

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112420\  
 Data File : VN064827.D  
 Acq On : 24 Nov 2020 22:41  
 Operator : JC/MD  
 Sample : VN1124WBSD02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1124WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 11/25/2020 9:51:56 AM

Quant Time: Nov 25 05:44:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 187697   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 302770   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 273425   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 130502   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65    | 105952   | 48.56    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 97.12%  |
| 35) Dibromofluoromethane  | 7.55   | 113   | 92061    | 50.82    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 101.64% |
| 50) Toluene-d8            | 10.06  | 98    | 351105   | 47.43    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 94.86%  |
| 62) 4-Bromofluorobenzene  | 12.37  | 95    | 124099   | 46.84    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 93.68%  |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 28162  | 17.312 | ug/l   | 97     |
| 3) Chloromethane              | 2.04 | 50  | 36721  | 17.371 | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.17 | 62  | 38714  | 17.566 | ug/l   | 99     |
| 5) Bromomethane               | 2.54 | 94  | 24414  | 16.884 | ug/l   | 99     |
| 6) Chloroethane               | 2.68 | 64  | 25012  | 18.349 | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 55734  | 18.294 | ug/l   | 100    |
| 8) Diethyl Ether              | 3.38 | 74  | 22466  | 18.682 | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 32341  | 17.696 | ug/l   | 96     |
| 10) Methyl Iodide             | 3.91 | 142 | 31067  | 13.106 | ug/l   | 97     |
| 11) Tert butyl alcohol        | 4.75 | 59  | 28892  | 84.900 | ug/l # | 88     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 33274  | 18.281 | ug/l   | 97     |
| 13) Acrolein                  | 3.57 | 56  | 14641  | 70.436 | ug/l   | 100    |
| 14) Allyl chloride            | 4.28 | 41  | 53794  | 17.919 | ug/l   | 99     |
| 15) Acrylonitrile             | 4.94 | 53  | 83217  | 88.519 | ug/l   | 99     |
| 16) Acetone                   | 3.78 | 43  | 68556  | 95.573 | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.01 | 76  | 85525  | 18.202 | ug/l   | 99     |
| 18) Methyl Acetate            | 4.28 | 43  | 38959  | 18.064 | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.00 | 73  | 108941 | 18.662 | ug/l   | 98     |
| 20) Methylene Chloride        | 4.51 | 84  | 41402  | 18.419 | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 36227  | 17.923 | ug/l   | 91     |
| 22) Diisopropyl ether         | 5.91 | 45  | 115025 | 19.143 | ug/l   | 96     |
| 23) Vinyl Acetate             | 5.85 | 43  | 457663 | 95.248 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 66674  | 18.567 | ug/l   | 99     |
| 25) 2-Butanone                | 6.79 | 43  | 107477 | 92.429 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 50712  | 16.283 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 42852  | 18.841 | ug/l   | 96     |
| 28) Bromochloromethane        | 7.15 | 49  | 31134  | 18.952 | ug/l   | 95     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 72279  | 90.047 | ug/l   | 98     |
| 30) Chloroform                | 7.33 | 83  | 68764  | 18.569 | ug/l   | 99     |
| 31) Cyclohexane               | 7.61 | 56  | 55692  | 18.312 | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 59906  | 18.835 | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 50190  | 17.884 | ug/l   | 97     |
| 37) Ethyl Acetate             | 6.88 | 43  | 46236  | 17.104 | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 52489  | 17.976 | 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   | 51469    | 17.037  | ug/l   | 97       |
| 40) Benzene                    | 8.00  | 78   | 153437   | 17.842  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.13  | 41   | 19634    | 15.740  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 51234    | 17.660  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.13  | 43   | 74955    | 17.231  | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 44221    | 17.428  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 41475    | 18.623  | ug/l   | 100      |
| 46) Dibromomethane             | 9.17  | 93   | 27128    | 18.233  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.37  | 83   | 53378    | 17.830  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 36113    | 17.374  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 13119    | 333.944 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 230657   | 88.325  | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 96117    | 18.149  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 56328    | 16.893  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 63289    | 17.708  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 39390    | 18.087  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 52538    | 17.482  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 62825    | 17.488  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 150656   | 91.135  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.72 | 43   | 165182   | 87.889  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 43688    | 18.047  | ug/l   | 95       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 38916    | 17.589  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 43057    | 16.186  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 106311   | 18.106  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 39664    | 18.381  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.48 | 91   | 177360   | 18.081  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.59 | 106  | 139462   | 37.552  | ug/l   | 97       |
| 69) o-Xylene                   | 11.92 | 106  | 64949    | 18.429  | ug/l   | 97       |
| 70) Styrene                    | 11.94 | 104  | 110605   | 18.591  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 29942    | 17.373  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 173500   | 19.114  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 62552    | 17.510  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 52134    | 19.595  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 51446m   | 18.305  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 44478    | 18.175  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.56 | 91   | 194128   | 18.773  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 119660   | 18.720  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 146265   | 19.386  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 16861    | 16.443  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 123874   | 18.488  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 123725   | 19.564  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 149972   | 19.659  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.14 | 105  | 162124   | 19.308  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 145960   | 19.093  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.25 | 146  | 77003    | 17.710  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 80276    | 17.458  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 117524   | 17.506  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.85 | 117  | 25050    | 18.862  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 76839    | 17.999  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 9913     | 16.559  | ug/l   | 98       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 43380    | 16.426 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 20365    | 17.369 | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 129767   | 16.401 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 42658    | 17.916 | ug/l  | 99       |

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

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