

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111720\  
 Data File : VN064684.D  
 Acq On : 17 Nov 2020 16:43  
 Operator : JC/MD  
 Sample : L4772-03MS  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-4MS

Manual Integrations  
 APPROVED

MMDadoda  
 11/18/2020 5:15:50 PM

Quant Time: Nov 18 02:53:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 12:09:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 290254   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 507183   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 501099   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 271539   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 239602   | 47.39 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.78%  |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 173742   | 50.31 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.62% |      |
| 50) Toluene-d8            | 10.06  | 98  | 645698   | 48.38 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.76%  |      |
| 62) 4-Bromofluorobenzene  | 12.37  | 95  | 258221   | 51.16 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.32% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 173572  | 45.938  | ug/l | 98     |
| 3) Chloromethane              | 2.04 | 50  | 186992  | 40.745  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.17 | 62  | 211762  | 44.933  | ug/l | 95     |
| 5) Bromomethane               | 2.53 | 94  | 140951  | 46.816  | ug/l | 98     |
| 6) Chloroethane               | 2.67 | 64  | 140162  | 46.452  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 367873  | 53.010  | ug/l | 97     |
| 8) Diethyl Ether              | 3.37 | 74  | 120202  | 49.049  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 157483  | 47.788  | ug/l | 99     |
| 10) Methyl Iodide             | 3.91 | 142 | 183079  | 47.811  | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.75 | 59  | 158674  | 284.593 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.70 | 96  | 144748  | 46.630  | ug/l | 95     |
| 13) Acrolein                  | 3.57 | 56  | 81322   | 235.144 | ug/l | 97     |
| 14) Allyl chloride            | 4.28 | 41  | 266997  | 43.969  | ug/l | 96     |
| 15) Acrylonitrile             | 4.94 | 53  | 389707  | 251.055 | ug/l | 99     |
| 16) Acetone                   | 3.78 | 43  | 369309  | 191.765 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.01 | 76  | 399815  | 43.069  | ug/l | 99     |
| 18) Methyl Acetate            | 4.28 | 43  | 186974  | 49.384  | ug/l | 95     |
| 19) Methyl tert-butyl Ether   | 5.00 | 73  | 544120  | 48.703  | ug/l | 98     |
| 20) Methylene Chloride        | 4.50 | 84  | 174527  | 45.676  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 166414  | 47.215  | ug/l | 99     |
| 22) Diisopropyl ether         | 5.91 | 45  | 596668  | 46.289  | ug/l | 98     |
| 23) Vinyl Acetate             | 5.85 | 43  | 2471315 | 235.674 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 331604  | 46.815  | ug/l | 99     |
| 25) 2-Butanone                | 6.79 | 43  | 562840  | 229.376 | ug/l | 96     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 307866  | 48.014  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 236211  | 57.837  | ug/l | 95     |
| 28) Bromochloromethane        | 7.15 | 49  | 155775  | 44.742  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 367211  | 243.920 | ug/l | 96     |
| 30) Chloroform                | 7.33 | 83  | 362772  | 48.723  | ug/l | 98     |
| 31) Cyclohexane               | 7.61 | 56  | 261139  | 42.490  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 325551  | 49.298  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 260017  | 48.529  | ug/l | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 237570  | 43.783  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 288002  | 50.294  | ug/l | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 12:09:03 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response  | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|-----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 257802    | 53.674   | ug/l   | 97       |
| 40) Benzene                    | 8.00  | 78   | 737341    | 46.831   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.13  | 41   | 120296    | 50.641   | ug/l   | 90       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 309414    | 48.697   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 425638    | 49.019   | ug/l   | 98       |
| 44) Trichloroethene            | 8.80  | 130  | 191389    | 48.180   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 203566    | 48.456   | ug/l   | 99       |
| 46) Dibromomethane             | 9.17  | 93   | 143534    | 51.902   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.37  | 83   | 302234    | 50.827   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.17  | 41   | 217819    | 49.713   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 62762     | 1087.521 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 1358529   | 268.285  | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 476121    | 49.581   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 321300    | 50.966   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 325185    | 48.245   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 199718    | 53.328   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 288895    | 47.000   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 329811    | 50.454   | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 1008901   | 244.425  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 224405    | 53.519   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 199614    | 52.548   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 175651    | 45.506   | ug/l   | 96       |
| 65) Chlorobenzene              | 11.41 | 112  | 520620    | 47.393   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 204583    | 49.921   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 2931004   | 150.002  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.60 | 106  | 1199603   | 169.284  | ug/l   | 99       |
| 69) o-Xylene                   | 11.92 | 106  | 400308    | 58.459   | ug/l   | 99       |
| 70) Stvrene                    | 11.94 | 104  | 601993    | 52.244   | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 147676    | 48.042   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 3448702   | 159.790  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.04 | 43   | 484307    | 46.358   | ug/l # | 92       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 294525    | 44.429   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 283796m   | 43.136   | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 223815    | 42.475   | ug/l   | 95       |
| 78) n-propylbenzene            | 12.56 | 91   | 5260828   | 213.803  | ug/l   | 95       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 948833    | 60.798   | ug/l   | 86       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 1698495   | 95.393   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 101303    | 42.992   | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 728300    | 44.561   | ug/l   | 97       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 995920    | 71.618   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 11901740m | 664.935  | ug/l   |          |
| 85) sec-Butylbenzene           | 13.14 | 105  | 2377879   | 135.017  | ug/l   | 86       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 1260614   | 79.577   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.25 | 146  | 441035    | 48.419   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 463745    | 49.266   | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.59 | 91   | 1550625   | 113.847  | ug/l # | 86       |
| 90) Hexachloroethane           | 13.86 | 117  | 369112    | 120.788  | ug/l # | 54       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 443656    | 50.636   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 81130     | 61.469   | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene     | 14.88 | 180  | 252223    | 57.466   | ug/l # | 86       |

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Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 94) Hexachlorobutadiene    | 14.98 | 225  | 112586   | 63.113  | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 2081547  | 133.262 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 245614   | 57.807  | ug/l  | 97       |

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

