

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042220\  
 Data File : VN061148.D  
 Acq On : 22 Apr 2020 23:18  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/23/2020 11:35:40 AM

Quant Time: Apr 23 08:51:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042220W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 22 15:26:40 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.40  | 168  | 187211   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.35  | 114  | 313158   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.21 | 117  | 289775   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.15 | 152  | 146251   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 7.77   | 65  | 120872   | 48.69 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.38% |      |
| 35) Dibromofluoromethane  | 7.31   | 113 | 87742    | 49.10 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.20% |      |
| 50) Toluene-d8            | 9.88   | 98  | 363703   | 47.49 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.98% |      |
| 62) 4-Bromofluorobenzene  | 12.21  | 95  | 136994   | 47.76 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.52% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.72 | 85  | 84231   | 48.387  | ug/l | 97     |
| 3) Chloromethane              | 1.91 | 50  | 97811   | 46.003  | ug/l | 97     |
| 4) Vinyl Chloride             | 2.03 | 62  | 119077  | 46.147  | ug/l | 97     |
| 5) Bromomethane               | 2.39 | 94  | 56559   | 45.099  | ug/l | 99     |
| 6) Chloroethane               | 2.52 | 64  | 62897   | 46.141  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 2.82 | 101 | 134775  | 48.993  | ug/l | 99     |
| 8) Diethyl Ether              | 3.18 | 74  | 57121   | 44.946  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.51 | 101 | 86252   | 46.918  | ug/l | 99     |
| 10) Methyl Iodide             | 3.69 | 142 | 125463  | 47.323  | ug/l | 100    |
| 11) Tert butyl alcohol        | 4.43 | 59  | 64850   | 202.740 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.49 | 96  | 86784   | 46.370  | ug/l | 96     |
| 13) Acrolein                  | 3.36 | 56  | 56418   | 230.833 | ug/l | 98     |
| 14) Allyl chloride            | 4.03 | 41  | 131592  | 54.073  | ug/l | 97     |
| 15) Acrylonitrile             | 4.64 | 53  | 227788  | 229.847 | ug/l | 100    |
| 16) Acetone                   | 3.54 | 43  | 188856  | 221.188 | ug/l | 99     |
| 17) Carbon Disulfide          | 3.78 | 76  | 255948  | 45.731  | ug/l | 100    |
| 18) Methyl Acetate            | 4.02 | 43  | 129622  | 43.831  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 4.69 | 73  | 307339  | 46.491  | ug/l | 99     |
| 20) Methylene Chloride        | 4.24 | 84  | 98829   | 45.568  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 4.70 | 96  | 97031   | 43.266  | ug/l | 97     |
| 22) Diisopropyl ether         | 5.61 | 45  | 320811  | 46.847  | ug/l | 98     |
| 23) Vinyl Acetate             | 5.55 | 43  | 1307621 | 238.269 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.51 | 63  | 180838  | 47.722  | ug/l | 99     |
| 25) 2-Butanone                | 6.51 | 43  | 301522  | 222.894 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.50 | 77  | 142259  | 41.688  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 6.51 | 96  | 111613  | 44.842  | ug/l | 98     |
| 28) Bromochloromethane        | 6.90 | 49  | 82649   | 50.763  | ug/l | 100    |
| 29) Tetrahydrofuran           | 6.90 | 42  | 205656  | 220.828 | ug/l | 100    |
| 30) Chloroform                | 7.09 | 83  | 183762  | 47.953  | ug/l | 98     |
| 31) Cyclohexane               | 7.37 | 56  | 168757  | 44.281  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.29 | 97  | 161461  | 47.243  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.52 | 75  | 137975  | 45.081  | ug/l | 100    |
| 37) Ethyl Acetate             | 6.61 | 43  | 133095  | 43.390  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 7.50 | 117 | 122656  | 45.779  | ug/l | 99     |

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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          | 8.85  | 83   | 168189   | 44.945  | ug/l   | 99       |
| 40) Benzene                    | 7.78  | 78   | 412002   | 45.463  | ug/l   | 100      |
| 41) Methacrylonitrile          | 6.87  | 41   | 64647m   | 44.392  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 7.87  | 62   | 146058   | 45.232  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 7.92  | 43   | 231767   | 44.488  | ug/l   | 99       |
| 44) Trichloroethene            | 8.60  | 130  | 117840   | 44.725  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 8.89  | 63   | 108061   | 45.069  | ug/l   | 98       |
| 46) Dibromomethane             | 8.98  | 93   | 70646    | 45.980  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.18  | 83   | 142851   | 47.167  | ug/l   | 100      |
| 48) Methyl methacrylate        | 8.98  | 41   | 107884   | 43.982  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 8.97  | 88   | 20250    | 779.935 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.78  | 43   | 670562   | 220.525 | ug/l   | 100      |
| 52) Toluene                    | 9.95  | 92   | 257884   | 45.457  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.18 | 75   | 164707   | 44.442  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.63  | 75   | 174545   | 45.271  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.36 | 97   | 99811    | 45.663  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.23 | 69   | 155473   | 46.679  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.51 | 76   | 170081   | 45.848  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.49  | 63   | 410476   | 239.022 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.56 | 43   | 491110   | 218.623 | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.70 | 129  | 106588   | 46.635  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.81 | 107  | 106283   | 47.183  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.43 | 164  | 125535   | 42.318  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.24 | 112  | 270910   | 45.990  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.32 | 131  | 97335    | 46.624  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.32 | 91   | 506994   | 46.218  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.43 | 106  | 380564   | 92.902  | ug/l   | 99       |
| 69) o-Xylene                   | 11.76 | 106  | 183177   | 46.315  | ug/l   | 99       |
| 70) Styrene                    | 11.77 | 104  | 304192   | 47.492  | ug/l   | 99       |
| 71) Bromoform                  | 11.93 | 173  | 75561    | 48.010  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.06 | 105  | 490924   | 44.432  | ug/l   | 100      |
| 74) N-amyl acetate             | 11.89 | 43   | 213378   | 42.962  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.32 | 83   | 135928   | 45.907  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.36 | 75   | 140942m  | 41.779  | ug/l   |          |
| 77) Bromobenzene               | 12.33 | 156  | 117698   | 43.721  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.40 | 91   | 575505   | 44.407  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.48 | 91   | 332931   | 44.243  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.55 | 105  | 412521   | 44.307  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.11 | 75   | 51652    | 40.210  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.58 | 91   | 353006   | 44.216  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.81 | 119  | 346863   | 44.362  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.85 | 105  | 413494   | 44.593  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 12.99 | 105  | 468901   | 44.318  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.10 | 119  | 426855   | 44.450  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.09 | 146  | 213524   | 44.753  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.17 | 146  | 216250   | 44.651  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.43 | 91   | 391501   | 44.680  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.68 | 117  | 37341    | 38.605  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.46 | 146  | 204071   | 45.973  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.08 | 75   | 28267    | 43.979  | ug/l   | 99       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.71 | 180  | 134819   | 45.411 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.82 | 225  | 58004    | 44.800 | ug/l  | 97       |
| 95) Naphthalene            | 14.93 | 128  | 412296   | 44.978 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.10 | 180  | 127961   | 44.854 | ug/l  | 99       |

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

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