

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060320\  
 Data File : VN061634.D  
 Acq On : 3 Jun 2020 13:35  
 Operator : JC/MD  
 Sample : VN0603WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0603WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 6/4/2020 3:08:16 PM

Quant Time: Jun 04 08:09:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:14:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 311415   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 509406   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 478854   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 234880   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 177450   | 47.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.66%  |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 134887   | 52.20 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.40% |      |
| 50) Toluene-d8            | 10.06  | 98  | 578108   | 48.28 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.56%  |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 207465   | 47.49 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.98%  |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 68572  | 19.781  | ug/l | 98     |
| 3) Chloromethane              | 2.03 | 50  | 72041  | 18.967  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.16 | 62  | 97200  | 18.674  | ug/l | 99     |
| 5) Bromomethane               | 2.54 | 94  | 61433  | 20.569  | ug/l | 97     |
| 6) Chloroethane               | 2.67 | 64  | 63163  | 18.853  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 116857 | 17.410  | ug/l | 99     |
| 8) Diethyl Ether              | 3.37 | 74  | 39158  | 19.079  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 59070  | 19.832  | ug/l | 98     |
| 10) Methyl Iodide             | 3.91 | 142 | 78825  | 19.064  | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.73 | 59  | 53751  | 108.915 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 57180  | 17.969  | ug/l | 96     |
| 13) Acrolein                  | 3.56 | 56  | 14137  | 77.773  | ug/l | 100    |
| 14) Allyl chloride            | 4.27 | 41  | 73346  | 17.631  | ug/l | 96     |
| 15) Acrylonitrile             | 4.93 | 53  | 131233 | 95.269  | ug/l | 99     |
| 16) Acetone                   | 3.77 | 43  | 101451 | 95.378  | ug/l | 96     |
| 17) Carbon Disulfide          | 4.01 | 76  | 130815 | 18.685  | ug/l | 98     |
| 18) Methyl Acetate            | 4.28 | 43  | 62591  | 18.635  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 205894 | 18.985  | ug/l | 99     |
| 20) Methylene Chloride        | 4.50 | 84  | 67957  | 19.075  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 66778  | 18.608  | ug/l | 96     |
| 22) Diisopropyl ether         | 5.90 | 45  | 173348 | 18.906  | ug/l | 97     |
| 23) Vinyl Acetate             | 5.84 | 43  | 649896 | 88.930  | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 110538 | 19.011  | ug/l | 99     |
| 25) 2-Butanone                | 6.78 | 43  | 160779 | 91.434  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 101215 | 19.020  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 78611  | 19.345  | ug/l | 100    |
| 28) Bromochloromethane        | 7.15 | 49  | 45575  | 20.044  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 104582 | 90.193  | ug/l | 97     |
| 30) Chloroform                | 7.33 | 83  | 125385 | 19.493  | ug/l | 98     |
| 31) Cyclohexane               | 7.61 | 56  | 94737  | 18.117  | ug/l | 92     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 110934 | 18.927  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 88918  | 19.718  | ug/l | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 67879  | 18.688  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 86493  | 19.884  | ug/l | 96     |

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 ALS Vial : 9 Sample Multiplier: 1

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 ClientSampleID :  
 VN0603WBSD01

Manual Integrations  
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MMDadoda  
 6/4/2020 3:08:16 PM

Quant Time: Jun 04 08:09:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:14:10 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 101549   | 18.270  | ug/l   | 97       |
| 40) Benzene                    | 8.00  | 78   | 267771   | 19.245  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.12  | 41   | 27949m   | 16.795  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 91784    | 19.704  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.12  | 43   | 119398   | 18.272  | ug/l   | 97       |
| 44) Trichloroethene            | 8.80  | 130  | 83913    | 19.624  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 65541    | 19.837  | ug/l   | 99       |
| 46) Dibromomethane             | 9.17  | 93   | 49506    | 19.537  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 98041    | 19.529  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 50080    | 17.034  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 23356    | 512.797 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 339385   | 92.163  | ug/l   | 99       |
| 52) Toluene                    | 10.12 | 92   | 179089   | 19.720  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 103258   | 19.093  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 112129   | 19.282  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 72619    | 20.071  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 95274    | 18.851  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 115002   | 19.873  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 185142   | 85.718  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 241094   | 91.163  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.87 | 129  | 82290    | 20.006  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 75307    | 19.957  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.60 | 164  | 90877    | 20.161  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 198808   | 19.973  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 74087    | 19.990  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.48 | 91   | 340043   | 19.766  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.60 | 106  | 268533   | 39.366  | ug/l   | 100      |
| 69) o-Xylene                   | 11.92 | 106  | 127958   | 19.750  | ug/l   | 100      |
| 70) Styrene                    | 11.94 | 104  | 209330   | 19.510  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 53131    | 18.604  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 337349   | 19.678  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.05 | 43   | 96907    | 17.950  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 90484    | 18.835  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 78198m   | 18.309  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 86073    | 19.670  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.57 | 91   | 370513   | 19.360  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 222947   | 19.537  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 279524   | 19.508  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 27984    | 16.755  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 231446   | 19.279  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 235311   | 18.587  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 279290   | 19.621  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 306785   | 18.806  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 283877   | 18.896  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 155341   | 20.047  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 154521   | 19.574  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 231752   | 18.417  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 36262    | 21.826  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 150912   | 20.379  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 16518    | 16.859  | ug/l   | 98       |

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QLast Update : Fri May 29 02:14:10 2020  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.89 | 180  | 83149    | 19.199 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 33327    | 18.043 | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 251684   | 19.093 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.29 | 180  | 83526    | 19.616 | ug/l  | 100      |

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

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