

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\  
 Data File : VN054562.D  
 Acq On : 22 Mar 2019 17:10  
 Operator : JC/SP  
 Sample : VN0322WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0322WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 3/25/2019 3:11:26 PM

Quant Time: Mar 23 03:53:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 447040   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 741415   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 627738   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 255589   | 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   | 301705   | 54.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.52% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 235789   | 49.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.72%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 875846   | 48.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.54%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 285204   | 46.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.34%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85   | 91251    | 21.352  | ug/l   | 99     |
| 3) Chloromethane              | 2.06 | 50   | 126465   | 21.750  | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.19 | 62   | 119909   | 20.540  | ug/l   | 100    |
| 5) Bromomethane               | 2.58 | 94   | 69933    | 18.526  | ug/l   | 94     |
| 6) Chloroethane               | 2.71 | 64   | 67791    | 19.360  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.02 | 101  | 146388   | 20.648  | ug/l   | 100    |
| 8) Diethyl Ether              | 3.41 | 74   | 52206    | 19.147  | ug/l   | 70     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101  | 76587    | 18.381  | ug/l   | 95     |
| 10) Methyl Iodide             | 3.94 | 142  | 107999   | 17.621  | ug/l   | 90     |
| 11) Tert butyl alcohol        | 4.82 | 59   | 37125    | 110.280 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 3.73 | 96   | 77316    | 17.931  | ug/l # | 77     |
| 13) Acrolein                  | 3.61 | 56   | 44460    | 95.701  | ug/l   | 98     |
| 14) Allyl chloride            | 4.32 | 41   | 169654   | 20.895  | ug/l # | 91     |
| 15) Acrylonitrile             | 4.99 | 53   | 187442   | 111.809 | ug/l   | 99     |
| 16) Acetone                   | 3.82 | 43   | 140434   | 84.004  | ug/l # | 84     |
| 17) Carbon Disulfide          | 4.04 | 76   | 206692   | 17.890  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.33 | 43   | 84587    | 22.701  | ug/l # | 90     |
| 19) Methyl tert-butyl Ether   | 5.06 | 73   | 272797   | 21.678  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.55 | 84   | 103720   | 21.047  | ug/l # | 84     |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96   | 96083    | 21.823  | ug/l   | 88     |
| 22) Diisopropyl ether         | 5.96 | 45   | 362898   | 22.659  | ug/l # | 93     |
| 23) Vinyl Acetate             | 5.90 | 43   | 1271619  | 112.420 | ug/l # | 93     |
| 24) 1,1-Dichloroethane        | 5.85 | 63   | 194879   | 22.599  | ug/l   | 97     |
| 25) 2-Butanone                | 6.85 | 43   | 236144   | 110.270 | ug/l # | 89     |
| 26) 2,2-Dichloropropane       | 6.83 | 77   | 115945   | 18.862  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96   | 110340   | 21.011  | ug/l   | 88     |
| 28) Bromochloromethane        | 7.20 | 49   | 95016    | 22.385  | ug/l # | 72     |
| 29) Tetrahydrofuran           | 7.22 | 42   | 159865   | 115.035 | ug/l # | 86     |
| 30) Chloroform                | 7.37 | 83   | 183266   | 21.777  | ug/l   | 97     |
| 31) Cyclohexane               | 7.65 | 56   | 181070   | 20.830  | ug/l   | 88     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97   | 150014   | 21.607  | ug/l   | 95     |
| 36) 1,1-Dichloropropene       | 7.79 | 75   | 135173   | 19.499  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.94 | 43   | 102964   | 20.883  | ug/l # | 94     |
| 38) Carbon Tetrachloride      | 7.77 | 117  | 130476   | 19.368  | ug/l   | 98     |

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 Sample : VN0322WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0322WBSD01

Manual Integrations  
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 3/25/2019 3:11:26 PM

Quant Time: Mar 23 03:53:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 146058   | 18.419  | ug/l   | 89       |
| 40) Benzene                    | 8.04  | 78   | 408760   | 20.620  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.17  | 41   | 63130    | 20.995  | ug/l # | 87       |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 150351   | 20.827  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 174804   | 20.993  | ug/l # | 96       |
| 44) Trichloroethene            | 8.83  | 130  | 109507   | 19.870  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 115861   | 21.766  | ug/l   | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 66250    | 20.863  | ug/l   | 89       |
| 47) Bromodichloromethane       | 9.40  | 83   | 135901   | 20.621  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.20  | 41   | 93828    | 20.761  | ug/l # | 85       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 20324    | 402.251 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 498617   | 108.048 | ug/l   | 93       |
| 52) Toluene                    | 10.16 | 92   | 245848   | 20.164  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 116890   | 18.295  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 149206   | 19.745  | ug/l # | 91       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 90517    | 20.653  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 116892   | 19.871  | ug/l # | 85       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 159121   | 20.886  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 231772   | 95.685  | ug/l   | 90       |
| 59) 2-Hexanone                 | 10.75 | 43   | 306824   | 101.788 | ug/l   | 91       |
| 60) Dibromochloromethane       | 10.90 | 129  | 91324    | 19.582  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 88536    | 20.434  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.63 | 164  | 107221   | 20.592  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.43 | 112  | 254205   | 19.910  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 94414    | 20.603  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 451786   | 20.032  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.62 | 106  | 333121   | 38.996  | ug/l   | 95       |
| 69) o-Xylene                   | 11.95 | 106  | 165600   | 19.850  | ug/l   | 97       |
| 70) Styrene                    | 11.96 | 104  | 267200   | 19.723  | ug/l   | 97       |
| 71) Bromoform                  | 12.13 | 173  | 52969    | 18.241  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.25 | 105  | 430699   | 20.912  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 131450   | 22.197  | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 105255   | 22.387  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 92857m   | 22.895  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 104467   | 20.451  | ug/l   | 86       |
| 78) n-propylbenzene            | 12.59 | 91   | 460019   | 20.598  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 285989   | 20.535  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 348999   | 20.675  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 19192    | 18.450  | ug/l # | 70       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 278273   | 20.613  | ug/l   | 96       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 304216   | 20.704  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 340011   | 20.528  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 367225   | 20.049  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 323258   | 19.727  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 169953   | 20.077  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 162570   | 19.739  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.62 | 91   | 239254   | 18.672  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.87 | 117  | 50113    | 19.701  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 168497   | 20.551  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 15129    | 21.939  | ug/l   | 80       |

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Sample : VN0322WBSD01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0322WBSD01

Manual Integrations  
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3/25/2019 3:11:26 PM

Quant Time: Mar 23 03:53:46 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 22 02:09:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 72527    | 17.745 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 45952    | 18.446 | ug/l  | 98       |
| 95) Naphthalene            | 15.13 | 128  | 171848   | 18.850 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 75110    | 18.464 | ug/l  | 99       |

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

