

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062620\  
 Data File : VX016995.D  
 Acq On : 26 Jun 2020 19:39  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/29/2020 12:32:46 PM

Quant Time: Jun 27 05:29:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062620W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 26 08:34:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 266767   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 451093   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 426676   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 220844   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 187026   | 46.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.86%  |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 148225   | 49.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.50%  |      |
| 50) Toluene-d8            | 8.70   | 98  | 547470   | 50.13 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.26% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 213826   | 50.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.26% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 150499  | 59.195  | ug/l | 100    |
| 3) Chloromethane              | 1.31 | 50  | 175180  | 53.600  | ug/l | 97     |
| 4) Vinyl Chloride             | 1.39 | 62  | 164485  | 49.138  | ug/l | 100    |
| 5) Bromomethane               | 1.62 | 94  | 82854   | 35.389  | ug/l | 97     |
| 6) Chloroethane               | 1.71 | 64  | 99261   | 43.692  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 233757  | 42.809  | ug/l | 96     |
| 8) Diethyl Ether              | 2.17 | 74  | 87157   | 41.436  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 142972  | 48.916  | ug/l | 97     |
| 10) Methyl Iodide             | 2.49 | 142 | 159023  | 43.754  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 179614  | 236.166 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 145217  | 49.111  | ug/l | 93     |
| 13) Acrolein                  | 2.27 | 56  | 150245  | 266.533 | ug/l | 97     |
| 14) Allyl chloride            | 2.71 | 41  | 272757  | 49.542  | ug/l | 93     |
| 15) Acrylonitrile             | 3.12 | 53  | 432944  | 245.179 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 362668  | 230.306 | ug/l | 96     |
| 17) Carbon Disulfide          | 2.55 | 76  | 433691  | 46.255  | ug/l | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 185949  | 48.538  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 497679  | 48.154  | ug/l | 100    |
| 20) Methylene Chloride        | 2.84 | 84  | 165316  | 46.182  | ug/l | 93     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 160290  | 47.979  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.82 | 45  | 531336  | 49.227  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.79 | 43  | 2338429 | 247.549 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 288987  | 47.730  | ug/l | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 601957  | 250.813 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 204971  | 41.851  | ug/l | 97     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 183989  | 49.838  | ug/l | 94     |
| 28) Bromochloromethane        | 4.98 | 49  | 127433  | 45.041  | ug/l | 97     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 401645  | 254.569 | ug/l | 99     |
| 30) Chloroform                | 5.18 | 83  | 297757  | 48.966  | ug/l | 98     |
| 31) Cyclohexane               | 5.55 | 56  | 252733  | 49.969  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 266703  | 48.957  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 219791  | 49.208  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.80 | 43  | 242867  | 50.595  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 239743  | 50.716  | ug/l | 97     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062620W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 26 08:34:16 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 245537   | 50.800   | ug/l  | 99       |
| 40) Benzene                    | 6.11  | 78   | 647074   | 50.305   | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.00  | 41   | 132301   | 49.461   | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 241590   | 47.804   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 385976   | 47.797   | ug/l  | 98       |
| 44) Trichloroethene            | 7.19  | 130  | 214368   | 62.605   | ug/l  | 92       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 166903   | 48.536   | ug/l  | 99       |
| 46) Dibromomethane             | 7.64  | 93   | 114632   | 49.070   | ug/l  | 97       |
| 47) Bromodichloromethane       | 7.88  | 83   | 238588   | 48.829   | ug/l  | 97       |
| 48) Methyl methacrylate        | 7.74  | 41   | 193441   | 51.298   | ug/l  | 96       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 82051    | 1046.058 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1202930  | 260.280  | ug/l  | 100      |
| 52) Toluene                    | 8.76  | 92   | 400043   | 50.459   | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 254939   | 48.723   | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 274380   | 49.883   | ug/l  | 96       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 164678   | 50.551   | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 251414   | 51.495   | ug/l  | 95       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 278521   | 49.943   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 651678   | 258.354  | ug/l  | 97       |
| 59) 2-Hexanone                 | 9.47  | 43   | 897822   | 258.232  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 188503   | 50.761   | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 173929   | 50.005   | ug/l  | 98       |
| 64) Tetrachloroethene          | 9.32  | 164  | 154066   | 53.342   | ug/l  | 98       |
| 65) Chlorobenzene              | 10.12 | 112  | 437102   | 50.095   | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 166695   | 51.405   | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 767898   | 50.134   | ug/l  | 96       |
| 68) m/p-Xylenes                | 10.34 | 106  | 587637   | 103.268  | ug/l  | 98       |
| 69) o-Xylene                   | 10.68 | 106  | 278473   | 51.295   | ug/l  | 97       |
| 70) Styrene                    | 10.70 | 104  | 483230   | 52.253   | ug/l  | 99       |
| 71) Bromoform                  | 10.84 | 173  | 138724   | 53.803   | ug/l  | # 99     |
| 73) Isopropylbenzene           | 11.00 | 105  | 753879   | 49.579   | ug/l  | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 343154   | 47.856   | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 238087   | 46.528   | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 229264m  | 49.467   | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 191723   | 48.632   | ug/l  | 95       |
| 78) n-propylbenzene            | 11.34 | 91   | 867259   | 48.323   | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 523825   | 48.537   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 636959   | 50.399   | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 81298    | 44.535   | ug/l  | 97       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 620661   | 48.863   | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 612982   | 49.799   | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 654649   | 51.209   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 721527   | 50.275   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 657763   | 50.162   | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 346917   | 49.028   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 347483   | 48.104   | ug/l  | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 587242   | 47.578   | ug/l  | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 133036   | 48.940   | ug/l  | 94       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 332018   | 49.493   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 55109    | 47.065   | ug/l  | 95       |

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QLast Update : Fri Jun 26 08:34:16 2020  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 211601   | 48.407 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.76 | 225  | 72119    | 45.921 | ug/l  | 92       |
| 95) Naphthalene            | 13.82 | 128  | 737192   | 51.318 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 210638   | 50.244 | ug/l  | 98       |

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

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