

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052120\  
 Data File : VN061520.D  
 Acq On : 21 May 2020 10:02  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: May 22 07:24:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 18 13:09:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 320001   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 551634   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 525710   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 264857   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 7.98   | 65  | 193687   | 40.56 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 81.12% |      |
| 35) Dibromofluoromethane    | 7.54   | 113 | 142459   | 49.30 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.60% |      |
| 50) Toluene-d8              | 10.06  | 98  | 635929   | 47.44 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.88% |      |
| 62) 4-Bromofluorobenzene    | 12.37  | 95  | 243636   | 48.65 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.30% |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 127535  | 47.931  | ug/l | 98     |
| 3) Chloromethane              | 2.03 | 50  | 172882  | 39.836  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.16 | 62  | 250910  | 40.397  | ug/l | 99     |
| 5) Bromomethane               | 2.53 | 94  | 142466  | 44.956  | ug/l | 99     |
| 6) Chloroethane               | 2.67 | 64  | 165350  | 39.553  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 345188  | 45.777  | ug/l | 99     |
| 8) Diethyl Ether              | 3.37 | 74  | 97918   | 44.581  | ug/l | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 154854  | 49.383  | ug/l | 98     |
| 10) Methyl Iodide             | 3.91 | 142 | 180515  | 47.396  | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.73 | 59  | 116688  | 212.049 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 155503  | 47.408  | ug/l | 85     |
| 13) Acrolein                  | 3.56 | 56  | 98456   | 250.830 | ug/l | 99     |
| 14) Allyl chloride            | 4.27 | 41  | 217486  | 40.742  | ug/l | 96     |
| 15) Acrylonitrile             | 4.92 | 53  | 331167  | 203.129 | ug/l | 98     |
| 16) Acetone                   | 3.77 | 43  | 352199  | 290.096 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.01 | 76  | 332332  | 47.029  | ug/l | 99     |
| 18) Methyl Acetate            | 4.27 | 43  | 133026  | 40.410  | ug/l | 95     |
| 19) Methyl tert-butyl Ether   | 4.98 | 73  | 537847  | 43.209  | ug/l | 98     |
| 20) Methylene Chloride        | 4.50 | 84  | 177755  | 45.287  | ug/l | 93     |
| 21) trans-1,2-Dichloroethene  | 4.98 | 96  | 177066  | 46.814  | ug/l | 93     |
| 22) Diisopropyl ether         | 5.90 | 45  | 493564  | 41.146  | ug/l | 97     |
| 23) Vinyl Acetate             | 5.84 | 43  | 1920607 | 201.344 | ug/l | 96     |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 305091  | 43.605  | ug/l | 97     |
| 25) 2-Butanone                | 6.78 | 43  | 454528  | 209.027 | ug/l | 95     |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 300690  | 45.082  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 6.77 | 96  | 213728  | 47.838  | ug/l | 92     |
| 28) Bromochloromethane        | 7.14 | 49  | 121128  | 40.786  | ug/l | 83     |
| 29) Tetrahydrofuran           | 7.16 | 42  | 270228  | 187.644 | ug/l | 93     |
| 30) Chloroform                | 7.32 | 83  | 341557  | 46.739  | ug/l | 99     |
| 31) Cyclohexane               | 7.61 | 56  | 261514  | 41.989  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 311879  | 46.704  | ug/l | 97     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 247840  | 48.049  | ug/l | 97     |
| 37) Ethyl Acetate             | 6.88 | 43  | 182154  | 38.940  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 250865  | 52.819  | ug/l | 99     |

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 ClientSampleId :  
 VSTDCCC050

Quant Time: May 22 07:24:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 18 13:09:55 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.04  | 83   | 290649   | 46.135   | ug/l   | 94       |
| 40) Benzene                    | 8.00  | 78   | 750377   | 48.274   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.12  | 41   | 79835    | 40.408   | ug/l   | 92       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 254796   | 45.497   | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.12  | 43   | 329908   | 40.437   | ug/l   | 97       |
| 44) Trichloroethene            | 8.80  | 130  | 223606   | 54.900   | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 182563   | 46.922   | ug/l   | 100      |
| 46) Dibromomethane             | 9.17  | 93   | 133953   | 49.112   | ug/l   | 94       |
| 47) Bromodichloromethane       | 9.37  | 83   | 278273   | 48.423   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 150066   | 39.817   | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 50384    | 1281.608 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 923904   | 207.879  | ug/l   | 97       |
| 52) Toluene                    | 10.12 | 92   | 505069   | 50.611   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 300374   | 47.689   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 323764   | 48.354   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 191688   | 50.806   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 274367   | 46.514   | ug/l   | 94       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 314243   | 48.194   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 599083   | 231.386  | ug/l   | 93       |
| 59) 2-Hexanone                 | 10.72 | 43   | 710464   | 220.950  | ug/l   | 97       |
| 60) Dibromochloromethane       | 10.87 | 129  | 224765   | 53.856   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 204158   | 51.464   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.60 | 164  | 221379   | 54.431   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.40 | 112  | 548692   | 51.182   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 205620   | 53.501   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.48 | 91   | 987572   | 50.466   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.59 | 106  | 773667   | 104.158  | ug/l   | 95       |
| 69) o-Xylene                   | 11.92 | 106  | 368334   | 51.243   | ug/l   | 95       |
| 70) Styrene                    | 11.94 | 104  | 623866   | 52.412   | ug/l   | 97       |
| 71) Bromoform                  | 12.10 | 173  | 147451   | 49.364   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.22 | 105  | 972657   | 45.745   | ug/l   | 98       |
| 74) N-amyl acetate             | 12.04 | 43   | 291636   | 37.472   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 249718   | 42.688   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 244738m  | 43.064   | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 238306   | 51.643   | ug/l   | 86       |
| 78) n-propylbenzene            | 12.56 | 91   | 1107603  | 45.719   | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 644079   | 44.978   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 821673   | 47.196   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 86253    | 40.261   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.74 | 91   | 682900   | 46.057   | ug/l   | 96       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 685870   | 45.992   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 826264   | 47.423   | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 912826   | 45.268   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 843080   | 47.083   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 438532   | 51.928   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 442649   | 52.338   | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.59 | 91   | 727187   | 44.701   | ug/l   | 98       |
| 90) Hexachloroethane           | 13.85 | 117  | 110877   | 45.689   | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 415763   | 51.323   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 47902    | 40.537   | ug/l   | 86       |

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Quant Time: May 22 07:24:01 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
Quant Title : SW846 8260  
QLast Update : Mon May 18 13:09:55 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 234892   | 53.476 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 90804    | 46.527 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 697464   | 49.947 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 226173   | 51.724 | ug/l  | 98       |

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

