

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\  
 Data File : VN061765.D  
 Acq On : 12 Jun 2020 1:55  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/12/2020 5:46:30 PM

Quant Time: Jun 12 08:48:02 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      | 7.62  | 168  | 274695   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.54  | 114  | 451489   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 440106   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 220806   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.98   | 65  | 170004   | 51.94 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.88% |      |
| 35) Dibromofluoromethane  | 7.54   | 113 | 130021   | 56.77 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.54% |      |
| 50) Toluene-d8            | 10.06  | 98  | 545643   | 51.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.82% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 197710   | 51.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.12% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 121204  | 38.486  | ug/l   | 98     |
| 3) Chloromethane              | 2.03 | 50  | 147393  | 43.993  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.16 | 62  | 189653  | 41.307  | ug/l   | 100    |
| 5) Bromomethane               | 2.52 | 94  | 137992  | 52.378  | ug/l   | 100    |
| 6) Chloroethane               | 2.66 | 64  | 138192  | 46.762  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 253445  | 42.807  | ug/l   | 100    |
| 8) Diethyl Ether              | 3.37 | 74  | 97202   | 53.691  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 118495  | 45.102  | ug/l   | 97     |
| 10) Methyl Iodide             | 3.90 | 142 | 190044  | 52.107  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 4.72 | 59  | 131292  | 301.597 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 123023  | 43.829  | ug/l   | 94     |
| 13) Acrolein                  | 3.56 | 56  | 30526   | 240.957 | ug/l   | 99     |
| 14) Allyl chloride            | 4.27 | 41  | 149743  | 40.806  | ug/l # | 90     |
| 15) Acrylonitrile             | 4.92 | 53  | 327711  | 269.704 | ug/l   | 100    |
| 16) Acetone                   | 3.77 | 43  | 249603  | 277.406 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.00 | 76  | 234560  | 37.983  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.27 | 43  | 161729  | 54.587  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 4.98 | 73  | 509090  | 53.217  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.50 | 84  | 171907  | 58.070  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 4.98 | 96  | 153190  | 48.394  | ug/l   | 94     |
| 22) Diisopropyl ether         | 5.90 | 45  | 427485  | 52.855  | ug/l   | 98     |
| 23) Vinyl Acetate             | 5.83 | 43  | 1571797 | 243.830 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 263729  | 51.422  | ug/l   | 99     |
| 25) 2-Butanone                | 6.78 | 43  | 381617  | 246.033 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 180745  | 38.505  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 6.77 | 96  | 194977  | 54.396  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.15 | 49  | 108748  | 56.668  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 7.16 | 42  | 251111  | 245.511 | ug/l   | 95     |
| 30) Chloroform                | 7.32 | 83  | 309848  | 54.609  | ug/l   | 98     |
| 31) Cyclohexane               | 7.61 | 56  | 172747  | 37.452  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.52 | 97  | 246676  | 47.712  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 186398  | 46.636  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 169125  | 52.537  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 192821  | 50.015  | ug/l   | 99     |

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 6/12/2020 5:46:30 PM

Quant Time: Jun 12 08:48:02 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   | 191546   | 38.882   | ug/l   | 96       |
| 40) Benzene                    | 8.00  | 78   | 656919   | 53.269   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.12  | 41   | 71679    | 48.599   | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 228039   | 55.234   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.12  | 43   | 285633   | 49.318   | ug/l   | 95       |
| 44) Trichloroethene            | 8.80  | 130  | 191338   | 50.486   | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 164315   | 56.112   | ug/l   | 98       |
| 46) Dibromomethane             | 9.17  | 93   | 128356   | 57.152   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.37  | 83   | 254273   | 57.146   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.16  | 41   | 126693   | 48.620   | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 67749    | 1678.289 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 844460   | 258.738  | ug/l   | 98       |
| 52) Toluene                    | 10.12 | 92   | 422070   | 52.438   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 262451   | 54.753   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 273925   | 53.149   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 187733   | 58.543   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 246718   | 55.077   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 294233   | 57.369   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 441240   | 230.495  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.72 | 43   | 602397   | 257.001  | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.87 | 129  | 219912   | 60.322   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 196797   | 58.842   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 200153   | 48.314   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.40 | 112  | 479655   | 52.432   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 192673   | 56.563   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 781904   | 49.451   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.59 | 106  | 619380   | 98.794   | ug/l   | 98       |
| 69) o-Xylene                   | 11.92 | 106  | 304627   | 51.158   | ug/l   | 98       |
| 70) Styrene                    | 11.94 | 104  | 532906   | 54.041   | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 157206   | 59.893   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.22 | 105  | 759255   | 47.112   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.04 | 43   | 245251   | 48.323   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 233887   | 51.788   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 198336m  | 49.397   | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 223781   | 54.399   | ug/l   | 97       |
| 78) n-propylbenzene            | 12.56 | 91   | 838437   | 46.602   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 516636   | 48.158   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 640693   | 47.565   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 73540    | 46.838   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 547811   | 48.539   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 541753   | 45.520   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 653458   | 48.833   | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 686745   | 44.780   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 647783   | 45.867   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 381808   | 52.413   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 382018   | 51.478   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 512020   | 43.284   | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 96180    | 61.579   | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 377258   | 54.192   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 40779    | 44.274   | ug/l   | 91       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.89 | 180  | 209905   | 51.556 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 80555    | 46.392 | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 611481   | 49.344 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 207734   | 51.894 | ug/l  | 99       |

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

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