

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\U101118\  
 Data File : VU027585.D  
 Acq On : 11 Oct 2018 09:31  
 Operator : MD/SY  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 10/16/2018 2:22:51 PM

Quant Time: Oct 12 09:33:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U101118W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 11 09:56:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 118272   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 198781   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 183931   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 92468    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 90696    | 45.92 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.84% |      |
| 35) Dibromofluoromethane    | 4.88   | 113 | 65095    | 47.78 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.56% |      |
| 50) Toluene-d8              | 7.57   | 98  | 251798   | 49.38 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.76% |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 90248    | 47.63 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.26% |      |

| Target Compounds              |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.21 | 85  | 64801   | 38.00  | ug/l | 99     |
| 3) Chloromethane              | 1.33 | 50  | 100875  | 43.70  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 96757   | 44.59  | ug/l | 100    |
| 5) Bromomethane               | 1.61 | 94  | 46088   | 49.08  | ug/l | 100    |
| 6) Chloroethane               | 1.69 | 64  | 57990   | 44.47  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.88 | 101 | 106248  | 48.25  | ug/l | 96     |
| 8) Diethyl Ether              | 2.11 | 74  | 48683   | 48.00  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.29 | 101 | 63615   | 49.75  | ug/l | 98     |
| 10) Methyl Iodide             | 2.41 | 142 | 71361   | 76.66  | ug/l | 99     |
| 11) Tert butyl alcohol        | 2.83 | 59  | 111099  | 267.14 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.28 | 96  | 60437   | 48.38  | ug/l | 99     |
| 13) Acrolein                  | 2.20 | 56  | 90636   | 259.72 | ug/l | 99     |
| 14) Allyl chloride            | 2.59 | 41  | 142851  | 48.15  | ug/l | 99     |
| 15) Acrylonitrile             | 2.94 | 53  | 278853  | 257.61 | ug/l | 99     |
| 16) Acetone                   | 2.32 | 43  | 260489  | 223.27 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.48 | 76  | 209814  | 46.57  | ug/l | 100    |
| 18) Methyl Acetate            | 2.62 | 43  | 140650  | 52.84  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.00 | 73  | 244309  | 48.81  | ug/l | 99     |
| 20) Methylene Chloride        | 2.70 | 84  | 77372   | 47.61  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 2.98 | 96  | 68625   | 48.93  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.58 | 45  | 292987  | 48.59  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.53 | 43  | 1275108 | 242.15 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.45 | 63  | 151815  | 48.98  | ug/l | 100    |
| 25) 2-Butanone                | 4.26 | 43  | 411683  | 258.76 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.23 | 77  | 117723  | 46.22  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.23 | 96  | 77398   | 48.25  | ug/l | 100    |
| 28) Bromochloromethane        | 4.55 | 49  | 75665   | 50.59  | ug/l | 98     |
| 29) Tetrahydrofuran           | 4.64 | 42  | 264051  | 263.35 | ug/l | 99     |
| 30) Chloroform                | 4.67 | 83  | 136986  | 49.74  | ug/l | 98     |
| 31) Cyclohexane               | 5.00 | 56  | 144711  | 39.92  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 4.92 | 97  | 115132  | 49.64  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.14 | 75  | 106714  | 49.44  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.38 | 43  | 148417  | 53.21  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.14 | 117 | 97208   | 49.86  | ug/l | 96     |

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Quant Time: Oct 12 09:33:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U101118W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 11 09:56:08 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 6.42  | 83   | 122594   | 48.59   | ug/l   | 98       |
| 40) Benzene                    | 5.39  | 78   | 314735   | 50.06   | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.55  | 41   | 81613    | 51.76   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 5.41  | 62   | 116175   | 49.78   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 5.55  | 43   | 224486   | 51.82   | ug/l   | 100      |
| 44) Trichloroethene            | 6.19  | 130  | 69959    | 49.90   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 6.43  | 63   | 90162    | 49.72   | ug/l   | 98       |
| 46) Dibromomethane             | 6.56  | 93   | 52638    | 51.40   | ug/l   | 98       |
| 47) Bromodichloromethane       | 6.76  | 83   | 106002   | 49.88   | ug/l   | 100      |
| 48) Methyl methacrylate        | 6.62  | 41   | 112545   | 52.24   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 6.61  | 88   | 44540    | 1201.59 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 7.46  | 43   | 752819   | 267.42  | ug/l   | 100      |
| 52) Toluene                    | 7.64  | 92   | 187816   | 50.47   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 7.88  | 75   | 126272   | 50.68   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 7.27  | 75   | 135554   | 50.61   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 8.07  | 97   | 74394    | 50.42   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 8.02  | 69   | 129745   | 52.99   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 8.24  | 76   | 142130   | 49.62   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 7.13  | 63   | 369155   | 269.88  | ug/l   | 99       |
| 59) 2-Hexanone                 | 8.36  | 43   | 587548   | 269.05  | ug/l   | 100      |
| 60) Dibromochloromethane       | 8.48  | 129  | 75979    | 51.35   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 8.59  | 107  | 78724    | 50.19   | ug/l   | 98       |
| 64) Tetrachloroethene          | 8.23  | 164  | 58751    | 51.31   | ug/l   | 98       |
| 65) Chlorobenzene              | 9.12  | 112  | 194014   | 50.11   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 69099    | 51.70   | ug/l   | 98       |
| 67) Ethyl Benzene              | 9.25  | 91   | 352191   | 51.34   | ug/l   | 100      |
| 68) m/p-Xylenes                | 9.38  | 106  | 264497   | 105.42  | ug/l   | 99       |
| 69) o-Xylene                   | 9.78  | 106  | 127149   | 53.33   | ug/l   | 98       |
| 70) Styrene                    | 9.79  | 104  | 213576   | 54.55   | ug/l   | 100      |
| 71) Bromoform                  | 9.96  | 173  | 57824    | 53.77   | ug/l # | 98       |
| 73) Isopropylbenzene           | 10.17 | 105  | 341536   | 50.86   | ug/l   | 99       |
| 74) N-amyl acetate             | 10.02 | 43   | 202443   | 52.66   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 130751   | 49.58   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 10.49 | 75   | 114493m  | 47.77   | ug/l   |          |
| 77) Bromobenzene               | 10.45 | 156  | 79325    | 50.82   | ug/l   | 97       |
| 78) n-propylbenzene            | 10.59 | 91   | 413977   | 51.30   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 10.66 | 91   | 243355   | 49.94   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 286420   | 52.38   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 10.51 | 75   | 56067m   | 61.22   | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.77 | 91   | 280817   | 50.79   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.10 | 119  | 273555   | 51.75   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 294420   | 52.71   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.32 | 105  | 345172   | 51.83   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 297646   | 52.20   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 11.42 | 146  | 146987   | 49.73   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146  | 149813   | 49.61   | ug/l   | 99       |
| 89) n-Butylbenzene             | 11.89 | 91   | 277426   | 52.16   | ug/l   | 100      |
| 90) Hexachloroethane           | 12.15 | 117  | 53097    | 49.40   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 11.88 | 146  | 146348   | 50.87   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 31353    | 53.65   | ug/l   | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.50 | 180  | 98841    | 53.10 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.69 | 225  | 48009    | 51.05 | ug/l  | 99       |
| 95) Naphthalene            | 13.74 | 128  | 347824   | 55.73 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 13.99 | 180  | 101711   | 52.45 | ug/l  | 98       |

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

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