



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG081224\  
 Data File : BG062361.D  
 Acq On : 12 Aug 2024 11:10  
 Operator : MA/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020451

Quant Time: Aug 12 12:31:21 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG080524.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Aug 09 01:00:03 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.953  | 152  | 42149    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.749 | 136  | 198953   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.573 | 164  | 159183   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.317 | 188  | 380419   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.558 | 240  | 369124   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.648 | 264  | 423892   | 20.000 | ng/u1  | 0.01     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.412  | 96   | 8067     | 8.253  | ng/uL  | -0.01    |
| 4) Pyridine-d5                | 3.817  | 84   | 60195    | 19.574 | ng/u1  | -0.01    |
| 7) Phenol-d5                  | 7.107  | 99   | 71373    | 17.741 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.283  | 67   | 46236    | 18.670 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.483  | 132  | 51078    | 17.721 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.652  | 113  | 60624    | 18.092 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.104  | 128  | 18950    | 15.447 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.827  | 143  | 17360    | 15.043 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.361 | 165  | 60719    | 18.115 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.873 | 131  | 91554    | 18.832 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.980 | 166  | 222671   | 18.131 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.268 | 160  | 250284   | 17.974 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.755 | 143  | 29921    | 17.402 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.566 | 176  | 208995   | 18.958 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.672 | 200  | 20369    | 18.080 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.411 | 188  | 337712   | 18.406 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.696 | 212  | 405521   | 18.483 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.431 | 264  | 408018   | 18.006 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.453  | 88   | 8858     | 8.027  | ng/uL  | 89       |
| 5) Pyridine                   | 3.841  | 79   | 64173    | 20.076 | ng/u1  | 97       |
| 6) Benzaldehyde               | 7.089  | 77   | 47903    | 22.531 | ng/u1  | 95       |
| 8) Phenol                     | 7.136  | 94   | 73685    | 17.358 | ng/u1  | 99       |
| 10) Bis(2-Chloroethyl)ether   | 7.377  | 93   | 57398    | 18.245 | ng/u1  | 91       |
| 12) 2-Chlorophenol            | 7.518  | 128  | 53852    | 17.585 | ng/u1  | 95       |
| 13) 2-Methylphenol            | 8.388  | 108  | 58923    | 18.409 | ng/u1  | 92       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.476  | 45   | 121924   | 18.969 | ng/u1  | 99       |
| 16) Acetophenone              | 8.769  | 105  | 100520   | 18.837 | ng/u1  | 98       |
| 17) N-Nitroso-di-n-propyla... | 8.758  | 70   | 53024    | 18.697 | ng/u1  | 94       |
| 18) 4-Methylphenol            | 8.711  | 108  | 66105    | 18.443 | ng/u1  | 99       |
| 19) Hexachloroethane          | 9.040  | 117  | 21319    | 18.733 | ng/u1  | 91       |
| 22) Nitrobenzene              | 9.145  | 77   | 57528    | 16.490 | ng/u1  | 94       |
| 23) Isophorone                | 9.668  | 82   | 151786   | 18.086 | ng/u1  | 100      |
| 25) 2-Nitrophenol             | 9.856  | 139  | 21301    | 15.217 | ng/u1  | 97       |
| 26) 2,4-Dimethylphenol        | 9.915  | 107  | 72951    | 18.207 | ng/u1  | 98       |
| 27) Bis(2-Chloroethoxy)met... | 10.156 | 93   | 89011    | 18.807 | ng/u1  | 99       |
| 29) 2,4-Dichlorophenol        | 10.391 | 162  | 63328    | 18.642 | ng/u1  | 99       |
| 30) Naphthalene               | 10.796 | 128  | 210318   | 18.598 | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.896 | 127  | 89647    | 18.867 | ng/u1  | 100      |
| 33) Hexachlorobutadiene       | 11.090 | 225  | 45493    | 17.694 | ng/u1  | 97       |
| 34) Caprolactam               | 11.636 | 113  | 23908m   | 20.120 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 12.018 | 107  | 75797    | 19.883 | ng/u1  | 98       |
| 36) 2-Methylnaphthalene       | 12.406 | 142  | 152698   | 19.599 | ng/u1  | 99       |

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 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
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Manual Integrations  
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 Supervised By :mohammad ahmed 08/13/2024

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 QLast Update : Fri Aug 09 01:00:03 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.623 | 142  | 156143   | 19.344 | ng/ul  | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.770 | 216  | 95383    | 18.353 | ng/ul  | 97       |
| 40) Hexachlorocyclopentadiene | 12.758 | 237  | 40930    | 20.265 | ng/ul  | 99       |
| 41) 2,4,6-Trichlorophenol     | 13.005 | 196  | 55183    | 18.307 | ng/ul  | 95       |
| 42) 2,4,5-Trichlorophenol     | 13.070 | 196  | 59804    | 18.415 | ng/ul  | 94       |
| 43) 1,1'-Biphenyl             | 13.410 | 154  | 219615   | 18.209 | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 13.451 | 162  | 171150   | 18.263 | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 13.645 | 65   | 37014    | 15.508 | ng/ul  | 96       |
| 47) Dimethylphthalate         | 14.027 | 163  | 226852   | 18.412 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.145 | 165  | 24906    | 14.805 | ng/ul  | 95       |
| 50) Acenaphthylene            | 14.297 | 152  | 268190   | 18.075 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.468 | 138  | 30828    | 16.098 | ng/ul  | 98       |
| 52) Acenaphthene              | 14.638 | 153  | 199440   | 18.054 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.673 | 184  | 13691    | 20.468 | ng/ul# | 70       |
| 55) 4-Nitrophenol             | 14.767 | 109  | 27261    | 17.725 | ng/ul  | 99       |
| 56) Dibenzofuran              | 14.973 | 168  | 284384   | 18.635 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 14.926 | 165  | 40093    | 17.374 | ng/ul  | 99       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.196 | 232  | 56040    | 19.163 | ng/ul# | 98       |
| 59) Diethylphthalate          | 15.396 | 149  | 229874   | 18.477 | ng/ul  | 99       |
| 61) Fluorene                  | 15.619 | 166  | 223685   | 18.746 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.619 | 204  | 114620   | 18.631 | ng/ul  | 95       |
| 63) 4-Nitroaniline            | 15.625 | 138  | 35749    | 19.370 | ng/ul  | 97       |
| 66) 4,6-Dinitro-2-methylph... | 15.690 | 198  | 22789    | 17.555 | ng/ul# | 97       |
| 67) N-Nitrosodiphenylamine    | 15.825 | 169  | 202389   | 17.754 | ng/ul  | 97       |
| 68) 4-Bromophenyl-phenylether | 16.512 | 248  | 78195    | 18.041 | ng/ul  | 95       |
| 69) Hexachlorobenzene         | 16.624 | 284  | 89902    | 17.830 | ng/ul  | 96       |
| 70) Atrazine                  | 16.776 | 200  | 82682    | 18.932 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 16.964 | 266  | 48587    | 18.300 | ng/ul  | 96       |
| 72) Phenanthrene              | 17.358 | 178  | 389712   | 18.201 | ng/ul  | 99       |
| 74) Anthracene                | 17.446 | 178  | 402660   | 18.323 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.375 | 216  | 98976    | 17.372 | ng/ul  | 96       |
| 76) Pentachlorobenzene        | 14.891 | 250  | 101122   | 16.965 | ng/ul  | 97       |
| 77) Carbazole                 | 17.710 | 167  | 327831   | 18.190 | ng/ul  | 100      |
| 78) Di-n-butylphthalate       | 18.286 | 149  | 395457   | 18.441 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.361 | 202  | 459455   | 18.521 | ng/ul  | 98       |
| 82) Pyrene                    | 19.725 | 202  | 492258   | 18.633 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.618 | 149  | 166464   | 18.257 | ng/ul  | 99       |
| 84) 3,3'-Dichlorobenzidine    | 21.458 | 252  | 161113   | 19.390 | ng/ul  | 100      |
| 85) Benzo(a)anthracene        | 21.535 | 228  | 488678   | 18.077 | ng/ul  | 100      |
| 86) Bis(2-ethylhexyl)phtha... | 21.470 | 149  | 250891   | 17.829 | ng/ul  | 97       |
| 87) Chrysene                  | 21.599 | 228  | 459458   | 18.004 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.645 | 149  | 425562   | 17.624 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.673 | 252  | 465803   | 18.065 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.732 | 252  | 460464   | 17.553 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 24.501 | 252  | 443102   | 18.161 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.131 | 276  | 566937   | 17.931 | ng/ul  | 97       |
| 95) Dibenzo(a,h)anthracene    | 28.202 | 278  | 456911   | 17.694 | ng/ul  | 98       |
| 96) Benzo(g,h,i)perylene      | 29.224 | 276  | 435085   | 18.122 | ng/ul  | 98       |

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

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
SSTD020451

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Supervised By :mohammad ahmed 08/13/2024



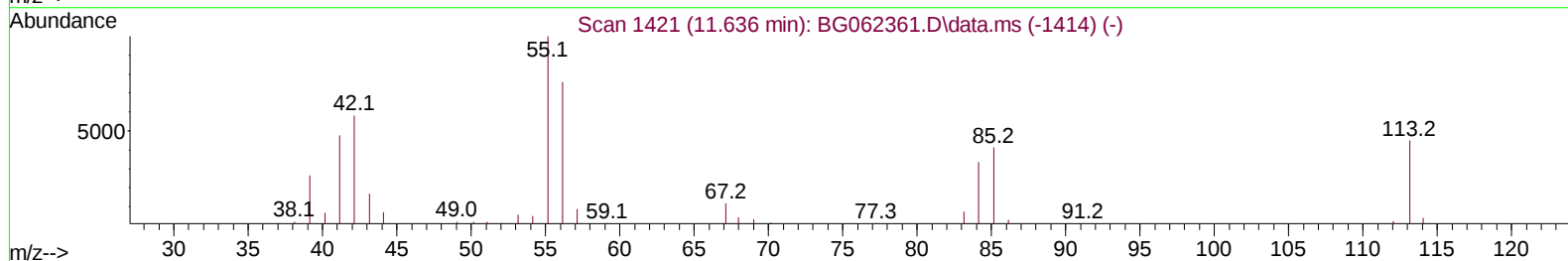
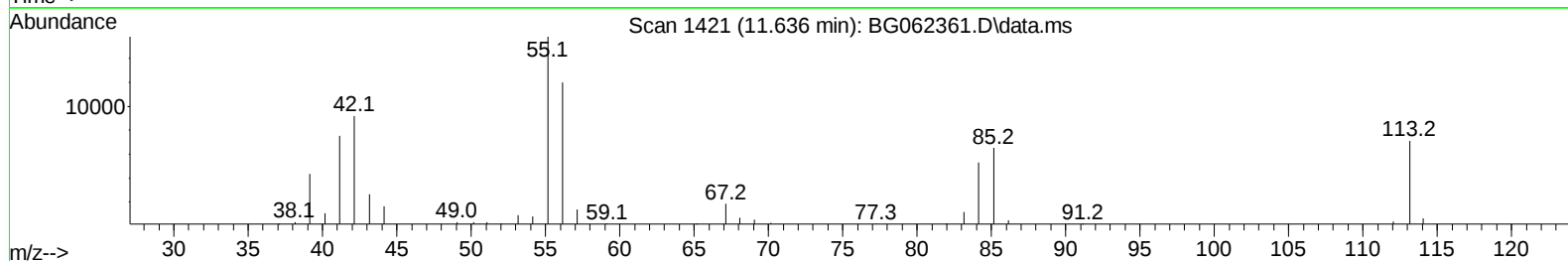
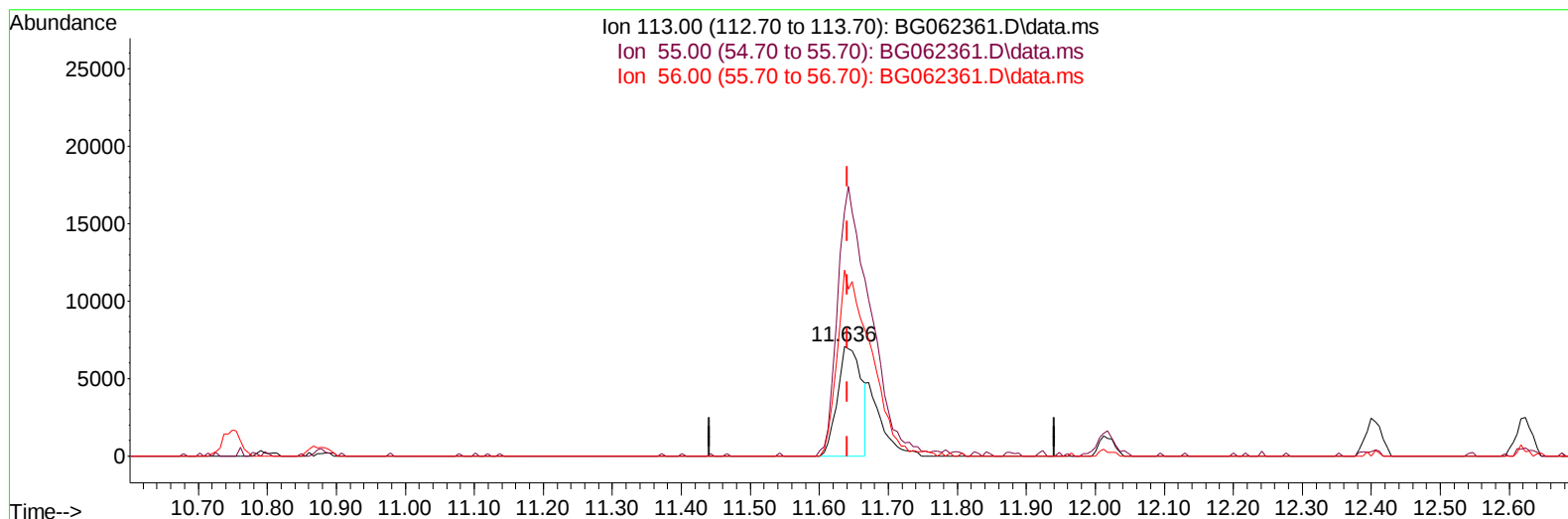
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG081224\  
Data File : BG062361.D  
Acq On : 12 Aug 2024 11:10  
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Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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Quant Title : SVOA CALIBRATION  
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Manual Integrations  
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TIC: BG062361.D\data.ms

(34) Caprolactam

11.636min (-0.004) 14.22 ng/ul

response 16893

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 220.20 | 223.23 |
| 56.00  | 156.80 | 169.21 |
| 0.00   | 0.00   | 0.00   |

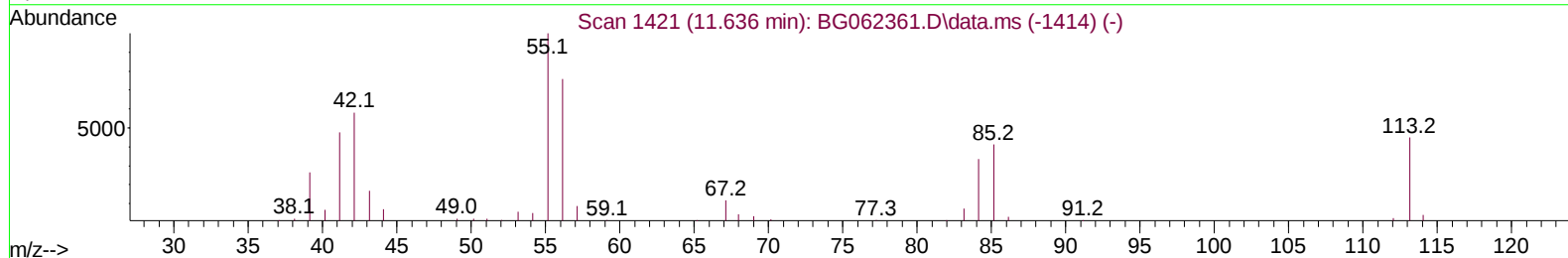
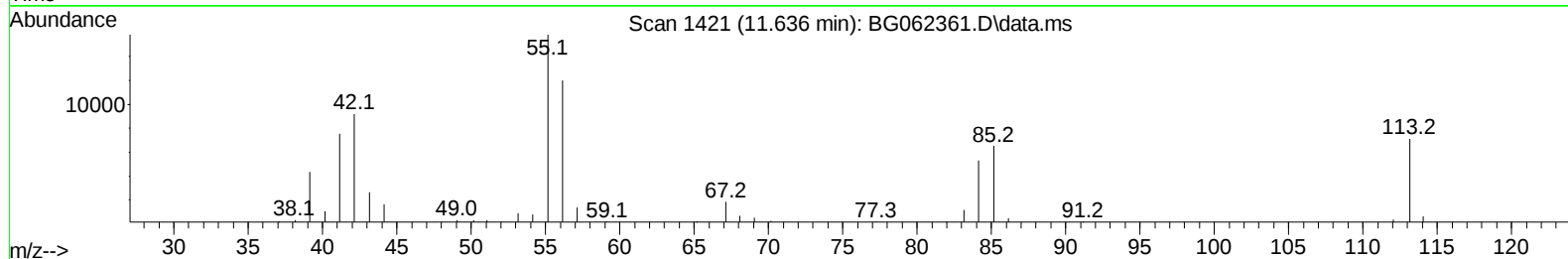
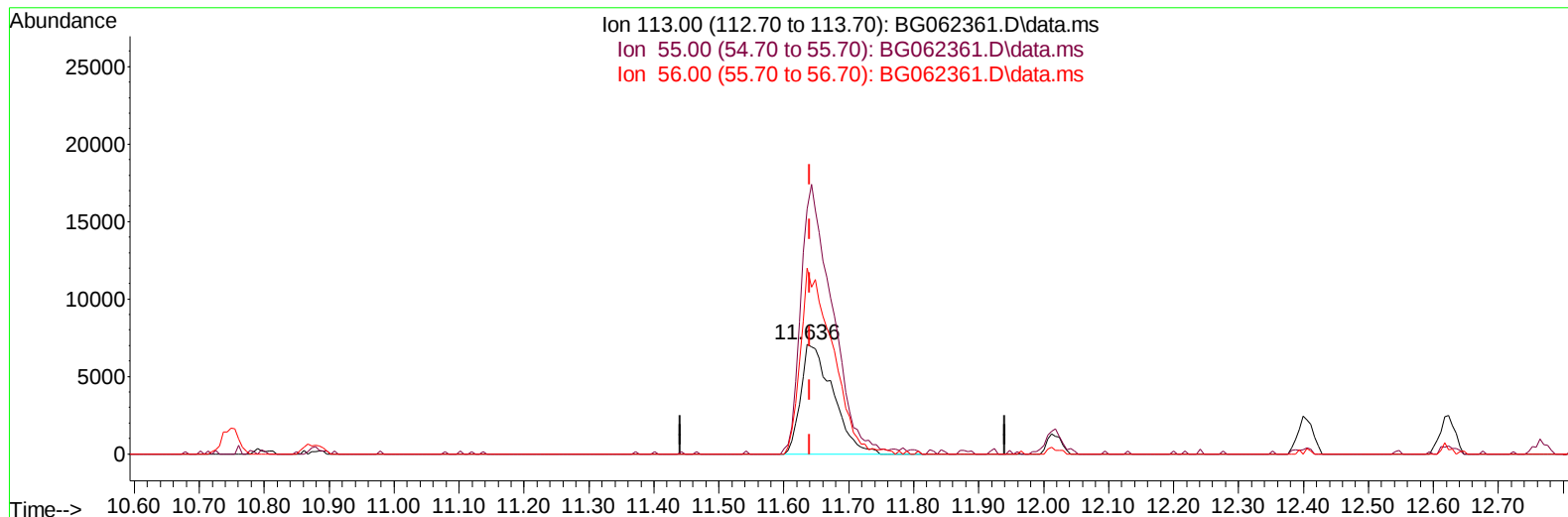
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Instrument :  
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TIC: BG062361.D\data.ms

(34) Caprolactam

11.636min (-0.004) 20.12 ng/ul m

response 23908

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 220.20 | 223.23 |
| 56.00  | 156.80 | 169.21 |
| 0.00   | 0.00   | 0.00   |

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## Instrument :

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| 20) Naphthalene-d8            | 10.749 | 136  | 198953   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.573 | 164  | 159183   | 20.000 | ng/ul  | 0.00     |
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| 79) Chrysene-d12              | 21.558 | 240  | 369124   | 20.000 | ng/ul  | 0.00     |
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| 7) Phenol-d5                  | 7.107  | 99   | 71373    | 17.741 | ng/ul  | 0.00     |
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 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020451

Quant Time: Aug 12 12:31:21 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG080524.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Aug 09 01:00:03 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 36) 2-Methylnaphthalene       | 12.406 | 142  | 152698   | 19.599 | ng/ul  | 99       |
| 37) 1-Methylnaphthalene       | 12.623 | 142  | 156143   | 19.344 | ng/ul  | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.770 | 216  | 95383    | 18.353 | ng/ul  | 97       |
| 40) Hexachlorocyclopentadiene | 12.758 | 237  | 40930    | 20.265 | ng/ul  | 99       |
| 41) 2,4,6-Trichlorophenol     | 13.005 | 196  | 55183    | 18.307 | ng/ul  | 95       |
| 42) 2,4,5-Trichlorophenol     | 13.070 | 196  | 59804    | 18.415 | ng/ul  | 94       |
| 43) 1,1'-Biphenyl             | 13.410 | 154  | 219615   | 18.209 | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 13.451 | 162  | 171150   | 18.263 | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 13.645 | 65   | 37014    | 15.508 | ng/ul  | 96       |
| 47) Dimethylphthalate         | 14.027 | 163  | 226852   | 18.412 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.145 | 165  | 24906    | 14.805 | ng/ul  | 95       |
| 50) Acenaphthylene            | 14.297 | 152  | 268190   | 18.075 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.468 | 138  | 30828    | 16.098 | ng/ul  | 98       |
| 52) Acenaphthene              | 14.638 | 153  | 199440   | 18.054 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.673 | 184  | 13691    | 20.468 | ng/ul# | 70       |
| 55) 4-Nitrophenol             | 14.767 | 109  | 27261    | 17.725 | ng/ul  | 99       |
| 56) Dibenzofuran              | 14.973 | 168  | 284384   | 18.635 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 14.926 | 165  | 40093    | 17.374 | ng/ul  | 99       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.196 | 232  | 56040    | 19.163 | ng/ul# | 98       |
| 59) Diethylphthalate          | 15.396 | 149  | 229874   | 18.477 | ng/ul  | 99       |
| 61) Fluorene                  | 15.619 | 166  | 223685   | 18.746 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.619 | 204  | 114620   | 18.631 | ng/ul  | 95       |
| 63) 4-Nitroaniline            | 15.625 | 138  | 35749    | 19.370 | ng/ul  | 97       |
| 66) 4,6-Dinitro-2-methylph... | 15.690 | 198  | 22789    | 17.555 | ng/ul# | 97       |
| 67) N-Nitrosodiphenylamine    | 15.825 | 169  | 202389   | 17.754 | ng/ul  | 97       |
| 68) 4-Bromophenyl-phenylether | 16.512 | 248  | 78195    | 18.041 | ng/ul  | 95       |
| 69) Hexachlorobenzene         | 16.624 | 284  | 89902    | 17.830 | ng/ul  | 96       |
| 70) Atrazine                  | 16.776 | 200  | 82682    | 18.932 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 16.964 | 266  | 48587    | 18.300 | ng/ul  | 96       |
| 72) Phenanthrene              | 17.358 | 178  | 389712   | 18.201 | ng/ul  | 99       |
| 74) Anthracene                | 17.446 | 178  | 402660   | 18.323 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.375 | 216  | 98976    | 17.372 | ng/ul  | 96       |
| 76) Pentachlorobenzene        | 14.891 | 250  | 101122   | 16.965 | ng/ul  | 97       |
| 77) Carbazole                 | 17.710 | 167  | 327831   | 18.190 | ng/ul  | 100      |
| 78) Di-n-butylphthalate       | 18.286 | 149  | 395457   | 18.441 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.361 | 202  | 459455   | 18.521 | ng/ul  | 98       |
| 82) Pyrene                    | 19.725 | 202  | 492258   | 18.633 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.618 | 149  | 166464   | 18.257 | ng/ul  | 99       |
| 84) 3,3'-Dichlorobenzidine    | 21.458 | 252  | 161113   | 19.390 | ng/ul  | 100      |
| 85) Benzo(a)anthracene        | 21.535 | 228  | 488678   | 18.077 | ng/ul  | 100      |
| 86) Bis(2-ethylhexyl)phtha... | 21.470 | 149  | 250891   | 17.829 | ng/ul  | 97       |
| 87) Chrysene                  | 21.599 | 228  | 459458   | 18.004 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.645 | 149  | 425562   | 17.624 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.673 | 252  | 465803   | 18.065 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.732 | 252  | 460464   | 17.553 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 24.501 | 252  | 443102   | 18.161 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.131 | 276  | 566937   | 17.931 | ng/ul  | 97       |
| 95) Dibenzo(a,h)anthracene    | 28.202 | 278  | 456911   | 17.694 | ng/ul  | 98       |
| 96) Benzo(g,h,i)perylene      | 29.224 | 276  | 435085   | 18.122 | ng/ul  | 98       |

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