

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080818\  
 Data File : VN050459.D  
 Acq On : 8 Aug 2018 15:14  
 Operator : MD\SY  
 Sample : VN0808WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0808WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 8/9/2018 1:32:15 PM

Quant Time: Aug 09 01:06:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 05:22:15 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 784248   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1164503  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1043781  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 500423   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 476332   | 45.46 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.92% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 437061   | 46.78 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.56% |      |
| 50) Toluene-d8              | 10.09  | 98  | 1621054  | 46.14 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.28% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 531597   | 44.40 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.80% |      |

|                               |      |     |         |        |        |     |
|-------------------------------|------|-----|---------|--------|--------|-----|
| Target Compounds              |      |     |         | Qvalue |        |     |
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 165338  | 18.99  | ug/l   | 100 |
| 3) Chloromethane              | 2.06 | 50  | 198982  | 18.42  | ug/l   | 100 |
| 4) Vinyl Chloride             | 2.18 | 62  | 216174  | 19.18  | ug/l   | 98  |
| 5) Bromomethane               | 2.57 | 94  | 124047  | 22.80  | ug/l   | 99  |
| 6) Chloroethane               | 2.70 | 64  | 132570  | 19.09  | ug/l   | 97  |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 284813  | 19.57  | ug/l   | 100 |
| 8) Diethyl Ether              | 3.41 | 74  | 102664  | 19.24  | ug/l   | 98  |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101 | 175463  | 19.51  | ug/l   | 100 |
| 10) Methyl Iodide             | 3.95 | 142 | 87493   | 22.08  | ug/l   | 96  |
| 11) Tert butyl alcohol        | 4.79 | 59  | 58551   | 69.56  | ug/l # | 72  |
| 12) 1,1-Dichloroethene        | 3.74 | 96  | 164014  | 19.34  | ug/l   | 98  |
| 13) Acrolein                  | 3.61 | 56  | 63136   | 69.21  | ug/l   | 97  |
| 14) Allyl chloride            | 4.33 | 41  | 248800  | 18.27  | ug/l   | 99  |
| 15) Acrylonitrile             | 4.99 | 53  | 281154  | 79.74  | ug/l   | 100 |
| 16) Acetone                   | 3.82 | 43  | 253387  | 80.84  | ug/l   | 99  |
| 17) Carbon Disulfide          | 4.05 | 76  | 472255  | 17.13  | ug/l   | 99  |
| 18) Methyl Acetate            | 4.33 | 43  | 140154  | 17.13  | ug/l   | 98  |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 457399  | 19.01  | ug/l   | 100 |
| 20) Methylene Chloride        | 4.55 | 84  | 187597  | 18.66  | ug/l   | 96  |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96  | 177697  | 19.37  | ug/l   | 98  |
| 22) Diisopropyl ether         | 5.96 | 45  | 547461  | 19.68  | ug/l   | 99  |
| 23) Vinyl Acetate             | 5.90 | 43  | 1791925 | 90.29  | ug/l   | 99  |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 327514  | 19.19  | ug/l   | 100 |
| 25) 2-Butanone                | 6.84 | 43  | 397310  | 76.52  | ug/l   | 98  |
| 26) 2,2-Dichloropropane       | 6.83 | 77  | 245406  | 17.44  | ug/l   | 98  |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 201928  | 19.86  | ug/l   | 98  |
| 28) Bromochloromethane        | 7.20 | 49  | 145690  | 18.54  | ug/l   | 96  |
| 29) Tetrahydrofuran           | 7.22 | 42  | 208274  | 74.94  | ug/l   | 96  |
| 30) Chloroform                | 7.37 | 83  | 333571  | 19.55  | ug/l   | 100 |
| 31) Cyclohexane               | 7.65 | 56  | 287537  | 18.75  | ug/l   | 94  |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 289373  | 19.75  | ug/l   | 99  |
| 36) 1,1-Dichloropropene       | 7.79 | 75  | 253225  | 19.79  | ug/l   | 99  |
| 37) Ethyl Acetate             | 6.93 | 43  | 149943  | 16.27  | ug/l   | 99  |
| 38) Carbon Tetrachloride      | 7.78 | 117 | 254635  | 19.08  | ug/l   | 99  |

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 Sample : VN0808WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0808WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 8/9/2018 1:32:15 PM

Quant Time: Aug 09 01:06:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 05:22:15 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 260455   | 18.65  | ug/l   | 96       |
| 40) Benzene                    | 8.04  | 78   | 762684   | 19.39  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.17  | 41   | 77103    | 15.74  | ug/l   | 86       |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 233969   | 18.74  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 265940   | 16.72  | ug/l   | 96       |
| 44) Trichloroethene            | 8.84  | 130  | 209548   | 19.83  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 196045   | 18.96  | ug/l   | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 117584   | 18.41  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.40  | 83   | 249618   | 18.87  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.20  | 41   | 131942   | 16.55  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 35337    | 287.56 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 907298   | 79.20  | ug/l   | 98       |
| 52) Toluene                    | 10.16 | 92   | 467475   | 19.78  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 240319   | 18.09  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 283273   | 19.11  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 168509   | 18.27  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 206312   | 16.97  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 281782   | 18.61  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 459969   | 80.75  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.75 | 43   | 584813   | 73.15  | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.90 | 129  | 184324   | 18.14  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 162392   | 17.86  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.63 | 164  | 204881   | 21.01  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.44 | 112  | 510603   | 19.51  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 186998   | 19.63  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 856979   | 20.26  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 658511   | 40.89  | ug/l   | 100      |
| 69) o-Xylene                   | 11.95 | 106  | 318200   | 20.51  | ug/l   | 98       |
| 70) Styrene                    | 11.96 | 104  | 503335   | 19.95  | ug/l   | 100      |
| 71) Bromoform                  | 12.13 | 173  | 122253   | 17.56  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 833576   | 22.19  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 213376   | 17.52  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 199631   | 18.42  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 162766m  | 17.97  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 213599   | 21.22  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.59 | 91   | 910732   | 21.42  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 563461   | 21.46  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 673018   | 22.07  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 44901    | 17.42  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 562882   | 21.49  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 584555   | 21.97  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 680971   | 22.04  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 748713   | 21.12  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 639187   | 21.04  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 363936   | 20.30  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 357056   | 19.95  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.62 | 91   | 495297   | 19.15  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.88 | 117  | 101088   | 18.71  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 357189   | 19.88  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 28530    | 15.50  | ug/l   | 94       |

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Sample : VN0808WBSD01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0808WBSD01

Manual Integrations  
APPROVED

MMDadoda  
8/9/2018 1:32:15 PM

Quant Time: Aug 09 01:06:51 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 05:22:15 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 169851   | 18.56 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 108876   | 20.82 | ug/l  | 98       |
| 95) Naphthalene            | 15.14 | 128  | 361612   | 17.46 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 165914   | 17.93 | ug/l  | 100      |

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

