

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111020\  
 Data File : VN064523.D  
 Acq On : 10 Nov 2020 14:11  
 Operator : JC/MD  
 Sample : VN1110WBS02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1110WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 11/11/2020 1:01:28 PM

Quant Time: Nov 11 02:39:21 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         | 7.63  | 168  | 301608   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.55  | 114  | 534338   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.38 | 117  | 506250   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.32 | 152  | 225349   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4     | 7.99  | 65   | 268176   | 51.05  | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 102.10% |          |
| 35) Dibromofluoromethane      | 7.55  | 113  | 183641   | 50.48  | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 100.96% |          |
| 50) Toluene-d8                | 10.06 | 98   | 685108   | 48.72  | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 97.44%  |          |
| 62) 4-Bromofluorobenzene      | 12.38 | 95   | 250514   | 47.11  | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 94.22%  |          |
| Target Compounds              |       |      |          |        |         |          |
|                               |       |      |          |        | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 1.84  | 85   | 74589    | 18.998 | ug/l    | 100      |
| 3) Chloromethane              | 2.04  | 50   | 86289    | 18.094 | ug/l    | 98       |
| 4) Vinyl Chloride             | 2.17  | 62   | 92509    | 18.890 | ug/l    | 98       |
| 5) Bromomethane               | 2.54  | 94   | 58598    | 18.730 | ug/l    | 95       |
| 6) Chloroethane               | 2.68  | 64   | 60553    | 19.313 | ug/l    | 96       |
| 7) Trichlorofluoromethane     | 2.99  | 101  | 146397   | 20.302 | ug/l    | 94       |
| 8) Diethyl Ether              | 3.38  | 74   | 50812    | 19.953 | ug/l    | 99       |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71  | 101  | 66959    | 19.554 | ug/l    | 99       |
| 10) Methyl Iodide             | 3.91  | 142  | 73035    | 18.355 | ug/l #  | 96       |
| 11) Tert butyl alcohol        | 4.75  | 59   | 50831    | 87.737 | ug/l #  | 81       |
| 12) 1,1-Dichloroethene        | 3.69  | 96   | 58843    | 18.242 | ug/l    | 96       |
| 13) Acrolein                  | 3.57  | 56   | 33162    | 92.279 | ug/l    | 97       |
| 14) Allyl chloride            | 4.28  | 41   | 110760   | 17.553 | ug/l    | 98       |
| 15) Acrylonitrile             | 4.94  | 53   | 159034   | 98.595 | ug/l    | 100      |
| 16) Acetone                   | 3.78  | 43   | 183844   | 91.868 | ug/l    | 99       |
| 17) Carbon Disulfide          | 4.01  | 76   | 176666   | 18.315 | ug/l    | 99       |
| 18) Methyl Acetate            | 4.29  | 43   | 73555    | 18.696 | ug/l    | 97       |
| 19) Methyl tert-butyl Ether   | 5.00  | 73   | 212422   | 18.298 | ug/l    | 96       |
| 20) Methylene Chloride        | 4.51  | 84   | 75433    | 18.998 | ug/l    | 98       |
| 21) trans-1,2-Dichloroethene  | 4.99  | 96   | 66620    | 18.190 | ug/l    | 99       |
| 22) Diisopropyl ether         | 5.91  | 45   | 249904   | 18.657 | ug/l    | 97       |
| 23) Vinyl Acetate             | 5.85  | 43   | 999722   | 91.748 | ug/l    | 98       |
| 24) 1,1-Dichloroethane        | 5.80  | 63   | 140910   | 19.145 | ug/l    | 100      |
| 25) 2-Butanone                | 6.79  | 43   | 236601   | 92.793 | ug/l    | 97       |
| 26) 2,2-Dichloropropane       | 6.78  | 77   | 127867   | 19.191 | ug/l    | 100      |
| 27) cis-1,2-Dichloroethene    | 6.78  | 96   | 78437    | 18.482 | ug/l    | 99       |
| 28) Bromochloromethane        | 7.15  | 49   | 67551    | 18.672 | ug/l    | 98       |
| 29) Tetrahydrofuran           | 7.17  | 42   | 145404   | 92.949 | ug/l    | 100      |
| 30) Chloroform                | 7.33  | 83   | 148773   | 19.229 | ug/l    | 98       |
| 31) Cyclohexane               | 7.61  | 56   | 109315   | 17.117 | ug/l #  | 95       |
| 32) 1,1,1-Trichloroethane     | 7.53  | 97   | 133703   | 19.484 | ug/l    | 99       |
| 36) 1,1-Dichloropropene       | 7.75  | 75   | 104613   | 18.532 | ug/l    | 98       |
| 37) Ethyl Acetate             | 6.89  | 43   | 98944    | 17.769 | ug/l    | 100      |
| 38) Carbon Tetrachloride      | 7.74  | 117  | 115798   | 19.194 | ug/l    | 97       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 88413    | 17.472  | ug/l   | 93       |
| 40) Benzene                    | 8.00  | 78   | 303941   | 18.323  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.14  | 41   | 50395    | 20.137  | ug/l # | 84       |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 129847   | 19.397  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.13  | 43   | 165585   | 18.101  | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 75718    | 18.093  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 83442    | 18.853  | ug/l   | 97       |
| 46) Dibromomethane             | 9.18  | 93   | 55914    | 19.191  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 121322   | 19.366  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.17  | 41   | 84111    | 18.221  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 21845    | 359.287 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 9.96  | 43   | 508062   | 95.234  | ug/l   | 100      |
| 52) Toluene                    | 10.13 | 92   | 188011   | 18.584  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 124006   | 18.671  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 131405   | 18.505  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 74723    | 18.938  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 102760   | 17.088  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 130027   | 18.880  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.67  | 63   | 272944   | 102.853 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 363073   | 86.143  | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.87 | 129  | 87077    | 19.712  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 77546    | 19.376  | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.60 | 164  | 71714    | 18.390  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.41 | 112  | 200231   | 18.042  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 78918    | 19.061  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.49 | 91   | 348707   | 17.664  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.59 | 106  | 256948   | 35.891  | ug/l   | 96       |
| 69) o-Xylene                   | 11.92 | 106  | 119962   | 17.341  | ug/l   | 95       |
| 70) Styrene                    | 11.94 | 104  | 209501   | 17.997  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 54317    | 18.302  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.23 | 105  | 323340   | 18.052  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 137242   | 16.629  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 105595   | 19.194  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 103384m  | 18.935  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 80294    | 18.361  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.57 | 91   | 374901   | 18.359  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 235465   | 18.181  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 270383   | 18.298  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.28 | 75   | 32090    | 16.410  | ug/l   | 88       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 247787   | 18.269  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 210608   | 18.249  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 273499   | 18.412  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 276729   | 18.933  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 245243   | 18.654  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 139384   | 18.439  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 138974   | 17.790  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.59 | 91   | 212384   | 18.789  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.85 | 117  | 48036    | 18.941  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 138420   | 19.036  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 21729    | 19.838  | ug/l   | 100      |

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QLast Update : Wed Nov 04 12:09:03 2020  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 55811    | 17.276 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 32584    | 22.010 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 169331   | 16.331 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.29 | 180  | 58333    | 18.524 | ug/l  | 96       |

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

