

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042821\  
 Data File : VN066803.D  
 Acq On : 28 Apr 2021 11:35  
 Operator : JC/MD  
 Sample : VN0428WBS01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0428WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/29/2021 5:52:08 PM

Quant Time: Apr 28 14:57:48 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 27 16:02:50 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                        |                |      |                    |       |        |          |
| Internal Standards           |                |      |                    |       |        |          |
| 1) Pentafluorobenzene        | 7.591          | 168  | 324394             | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.516          | 114  | 493150             | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.348         | 117  | 453711             | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.287         | 152  | 214564             | 50.00 | ug/l   | 0.00     |
|                              |                |      |                    |       |        |          |
| System Monitoring Compounds  |                |      |                    |       |        |          |
| 33) 1,2-Dichloroethane-d4    | 7.953          | 65   | 179530             | 43.07 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 86.14%  |       |        |          |
| 35) Dibromofluoromethane     | 7.513          | 113  | 155515             | 51.09 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 102.18% |       |        |          |
| 50) Toluene-d8               | 10.029         | 98   | 602699             | 50.44 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 100.88% |       |        |          |
| 62) 4-Bromofluorobenzene     | 12.346         | 95   | 201185             | 49.76 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 99.52%  |       |        |          |
|                              |                |      |                    |       |        |          |
| Target Compounds             |                |      |                    |       | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.835          | 85   | 61085              | 17.38 | ug/l   | 98       |
| 3) Chloromethane             | 2.036          | 50   | 83519              | 18.10 | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.162          | 62   | 81731              | 18.14 | ug/l   | 100      |
| 5) Bromomethane              | 2.514          | 94   | 50225              | 17.08 | ug/l   | 98       |
| 6) Chloroethane              | 2.659          | 64   | 48255              | 17.20 | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 2.970          | 101  | 92607              | 17.09 | ug/l   | 99       |
| 8) Diethyl Ether             | 3.356          | 74   | 37390              | 17.00 | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 3.694          | 101  | 57643              | 17.98 | ug/l   | 99       |
| 10) Methyl Iodide            | 3.884          | 142  | 83132              | 16.98 | ug/l   | 96       |
| 11) Tert butyl alcohol       | 4.700          | 59   | 49684              | 77.30 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.675          | 96   | 56821              | 17.50 | ug/l   | 99       |
| 13) Acrolein                 | 3.546          | 56   | 42772              | 79.68 | ug/l   | 98       |
| 14) Allyl chloride           | 4.249          | 41   | 99297              | 16.28 | ug/l   | 93       |
| 15) Acrylonitrile            | 4.893          | 53   | 144553             | 84.82 | ug/l   | 99       |
| 16) Acetone                  | 3.753          | 43   | 111358             | 70.82 | ug/l   | 99       |
| 17) Carbon Disulfide         | 3.986          | 76   | 171655             | 17.23 | ug/l   | 99       |
| 18) Methyl Acetate           | 4.249          | 43   | 68750              | 16.96 | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 4.957          | 73   | 181941             | 16.37 | ug/l   | 99       |
| 20) Methylene Chloride       | 4.469          | 84   | 69399              | 17.42 | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 4.952          | 96   | 62291              | 17.84 | ug/l   | 97       |
| 22) Diisopropyl ether        | 5.864          | 45   | 203091             | 16.69 | ug/l   | 96       |
| 23) Vinyl Acetate            | 5.805          | 43   | 802662             | 79.28 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 5.756          | 63   | 116800             | 17.33 | ug/l   | 99       |
| 25) 2-Butanone               | 6.746          | 43   | 174842             | 79.09 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.733          | 77   | 96242              | 16.82 | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.743          | 96   | 70341              | 17.41 | ug/l   | 97       |
| 28) Bromochloromethane       | 7.111          | 49   | 53228              | 17.21 | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.127          | 42   | 120434             | 79.73 | ug/l   | 99       |
| 30) Chloroform               | 7.293          | 83   | 112778             | 17.24 | ug/l   | 99       |
| 31) Cyclohexane              | 7.577          | 56   | 106790             | 16.57 | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.494          | 97   | 94975              | 16.99 | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 7.717          | 75   | 84111              | 18.36 | ug/l   | 100      |
| 37) Ethyl Acetate            | 6.843          | 43   | 79697              | 16.37 | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.698          | 117  | 83022              | 18.89 | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.015          | 83   | 102177             | 18.85 | ug/l   | 95       |
| 40) Benzene                  | 7.969          | 78   | 273852             | 19.25 | ug/l   | 98       |

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 Quant Title : SW846 8260  
 QLast Update : Tue Apr 27 16:02:50 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.103  | 41   | 39774m   | 17.97  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.052  | 62   | 82485    | 17.17  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.092  | 43   | 129254   | 16.71  | ug/l   | 98       |
| 44) Trichloroethene           | 8.768  | 130  | 68602    | 19.83  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.052  | 63   | 71940    | 18.95  | ug/l   | 99       |
| 46) Dibromomethane            | 9.144  | 93   | 43851    | 18.91  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.337  | 83   | 90237    | 18.57  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.136  | 41   | 55678    | 16.51  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.136  | 88   | 18805    | 372.59 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 9.921  | 43   | 362281   | 86.20  | ug/l   | 99       |
| 52) Toluene                   | 10.093 | 92   | 164579   | 19.24  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.324 | 75   | 96001    | 18.46  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.777  | 75   | 108087   | 18.55  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.501 | 97   | 64884    | 19.74  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.372 | 69   | 81947    | 17.29  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.648 | 76   | 105990   | 18.85  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.634  | 63   | 74666    | 83.45  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.694 | 43   | 208652   | 77.70  | ug/l   | 97       |
| 60) Dibromochloromethane      | 10.841 | 129  | 69651    | 19.46  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 10.946 | 107  | 64148    | 19.46  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.570 | 164  | 62811    | 20.94  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.375 | 112  | 174021   | 19.07  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.450 | 131  | 64444    | 18.93  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.453 | 91   | 298058   | 18.62  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.565 | 106  | 228433   | 38.91  | ug/l   | 99       |
| 69) o-Xylene                  | 11.890 | 106  | 109665   | 18.71  | ug/l   | 99       |
| 70) Styrene                   | 11.911 | 104  | 170055   | 18.08  | ug/l   | 99       |
| 71) Bromoform                 | 12.072 | 173  | 48015    | 19.48  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.193 | 105  | 289474   | 18.40  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.038 | 43   | 19997m   | 5.38   | ug/l   |          |
| 75) 1,1,2,2-Tetrachloroethane | 12.448 | 83   | 91964    | 17.77  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.499 | 75   | 75093m   | 16.60  | ug/l   |          |
| 77) Bromobenzene              | 12.469 | 156  | 74714    | 19.26  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.536 | 91   | 320753   | 18.49  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.617 | 91   | 200275   | 18.15  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.678 | 105  | 242256   | 18.24  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.249 | 75   | 20588    | 18.07  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.719 | 91   | 191809   | 18.01  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.936 | 119  | 206441   | 18.15  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 12.984 | 105  | 226183   | 18.09  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.116 | 105  | 265811   | 18.02  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.234 | 119  | 230176   | 18.18  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.228 | 146  | 124214   | 18.83  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.306 | 146  | 131916   | 18.81  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.561 | 91   | 182400   | 16.90  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.816 | 117  | 45926    | 17.33  | ug/l   | 85       |
| 91) 1,2-Dichlorobenzene       | 13.598 | 146  | 121746   | 18.21  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.221 | 75   | 13161    | 14.18  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 14.854 | 180  | 70877    | 19.14  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 14.947 | 225  | 41994    | 20.44  | ug/l   | 98       |
| 95) Naphthalene               | 15.073 | 128  | 156494   | 16.42  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.251 | 180  | 65335    | 18.24  | ug/l   | 98       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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