

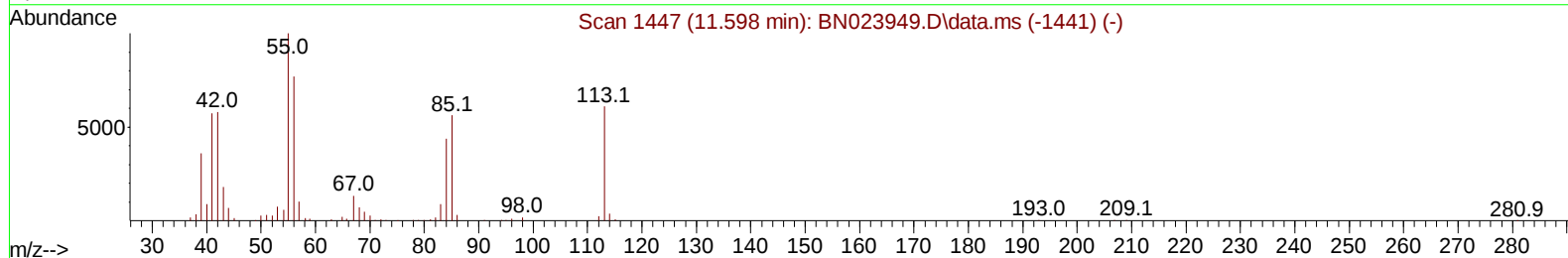
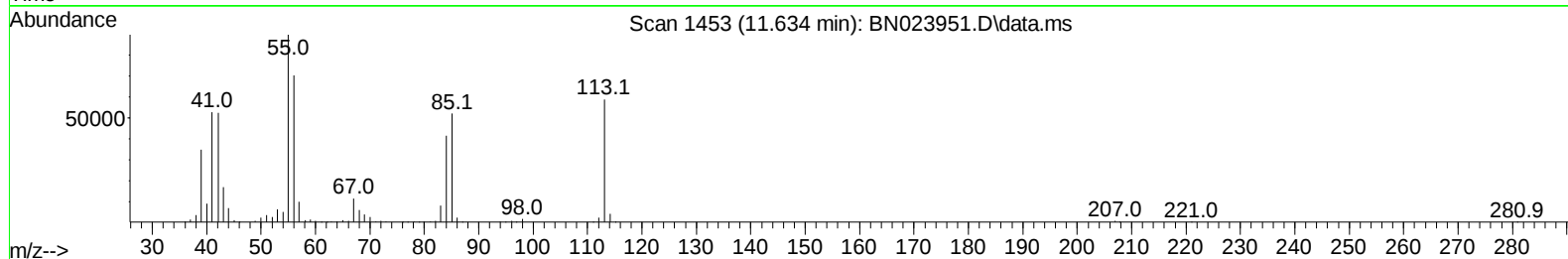
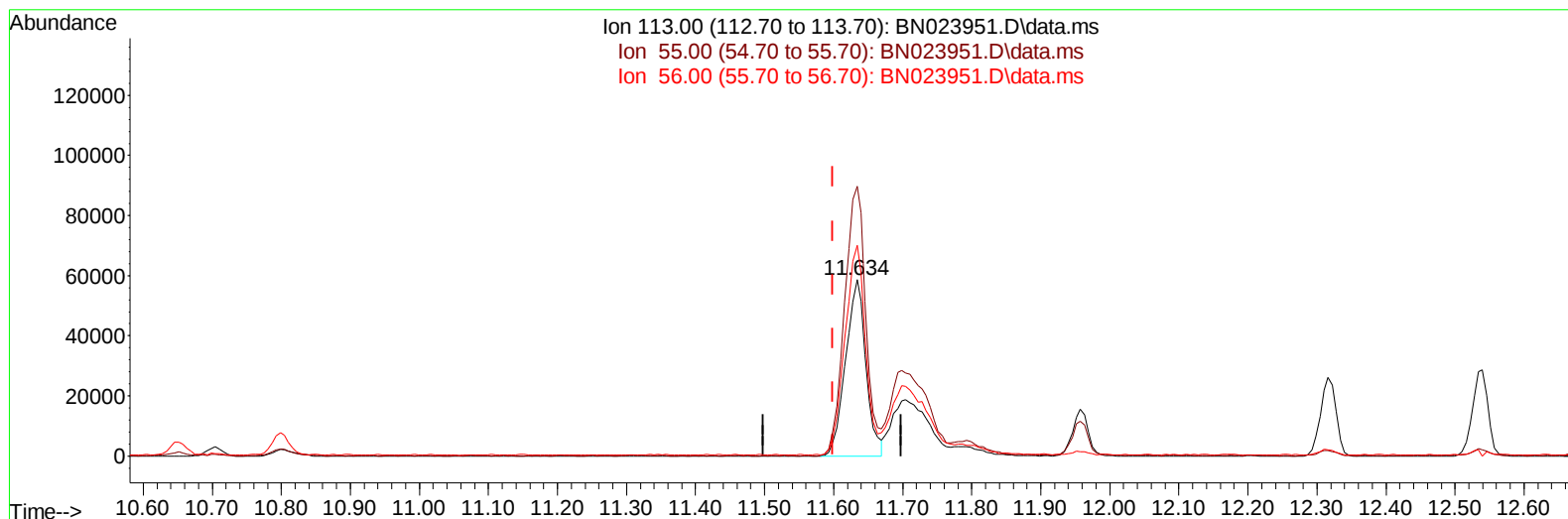
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN020623\  
 Data File : BN023951.D  
 Acq On : 06 Feb 2023 14:07  
 Operator : CG/JU  
 Sample : SSTD08069  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD080235

Manual IntegrationsAPPROVED

Quant Time: Feb 06 14:36:21 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020623.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Feb 06 14:18:24 2023  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 02/07/2023  
 Supervised By :mohammad ahmed 02/07/2023



TIC: BN023951.D\data.ms

**(34) Caprolactam**

**11.634min (+ 0.035) 42.98 ng/ul**

**response 119651**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 165.40 | 152.57 |
| 56.00  | 129.10 | 119.44 |
| 0.00   | 0.00   | 0.00   |

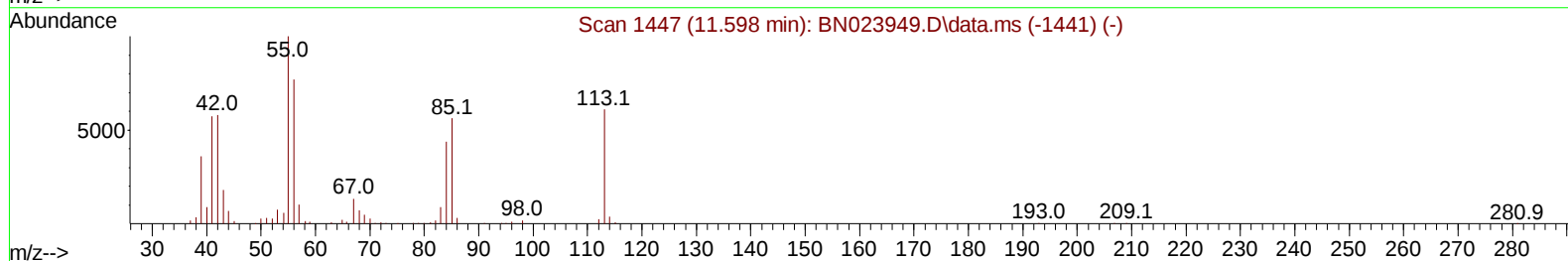
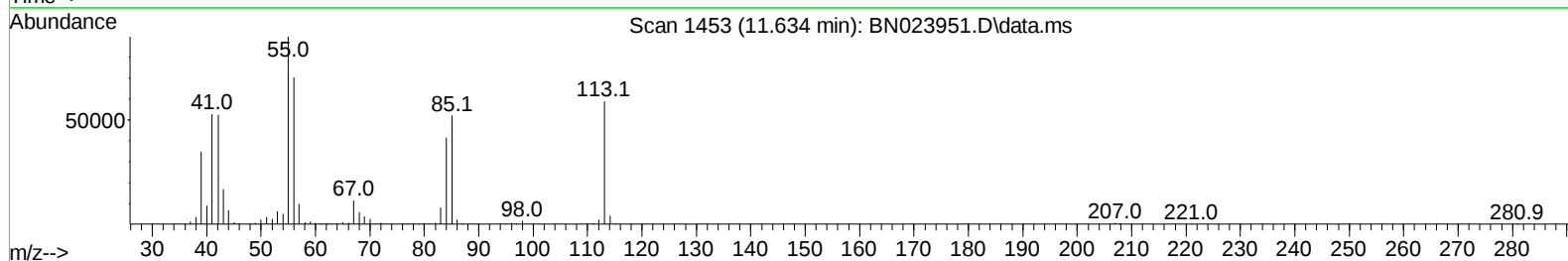
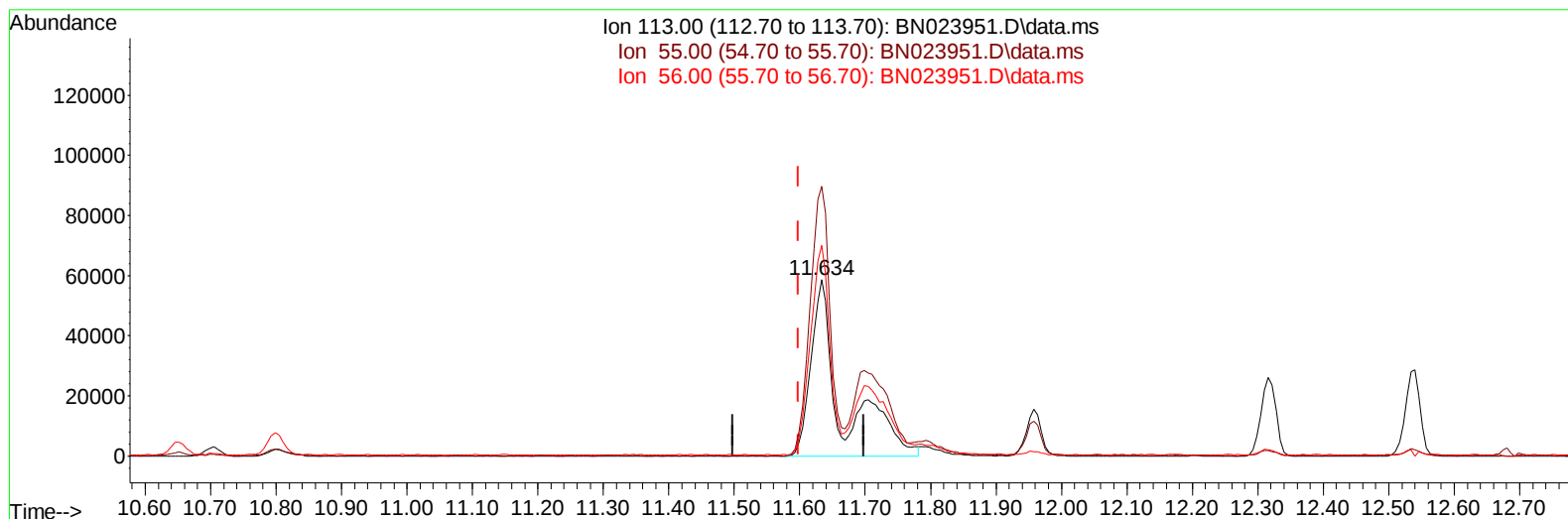
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Data File : BN023951.D  
Acq On : 06 Feb 2023 14:07  
Operator : CG/JU  
Sample : SSTD08069  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTD080235

Manual IntegrationsAPPROVED

Quant Time: Feb 06 14:36:21 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020623.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Feb 06 14:18:24 2023  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 02/07/2023  
Supervised By :mohammad ahmed 02/07/2023



TIC: BN023951.D\data.ms

(34) Caprolactam

11.634min (+ 0.035) 68.31 ng/ul m

response 190172

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 165.40 | 152.57 |
| 56.00  | 129.10 | 119.44 |
| 0.00   | 0.00   | 0.00   |

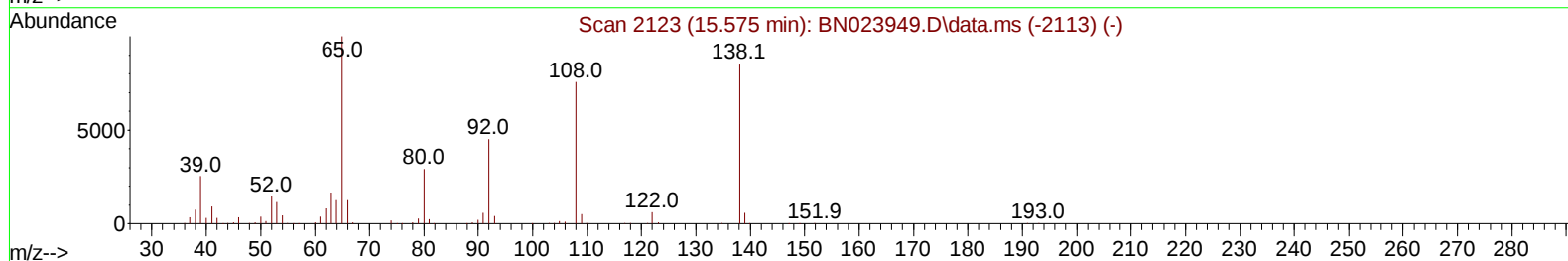
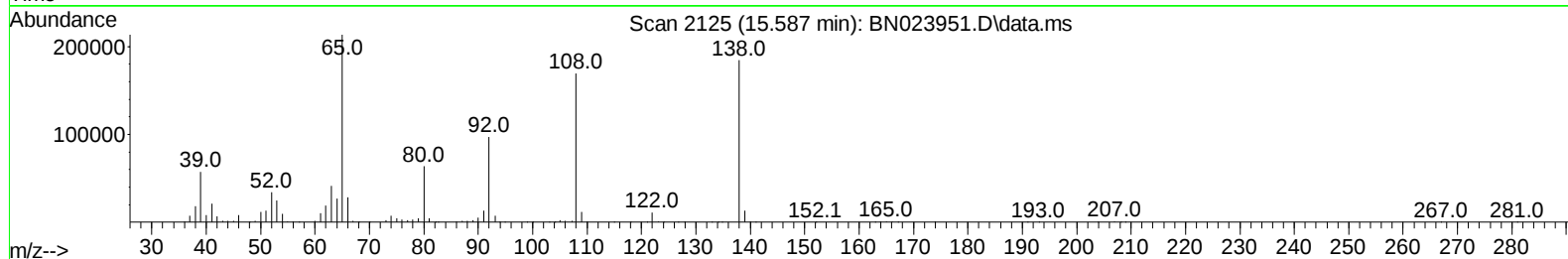
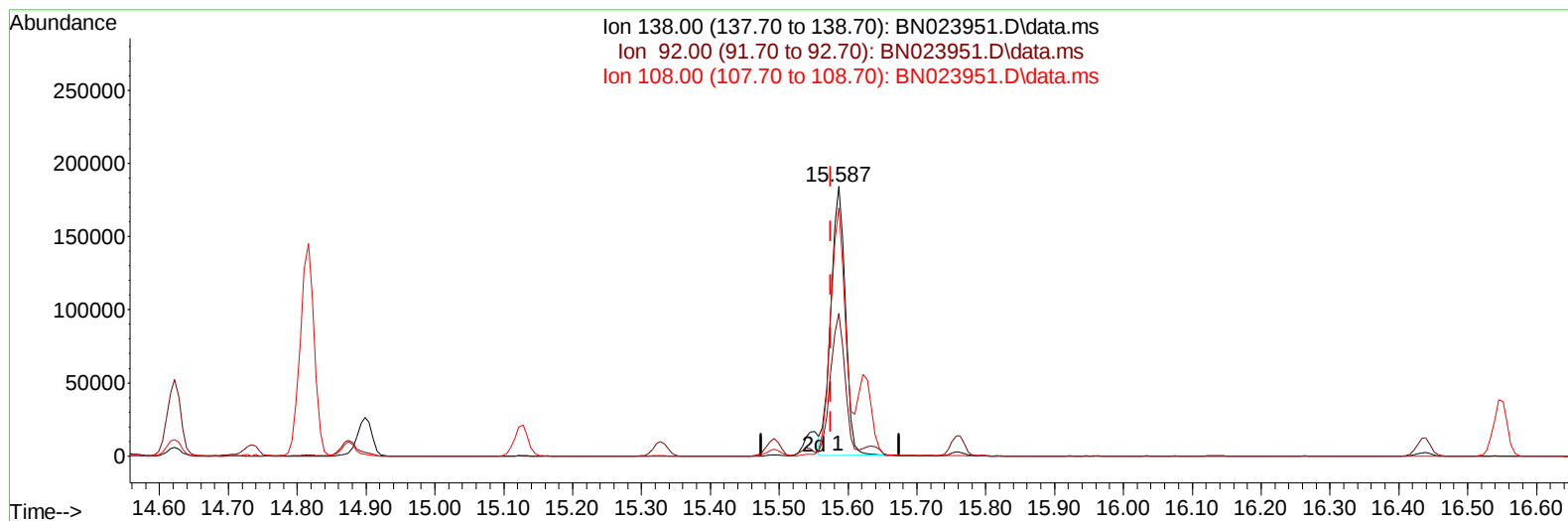
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Data File : BN023951.D  
Acq On : 06 Feb 2023 14:07  
Operator : CG/JU  
Sample : SST08069  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTD080235

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 02/07/2023  
Supervised By :mohammad ahmed 02/07/2023

Quant Time: Feb 06 14:36:21 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020623.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Feb 06 14:18:24 2023  
Response via : Initial Calibration



TIC: BN023951.D\data.ms

**(63) 4-Nitroaniline**

15.587min (+ 0.012) 73.09 ng/ul

response 270635

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 138.00 | 100.00 | 100.00 |
| 92.00  | 53.10  | 52.83  |
| 108.00 | 88.20  | 91.98  |
| 0.00   | 0.00   | 0.00   |

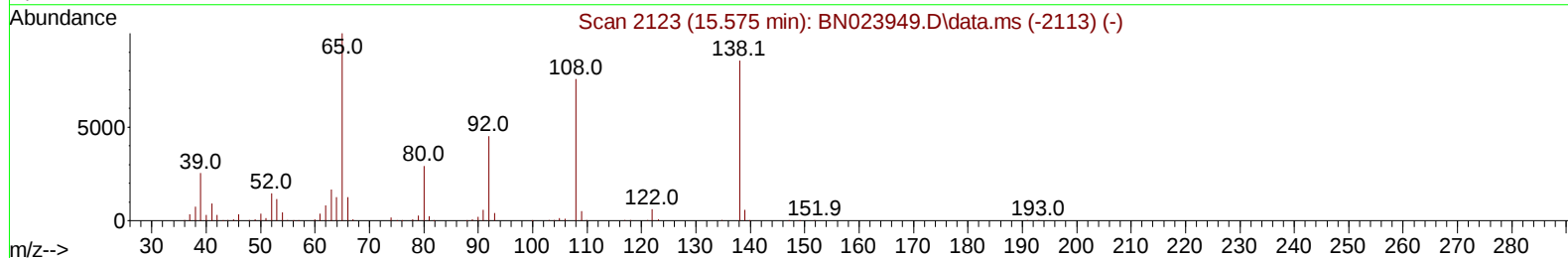
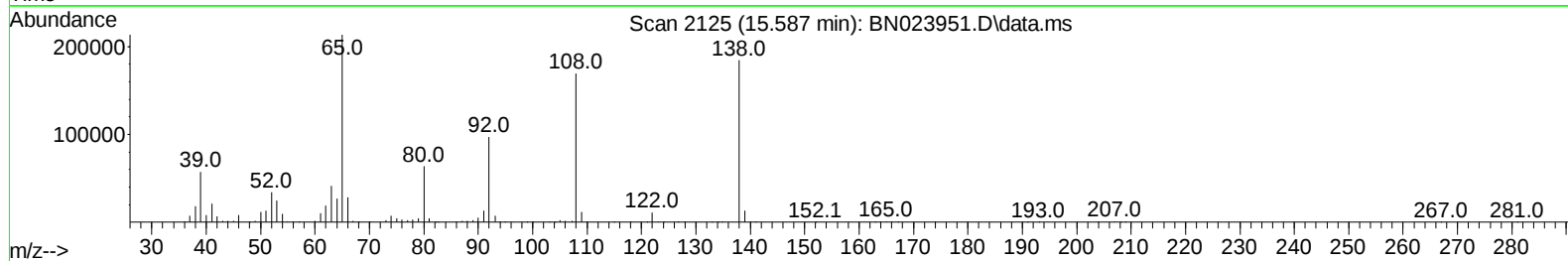
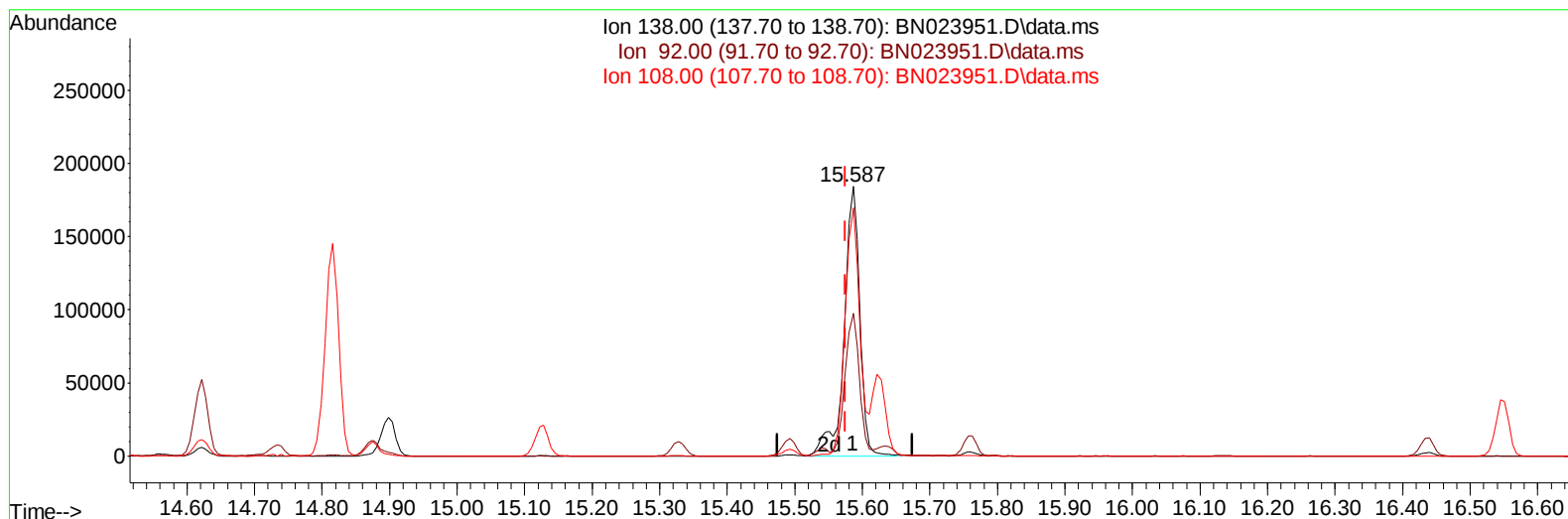
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN020623\  
 Data File : BN023951.D  
 Acq On : 06 Feb 2023 14:07  
 Operator : CG/JU  
 Sample : SSTD08069  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD080235

Manual IntegrationsAPPROVED

Quant Time: Feb 06 14:36:21 2023  
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 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Feb 06 14:18:24 2023  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 02/07/2023  
 Supervised By :mohammad ahmed 02/07/2023



TIC: BN023951.D\data.ms

**(63) 4-Nitroaniline**

**15.587min (+ 0.012) 80.43 ng/ul m**

**response 297832**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 138.00 | 100.00 | 100.00 |
| 92.00  | 53.10  | 52.83  |
| 108.00 | 88.20  | 91.98  |
| 0.00   | 0.00   | 0.00   |

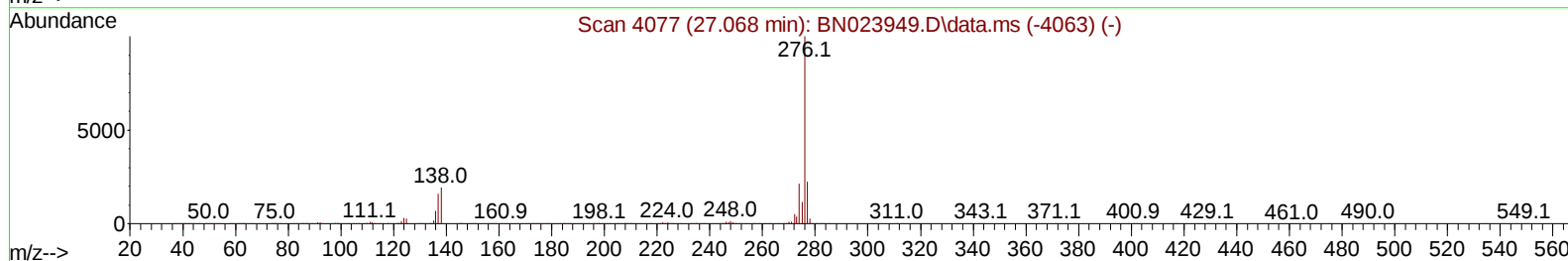
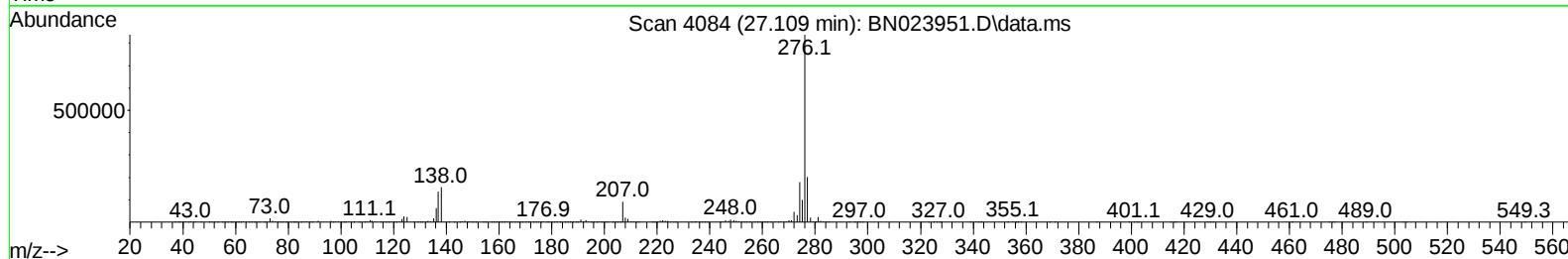
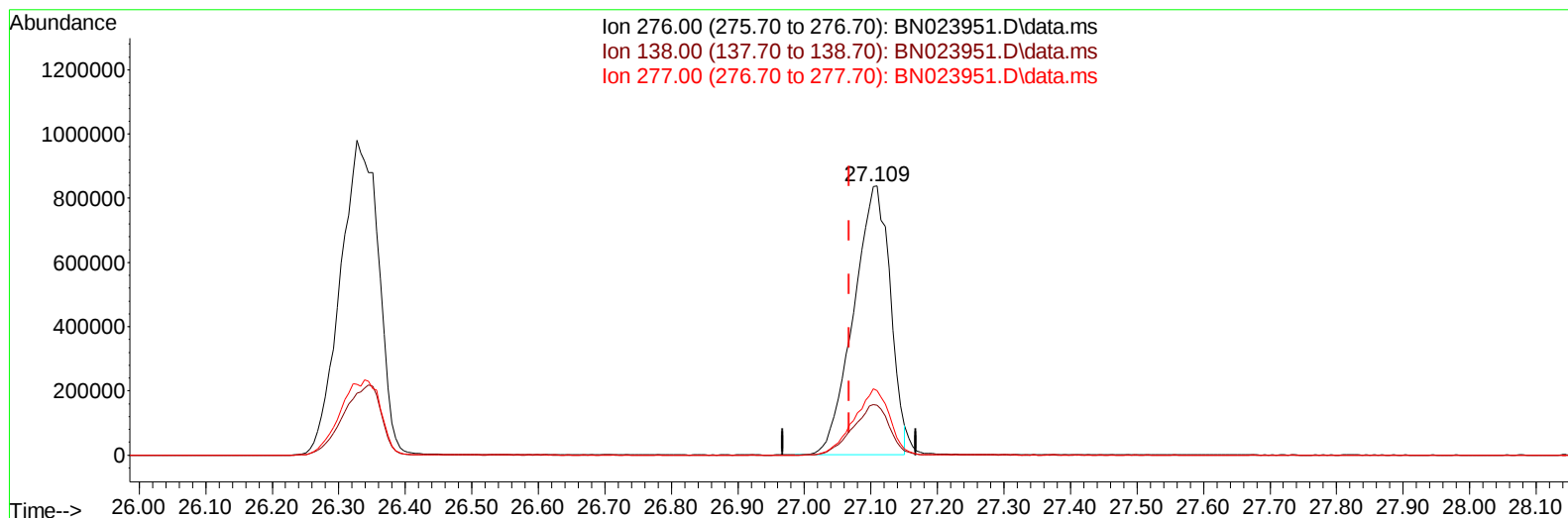
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 Data File : BN023951.D  
 Acq On : 06 Feb 2023 14:07  
 Operator : CG/JU  
 Sample : SSTD08069  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD080235

Manual IntegrationsAPPROVED

Quant Time: Feb 06 14:36:21 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020623.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Feb 06 14:18:24 2023  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 02/07/2023  
 Supervised By :mohammad ahmed 02/07/2023



TIC: BN023951.D\data.ms

(96) Benzo(g,h,i)perylene

27.109min (+ 0.041) 87.35 ng/ul

response 3202746

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 19.30  | 18.53  |
| 277.00 | 22.30  | 23.97  |
| 0.00   | 0.00   | 0.00   |

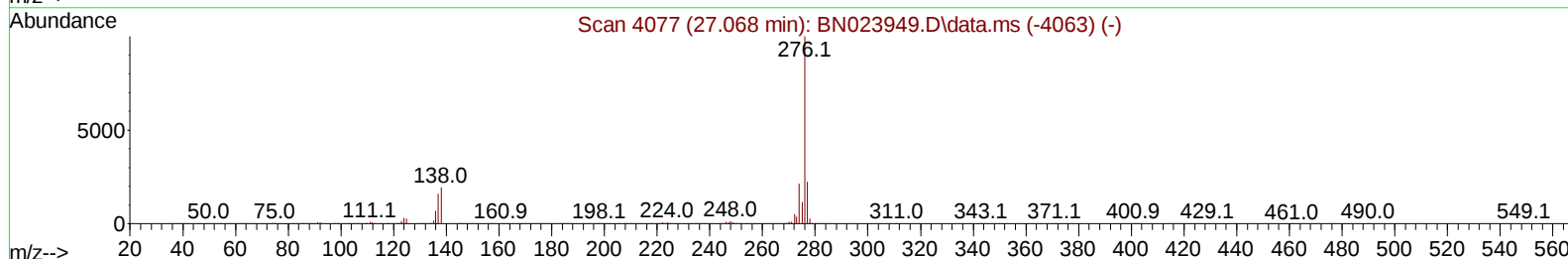
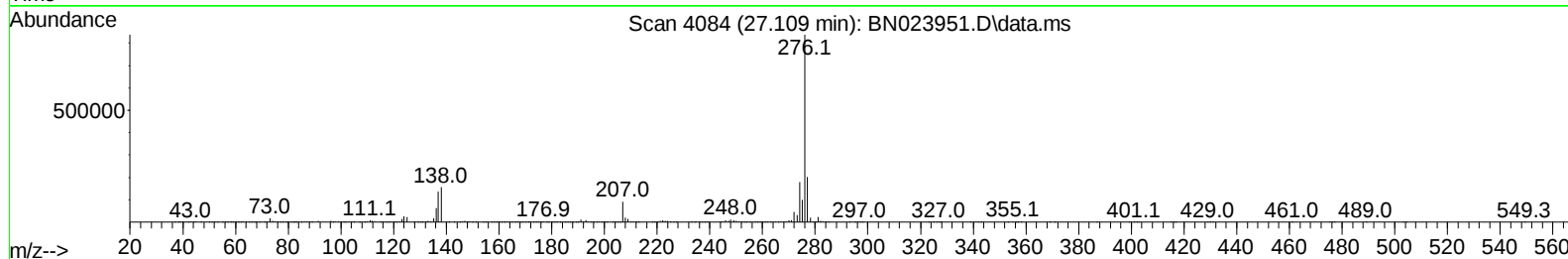
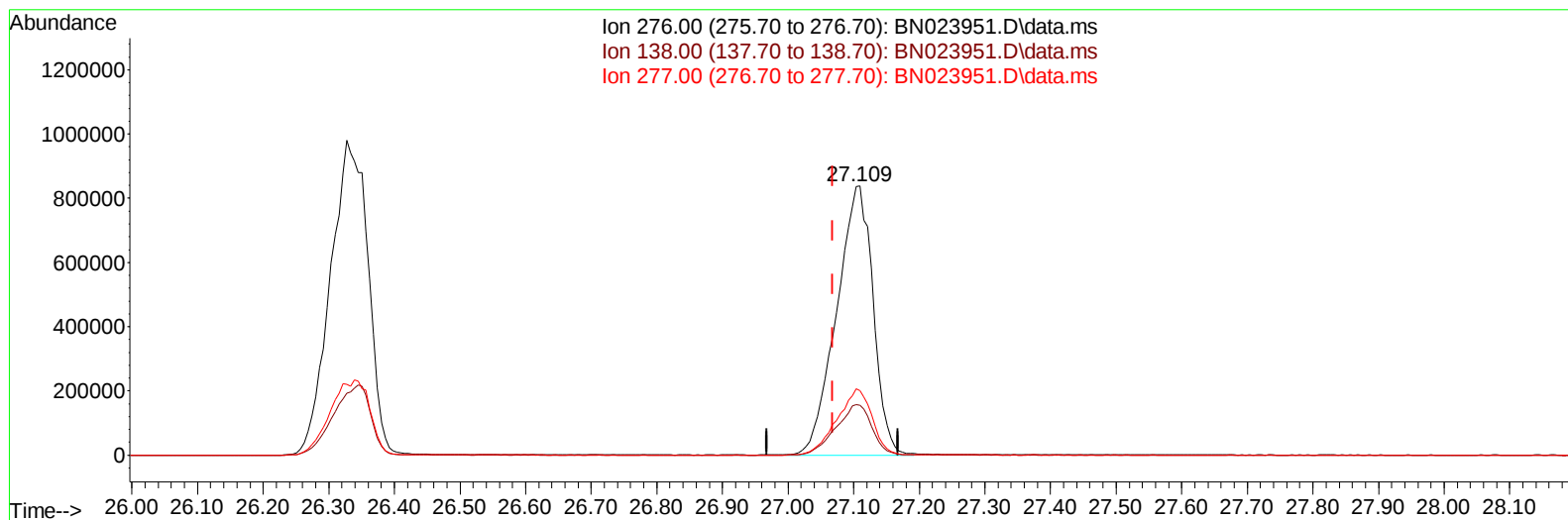
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN020623\  
 Data File : BN023951.D  
 Acq On : 06 Feb 2023 14:07  
 Operator : CG/JU  
 Sample : SSTD08069  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD080235

Manual IntegrationsAPPROVED

Quant Time: Feb 06 14:36:21 2023  
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 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Feb 06 14:18:24 2023  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 02/07/2023  
 Supervised By :mohammad ahmed 02/07/2023



TIC: BN023951.D\data.ms

(96) Benzo(g,h,i)perylene

27.109min (+ 0.041) 88.57 ng/ul m

response 3247372

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 19.30  | 18.53  |
| 277.00 | 22.30  | 23.97  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN020623\  
 Data File : BN023951.D  
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 Sample : SSTD08069  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD080235

Manual IntegrationsAPPROVED

Quant Time: Feb 06 14:36:21 2023  
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Reviewed By :Jagrut Upadhyay 02/07/2023  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.840  | 152  | 154728   | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.652 | 136  | 583029   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.498 | 164  | 323285   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.245 | 188  | 648303   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.445 | 240  | 574873   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 23.839 | 264  | 641398   | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.228  | 96   | 120857   | 31.484 | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.652  | 84   | 859368   | 82.228 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.016  | 99   | 1020951  | 77.564 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.181  | 67   | 635172   | 74.477 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.375  | 132  | 836401   | 81.634 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.575  | 113  | 768998   | 73.041 | ng/ul  | 0.01     |
| 21) Nitrobenzene-d5           | 9.016  | 128  | 394090   | 85.924 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.740  | 143  | 447640   | 87.193 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.281 | 165  | 797780   | 82.407 | ng/ul  | 0.01     |
| 31) 4-Chloroaniline-d4        | 10.799 | 131  | 974821   | 71.485 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.916 | 166  | 1970775  | 78.597 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.192 | 160  | 2269810  | 82.514 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.716 | 143  | 337268   | 77.852 | ng/ul  | 0.01     |
| 60) Fluorene-d10              | 15.492 | 176  | 1626964  | 76.694 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.622 | 200  | 380377   | 89.358 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.351 | 188  | 2407746  | 81.920 | ng/ul  | 0.01     |
| 81) Pyrene-d10                | 19.645 | 212  | 2710129  | 77.839 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.686 | 264  | 2628200  | 80.116 | ng/ul  | 0.01     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.264  | 88   | 125123   | 30.656 | ng/uL# | 91       |
| 5) Pyridine                   | 3.670  | 79   | 848821   | 79.900 | ng/ul  | 98       |
| 6) Benzaldehyde               | 6.981  | 77   | 429191   | 68.764 | ng/ul  | 97       |
| 8) Phenol                     | 7.046  | 94   | 1033140  | 77.407 | ng/ul  | 98       |
| 10) Bis(2-Chloroethyl)ether   | 7.275  | 93   | 839428   | 76.298 | ng/ul  | 100      |
| 12) 2-Chlorophenol            | 7.410  | 128  | 853465   | 82.002 | ng/ul  | 97       |
| 13) 2-Methylphenol            | 8.299  | 108  | 770119   | 76.651 | ng/ul  | 97       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.381  | 45   | 1017423  | 72.837 | ng/ul  | 99       |
| 16) Acetophenone              | 8.681  | 105  | 1184687  | 70.692 | ng/ul  | 97       |
| 17) N-Nitroso-di-n-propyla... | 8.681  | 70   | 620638   | 69.875 | ng/ul  | 97       |
| 18) 4-Methylphenol            | 8.640  | 108  | 804006   | 72.920 | ng/ul  | 95       |
| 19) Hexachloroethane          | 8.922  | 117  | 361875   | 83.528 | ng/ul  | 91       |
| 22) Nitrobenzene              | 9.063  | 77   | 957407   | 81.353 | ng/ul  | 97       |
| 23) Isophorone                | 9.593  | 82   | 1672114  | 76.224 | ng/ul  | 100      |
| 25) 2-Nitrophenol             | 9.769  | 139  | 461988   | 85.701 | ng/ul  | 96       |
| 26) 2,4-Dimethylphenol        | 9.834  | 107  | 861852   | 78.897 | ng/ul  | 98       |
| 27) Bis(2-Chloroethoxy)met... | 10.075 | 93   | 1039981  | 76.345 | ng/ul  | 99       |
| 29) 2,4-Dichlorophenol        | 10.304 | 162  | 769361   | 81.833 | ng/ul  | 99       |
| 30) Naphthalene               | 10.704 | 128  | 2446841  | 77.838 | ng/ul  | 99       |
| 32) 4-Chloroaniline           | 10.822 | 127  | 989349   | 72.855 | ng/ul  | 100      |
| 33) Hexachlorobutadiene       | 10.981 | 225  | 557826   | 82.976 | ng/ul  | 96       |
| 34) Caprolactam               | 11.634 | 113  | 190172m  | 68.315 | ng/ul  |          |
| 35) 4-Chloro-3-methylphenol   | 11.957 | 107  | 750504   | 74.604 | ng/ul  | 99       |

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 Acq On : 06 Feb 2023 14:07  
 Operator : CG/JU  
 Sample : SST008069  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SST0080235

Manual IntegrationsAPPROVED

Quant Time: Feb 06 14:36:21 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020623.M  
 Quant Title : SVOA CALIBRATION  
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Reviewed By :Jagrut Upadhyay 02/07/2023  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 36) 2-Methylnaphthalene       | 12.316 | 142  | 1599988  | 75.071 | ng/ul  | 97       |
| 37) 1-Methylnaphthalene       | 12.540 | 142  | 1610898  | 74.113 | ng/ul  | 97       |
| 39) 1,2,4,5-Tetrachloroben... | 12.687 | 216  | 970080   | 87.191 | ng/ul  | 99       |
| 40) Hexachlorocyclopentadiene | 12.663 | 237  | 723247   | 96.003 | ng/ul  | 98       |
| 41) 2,4,6-Trichlorophenol     | 12.934 | 196  | 616827   | 87.410 | ng/ul  | 93       |
| 42) 2,4,5-Trichlorophenol     | 13.004 | 196  | 660549   | 86.177 | ng/ul  | 97       |
| 43) 1,1'-Biphenyl             | 13.334 | 154  | 2097974  | 81.890 | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 13.375 | 162  | 1654232  | 83.367 | ng/ul  | 100      |
| 45) 2-Nitroaniline            | 13.593 | 65   | 484743   | 86.189 | ng/ul  | 96       |
| 47) Dimethylphthalate         | 13.963 | 163  | 1947552  | 77.822 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.092 | 165  | 412259   | 86.018 | ng/ul  | 99       |
| 50) Acenaphthylene            | 14.222 | 152  | 2382251  | 81.049 | ng/ul  | 98       |
| 51) 3-Nitroaniline            | 14.416 | 138  | 342276   | 79.148 | ng/ul  | 97       |
| 52) Acenaphthene              | 14.563 | 153  | 1635255  | 79.296 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 14.622 | 184  | 275839   | 89.992 | ng/ul  | 98       |
| 55) 4-Nitrophenol             | 14.734 | 109  | 296675   | 76.365 | ng/ul  | 96       |
| 56) Dibenzofuran              | 14.898 | 168  | 2260504  | 77.043 | ng/ul  | 98       |
| 57) 2,4-Dinitrotoluene        | 14.875 | 165  | 550513   | 81.927 | ng/ul  | 97       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.128 | 232  | 535800   | 78.934 | ng/ul  | 99       |
| 59) Diethylphthalate          | 15.328 | 149  | 1901426  | 77.816 | ng/ul  | 100      |
| 61) Fluorene                  | 15.551 | 166  | 1809650  | 74.835 | ng/ul  | 97       |
| 62) 4-Chlorophenyl-phenyle... | 15.545 | 204  | 953867   | 75.009 | ng/ul  | 97       |
| 63) 4-Nitroaniline            | 15.587 | 138  | 297832m  | 80.432 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.639 | 198  | 363260   | 86.637 | ng/ul# | 96       |
| 67) N-Nitrosodiphenylamine    | 15.763 | 169  | 1526561  | 82.146 | ng/ul  | 97       |
| 68) 4-Bromophenyl-phenylether | 16.439 | 248  | 626197   | 83.064 | ng/ul  | 93       |
| 69) Hexachlorobenzene         | 16.551 | 284  | 668422   | 76.300 | ng/ul  | 98       |
| 70) Atrazine                  | 16.722 | 200  | 580088   | 79.471 | ng/ul  | 98       |
| 71) Pentachlorophenol         | 16.898 | 266  | 459399   | 86.533 | ng/ul  | 91       |
| 72) Phenanthrene              | 17.292 | 178  | 2777088  | 80.591 | ng/ul  | 97       |
| 74) Anthracene                | 17.381 | 178  | 2727935  | 78.687 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.293 | 216  | 928245   | 91.922 | ng/uL  | 98       |
| 76) Pentachlorobenzene        | 14.816 | 250  | 850254   | 82.996 | ng/uL  | 95       |
| 77) Carbazole                 | 17.657 | 167  | 2333788  | 77.551 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.216 | 149  | 3168020  | 60.607 | ng/ul  | 98       |
| 80) Fluoranthene              | 19.310 | 202  | 3232874  | 78.086 | ng/ul  | 99       |
| 82) Pyrene                    | 19.675 | 202  | 3231757  | 76.351 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.575 | 149  | 1383645  | 85.328 | ng/ul  | 98       |
| 84) 3,3'-Dichlorobenzidine    | 21.369 | 252  | 1093238  | 79.799 | ng/ul  | 91       |
| 85) Benzo(a)anthracene        | 21.427 | 228  | 3136667  | 78.433 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.351 | 149  | 2104431  | 88.045 | ng/ul  | 99       |
| 87) Chrysene                  | 21.480 | 228  | 2962008  | 80.438 | ng/ul  | 98       |
| 89) Di-n-octyl phthalate      | 22.280 | 149  | 3535944  | 79.881 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.116 | 252  | 3341275  | 78.838 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.163 | 252  | 3105021  | 76.429 | ng/ul  | 95       |
| 93) Benzo(a)pyrene            | 23.739 | 252  | 2959064  | 83.123 | ng/ul  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.327 | 276  | 3891936  | 85.124 | ng/ul  | 96       |
| 95) Dibenzo(a,h)anthracene    | 26.351 | 278  | 3170658  | 83.168 | ng/ul  | 99       |
| 96) Benzo(g,h,i)perylene      | 27.109 | 276  | 3247372m | 88.568 | ng/ul  |          |

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

**Instrument :**

BNA\_N

**ClientSampleId :**

SSTD080235

**Manual IntegrationsAPPROVED**

Reviewed By :Jagrut Upadhyay 02/07/2023  
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