

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041419\  
 Data File : VN055029.D  
 Acq On : 13 Apr 2019 15:02  
 Operator : JC/SP  
 Sample : VN0414WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0414WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/17/2019 10:04:11 AM

Quant Time: Apr 14 03:46:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Apr 13 03:34:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 394939   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 655579   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 565954   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 224080   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 266079   | 53.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.38% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 213652   | 51.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.24% |          |
| 50) Toluene-d8              | 10.09 | 98   | 779015   | 50.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.50% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 252780   | 48.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.78%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85   | 88229    | 20.253  | ug/l   | 99     |
| 3) Chloromethane              | 2.06 | 50   | 115625   | 19.793  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.19 | 62   | 96634    | 20.385  | ug/l   | 99     |
| 5) Bromomethane               | 2.54 | 94   | 51778    | 18.869  | ug/l   | 95     |
| 6) Chloroethane               | 2.70 | 64   | 51887    | 19.848  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.01 | 101  | 118924   | 20.000  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.41 | 74   | 38499    | 20.587  | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101  | 58909    | 18.994  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.94 | 142  | 88268    | 19.734  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.84 | 59   | 31124    | 102.052 | ug/l # | 72     |
| 12) 1,1-Dichloroethene        | 3.73 | 96   | 59971    | 19.640  | ug/l   | 91     |
| 13) Acrolein                  | 3.60 | 56   | 36529    | 99.229  | ug/l   | 97     |
| 14) Allyl chloride            | 4.31 | 41   | 150367   | 20.154  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.00 | 53   | 185626   | 110.351 | ug/l   | 99     |
| 16) Acetone                   | 3.82 | 43   | 126442   | 92.867  | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.04 | 76   | 165565   | 16.647  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.33 | 43   | 88854    | 21.053  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.06 | 73   | 233353   | 21.389  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.54 | 84   | 93114    | 20.167  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.03 | 96   | 83220    | 20.688  | ug/l   | 97     |
| 22) Diisopropyl ether         | 5.96 | 45   | 316483   | 20.922  | ug/l   | 99     |
| 23) Vinyl Acetate             | 5.90 | 43   | 1121964  | 106.043 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 5.85 | 63   | 167745   | 20.532  | ug/l   | 99     |
| 25) 2-Butanone                | 6.85 | 43   | 228012   | 108.734 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.82 | 77   | 99996    | 18.500  | ug/l   | 78     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96   | 96077    | 20.560  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.19 | 49   | 82635    | 21.318  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.22 | 42   | 154728   | 112.558 | ug/l   | 99     |
| 30) Chloroform                | 7.37 | 83   | 161539   | 20.735  | ug/l   | 99     |
| 31) Cyclohexane               | 7.65 | 56   | 148662   | 18.818  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97   | 128922   | 20.772  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.79 | 75   | 113238   | 18.690  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.94 | 43   | 103355   | 22.723  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 7.77 | 117  | 104772   | 18.371  | ug/l   | 99     |

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 Operator : JC/SP  
 Sample : VN0414WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0414WBS01

Manual Integrations  
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MMDadoda  
 4/17/2019 10:04:11 AM

Quant Time: Apr 14 03:46:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Apr 13 03:34:24 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 113430   | 16.353  | ug/l   | 97       |
| 40) Benzene                    | 8.04  | 78   | 358598   | 19.576  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.18  | 41   | 52245    | 18.667  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 128415   | 19.928  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.17  | 43   | 160504   | 20.637  | ug/l   | 98       |
| 44) Trichloroethene            | 8.83  | 130  | 90571    | 19.347  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 102666   | 19.861  | ug/l   | 98       |
| 46) Dibromomethane             | 9.21  | 93   | 59597    | 20.121  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.40  | 83   | 115039   | 19.099  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.20  | 41   | 79449    | 19.830  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.21  | 88   | 13781    | 319.831 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 480844   | 105.589 | ug/l   | 98       |
| 52) Toluene                    | 10.16 | 92   | 211132   | 19.489  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 101241   | 18.562  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 129596   | 19.289  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 80894    | 20.045  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 104363   | 20.097  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 143431   | 20.602  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 205531   | 99.873  | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.75 | 43   | 297524   | 104.551 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 78587    | 19.563  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 76613    | 19.828  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.63 | 164  | 83938    | 18.960  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.43 | 112  | 217057   | 19.890  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 78562    | 19.535  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.51 | 91   | 387316   | 19.322  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.62 | 106  | 286392   | 39.051  | ug/l   | 100      |
| 69) o-Xylene                   | 11.95 | 106  | 142282   | 19.608  | ug/l   | 98       |
| 70) Styrene                    | 11.96 | 104  | 232922   | 20.245  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 47973    | 19.082  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.25 | 105  | 366049   | 19.213  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 123088   | 21.434  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 103893   | 21.062  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 95926m   | 23.269  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 92835    | 21.197  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.59 | 91   | 392057   | 18.888  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 253442   | 19.765  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 292840   | 18.881  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 19095    | 19.118  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 239082   | 19.279  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 248823   | 18.727  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 286335   | 19.253  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 307929   | 18.151  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 266489   | 18.060  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 146460   | 19.243  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 137990   | 18.956  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.61 | 91   | 186636   | 16.104  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.87 | 117  | 40109    | 16.450  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 148902   | 20.153  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 13724    | 21.397  | ug/l   | 98       |

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Sample : VN0414WBS01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0414WBS01

Manual Integrations  
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4/17/2019 10:04:11 AM

Quant Time: Apr 14 03:46:49 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041319W.M  
Quant Title : SW846 8260  
QLast Update : Sat Apr 13 03:34:24 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 50382    | 16.291 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 41749    | 17.423 | ug/l  | 96       |
| 95) Naphthalene            | 15.13 | 128  | 124761   | 17.882 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 56506    | 16.953 | ug/l  | 98       |

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

