

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG011922\  
 Data File : BG052092.D  
 Acq On : 20 Jan 2022 3:58  
 Operator : CG/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020497

Quant Time: Jan 20 12:41:31 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG010622.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jan 06 14:43:02 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 01/20/2022  
 Supervised By :Yogesh Patel 01/23/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.242  | 152  | 32159    | 20.000 | ng/u1  | -0.01    |
| 20) Naphthalene-d8            | 11.085 | 136  | 136868   | 20.000 | ng/u1  | # 0.00   |
| 38) Acenaphthene-d10          | 14.892 | 164  | 98474    | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.635 | 188  | 233579   | 20.000 | ng/u1  | # 0.00   |
| 79) Chrysene-d12              | 21.959 | 240  | 221809   | 20.000 | ng/u1  | # 0.00   |
| 88) Perylene-d12              | 25.448 | 264  | 225582   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.572  | 96   | 6197     | 6.886  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.995  | 84   | 47334    | 16.919 | ng/u1  | -0.01    |
| 7) Phenol-d5                  | 7.384  | 99   | 59022    | 18.752 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.549  | 67   | 35723    | 17.879 | ng/u1  | -0.01    |
| 11) 2-Chlorophenol-d4         | 7.772  | 132  | 42403    | 20.348 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.947  | 113  | 47773    | 19.525 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.417  | 128  | 21717    | 20.080 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.145 | 143  | 25917    | 21.668 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.697 | 165  | 50497    | 21.599 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.208 | 131  | 62356    | 19.152 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.275 | 166  | 152004   | 18.675 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.580 | 160  | 197888   | 20.126 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.068 | 143  | 22438    | 16.488 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.879 | 176  | 135713   | 19.123 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.984 | 200  | 27171    | 18.439 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.735 | 188  | 224452   | 20.257 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 20.014 | 212  | 263314   | 20.627 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.201 | 264  | 245263   | 20.653 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.607  | 88   | 6971     | 6.713  | ng/uL  | 92       |
| 5) Pyridine                   | 4.018  | 79   | 50630    | 17.274 | ng/u1  | 94       |
| 6) Benzaldehyde               | 7.367  | 77   | 41744    | 19.937 | ng/u1  | 94       |
| 8) Phenol                     | 7.414  | 94   | 61012    | 18.991 | ng/u1  | 89       |
| 10) Bis(2-Chloroethyl)ether   | 7.643  | 93   | 43529    | 18.510 | ng/u1  | 95       |
| 12) 2-Chlorophenol            | 7.801  | 128  | 44723    | 21.096 | ng/u1  | 93       |
| 13) 2-Methylphenol            | 8.682  | 108  | 45487    | 19.471 | ng/u1  | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.776  | 45   | 61403    | 17.118 | ng/u1  | 98       |
| 16) Acetophenone              | 9.070  | 105  | 70303    | 18.206 | ng/u1  | 96       |
| 17) N-Nitroso-di-n-propyla... | 9.047  | 70   | 42281    | 17.922 | ng/u1  | 98       |
| 18) 4-Methylphenol            | 9.011  | 108  | 47698    | 18.848 | ng/u1  | 97       |
| 19) Hexachloroethane          | 9.352  | 117  | 17778    | 19.424 | ng/u1# | 71       |
| 22) Nitrobenzene              | 9.458  | 77   | 62404    | 18.603 | ng/u1# | 96       |
| 23) Isophorone                | 9.981  | 82   | 114635   | 18.076 | ng/u1  | 98       |
| 25) 2-Nitrophenol             | 10.180 | 139  | 27383    | 20.831 | ng/u1  | 96       |
| 26) 2,4-Dimethylphenol        | 10.233 | 107  | 58210    | 20.408 | ng/u1  | 97       |
| 27) Bis(2-Chloroethoxy)met... | 10.462 | 93   | 59787    | 18.310 | ng/u1  | 99       |
| 29) 2,4-Dichlorophenol        | 10.727 | 162  | 46088    | 20.072 | ng/u1  | 97       |
| 30) Naphthalene               | 11.138 | 128  | 148466   | 20.018 | ng/u1  | 96       |
| 32) 4-Chloroaniline           | 11.232 | 127  | 62706    | 18.898 | ng/u1  | 94       |
| 33) Hexachlorobutadiene       | 11.420 | 225  | 36700    | 20.052 | ng/u1  | 99       |
| 34) Caprolactam               | 11.978 | 113  | 16124    | 18.043 | ng/u1  | 92       |
| 35) 4-Chloro-3-methylphenol   | 12.342 | 107  | 53012    | 19.996 | ng/u1  | 94       |
| 36) 2-Methylnaphthalene       | 12.730 | 142  | 107420   | 20.333 | ng/u1  | 97       |

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 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
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 Supervised By :Yogesh Patel 01/23/2022

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 QLast Update : Thu Jan 06 14:43:02 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.947 | 142  | 108077   | 19.934 | ng/ul# | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 13.094 | 216  | 69200    | 20.321 | ng/ul  | 99       |
| 40) Hexachlorocyclopentadiene | 13.077 | 237  | 34747    | 14.870 | ng/ul  | 92       |
| 41) 2,4,6-Trichlorophenol     | 13.329 | 196  | 43398    | 20.163 | ng/ul  | 97       |
| 42) 2,4,5-Trichlorophenol     | 13.400 | 196  | 48828    | 21.045 | ng/ul  | 97       |
| 43) 1,1'-Biphenyl             | 13.723 | 154  | 152545   | 20.066 | ng/ul# | 94       |
| 44) 2-Chloronaphthalene       | 13.770 | 162  | 118499   | 20.127 | ng/ul  | 95       |
| 45) 2-Nitroaniline            | 13.958 | 65   | 40825    | 18.093 | ng/ul  | 98       |
| 47) Dimethylphthalate         | 14.322 | 163  | 147247   | 18.346 | ng/ul  | 98       |
| 48) 2,6-Dinitrotoluene        | 14.445 | 165  | 32152    | 19.000 | ng/ul  | 92       |
| 50) Acenaphthylene            | 14.616 | 152  | 192795   | 19.913 | ng/ul  | 95       |
| 51) 3-Nitroaniline            | 14.780 | 138  | 32429    | 21.185 | ng/ul  | 97       |
| 52) Acenaphthene              | 14.950 | 153  | 128027   | 19.888 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 14.986 | 184  | 15981    | 16.018 | ng/ul  | 93       |
| 55) 4-Nitrophenol             | 15.080 | 109  | 25383    | 16.254 | ng/ul  | 89       |
| 56) Dibenzofuran              | 15.285 | 168  | 181075   | 19.367 | ng/ul  | 96       |
| 57) 2,4-Dinitrotoluene        | 15.232 | 165  | 46661    | 19.072 | ng/ul# | 96       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.509 | 232  | 40791    | 18.954 | ng/ul  | 90       |
| 59) Diethylphthalate          | 15.685 | 149  | 149679   | 18.076 | ng/ul  | 95       |
| 61) Fluorene                  | 15.931 | 166  | 152024   | 19.513 | ng/ul  | 95       |
| 62) 4-Chlorophenyl-phenyle... | 15.920 | 204  | 83623    | 19.342 | ng/ul  | 91       |
| 63) 4-Nitroaniline            | 15.937 | 138  | 31975    | 20.331 | ng/ul  | 92       |
| 66) 4,6-Dinitro-2-methylph... | 16.002 | 198  | 24343    | 17.280 | ng/ul  | 98       |
| 67) N-Nitrosodiphenylamine    | 16.131 | 169  | 133272   | 21.234 | ng/ul  | 96       |
| 68) 4-Bromophenyl-phenylether | 16.813 | 248  | 56710    | 20.739 | ng/ul# | 90       |
| 69) Hexachlorobenzene         | 16.948 | 284  | 63185    | 20.834 | ng/ul# | 91       |
| 70) Atrazine                  | 17.071 | 200  | 56978    | 19.567 | ng/ul  | 96       |
| 71) Pentachlorophenol         | 17.283 | 266  | 31900    | 18.835 | ng/ul  | 98       |
| 72) Phenanthrene              | 17.682 | 178  | 241356   | 19.720 | ng/ul  | 98       |
| 74) Anthracene                | 17.770 | 178  | 242561   | 19.798 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.693 | 216  | 75956    | 21.652 | ng/ul  | 98       |
| 76) Pentachlorobenzene        | 15.209 | 250  | 75179    | 22.019 | ng/ul  | 98       |
| 77) Carbazole                 | 18.035 | 167  | 214492   | 19.429 | ng/ul  | 97       |
| 78) Di-n-butylphthalate       | 18.581 | 149  | 253855   | 19.453 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.685 | 202  | 307985   | 20.877 | ng/ul# | 89       |
| 82) Pyrene                    | 20.044 | 202  | 302585   | 20.833 | ng/ul# | 88       |
| 83) Butylbenzylphthalate      | 20.913 | 149  | 110181   | 21.798 | ng/ul# | 94       |
| 84) 3,3'-Dichlorobenzidine    | 21.835 | 252  | 115308   | 22.520 | ng/ul# | 98       |
| 85) Benzo(a)anthracene        | 21.941 | 228  | 301700   | 20.683 | ng/ul  | 97       |
| 86) Bis(2-ethylhexyl)phtha... | 21.818 | 149  | 153839   | 20.811 | ng/ul# | 99       |
| 87) Chrysene                  | 22.011 | 228  | 284496   | 20.254 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 23.122 | 149  | 260327   | 20.891 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.332 | 252  | 314683   | 21.049 | ng/ul# | 95       |
| 91) Benzo(k)fluoranthene      | 24.402 | 252  | 288083   | 20.842 | ng/ul# | 94       |
| 93) Benzo(a)pyrene            | 25.278 | 252  | 290073   | 20.503 | ng/ul# | 95       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.472 | 276  | 335837m  | 20.736 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 29.537 | 278  | 283596   | 20.702 | ng/ul# | 90       |
| 96) Benzo(g,h,i)perylene      | 30.723 | 276  | 280097   | 20.569 | ng/ul# | 90       |

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



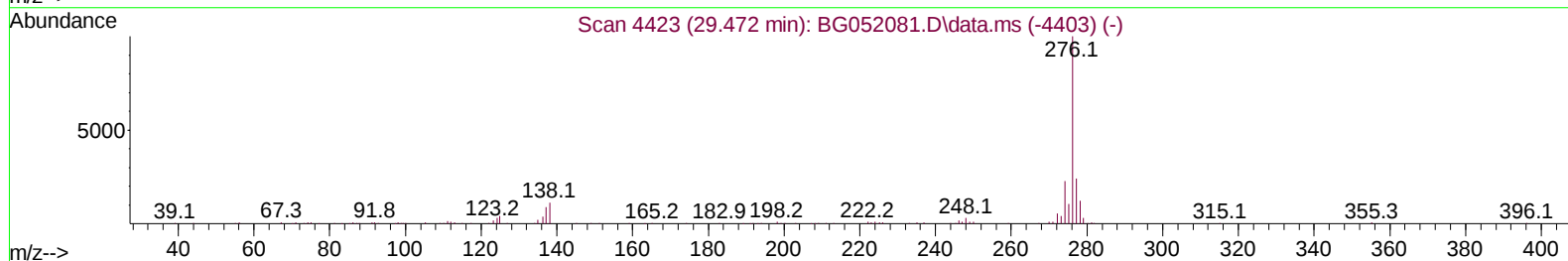
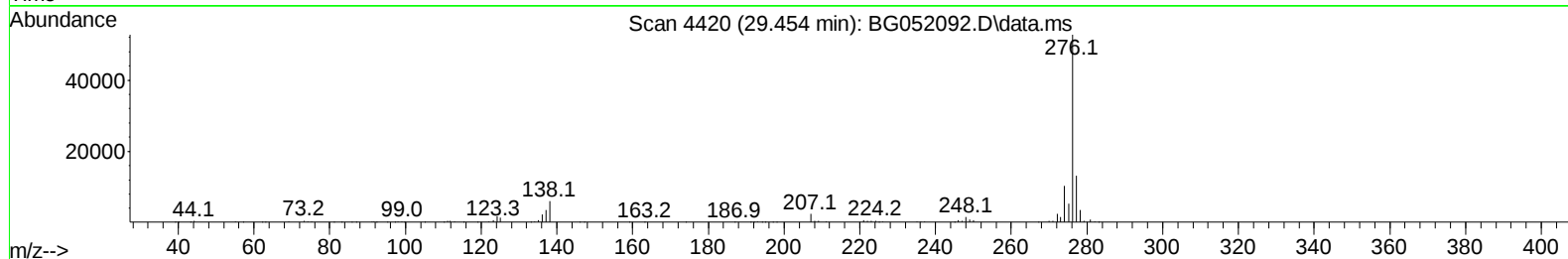
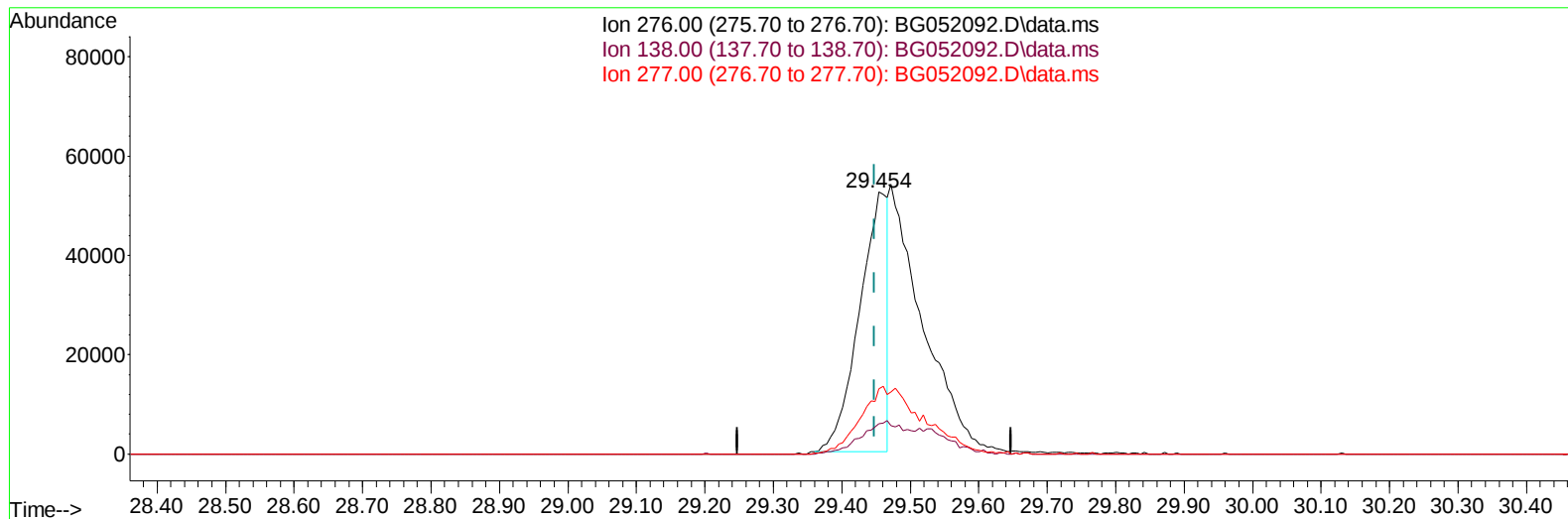
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Sample : SSTDCCC020  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

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TIC: BG052092.D\data.ms

(94) Indeno(1,2,3-cd)pyrene

29.454min (+ 0.007) 9.19 ng/u1

response 148836

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 19.40  | 11.55# |
| 277.00 | 25.60  | 24.88  |
| 0.00   | 0.00   | 0.00   |

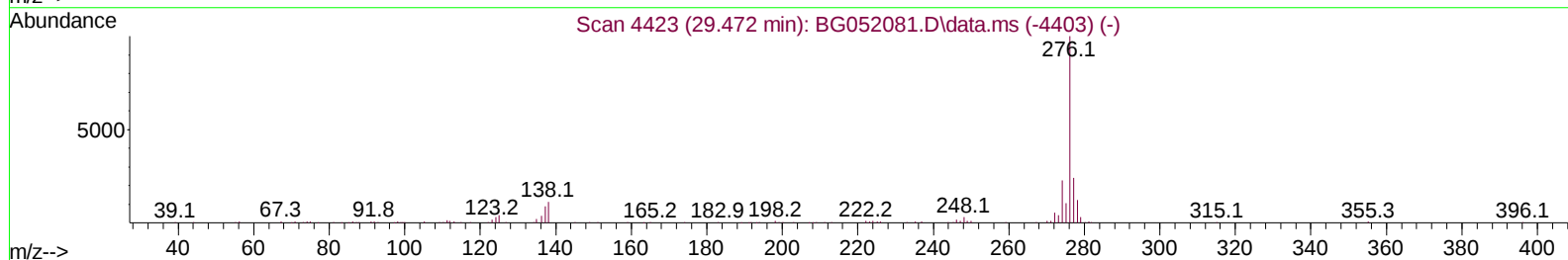
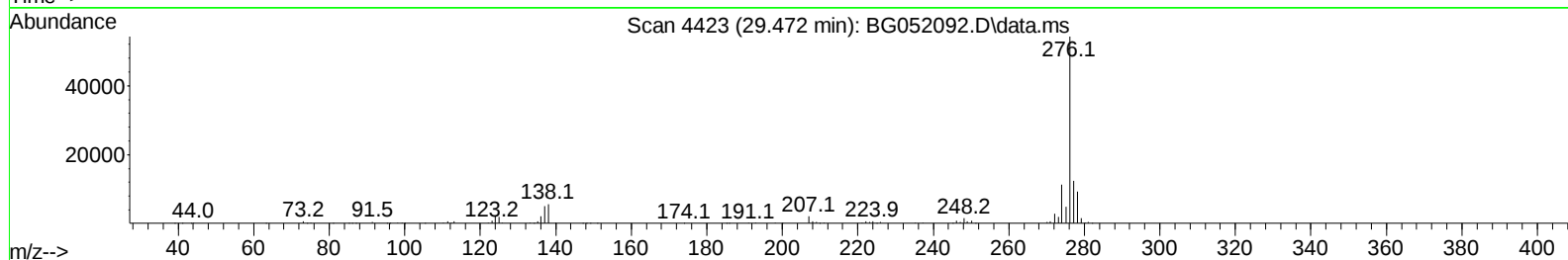
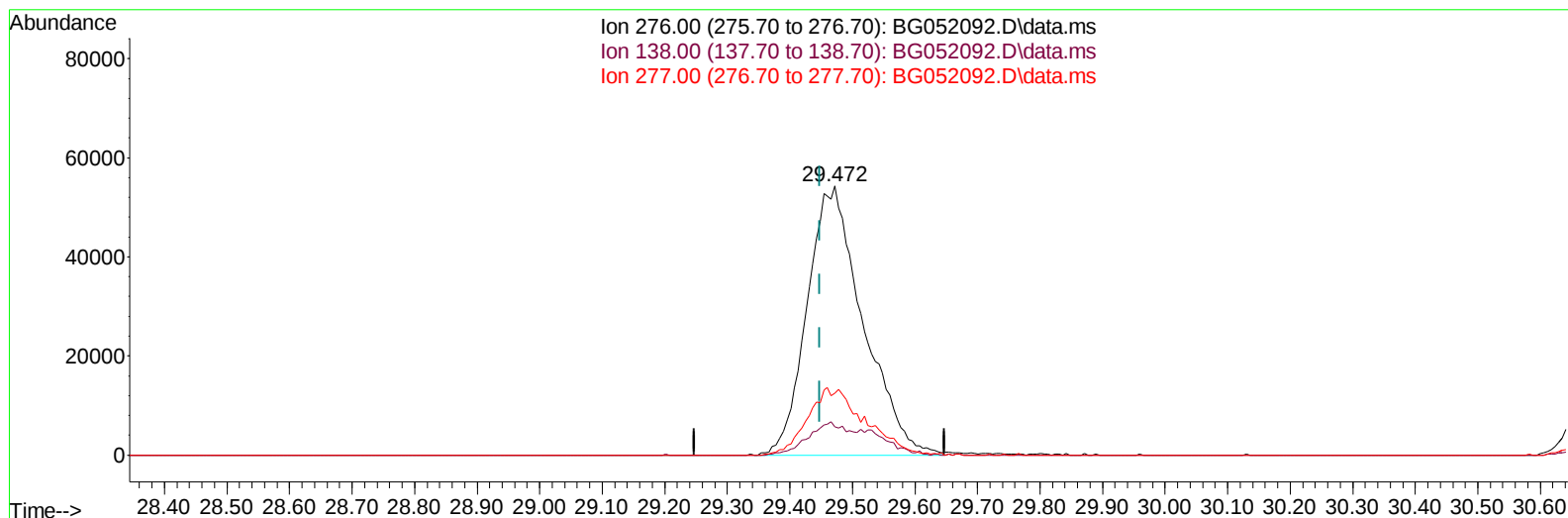
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TIC: BG052092.D\data.ms

(94) Indeno(1,2,3-cd)pyrene

29.472min (+ 0.024) 20.74 ng/ul m

response 335837

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 19.40  | 10.53# |
| 277.00 | 25.60  | 23.08  |
| 0.00   | 0.00   | 0.00   |

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## Instrument :

BNA\_G

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| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.242  | 152  | 32159    | 20.000 | ng/ul  | -0.01    |
| 20) Naphthalene-d8            | 11.085 | 136  | 136868   | 20.000 | ng/ul  | # 0.00   |
| 38) Acenaphthene-d10          | 14.892 | 164  | 98474    | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.635 | 188  | 233579   | 20.000 | ng/ul  | # 0.00   |
| 79) Chrysene-d12              | 21.959 | 240  | 221809   | 20.000 | ng/ul  | # 0.00   |
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| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.572  | 96   | 6197     | 6.886  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.995  | 84   | 47334    | 16.919 | ng/ul  | -0.01    |
| 7) Phenol-d5                  | 7.384  | 99   | 59022    | 18.752 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.549  | 67   | 35723    | 17.879 | ng/ul  | -0.01    |
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|                               |        |      |          |        | Qvalue |          |
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| 17) N-Nitroso-di-n-propyla... | 9.047  | 70   | 42281    | 17.922 | ng/ul  | 98       |
| 18) 4-Methylphenol            | 9.011  | 108  | 47698    | 18.848 | ng/ul  | 97       |
| 19) Hexachloroethane          | 9.352  | 117  | 17778    | 19.424 | ng/ul# | 71       |
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| 27) Bis(2-Chloroethoxy)met... | 10.462 | 93   | 59787    | 18.310 | ng/ul  | 99       |
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| 30) Naphthalene               | 11.138 | 128  | 148466   | 20.018 | ng/ul  | 96       |
| 32) 4-Chloroaniline           | 11.232 | 127  | 62706    | 18.898 | ng/ul  | 94       |
| 33) Hexachlorobutadiene       | 11.420 | 225  | 36700    | 20.052 | ng/ul  | 99       |
| 34) Caprolactam               | 11.978 | 113  | 16124    | 18.043 | ng/ul  | 92       |
| 35) 4-Chloro-3-methylphenol   | 12.342 | 107  | 53012    | 19.996 | ng/ul  | 94       |

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 ClientSampleId :  
 SSTD020497

Quant Time: Jan 20 12:41:31 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG010622.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jan 06 14:43:02 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 01/20/2022  
 Supervised By :Yogesh Patel 01/23/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 36) 2-Methylnaphthalene       | 12.730 | 142  | 107420   | 20.333 | ng/ul  | 97       |
| 37) 1-Methylnaphthalene       | 12.947 | 142  | 108077   | 19.934 | ng/ul# | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 13.094 | 216  | 69200    | 20.321 | ng/ul  | 99       |
| 40) Hexachlorocyclopentadiene | 13.077 | 237  | 34747    | 14.870 | ng/ul  | 92       |
| 41) 2,4,6-Trichlorophenol     | 13.329 | 196  | 43398    | 20.163 | ng/ul  | 97       |
| 42) 2,4,5-Trichlorophenol     | 13.400 | 196  | 48828    | 21.045 | ng/ul  | 97       |
| 43) 1,1'-Biphenyl             | 13.723 | 154  | 152545   | 20.066 | ng/ul# | 94       |
| 44) 2-Chloronaphthalene       | 13.770 | 162  | 118499   | 20.127 | ng/ul  | 95       |
| 45) 2-Nitroaniline            | 13.958 | 65   | 40825    | 18.093 | ng/ul  | 98       |
| 47) Dimethylphthalate         | 14.322 | 163  | 147247   | 18.346 | ng/ul  | 98       |
| 48) 2,6-Dinitrotoluene        | 14.445 | 165  | 32152    | 19.000 | ng/ul  | 92       |
| 50) Acenaphthylene            | 14.616 | 152  | 192795   | 19.913 | ng/ul  | 95       |
| 51) 3-Nitroaniline            | 14.780 | 138  | 32429    | 21.185 | ng/ul  | 97       |
| 52) Acenaphthene              | 14.950 | 153  | 128027   | 19.888 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 14.986 | 184  | 15981    | 16.018 | ng/ul  | 93       |
| 55) 4-Nitrophenol             | 15.080 | 109  | 25383    | 16.254 | ng/ul  | 89       |
| 56) Dibenzofuran              | 15.285 | 168  | 181075   | 19.367 | ng/ul  | 96       |
| 57) 2,4-Dinitrotoluene        | 15.232 | 165  | 46661    | 19.072 | ng/ul# | 96       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.509 | 232  | 40791    | 18.954 | ng/ul  | 90       |
| 59) Diethylphthalate          | 15.685 | 149  | 149679   | 18.076 | ng/ul  | 95       |
| 61) Fluorene                  | 15.931 | 166  | 152024   | 19.513 | ng/ul  | 95       |
| 62) 4-Chlorophenyl-phenyle... | 15.920 | 204  | 83623    | 19.342 | ng/ul  | 91       |
| 63) 4-Nitroaniline            | 15.937 | 138  | 31975    | 20.331 | ng/ul  | 92       |
| 66) 4,6-Dinitro-2-methylph... | 16.002 | 198  | 24343    | 17.280 | ng/ul  | 98       |
| 67) N-Nitrosodiphenylamine    | 16.131 | 169  | 133272   | 21.234 | ng/ul  | 96       |
| 68) 4-Bromophenyl-phenylether | 16.813 | 248  | 56710    | 20.739 | ng/ul# | 90       |
| 69) Hexachlorobenzene         | 16.948 | 284  | 63185    | 20.834 | ng/ul# | 91       |
| 70) Atrazine                  | 17.071 | 200  | 56978    | 19.567 | ng/ul  | 96       |
| 71) Pentachlorophenol         | 17.283 | 266  | 31900    | 18.835 | ng/ul  | 98       |
| 72) Phenanthrene              | 17.682 | 178  | 241356   | 19.720 | ng/ul  | 98       |
| 74) Anthracene                | 17.770 | 178  | 242561   | 19.798 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.693 | 216  | 75956    | 21.652 | ng/uL  | 98       |
| 76) Pentachlorobenzene        | 15.209 | 250  | 75179    | 22.019 | ng/uL  | 98       |
| 77) Carbazole                 | 18.035 | 167  | 214492   | 19.429 | ng/ul  | 97       |
| 78) Di-n-butylphthalate       | 18.581 | 149  | 253855   | 19.453 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.685 | 202  | 307985   | 20.877 | ng/ul# | 89       |
| 82) Pyrene                    | 20.044 | 202  | 302585   | 20.833 | ng/ul# | 88       |
| 83) Butylbenzylphthalate      | 20.913 | 149  | 110181   | 21.798 | ng/ul# | 94       |
| 84) 3,3'-Dichlorobenzidine    | 21.835 | 252  | 115308   | 22.520 | ng/ul# | 98       |
| 85) Benzo(a)anthracene        | 21.941 | 228  | 301700   | 20.683 | ng/ul  | 97       |
| 86) Bis(2-ethylhexyl)phtha... | 21.818 | 149  | 153839   | 20.811 | ng/ul# | 99       |
| 87) Chrysene                  | 22.011 | 228  | 284496   | 20.254 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 23.122 | 149  | 260327   | 20.891 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.332 | 252  | 314683   | 21.049 | ng/ul# | 95       |
| 91) Benzo(k)fluoranthene      | 24.402 | 252  | 288083   | 20.842 | ng/ul# | 94       |
| 93) Benzo(a)pyrene            | 25.278 | 252  | 290073   | 20.503 | ng/ul# | 95       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.472 | 276  | 335837m  | 20.736 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 29.537 | 278  | 283596   | 20.702 | ng/ul# | 90       |
| 96) Benzo(g,h,i)perylene      | 30.723 | 276  | 280097   | 20.569 | ng/ul# | 90       |

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

**Instrument :**

BNA\_G

**ClientSampleId :**

SSTD020497

**Manual Integrations**

**APPROVED**

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