

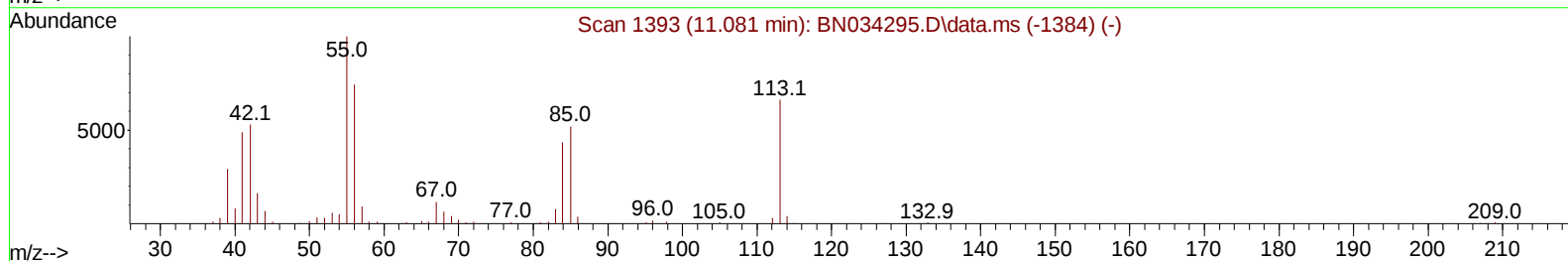
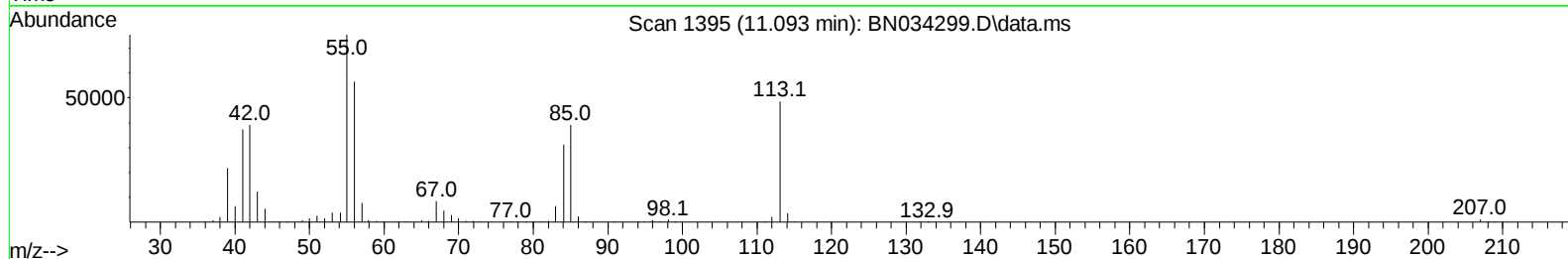
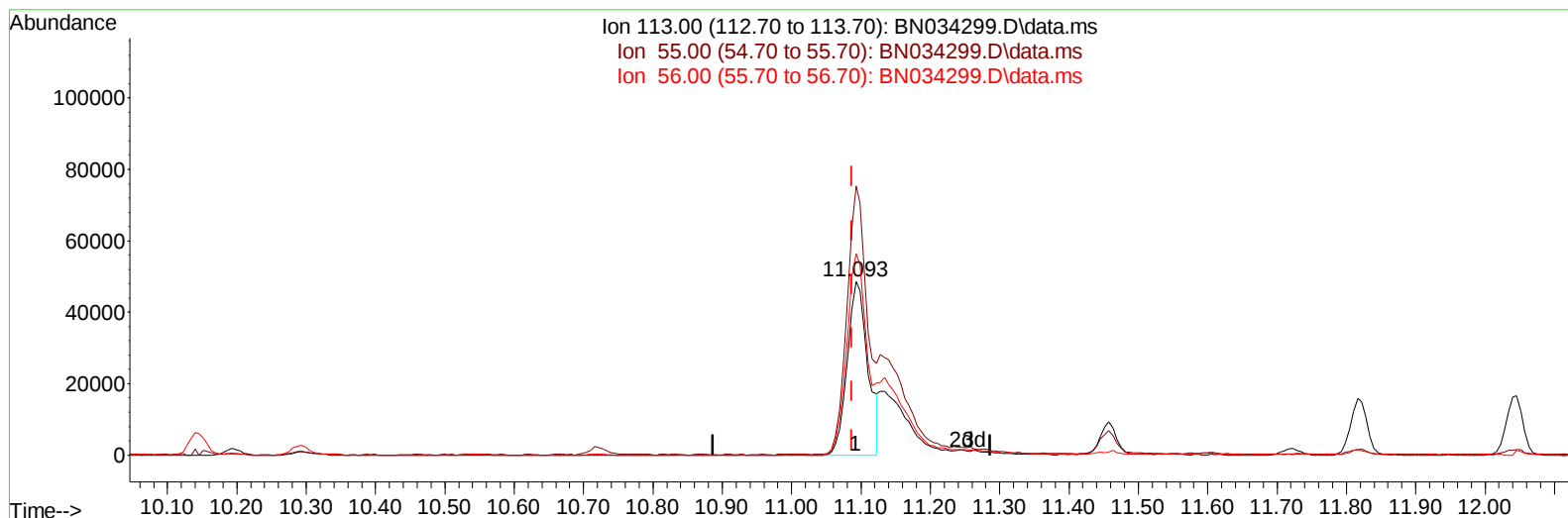
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100124\  
Data File : BN034299.D  
Acq On : 01 Oct 2024 12:36  
Operator : RC/JU  
Sample : P4019-15MSD  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DDCE9MSD

Manual IntegrationsAPPROVED

Quant Time: Oct 01 23:32:09 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN091124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Sep 30 14:14:38 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 10/02/2024  
Supervised By :mohammad ahmed 10/04/2024



TIC: BN034299.D\data.ms

(34) Caprolactam

11.093min (+ 0.006) 15.67 ng/ul

response 99226

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 171.30 | 154.78 |
| 56.00  | 124.60 | 115.82 |
| 0.00   | 0.00   | 0.00   |

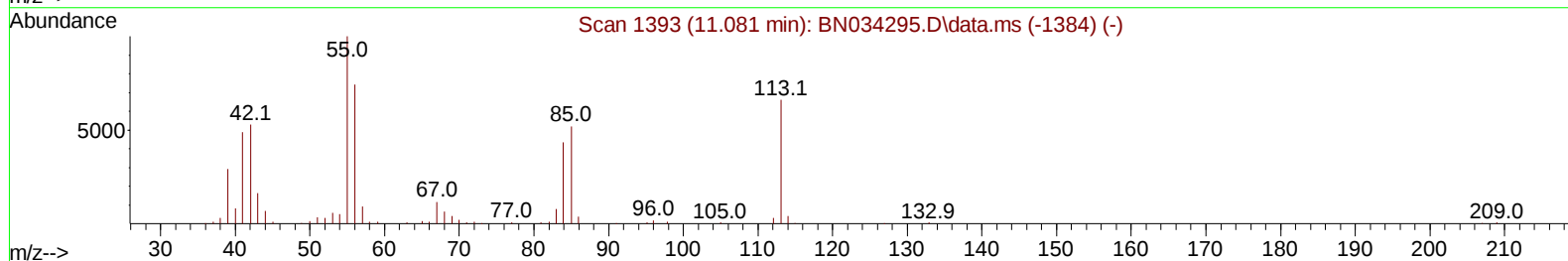
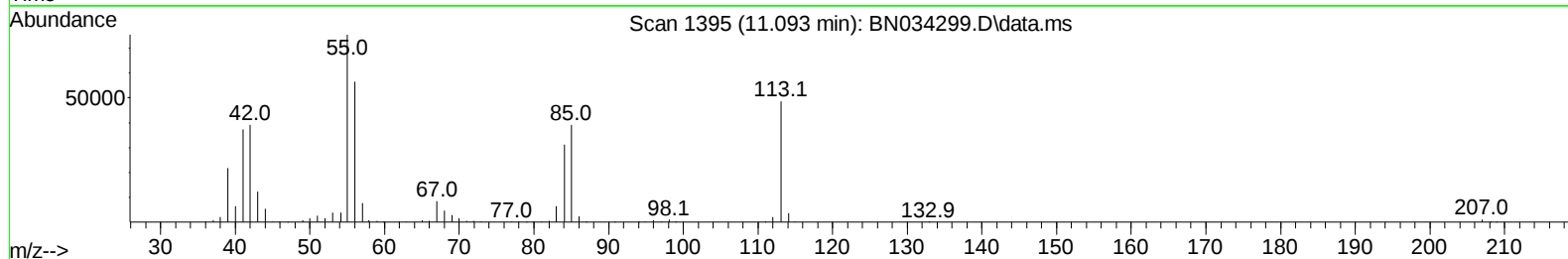
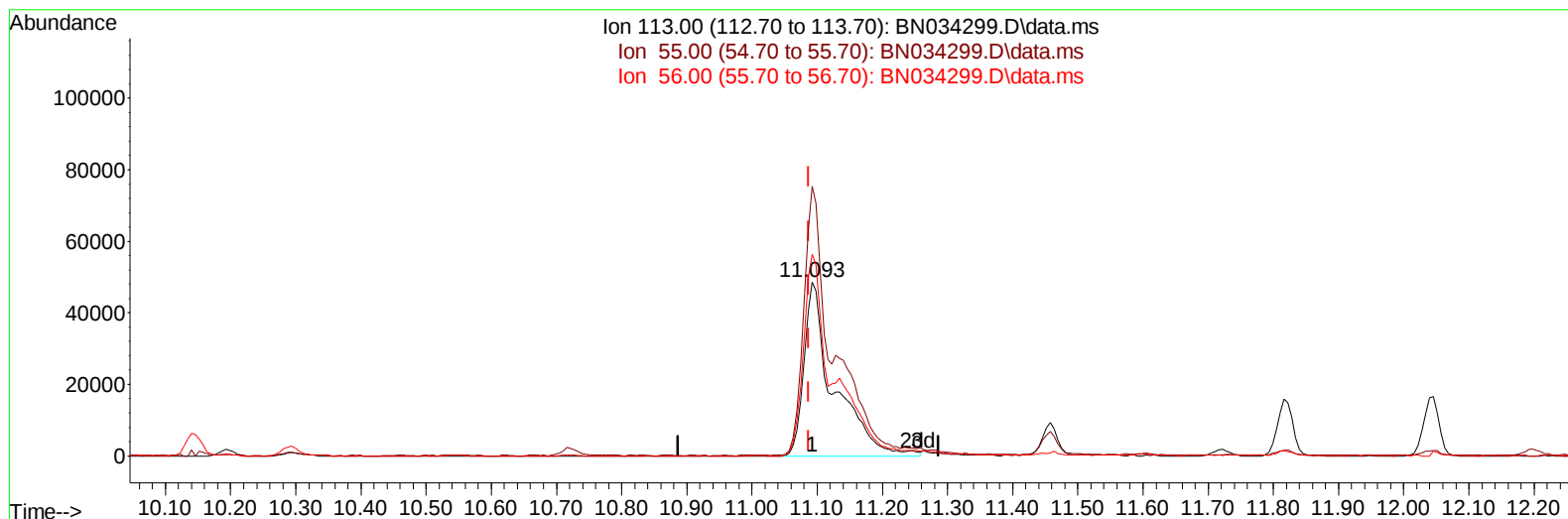
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100124\  
Data File : BN034299.D  
Acq On : 01 Oct 2024 12:36  
Operator : RC/JU  
Sample : P4019-15MSD  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DDCE9MSD

Manual IntegrationsAPPROVED

Quant Time: Oct 01 23:32:09 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN091124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Sep 30 14:14:38 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 10/02/2024  
Supervised By :mohammad ahmed 10/04/2024



TIC: BN034299.D\data.ms

(34) Caprolactam

11.093min (+ 0.006) 24.13 ng/ul m

response 152844

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 171.30 | 154.78 |
| 56.00  | 124.60 | 115.82 |
| 0.00   | 0.00   | 0.00   |

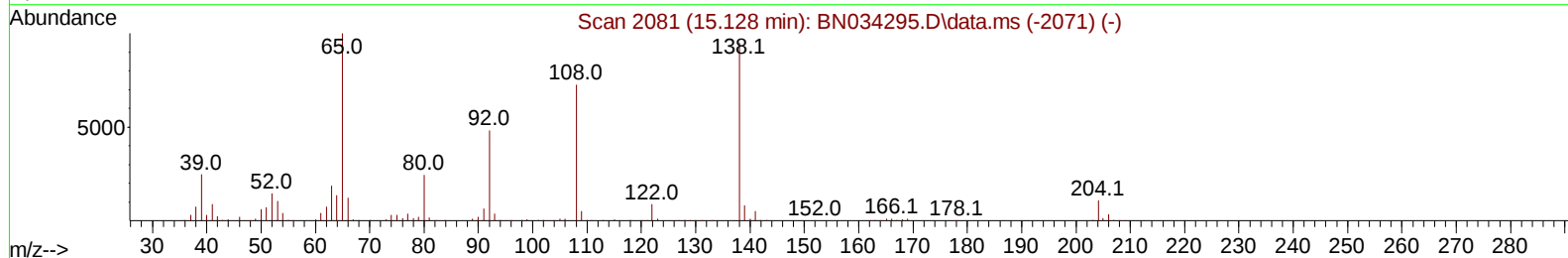
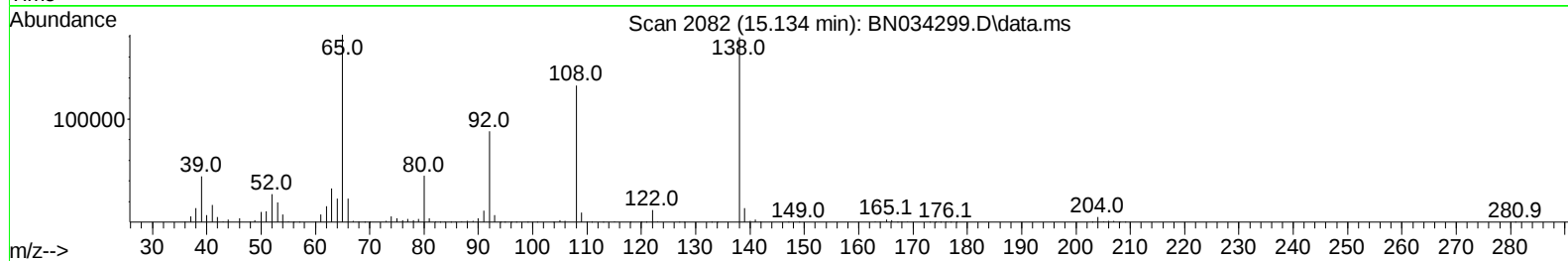
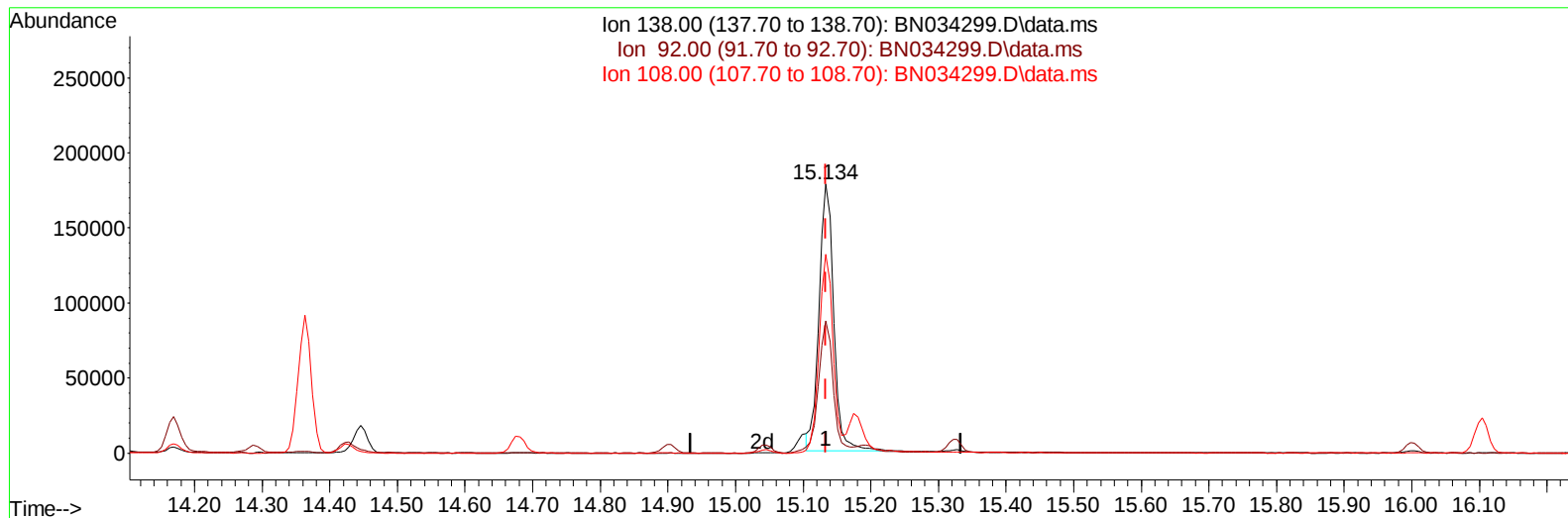
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100124\  
Data File : BN034299.D  
Acq On : 01 Oct 2024 12:36  
Operator : RC/JU  
Sample : P4019-15MSD  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DDCE9MSD

Manual IntegrationsAPPROVED

Quant Time: Oct 01 23:32:09 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN091124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Sep 30 14:14:38 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 10/02/2024  
Supervised By :mohammad ahmed 10/04/2024



TIC: BN034299.D\data.ms

**(63) 4-Nitroaniline**

**15.134min (+ 0.000) 25.39 ng/ul**

**response 268302**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 138.00 | 100.00 | 100.00 |
| 92.00  | 53.70  | 49.13  |
| 108.00 | 83.70  | 74.04  |
| 0.00   | 0.00   | 0.00   |

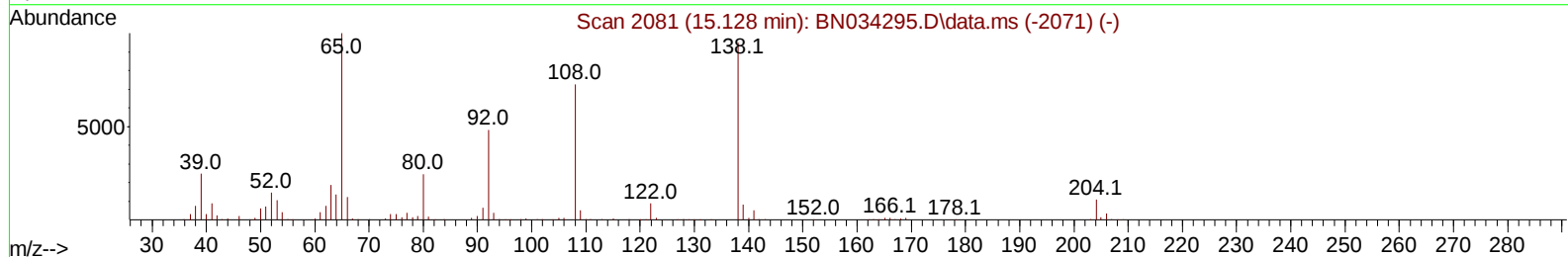
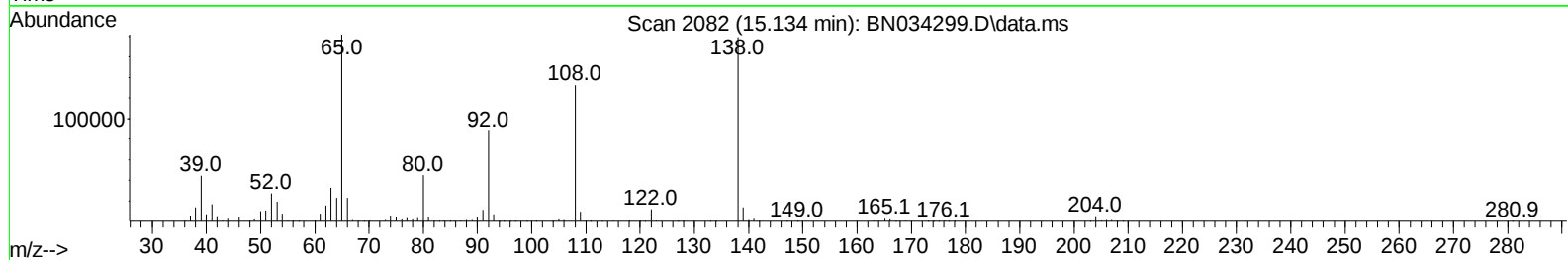
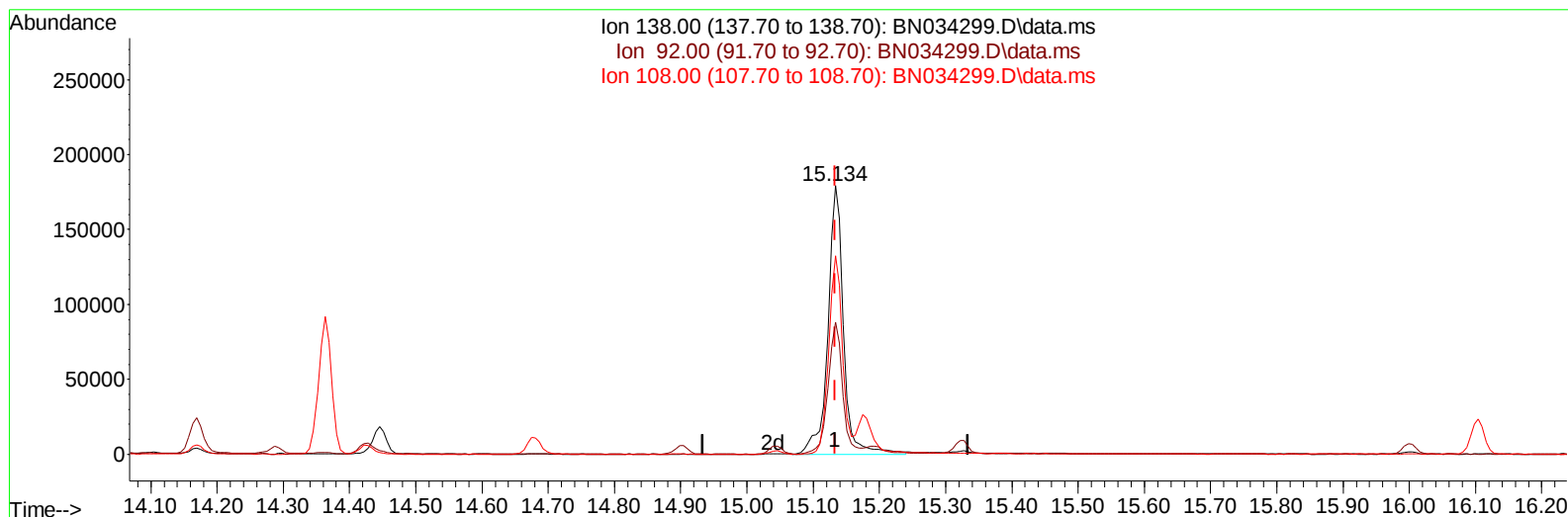
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100124\  
 Data File : BN034299.D  
 Acq On : 01 Oct 2024 12:36  
 Operator : RC/JU  
 Sample : P4019-15MSD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DDCE9MSD

Manual IntegrationsAPPROVED

Quant Time: Oct 01 23:32:09 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN091124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Sep 30 14:14:38 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 10/02/2024  
 Supervised By :mohammad ahmed 10/04/2024



TIC: BN034299.D\data.ms

**(63) 4-Nitroaniline**

**15.134min (+ 0.000) 27.88 ng/ul m**

**response 294610**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 138.00 | 100.00 | 100.00 |
| 92.00  | 53.70  | 49.13  |
| 108.00 | 83.70  | 74.04  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100124\  
 Data File : BN034299.D  
 Acq On : 01 Oct 2024 12:36  
 Operator : RC/JU  
 Sample : P4019-15MSD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

DDCE9MSD

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/02/2024

Supervised By :mohammad ahmed 10/04/2024

Quant Time: Oct 01 23:50:50 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN091124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Sep 30 14:14:38 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.387  | 152  | 261557   | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.146 | 136  | 1017829  | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.040 | 164  | 619506   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 16.798 | 188  | 1208116  | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.033 | 240  | 1120974  | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 23.739 | 264  | 1322052  | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 2.999  | 96   | 26657    | 4.159  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.387  | 84   | 204735   | 10.746 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 6.587  | 99   | 458034   | 19.732 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.746  | 67   | 298611   | 20.733 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 6.928  | 132  | 424693   | 23.242 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.111  | 113  | 378142   | 19.798 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 8.534  | 128  | 199267   | 24.562 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.246  | 143  | 215799   | 25.868 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 9.781  | 165  | 406084   | 25.847 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.293 | 131  | 481184   | 20.230 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.469 | 166  | 1061649  | 22.931 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 13.728 | 160  | 1258817  | 24.169 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.275 | 143  | 167909   | 17.672 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.045 | 176  | 923383   | 23.533 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.181 | 200  | 151621   | 21.049 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 16.898 | 188  | 1360648  | 23.955 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.204 | 212  | 1571566  | 25.162 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.557 | 264  | 1736319  | 25.568 | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.034  | 88   | 76473    | 11.310 | ng/uL  | 89       |
| 5) Pyridine                   | 3.405  | 79   | 476772   | 24.455 | ng/ul  | 89       |
| 6) Benzaldehyde               | 6.546  | 77   | 363034   | 29.627 | ng/ul  | 91       |
| 8) Phenol                     | 6.616  | 94   | 636307   | 26.328 | ng/ul  | 93       |
| 10) Bis(2-Chloroethyl)ether   | 6.834  | 93   | 523966   | 27.894 | ng/ul  | 95       |
| 12) 2-Chlorophenol            | 6.958  | 128  | 554102   | 29.591 | ng/ul  | 95       |
| 13) 2-Methylphenol            | 7.840  | 108  | 477334   | 26.424 | ng/ul  | 100      |
| 14) 2,2'-oxybis(1-Chloropr... | 7.911  | 45   | 696069   | 25.127 | ng/ul  | 98       |
| 16) Acetophenone              | 8.205  | 105  | 758109   | 25.055 | ng/ul  | 97       |
| 17) N-Nitroso-di-n-propyla... | 8.199  | 70   | 358762   | 23.945 | ng/ul  | 95       |
| 18) 4-Methylphenol            | 8.169  | 108  | 519744   | 25.853 | ng/ul  | 98       |
| 19) Hexachloroethane          | 8.440  | 117  | 233696   | 29.589 | ng/ul  | 87       |
| 22) Nitrobenzene              | 8.575  | 77   | 565857   | 27.867 | ng/ul  | 92       |
| 23) Isophorone                | 9.099  | 82   | 1015176  | 27.111 | ng/ul  | 96       |
| 25) 2-Nitrophenol             | 9.275  | 139  | 301830   | 32.328 | ng/ul  | 90       |
| 26) 2,4-Dimethylphenol        | 9.352  | 107  | 512503   | 26.681 | ng/ul  | 91       |
| 27) Bis(2-Chloroethoxy)met... | 9.587  | 93   | 674084   | 29.258 | ng/ul  | 98       |
| 29) 2,4-Dichlorophenol        | 9.805  | 162  | 507094   | 31.877 | ng/ul  | 95       |
| 30) Naphthalene               | 10.193 | 128  | 1677352  | 30.128 | ng/ul  | 100      |
| 32) 4-Chloroaniline           | 10.316 | 127  | 590336   | 25.186 | ng/ul  | 99       |
| 33) Hexachlorobutadiene       | 10.487 | 225  | 347805   | 34.079 | ng/ul  | 97       |
| 34) Caprolactam               | 11.093 | 113  | 152844m  | 24.132 | ng/ul  |          |
| 35) 4-Chloro-3-methylphenol   | 11.457 | 107  | 490290   | 26.179 | ng/ul  | 91       |

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 Sample : P4019-15MSD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DDCE9MSD

Manual IntegrationsAPPROVED

Quant Time: Oct 01 23:50:50 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN091124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Sep 30 14:14:38 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 10/02/2024  
 Supervised By :mohammad ahmed 10/04/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 36) 2-Methylnaphthalene       | 11.816 | 142  | 1132025  | 29.519 | ng/ul  | 97       |
| 37) 1-Methylnaphthalene       | 12.046 | 142  | 1137495  | 29.303 | ng/ul  | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.199 | 216  | 619642   | 34.646 | ng/ul  | 96       |
| 40) Hexachlorocyclopentadiene | 12.181 | 237  | 327950   | 29.802 | ng/ul  | 97       |
| 41) 2,4,6-Trichlorophenol     | 12.451 | 196  | 392339   | 33.091 | ng/ul  | 97       |
| 42) 2,4,5-Trichlorophenol     | 12.522 | 196  | 427171   | 32.800 | ng/ul  | 97       |
| 43) 1,1'-Biphenyl             | 12.863 | 154  | 1436225  | 30.751 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 12.899 | 162  | 1124612  | 30.909 | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 13.116 | 65   | 295699   | 25.150 | ng/ul  | 90       |
| 47) Dimethylphthalate         | 13.516 | 163  | 1364506  | 28.917 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 13.634 | 165  | 290552   | 31.271 | ng/ul  | 89       |
| 50) Acenaphthylene            | 13.757 | 152  | 1708454  | 29.977 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 13.963 | 138  | 291219   | 28.362 | ng/ul  | 88       |
| 52) Acenaphthene              | 14.104 | 153  | 1189853  | 29.243 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.169 | 184  | 140363   | 25.684 | ng/ul  | 84       |
| 55) 4-Nitrophenol             | 14.287 | 109  | 174684   | 21.648 | ng/ul  | 92       |
| 56) Dibenzofuran              | 14.445 | 168  | 1660189  | 29.837 | ng/ul  | 94       |
| 57) 2,4-Dinitrotoluene        | 14.428 | 165  | 407263   | 29.075 | ng/ul  | 90       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.681 | 232  | 351564   | 32.531 | ng/ul  | 88       |
| 59) Diethylphthalate          | 14.904 | 149  | 1373967  | 27.865 | ng/ul  | 98       |
| 61) Fluorene                  | 15.098 | 166  | 1302142  | 28.608 | ng/ul  | 94       |
| 62) 4-Chlorophenyl-phenyle... | 15.104 | 204  | 651748   | 29.542 | ng/ul  | 96       |
| 63) 4-Nitroaniline            | 15.134 | 138  | 294610m  | 27.883 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.193 | 198  | 246069   | 30.763 | ng/ul  | 93       |
| 67) N-Nitrosodiphenylamine    | 15.322 | 169  | 1123871  | 31.045 | ng/ul  | 99       |
| 68) 4-Bromophenyl-phenylether | 15.998 | 248  | 420187   | 34.251 | ng/ul  | 93       |
| 69) Hexachlorobenzene         | 16.104 | 284  | 497604   | 34.946 | ng/ul  | 92       |
| 70) Atrazine                  | 16.292 | 200  | 364739   | 27.807 | ng/ul  | 97       |
| 71) Pentachlorophenol         | 16.457 | 266  | 327420   | 34.525 | ng/ul  | 98       |
| 72) Phenanthrene              | 16.839 | 178  | 2031856  | 30.501 | ng/ul  | 99       |
| 74) Anthracene                | 16.928 | 178  | 1989576  | 29.249 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 12.822 | 216  | 585938   | 34.848 | ng/uL  | 98       |
| 76) Pentachlorobenzene        | 14.363 | 250  | 582579   | 34.029 | ng/uL  | 99       |
| 77) Carbazole                 | 17.210 | 167  | 1838616  | 29.368 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 17.798 | 149  | 2430864  | 30.544 | ng/ul  | 98       |
| 80) Fluoranthene              | 18.869 | 202  | 2306476  | 31.588 | ng/ul  | 98       |
| 82) Pyrene                    | 19.233 | 202  | 2421927  | 30.855 | ng/ul  | 96       |
| 83) Butylbenzylphthalate      | 20.175 | 149  | 1065273  | 30.262 | ng/ul  | 99       |
| 84) 3,3'-Dichlorobenzidine    | 20.957 | 252  | 736960   | 29.268 | ng/ul  | 98       |
| 85) Benzo(a)anthracene        | 21.016 | 228  | 2359119  | 29.517 | ng/ul  | 95       |
| 86) Bis(2-ethylhexyl)phtha... | 20.980 | 149  | 1622159  | 31.483 | ng/ul# | 96       |
| 87) Chrysene                  | 21.075 | 228  | 2303213  | 30.202 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.022 | 149  | 2746058  | 31.216 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 22.898 | 252  | 2474784  | 30.703 | ng/ul  | 97       |
| 91) Benzo(k)fluoranthene      | 22.951 | 252  | 2536257  | 31.896 | ng/ul  | 99       |
| 93) Benzo(a)pyrene            | 23.616 | 252  | 2312646  | 30.372 | ng/ul  | 94       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.739 | 276  | 3097776  | 32.835 | ng/ul  | 96       |
| 95) Dibenzo(a,h)anthracene    | 26.786 | 278  | 2553441  | 33.483 | ng/ul  | 97       |
| 96) Benzo(g,h,i)perylene      | 27.668 | 276  | 2451964  | 33.478 | ng/ul  | 97       |

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

**Instrument :**

BNA\_N

**ClientSampleId :**

DDCE9MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 10/02/2024

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