

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081420\  
 Data File : VN062945.D  
 Acq On : 14 Aug 2020 20:07  
 Operator : JC/MD  
 Sample : VN0814WBSD02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0814WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 8/17/2020 11:43:48 AM

Quant Time: Aug 17 09:53:34 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:26:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 250266   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 414066   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 395879   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 179409   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 172694   | 41.73 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 83.46% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 126252   | 44.57 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.14% |      |
| 50) Toluene-d8            | 10.06  | 98  | 472951   | 42.77 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 85.54% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 171260   | 40.98 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 81.96% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 59215  | 16.523  | ug/l   | 98     |
| 3) Chloromethane              | 2.03 | 50  | 74897  | 22.147  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.16 | 62  | 68439  | 21.577  | ug/l   | 100    |
| 5) Bromomethane               | 2.51 | 94  | 35955  | 17.124  | ug/l   | 98     |
| 6) Chloroethane               | 2.65 | 64  | 40321  | 19.323  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 2.97 | 101 | 85172  | 15.059  | ug/l   | 100    |
| 8) Diethyl Ether              | 3.37 | 74  | 29911  | 18.473  | ug/l   | 86     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 42502  | 18.071  | ug/l   | 96     |
| 10) Methyl Iodide             | 3.91 | 142 | 47438  | 17.304  | ug/l   | 92     |
| 11) Tert butyl alcohol        | 4.74 | 59  | 56589  | 83.427  | ug/l # | 86     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 39788  | 17.918  | ug/l   | 93     |
| 13) Acrolein                  | 3.57 | 56  | 33835  | 82.385  | ug/l   | 99     |
| 14) Allyl chloride            | 4.27 | 41  | 82987  | 18.940  | ug/l   | 92     |
| 15) Acrylonitrile             | 4.93 | 53  | 157806 | 100.305 | ug/l   | 98     |
| 16) Acetone                   | 3.78 | 43  | 138249 | 92.447  | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.00 | 76  | 106761 | 17.031  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.28 | 43  | 80488  | 22.126  | ug/l   | 94     |
| 19) Methyl tert-butyl Ether   | 5.00 | 73  | 168633 | 17.392  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.51 | 84  | 55225  | 19.719  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 43033  | 17.183  | ug/l   | 98     |
| 22) Diisopropyl ether         | 5.90 | 45  | 202256 | 21.684  | ug/l   | 94     |
| 23) Vinyl Acetate             | 5.85 | 43  | 662493 | 93.378  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 103353 | 18.908  | ug/l   | 98     |
| 25) 2-Butanone                | 6.79 | 43  | 211407 | 99.814  | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 72915  | 14.471  | ug/l   | 83     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 53788  | 17.904  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.15 | 49  | 53107  | 20.131  | ug/l   | 90     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 141977 | 103.181 | ug/l   | 93     |
| 30) Chloroform                | 7.33 | 83  | 101469 | 17.467  | ug/l   | 95     |
| 31) Cyclohexane               | 7.61 | 56  | 88703  | 17.678  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 81651  | 15.721  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 64201  | 15.924  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.88 | 43  | 77790  | 18.470  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 67071  | 14.066  | ug/l   | 97     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 73745    | 15.199  | ug/l   | 98       |
| 40) Benzene                    | 8.00  | 78   | 211270   | 17.560  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.13  | 41   | 37735m   | 19.856  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 81422    | 15.901  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 125869   | 17.918  | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 47665    | 16.262  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 61292    | 18.823  | ug/l   | 98       |
| 46) Dibromomethane             | 9.17  | 93   | 37603    | 17.625  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.37  | 83   | 80914    | 16.886  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 63225    | 18.298  | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 22134    | 345.713 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 446982   | 98.342  | ug/l   | 97       |
| 52) Toluene                    | 10.12 | 92   | 125961   | 16.957  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 84004    | 15.938  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 90620    | 17.124  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 56538    | 17.821  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 81511    | 17.069  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 97931    | 18.167  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 91994    | 68.154  | ug/l   | 96       |
| 59) 2-Hexanone                 | 10.72 | 43   | 321832   | 94.923  | ug/l   | 97       |
| 60) Dibromochloromethane       | 10.88 | 129  | 60840    | 16.805  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 56210    | 17.955  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.60 | 164  | 40759    | 15.957  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.41 | 112  | 136649   | 16.513  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 54175    | 16.302  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.48 | 91   | 233163   | 15.745  | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.60 | 106  | 172596   | 32.108  | ug/l   | 94       |
| 69) o-Xylene                   | 11.92 | 106  | 82683    | 16.413  | ug/l   | 97       |
| 70) Styrene                    | 11.94 | 104  | 147751   | 16.686  | ug/l   | 96       |
| 71) Bromoform                  | 12.10 | 173  | 44217    | 16.262  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.22 | 105  | 225715   | 16.708  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 105281   | 19.231  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 91060    | 19.148  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 84527m   | 17.470  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 61448    | 18.306  | ug/l   | 95       |
| 78) n-propylbenzene            | 12.57 | 91   | 269205   | 16.976  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 167405   | 16.834  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 196066   | 16.729  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 27294    | 17.221  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 172312   | 16.814  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 159793   | 16.113  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 187226   | 16.698  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 217300   | 16.686  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 183649   | 15.887  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 102082   | 17.023  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 102358   | 17.019  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 151696   | 15.516  | ug/l   | 97       |
| 90) Hexachloroethane           | 13.85 | 117  | 40565    | 16.280  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 98241    | 17.475  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 16915    | 16.568  | ug/l   | 96       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.89 | 180  | 42811    | 16.559 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 29317    | 15.501 | ug/l  | 98       |
| 95) Naphthalene            | 15.11 | 128  | 109899   | 16.045 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 44247    | 16.794 | ug/l  | 98       |

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

