

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN112818\  
 Data File : VN052527.D  
 Acq On : 28 Nov 2018 18:35  
 Operator : MD\SY  
 Sample : VN1128WBSD01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1128WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 11/29/2018 9:35:01 AM

Quant Time: Nov 29 01:36:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 28 01:11:38 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1155962  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1802667  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1573817  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 699193   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 607327   | 48.25 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.50%  |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 554762   | 49.92 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.84%  |      |
| 50) Toluene-d8              | 10.09  | 98  | 2149384  | 49.69 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.38%  |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 731245   | 50.30 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.60% |      |

| Target Compounds              |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 190251  | 17.577  | ug/l   | 98     |
| 3) Chloromethane              | 2.06 | 50  | 251239  | 17.585  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.19 | 62  | 264547  | 18.025  | ug/l   | 99     |
| 5) Bromomethane               | 2.58 | 94  | 151525  | 16.547  | ug/l   | 99     |
| 6) Chloroethane               | 2.71 | 64  | 161480  | 18.164  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.02 | 101 | 338697  | 18.787  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.41 | 74  | 128148  | 19.249  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.77 | 101 | 206670  | 18.372  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.96 | 142 | 300632  | 20.065  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.78 | 59  | 56029   | 88.920  | ug/l # | 87     |
| 12) 1,1-Dichloroethene        | 3.74 | 96  | 206916  | 19.109  | ug/l   | 99     |
| 13) Acrolein                  | 3.61 | 56  | 87067   | 101.702 | ug/l   | 99     |
| 14) Allyl chloride            | 4.33 | 41  | 340964  | 18.270  | ug/l   | 98     |
| 15) Acrylonitrile             | 4.99 | 53  | 350148  | 87.786  | ug/l   | 100    |
| 16) Acetone                   | 3.82 | 43  | 233885  | 70.452  | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.06 | 76  | 583407  | 17.121  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.33 | 43  | 165989  | 17.431  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 559872  | 19.433  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.55 | 84  | 233650  | 17.985  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.05 | 96  | 220708  | 19.084  | ug/l   | 99     |
| 22) Diisopropyl ether         | 5.95 | 45  | 739413  | 18.862  | ug/l   | 99     |
| 23) Vinyl Acetate             | 5.90 | 43  | 2235674 | 91.563  | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 421895  | 18.849  | ug/l   | 99     |
| 25) 2-Butanone                | 6.84 | 43  | 384853  | 81.789  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.83 | 77  | 262671  | 16.955  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 255996  | 19.003  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.19 | 49  | 197726  | 19.341  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 7.21 | 42  | 258905  | 85.307  | ug/l   | 97     |
| 30) Chloroform                | 7.37 | 83  | 406945  | 18.223  | ug/l   | 100    |
| 31) Cyclohexane               | 7.65 | 56  | 410975  | 18.742  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 335604  | 18.968  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.79 | 75  | 316489  | 18.592  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.93 | 43  | 180365  | 17.361  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.77 | 117 | 281502  | 18.267  | ug/l   | 100    |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 382650   | 18.494  | ug/l   | 99       |
| 40) Benzene                    | 8.04  | 78   | 976176   | 19.242  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.18  | 41   | 109781   | 19.328  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 287294   | 18.703  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 320386   | 18.223  | ug/l # | 87       |
| 44) Trichloroethene            | 8.84  | 130  | 255570   | 19.667  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 256185   | 18.994  | ug/l   | 98       |
| 46) Dibromomethane             | 9.21  | 93   | 138439   | 18.541  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.40  | 83   | 299775   | 18.466  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.20  | 41   | 166104   | 18.119  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 35354    | 371.590 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 875620   | 88.766  | ug/l   | 99       |
| 52) Toluene                    | 10.16 | 92   | 650806   | 21.591  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 287640   | 18.418  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 351635   | 18.789  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 202706   | 19.119  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 250446   | 18.788  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 351827   | 18.793  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 725630   | 94.317  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.75 | 43   | 565324   | 85.390  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 209857   | 18.224  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 195578   | 18.572  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.63 | 164  | 238578   | 19.552  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.43 | 112  | 635144   | 19.572  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 213530   | 18.924  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.51 | 91   | 1136327  | 19.996  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.62 | 106  | 885428   | 41.852  | ug/l   | 98       |
| 69) o-Xylene                   | 11.95 | 106  | 425575   | 20.715  | ug/l   | 100      |
| 70) Styrene                    | 11.96 | 104  | 659117   | 20.143  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 131380   | 17.585  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.25 | 105  | 1085628  | 19.791  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 273406   | 19.728  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 229311   | 18.376  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 193646m  | 17.960  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 267440   | 19.724  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.59 | 91   | 1219489  | 19.569  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 723655   | 19.500  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 883394   | 20.192  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 51670    | 16.004  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 724140   | 19.361  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 777200   | 19.927  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 910429   | 20.765  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 1027827  | 19.348  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 892684   | 19.729  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 461243   | 19.447  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 450524   | 19.285  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.62 | 91   | 737017   | 19.586  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.88 | 117  | 131063   | 17.107  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 445895   | 19.678  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 32246    | 18.068  | ug/l   | 99       |

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QLast Update : Wed Nov 28 01:11:38 2018  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 226214   | 20.022 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 137772   | 18.900 | ug/l  | 98       |
| 95) Naphthalene            | 15.13 | 128  | 528333   | 22.122 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 210432   | 20.159 | ug/l  | 99       |

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

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