

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081920\  
 Data File : VX018020.D  
 Acq On : 20 Aug 2020 06:08  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 55 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/20/2020 9:17:54 AM

Quant Time: Aug 20 06:35:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081920W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 19 05:36:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 467201   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 741978   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 712365   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 388594   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 318437   | 46.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.00%  |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 247814   | 44.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.70%  |      |
| 50) Toluene-d8            | 8.70   | 98  | 905389   | 46.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.72%  |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 363107   | 50.34 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.68% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 328324  | 46.574  | ug/l | 96     |
| 3) Chloromethane              | 1.31 | 50  | 276518  | 43.278  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 278827  | 42.504  | ug/l | 99     |
| 5) Bromomethane               | 1.62 | 94  | 183285  | 51.261  | ug/l | 98     |
| 6) Chloroethane               | 1.71 | 64  | 161150  | 45.992  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 455135  | 46.520  | ug/l | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 125066  | 43.862  | ug/l | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 189361  | 41.153  | ug/l | 99     |
| 10) Methyl Iodide             | 2.49 | 142 | 255056  | 42.984  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.01 | 59  | 287814  | 217.657 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 174748  | 41.497  | ug/l | 90     |
| 13) Acrolein                  | 2.28 | 56  | 143763  | 205.812 | ug/l | 98     |
| 14) Allyl chloride            | 2.71 | 41  | 347507  | 46.269  | ug/l | 99     |
| 15) Acrylonitrile             | 3.12 | 53  | 684156  | 236.911 | ug/l | 100    |
| 16) Acetone                   | 2.42 | 43  | 609310  | 226.139 | ug/l | 98     |
| 17) Carbon Disulfide          | 2.55 | 76  | 483861  | 47.357  | ug/l | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 328518  | 48.454  | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 816533  | 50.716  | ug/l | 98     |
| 20) Methylene Chloride        | 2.83 | 84  | 232290  | 46.793  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 212211  | 49.018  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.83 | 45  | 817853  | 51.946  | ug/l | 96     |
| 23) Vinyl Acetate             | 3.79 | 43  | 2934698 | 243.912 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 429572  | 49.218  | ug/l | 97     |
| 25) 2-Butanone                | 4.64 | 43  | 952403  | 233.483 | ug/l | 95     |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 246530  | 31.018  | ug/l | 96     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 257790  | 50.479  | ug/l | 95     |
| 28) Bromochloromethane        | 4.98 | 49  | 213700  | 47.379  | ug/l | 100    |
| 29) Tetrahydrofuran           | 5.09 | 42  | 605650  | 239.067 | ug/l | 99     |
| 30) Chloroform                | 5.18 | 83  | 463973  | 48.636  | ug/l | 99     |
| 31) Cyclohexane               | 5.55 | 56  | 373810  | 52.817  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 423112  | 48.891  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 297845  | 47.959  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.79 | 43  | 334077  | 44.960  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 383293  | 47.688  | ug/l | 94     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081920W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 19 05:36:51 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 357610   | 45.042  | ug/l  | 96       |
| 40) Benzene                    | 6.12  | 78   | 899929   | 48.111  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.01  | 41   | 202756   | 47.607  | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 380581   | 47.899  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 6.42  | 43   | 567921   | 47.346  | ug/l  | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 261679   | 47.174  | ug/l  | 94       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 253000   | 47.207  | ug/l  | 99       |
| 46) Dibromomethane             | 7.63  | 93   | 179268   | 47.927  | ug/l  | 96       |
| 47) Bromodichloromethane       | 7.88  | 83   | 389924   | 48.020  | ug/l  | 98       |
| 48) Methyl methacrylate        | 7.74  | 41   | 293844   | 49.414  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 101475   | 833.534 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1914826  | 237.093 | ug/l  | 99       |
| 52) Toluene                    | 8.77  | 92   | 592677   | 48.430  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 392851   | 45.743  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 404185   | 45.137  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 267965   | 47.663  | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 396281   | 49.854  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 431486   | 48.325  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 877312   | 227.914 | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 1451424  | 237.173 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 328114   | 46.729  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 282472   | 45.359  | ug/l  | 98       |
| 64) Tetrachloroethene          | 9.32  | 164  | 258956   | 47.600  | ug/l  | 95       |
| 65) Chlorobenzene              | 10.12 | 112  | 698761   | 49.416  | ug/l  | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 293425   | 49.055  | ug/l  | 98       |
| 67) Ethyl Benzene              | 10.24 | 91   | 1192242  | 51.145  | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 916669   | 102.144 | ug/l  | 96       |
| 69) o-Xylene                   | 10.68 | 106  | 443342   | 51.230  | ug/l  | 99       |
| 70) Styrene                    | 10.70 | 104  | 795915   | 53.309  | ug/l  | 100      |
| 71) Bromoform                  | 10.84 | 173  | 265821   | 49.513  | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.00 | 105  | 1220221  | 48.786  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 534794   | 48.071  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 404388   | 46.346  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 382507m  | 46.286  | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 334764   | 48.241  | ug/l  | 98       |
| 78) n-propylbenzene            | 11.34 | 91   | 1408987  | 48.163  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 858590   | 48.159  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 1072081  | 48.831  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 129566   | 41.189  | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 1021749  | 48.734  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 1043435  | 50.325  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 1096977  | 48.263  | ug/l  | 98       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 1210823  | 48.377  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 1135874  | 48.786  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 619446   | 49.045  | ug/l  | 98       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 611350   | 49.407  | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.37 | 91   | 964644   | 50.060  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 224634   | 48.511  | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 589491   | 50.559  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 101940   | 45.865  | ug/l  | 96       |

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Quant Title : SW846 8260  
QLast Update : Wed Aug 19 05:36:51 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 384109   | 50.077 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 149014   | 45.523 | ug/l  | 97       |
| 95) Naphthalene            | 13.82 | 128  | 1290624  | 53.305 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 392186   | 50.282 | ug/l  | 98       |

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

