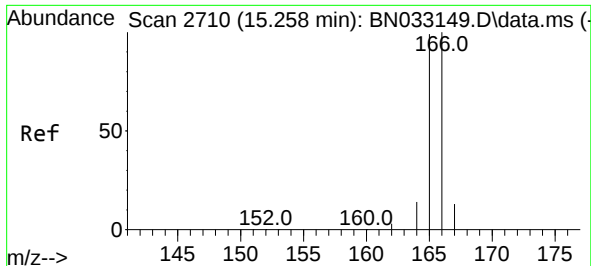
Reviewed By :Yogesh Patel 08/02/2024  
Supervised By :mohammad ahmed 08/13/2024



#11  
Acenaphthene  
Concen: 0.032 ng/u1  
RT: 14.199 min Scan# 2481  
Delta R.T. -0.028 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56

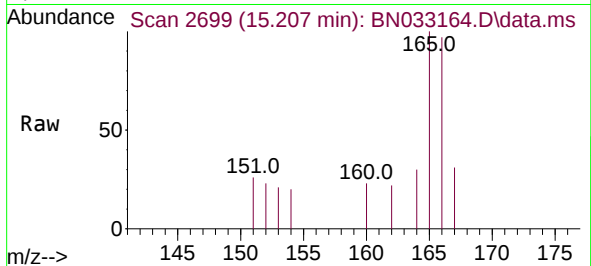
Tgt Ion:153 Resp: 448  
Ion Ratio Lower Upper  
153 100  
152 60.4 40.0 60.0#  
154 89.6 70.1 105.1





#12  
Fluorene  
Concen: 0.033 ng/ul  
RT: 15.207 min Scan# 2699  
Delta R.T. -0.042 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56

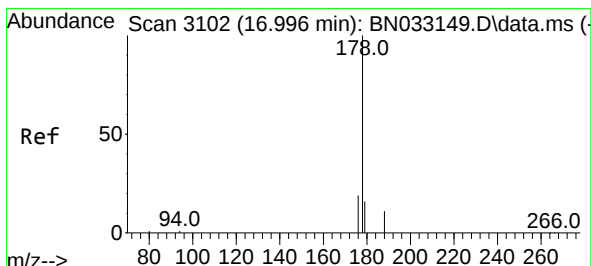
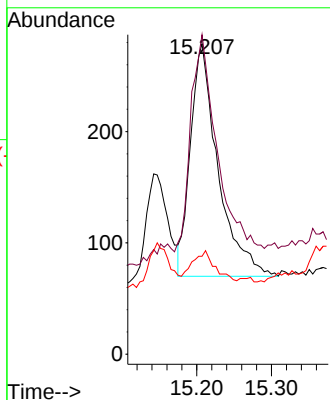
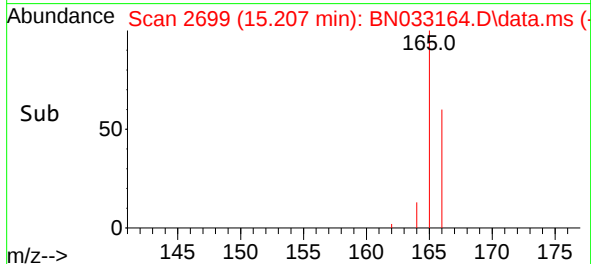
Instrument :  
BNA\_N  
ClientSampleId :  
A4D42DL



Tgt Ion:166 Resp: 539  
Ion Ratio Lower Upper  
166 100  
165 102.9 79.6 119.4  
167 31.5 12.2 18.4

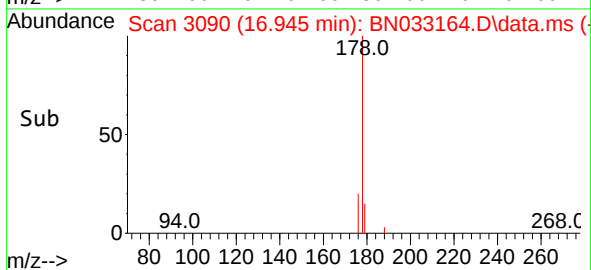
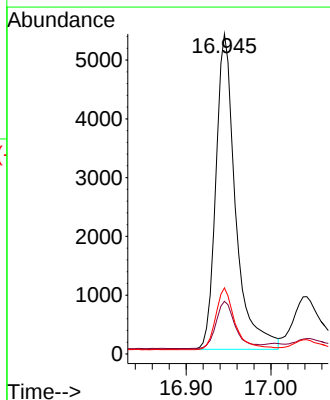
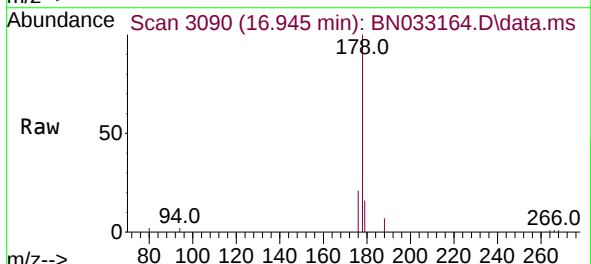
Manual Integrations  
APPROVED

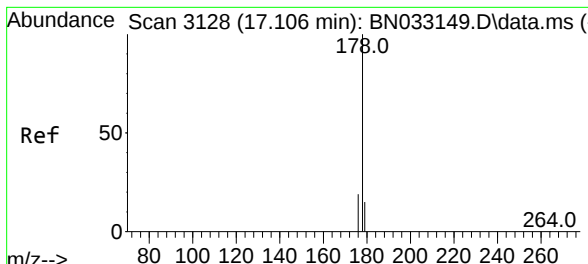
Reviewed By :Yogesh Patel 08/02/2024  
Supervised By :mohammad ahmed 08/13/2024



#15  
Phenanthrene  
Concen: 0.345 ng/ul  
RT: 16.945 min Scan# 3090  
Delta R.T. -0.038 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56

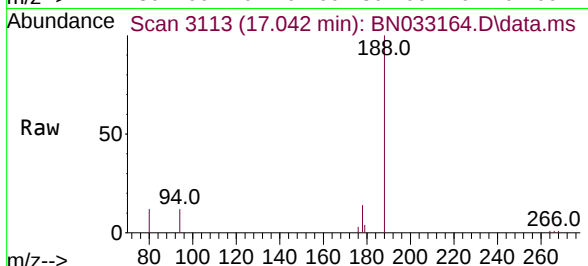
Tgt Ion:178 Resp: 8669  
Ion Ratio Lower Upper  
178 100  
179 16.4 13.7 20.5  
176 20.6 15.9 23.9





#16  
 Anthracene  
 Concen: 0.094 ng/ul  
 RT: 17.042 min Scan# 3113  
 Delta R.T. -0.046 min  
 Lab File: BN033164.D  
 Acq: 01 Aug 2024 11:56

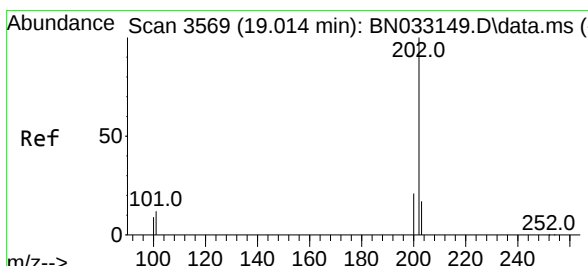
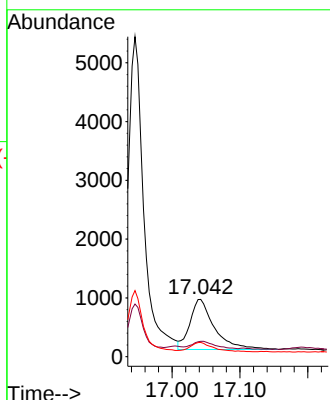
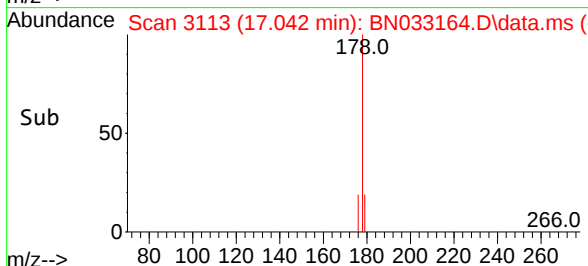
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4D42DL



Tgt Ion:178 Resp: 2138  
 Ion Ratio Lower Upper  
 178 100  
 179 26.9 14.3 21.5  
 176 24.8 15.8 23.8

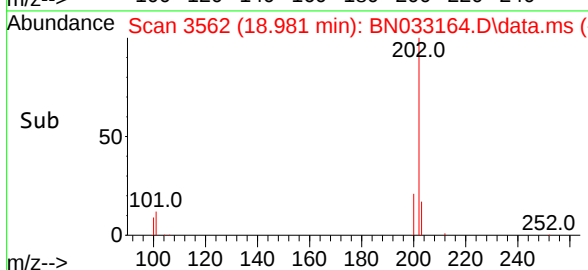
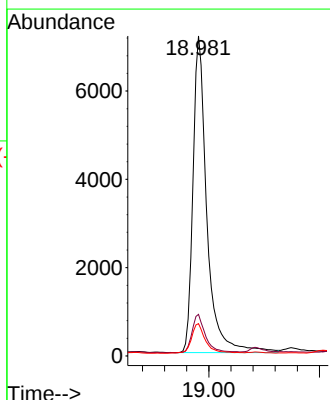
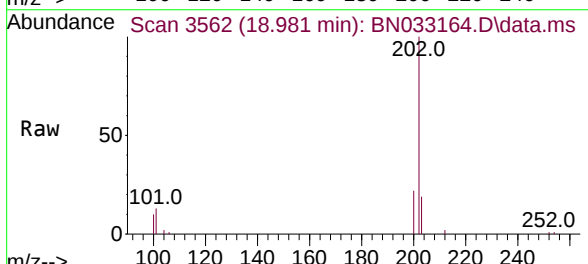
Manual Integrations  
 APPROVED

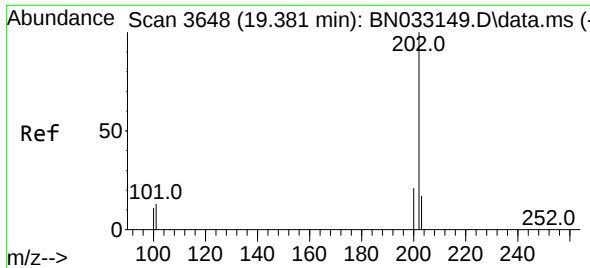
Reviewed By :Yogesh Patel 08/02/2024  
 Supervised By :mohammad ahmed 08/13/2024



#19  
 Fluoranthene  
 Concen: 0.482 ng/ul  
 RT: 18.981 min Scan# 3562  
 Delta R.T. -0.023 min  
 Lab File: BN033164.D  
 Acq: 01 Aug 2024 11:56

Tgt Ion:202 Resp: 12557  
 Ion Ratio Lower Upper  
 202 100  
 101 13.0 10.7 16.1  
 100 10.1 8.3 12.5





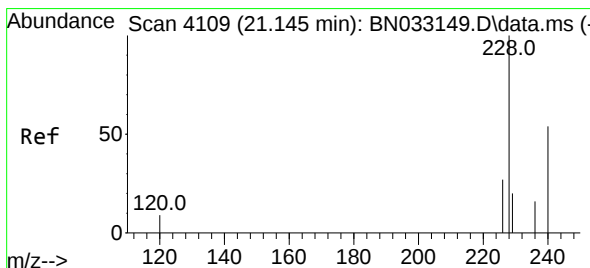
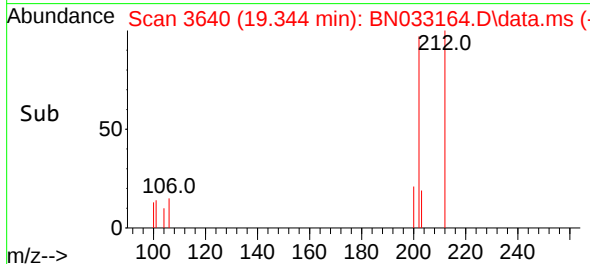
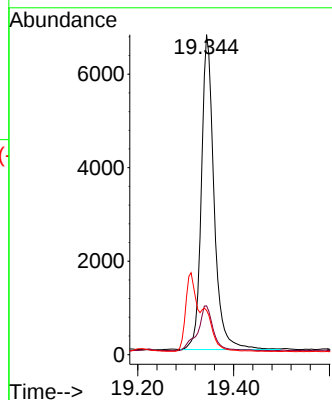
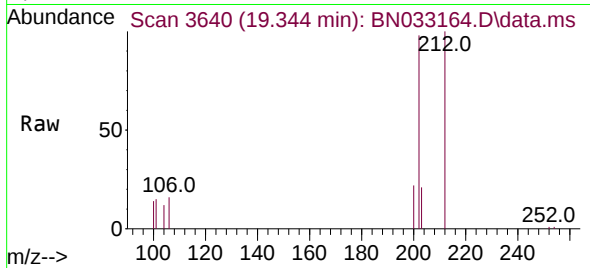
#20  
Pyrene  
Concen: 0.443 ng/ul  
RT: 19.344 min Scan# 3640  
Delta R.T. -0.028 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56

Instrument :  
BNA\_N  
ClientSampleId :  
A4D42DL

Tgt Ion:202 Resp: 1237  
Ion Ratio Lower Upper  
202 100  
101 15.2 12.6 18.8  
100 13.9 9.9 14.9

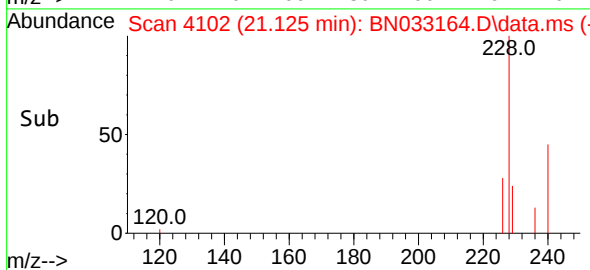
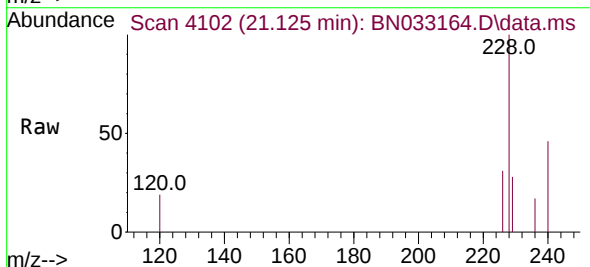
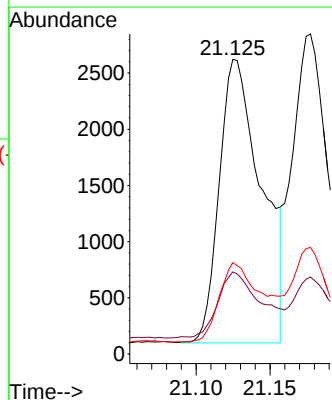
Manual Integrations  
APPROVED

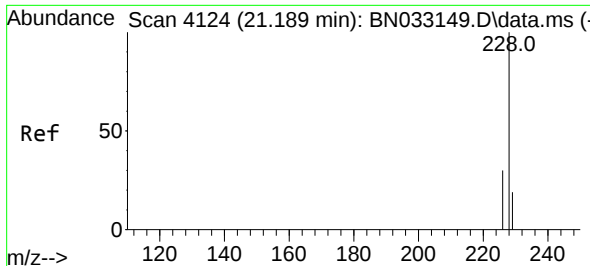
Reviewed By :Yogesh Patel 08/02/2024  
Supervised By :mohammad ahmed 08/13/2024



#21  
Benzo(a)anthracene  
Concen: 0.186 ng/ul m  
RT: 21.125 min Scan# 4102  
Delta R.T. -0.012 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56

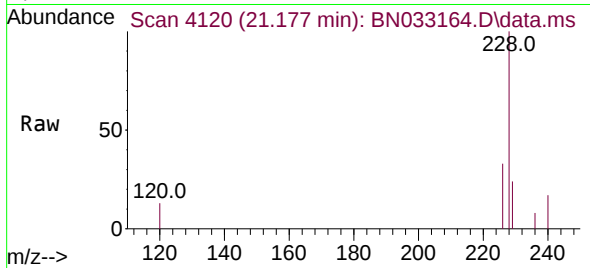
Tgt Ion:228 Resp: 5012  
Ion Ratio Lower Upper  
228 100  
229 27.9 17.1 25.7#  
226 31.1 22.4 33.6





#22  
Chrysene  
Concen: 0.164 ng/ul  
RT: 21.177 min Scan# 4124  
Delta R.T. -0.012 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56

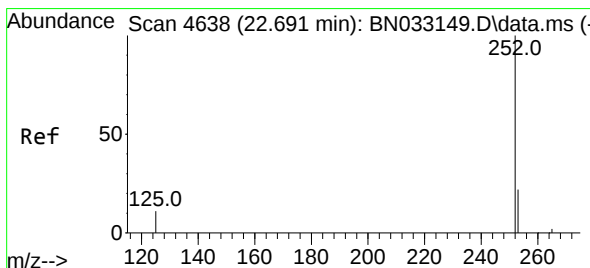
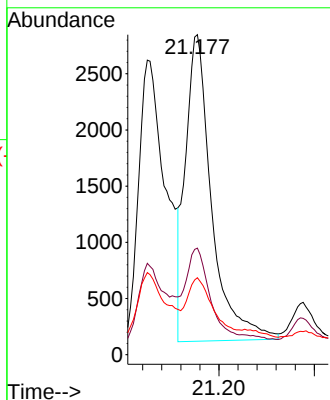
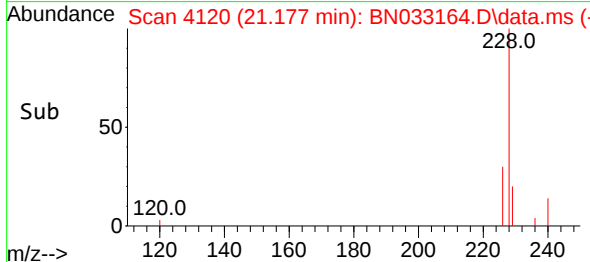
Instrument :  
BNA\_N  
ClientSampleId :  
A4D42DL



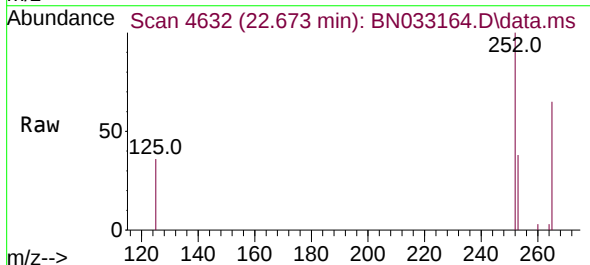
Tgt Ion:228 Resp: 5170  
Ion Ratio Lower Upper  
228 100  
226 33.3 24.7 37.1  
229 24.1 17.0 25.6

Manual Integrations  
APPROVED

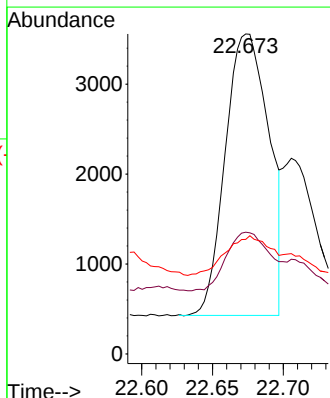
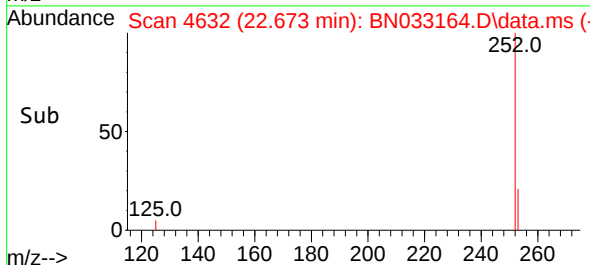
Reviewed By :Yogesh Patel 08/02/2024  
Supervised By :mohammad ahmed 08/13/2024

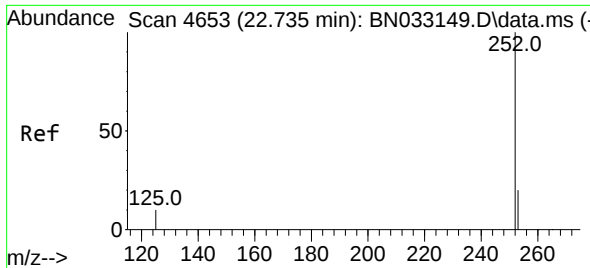


#24  
Benzo(b)fluoranthene  
Concen: 0.284 ng/ul m  
RT: 22.673 min Scan# 4632  
Delta R.T. -0.009 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56



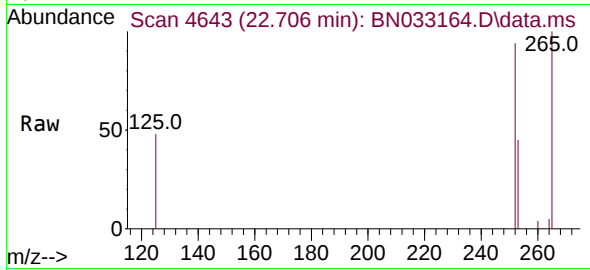
Tgt Ion:252 Resp: 6684  
Ion Ratio Lower Upper  
252 100  
253 38.0 0.0 60.6  
125 35.8 0.0 51.0





#25  
Benzo(k)fluoranthene  
Concen: 0.115 ng/ul m  
RT: 22.706 min Scan# 4643  
Delta R.T. -0.020 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56

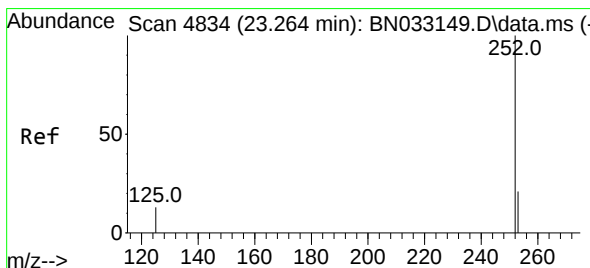
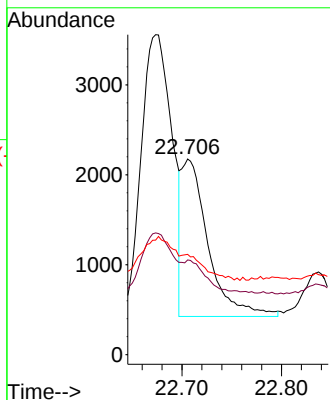
Instrument :  
BNA\_N  
ClientSampleId :  
A4D42DL



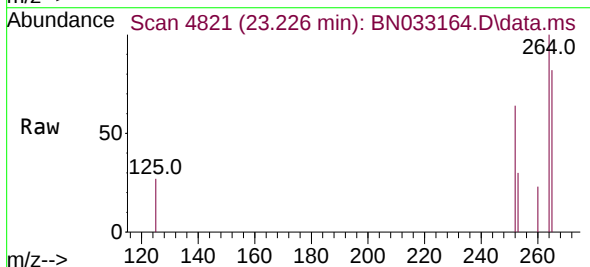
Tgt Ion:252 Resp: 324  
Ion Ratio Lower Upper  
252 100  
253 48.4 24.9 37.3#  
125 51.3 20.9 31.3#

Manual Integrations  
APPROVED

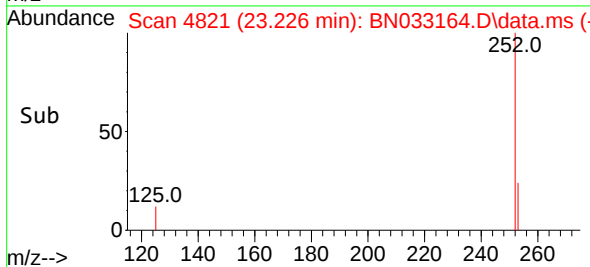
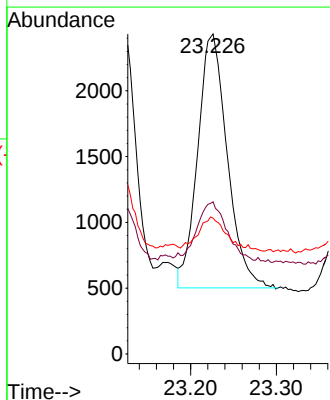
Reviewed By :Yogesh Patel 08/02/2024  
Supervised By :mohammad ahmed 08/13/2024

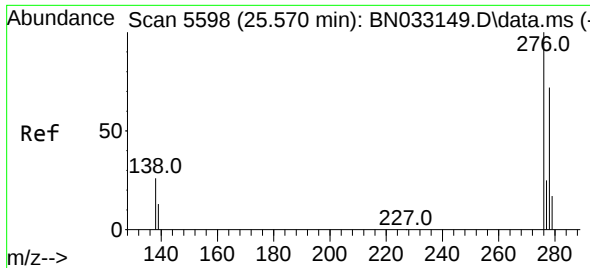


#26  
Benzo(a)pyrene  
Concen: 0.209 ng/ul  
RT: 23.226 min Scan# 4821  
Delta R.T. -0.023 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56



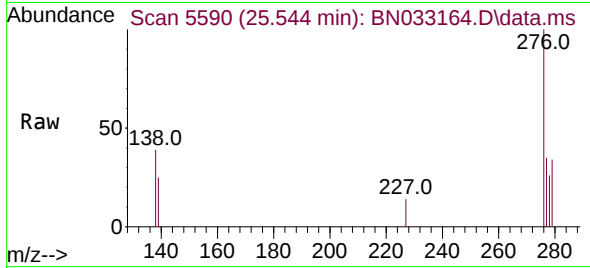
Tgt Ion:252 Resp: 4629  
Ion Ratio Lower Upper  
252 100  
253 47.6 27.5 41.3#  
125 42.5 27.0 40.6#





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.086 ng/ul  
RT: 25.544 min Scan# 5598  
Delta R.T. 0.003 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56

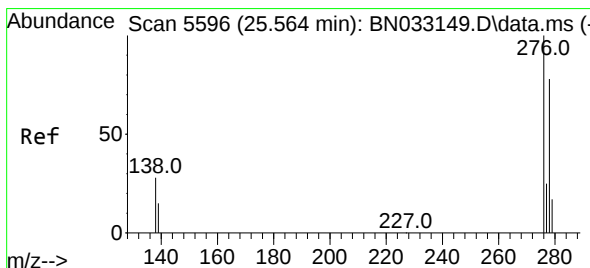
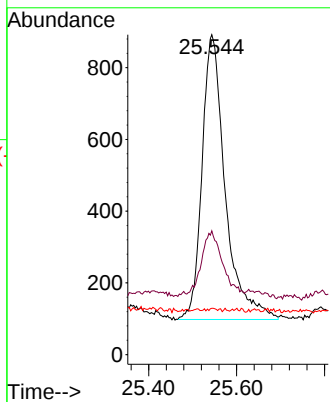
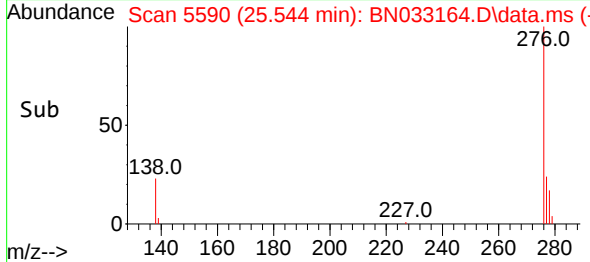
Instrument :  
BNA\_N  
ClientSampleId :  
A4D42DL



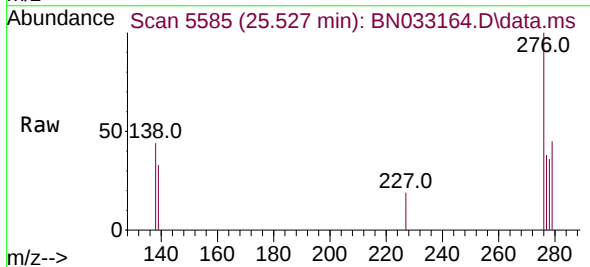
Tgt Ion:276 Resp: 2902  
Ion Ratio Lower Upper  
276 100  
138 20.2 21.8 32.8#  
227 0.2 0.2 0.2#

Manual Integrations  
APPROVED

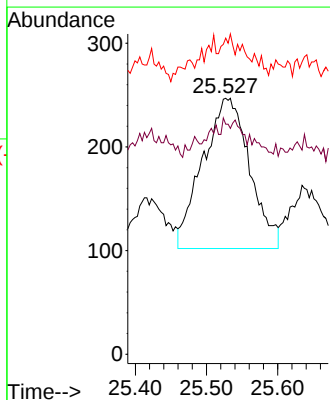
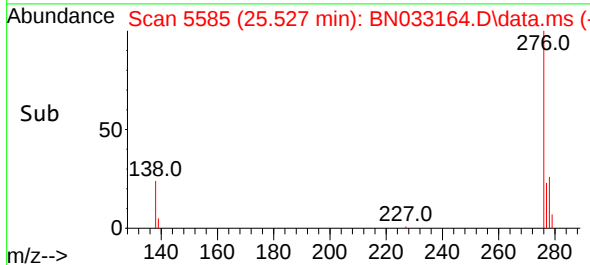
Reviewed By :Yogesh Patel 08/02/2024  
Supervised By :mohammad ahmed 08/13/2024

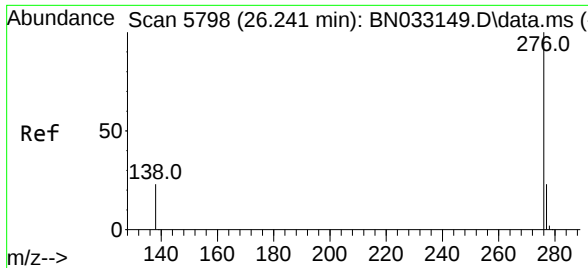


#28  
Dibenzo(a,h)anthracene  
Concen: 0.025 ng/ul  
RT: 25.527 min Scan# 5585  
Delta R.T. -0.013 min  
Lab File: BN033164.D  
Acq: 01 Aug 2024 11:56



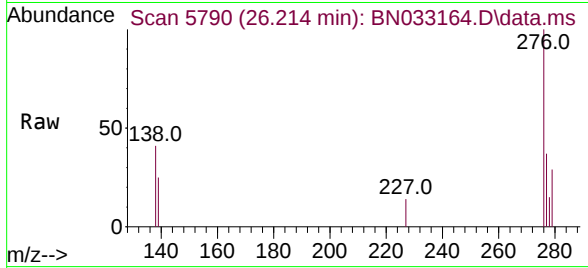
Tgt Ion:278 Resp: 664  
Ion Ratio Lower Upper  
278 100  
139 89.9 22.5 33.7#  
279 123.5 25.5 38.3#





#29  
 Benzo(g,h,i)perylene  
 Concen: 0.111 ng/ul  
 RT: 26.214 min Scan# 51  
 Delta R.T. -0.003 min  
 Lab File: BN033164.D  
 Acq: 01 Aug 2024 11:56

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4D42DL



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 296  |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 40.7  | 24.6  | 37.0 |
| 277       | 36.7  | 22.6  | 34.0 |

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/02/2024  
 Supervised By :mohammad ahmed 08/13/2024

