

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031824\  
 Data File : VN081452.D  
 Acq On : 18 Mar 2024 16:03  
 Operator : JC\MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Quant Time: Mar 19 05:42:11 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031824W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 05:35:05 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 03/19/2024  
 Supervised By : Mahesh Dadoda 03/19/2024

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 460364               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 758169               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 702545               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 344121               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 595480               | 101.430 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 202.860%# |         |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 506989               | 105.958 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 211.920%# |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 1889815              | 109.260 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 218.520%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 703191               | 115.379 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 64 - 133 |      | Recovery = 230.760%# |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 614271               | 99.095  | ug/l   | 98       |
| 3) Chloromethane             | 2.359          | 50   | 567704               | 91.984  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.512          | 62   | 693322               | 100.098 | ug/l   | 98       |
| 5) Bromomethane              | 2.942          | 94   | 460781               | 94.067  | ug/l   | 93       |
| 6) Chloroethane              | 3.112          | 64   | 467485               | 98.301  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 1056411              | 102.337 | ug/l   | 93       |
| 8) Diethyl Ether             | 3.959          | 74   | 359851               | 105.334 | ug/l   | 77       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 593408               | 101.170 | ug/l # | 87       |
| 10) Methyl Iodide            | 4.589          | 142  | 703427               | 120.428 | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 484299               | 473.363 | ug/l # | 85       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 553544               | 101.885 | ug/l   | 86       |
| 13) Acrolein                 | 4.177          | 56   | 376600               | 410.215 | ug/l   | 100      |
| 14) Allyl chloride           | 5.018          | 41   | 699810               | 102.793 | ug/l # | 82       |
| 15) Acrylonitrile            | 5.712          | 53   | 1357843              | 496.095 | ug/l   | 97       |
| 16) Acetone                  | 4.418          | 43   | 841049               | 443.282 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.712          | 76   | 1532805              | 98.313  | ug/l   | 98       |
| 18) Methyl Acetate           | 5.018          | 43   | 602953               | 103.079 | ug/l # | 87       |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 1835135              | 107.928 | ug/l   | 96       |
| 20) Methylene Chloride       | 5.277          | 84   | 613648               | 98.736  | ug/l # | 84       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 611003               | 100.863 | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.671          | 45   | 1740623              | 110.037 | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.600          | 43   | 6951932              | 552.130 | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 1066769              | 100.687 | ug/l   | 96       |
| 25) 2-Butanone               | 7.483          | 43   | 1625459              | 499.480 | ug/l # | 86       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 1010523              | 109.968 | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 710627               | 103.680 | ug/l   | 85       |
| 28) Bromochloromethane       | 7.812          | 49   | 385733               | 89.386  | ug/l # | 55       |
| 29) Tetrahydrofuran          | 7.835          | 42   | 1129983              | 515.430 | ug/l # | 78       |
| 30) Chloroform               | 7.965          | 83   | 1165759              | 102.781 | ug/l   | 97       |
| 31) Cyclohexane              | 8.259          | 56   | 923899               | 96.708  | ug/l # | 73       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 1071463              | 104.124 | ug/l # | 93       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 882930               | 109.650 | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.559          | 43   | 715269               | 103.735 | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 960643               | 108.905 | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.600          | 83   | 1074820              | 119.527 | ug/l   | 85       |
| 40) Benzene                  | 8.606          | 78   | 2553293              | 108.460 | ug/l   | 97       |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 03/19/2024  
 Supervised By :Mahesh Dadoda 03/19/2024

Quant Time: Mar 19 05:42:11 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031824W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 05:35:05 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 380450   | 104.334  | ug/l # | 91       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 880663   | 106.299  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 1230389  | 107.651  | ug/l # | 91       |
| 44) Trichloroethene           | 9.353  | 130  | 712040   | 107.541  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 630414   | 110.495  | ug/l   | 97       |
| 46) Dibromomethane            | 9.712  | 93   | 464047   | 107.102  | ug/l # | 87       |
| 47) Bromodichloromethane      | 9.888  | 83   | 938206   | 110.752  | ug/l # | 98       |
| 48) Methyl methacrylate       | 9.682  | 41   | 590366   | 111.987  | ug/l # | 85       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 258597   | 2041.213 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 3835898  | 550.013  | ug/l   | 91       |
| 52) Toluene                   | 10.629 | 92   | 1698621  | 113.523  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 1051847  | 114.989  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 1105784  | 112.749  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 638772   | 106.079  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 993179   | 99.988   | ug/l # | 84       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 1091349  | 110.556  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 1017930  | 268.656  | ug/l # | 86       |
| 59) 2-Hexanone                | 11.194 | 43   | 2911114  | 564.574  | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.359 | 129  | 741019   | 111.896  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 678862   | 110.578  | ug/l   | 97       |
| 64) Tetrachloroethene         | 11.106 | 164  | 716955   | 106.762  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.894 | 112  | 1790633  | 107.816  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 687317   | 111.660  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.965 | 91   | 3360632  | 116.488  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.070 | 106  | 2593691  | 239.818  | ug/l   | 94       |
| 69) o-Xylene                  | 12.400 | 106  | 1247481  | 117.492  | ug/l   | 96       |
| 70) Styrene                   | 12.412 | 104  | 2096232  | 122.414  | ug/l   | 96       |
| 71) Bromoform                 | 12.582 | 173  | 521708   | 112.789  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.700 | 105  | 3332020  | 113.592  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 1221772  | 115.095  | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 841944   | 97.623   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 827844m  | 100.799  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 754297   | 104.097  | ug/l   | 72       |
| 78) n-propylbenzene           | 13.035 | 91   | 4010676  | 115.778  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 2267320  | 109.358  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 2796554  | 115.427  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 339872   | 111.576  | ug/l   | 86       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 2295424  | 112.296  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 2337071  | 111.862  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 2823356  | 115.946  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 3486991  | 116.752  | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 2920609  | 119.627  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 1417510  | 106.473  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 1416330  | 102.742  | ug/l   | 96       |
| 89) n-Butylbenzene            | 14.059 | 91   | 2644571  | 122.157  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.335 | 117  | 514728   | 111.324  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 1328929  | 103.710  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 189998   | 103.517  | ug/l   | 71       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 851569   | 114.935  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 352486   | 108.429  | ug/l   | 94       |
| 95) Naphthalene               | 15.641 | 128  | 2817582  | 117.360  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 835235   | 112.073  | ug/l   | 96       |

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Quant Time: Mar 19 05:42:11 2024  
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Quant Title : SW846 8260  
QLast Update : Tue Mar 19 05:35:05 2024  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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