

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U082919\  
 Data File : VU034050.D  
 Acq On : 29 Aug 2019 01:50  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/29/2019 8:47:46 AM

Quant Time: Aug 29 05:39:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 29 04:11:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.96  | 168  | 424243   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.86  | 114  | 691209   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.07  | 117  | 669529   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 354880   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.29  | 65   | 281569   | 51.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.60% |          |
| 35) Dibromofluoromethane    | 4.86  | 113  | 235607   | 49.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.28%  |          |
| 50) Toluene-d8              | 7.55  | 98   | 918854   | 51.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.38% |          |
| 62) 4-Bromofluorobenzene    | 10.29 | 95   | 346944   | 49.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.38%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 223542   | 52.392  | ug/l  | 100    |
| 3) Chloromethane              | 1.32 | 50   | 257630   | 45.004  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.40 | 62   | 281745   | 49.614  | ug/l  | 99     |
| 5) Bromomethane               | 1.61 | 94   | 118423   | 42.446  | ug/l  | 98     |
| 6) Chloroethane               | 1.68 | 64   | 171322   | 49.348  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 1.87 | 101  | 332820   | 50.581  | ug/l  | 100    |
| 8) Diethyl Ether              | 2.09 | 74   | 145153   | 51.567  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.27 | 101  | 205924   | 49.401  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.40 | 142  | 137543   | 23.261  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 2.81 | 59   | 293372   | 234.029 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.27 | 96   | 215174   | 50.664  | ug/l  | 99     |
| 13) Acrolein                  | 2.18 | 56   | 110353   | 209.262 | ug/l  | 99     |
| 14) Allyl chloride            | 2.58 | 41   | 396891m  | 49.703  | ug/l  |        |
| 15) Acrylonitrile             | 2.92 | 53   | 750879   | 261.034 | ug/l  | 100    |
| 16) Acetone                   | 2.31 | 43   | 625612   | 225.553 | ug/l  | 100    |
| 17) Carbon Disulfide          | 2.46 | 76   | 654482   | 48.690  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.60 | 43   | 343991   | 47.992  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 2.98 | 73   | 732980   | 52.673  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.68 | 84   | 256339   | 48.818  | ug/l  | 99     |
| 21) trans-1,2-Dichloroethene  | 2.96 | 96   | 234894   | 50.960  | ug/l  | 99     |
| 22) Diisopropyl ether         | 3.55 | 45   | 777787   | 53.156  | ug/l  | 98     |
| 23) Vinyl Acetate             | 3.50 | 43   | 3362267  | 267.492 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 3.42 | 63   | 444074   | 51.405  | ug/l  | 100    |
| 25) 2-Butanone                | 4.23 | 43   | 993241   | 257.388 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 4.20 | 77   | 278741   | 39.654  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 4.20 | 96   | 264871   | 51.197  | ug/l  | 97     |
| 28) Bromochloromethane        | 4.52 | 49   | 223745   | 52.570  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 4.61 | 42   | 643993   | 270.608 | ug/l  | 99     |
| 30) Chloroform                | 4.65 | 83   | 426462   | 49.478  | ug/l  | 98     |
| 31) Cyclohexane               | 4.97 | 56   | 393831   | 48.517  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 4.89 | 97   | 354360   | 50.199  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.11 | 75   | 312771   | 47.839  | ug/l  | 100    |
| 37) Ethyl Acetate             | 4.36 | 43   | 362874   | 49.564  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.11 | 117  | 308347   | 48.860  | ug/l  | 99     |

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 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/29/2019 8:47:46 AM

Quant Time: Aug 29 05:39:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 29 04:11:12 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 6.40  | 83   | 375773   | 48.765  | ug/l   | 99       |
| 40) Benzene                    | 5.37  | 78   | 978987   | 49.492  | ug/l   | 100      |
| 41) Methacrylonitrile          | 4.52  | 41   | 198301   | 52.813  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 5.38  | 62   | 335814   | 49.163  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 5.53  | 43   | 561377   | 50.400  | ug/l   | 99       |
| 44) Trichloroethene            | 6.16  | 130  | 260877   | 50.222  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 6.41  | 63   | 273400   | 50.210  | ug/l   | 100      |
| 46) Dibromomethane             | 6.54  | 93   | 170799   | 48.687  | ug/l   | 100      |
| 47) Bromodichloromethane       | 6.74  | 83   | 337703   | 49.202  | ug/l   | 100      |
| 48) Methyl methacrylate        | 6.60  | 41   | 272737   | 50.744  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 6.59  | 88   | 121159   | 899.679 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 7.44  | 43   | 1901537  | 247.204 | ug/l   | 100      |
| 52) Toluene                    | 7.62  | 92   | 611980   | 50.222  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 7.86  | 75   | 358187   | 47.032  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 7.25  | 75   | 402618   | 48.390  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 8.05  | 97   | 246388   | 47.802  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 8.00  | 69   | 381045   | 44.674  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 8.22  | 76   | 428091   | 48.915  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 7.11  | 63   | 742782   | 260.486 | ug/l   | 99       |
| 59) 2-Hexanone                 | 8.34  | 43   | 1433021  | 246.779 | ug/l   | 100      |
| 60) Dibromochloromethane       | 8.46  | 129  | 269505   | 48.710  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 8.57  | 107  | 259608   | 47.814  | ug/l   | 99       |
| 64) Tetrachloroethene          | 8.21  | 164  | 229639   | 51.073  | ug/l   | 99       |
| 65) Chlorobenzene              | 9.10  | 112  | 672532   | 48.811  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.19  | 131  | 238257   | 47.688  | ug/l   | 99       |
| 67) Ethyl Benzene              | 9.23  | 91   | 1161417  | 49.727  | ug/l   | 99       |
| 68) m/p-Xylenes                | 9.36  | 106  | 899539   | 101.290 | ug/l   | 99       |
| 69) o-Xylene                   | 9.76  | 106  | 429511   | 50.411  | ug/l   | 100      |
| 70) Styrene                    | 9.77  | 104  | 755017   | 51.682  | ug/l   | 100      |
| 71) Bromoform                  | 9.94  | 173  | 202386   | 46.624  | ug/l # | 99       |
| 73) Isopropylbenzene           | 10.15 | 105  | 1155735  | 48.485  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.00 | 43   | 502507   | 50.122  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 414808   | 45.465  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 10.48 | 75   | 360009m  | 45.010  | ug/l   |          |
| 77) Bromobenzene               | 10.43 | 156  | 298024   | 46.478  | ug/l   | 98       |
| 78) n-propylbenzene            | 10.57 | 91   | 1349070  | 48.597  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 10.64 | 91   | 798415   | 47.950  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 10.75 | 105  | 996403   | 49.319  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 10.49 | 75   | 93374m   | 39.310  | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.75 | 91   | 919139   | 47.997  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.08 | 119  | 939347   | 47.230  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.13 | 105  | 997814   | 49.737  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.31 | 105  | 1153630  | 48.395  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 11.46 | 119  | 1052452  | 48.817  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 11.40 | 146  | 534997   | 47.128  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 11.49 | 146  | 542653   | 47.267  | ug/l   | 99       |
| 89) n-Butylbenzene             | 11.87 | 91   | 940050   | 49.456  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.13 | 117  | 156821   | 42.072  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 11.86 | 146  | 527627   | 48.520  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.64 | 75   | 87076    | 47.907  | ug/l   | 99       |

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Acq On : 29 Aug 2019 01:50  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
8/29/2019 8:47:46 AM

Quant Time: Aug 29 05:39:19 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 29 04:11:12 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.49 | 180  | 365632   | 47.332 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.67 | 225  | 189970   | 44.657 | ug/l  | 99       |
| 95) Naphthalene            | 13.73 | 128  | 1066718  | 48.223 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 13.97 | 180  | 363476   | 52.179 | ug/l  | 100      |

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

