

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW051619\  
 Data File : VW010412.D  
 Acq On : 16 May 2019 20:02  
 Operator : SY/VA  
 Sample : VSTDICCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Quant Time: May 17 08:56:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 08:39:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 1036534  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 1786437  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 1651062  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 803975   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 572736   | 51.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.46% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 565692   | 53.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.24% |          |
| 50) Toluene-d8              | 10.32 | 98   | 2174136  | 51.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.62% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 849097   | 55.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.58% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 289960   | 35.906  | ug/l  | 100    |
| 3) Chloromethane              | 2.21 | 50   | 391436   | 38.120  | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.37 | 62   | 538812   | 41.840  | ug/l  | 100    |
| 5) Bromomethane               | 2.77 | 94   | 355100   | 46.804  | ug/l  | 100    |
| 6) Chloroethane               | 2.92 | 64   | 324016   | 43.456  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 3.24 | 101  | 309406   | 47.166  | ug/l  | 100    |
| 8) Diethyl Ether              | 3.67 | 74   | 267206   | 46.427  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101  | 465922   | 43.752  | ug/l  | 100    |
| 10) Methyl Iodide             | 4.27 | 142  | 760628   | 49.423  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 5.18 | 59   | 228074   | 284.048 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 490982   | 44.121  | ug/l  | 100    |
| 13) Acrolein                  | 3.89 | 56   | 118826   | 127.592 | ug/l  | 100    |
| 14) Allyl chloride            | 4.65 | 41   | 627027   | 38.737  | ug/l  | 100    |
| 15) Acrylonitrile             | 5.36 | 53   | 625913   | 201.831 | ug/l  | 100    |
| 16) Acetone                   | 4.12 | 43   | 524998   | 193.839 | ug/l  | 100    |
| 17) Carbon Disulfide          | 4.38 | 76   | 1327515  | 40.143  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.67 | 43   | 296418   | 42.660  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 722947   | 53.223  | ug/l  | 100    |
| 20) Methylene Chloride        | 4.91 | 84   | 514785   | 43.298  | ug/l  | 100    |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96   | 560008   | 46.520  | ug/l  | 100    |
| 22) Diisopropyl ether         | 6.31 | 45   | 1554943  | 48.000  | ug/l  | 100    |
| 23) Vinyl Acetate             | 6.25 | 43   | 5537817  | 248.779 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 957795   | 44.220  | ug/l  | 100    |
| 25) 2-Butanone                | 7.17 | 43   | 971862   | 226.758 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 7.16 | 77   | 479549   | 44.521  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96   | 648098   | 51.417  | ug/l  | 100    |
| 28) Bromochloromethane        | 7.51 | 49   | 433267   | 52.343  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 7.52 | 42   | 644158   | 231.247 | ug/l  | 100    |
| 30) Chloroform                | 7.67 | 83   | 1002939  | 48.658  | ug/l  | 100    |
| 31) Cyclohexane               | 7.95 | 56   | 856017   | 39.151  | ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 771836   | 48.346  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 8.07 | 75   | 767643   | 40.999  | ug/l  | 100    |
| 37) Ethyl Acetate             | 7.25 | 43   | 425166   | 42.616  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 8.06 | 117  | 790241   | 47.855  | ug/l  | 100    |

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 Quant Title : SW846 8260  
 QLast Update : Fri May 17 08:39:36 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 9.33  | 83   | 1007630  | 43.775   | ug/l  | 100      |
| 40) Benzene                    | 8.32  | 78   | 2245660  | 43.319   | ug/l  | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 250866   | 44.745   | ug/l  | 100      |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 670279   | 44.897   | ug/l  | 100      |
| 43) Isopropyl Acetate          | 8.42  | 43   | 853164   | 50.065   | ug/l  | 100      |
| 44) Trichloroethene            | 9.09  | 130  | 644008   | 48.632   | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 568052   | 44.003   | ug/l  | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 331481   | 48.740   | ug/l  | 100      |
| 47) Bromodichloromethane       | 9.64  | 83   | 820060   | 50.039   | ug/l  | 100      |
| 48) Methyl methacrylate        | 9.43  | 41   | 380335   | 47.918   | ug/l  | 100      |
| 49) 1,4-Dioxane                | 9.45  | 88   | 120113   | 1018.244 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 2198875  | 230.141  | ug/l  | 100      |
| 52) Toluene                    | 10.38 | 92   | 1510884  | 47.156   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 865092   | 52.114   | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 969416   | 49.650   | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 483703   | 49.826   | ug/l  | 100      |
| 56) Ethyl methacrylate         | 10.65 | 69   | 700202   | 54.424   | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 810893   | 47.401   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 1610697  | 261.130  | ug/l  | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 1574689  | 233.429  | ug/l  | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 603920   | 56.478   | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 488269   | 52.100   | ug/l  | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 540026   | 47.154   | ug/l  | 100      |
| 65) Chlorobenzene              | 11.66 | 112  | 1659341  | 48.640   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 608381   | 52.094   | ug/l  | 100      |
| 67) Ethyl Benzene              | 11.73 | 91   | 2909897  | 47.039   | ug/l  | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 2293961  | 98.926   | ug/l  | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 1106240  | 52.231   | ug/l  | 100      |
| 70) Styrene                    | 12.18 | 104  | 1940325  | 52.655   | ug/l  | 100      |
| 71) Bromoform                  | 12.35 | 173  | 373464   | 55.275   | ug/l  | 100      |
| 73) Isopropylbenzene           | 12.46 | 105  | 2936942  | 50.398   | ug/l  | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 863443   | 56.093   | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 600067   | 46.907   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 411297m  | 44.706   | ug/l  |          |
| 77) Bromobenzene               | 12.75 | 156  | 691712   | 51.787   | ug/l  | 100      |
| 78) n-propylbenzene            | 12.80 | 91   | 3426445  | 48.056   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 2010490  | 48.991   | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 2515376  | 51.049   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 214881   | 51.607   | ug/l  | 100      |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 2098069  | 48.841   | ug/l  | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 2138518  | 51.841   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 2520399  | 51.371   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 3011616  | 49.899   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 2742308  | 51.067   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 1315075  | 49.754   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 1327256  | 50.360   | ug/l  | 100      |
| 89) n-Butylbenzene             | 13.83 | 91   | 2619290  | 49.002   | ug/l  | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 551651   | 54.136   | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 1214542  | 51.496   | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 115066   | 49.417   | ug/l  | 100      |

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Quant Title : SW846 8260  
QLast Update : Fri May 17 08:39:36 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 844753   | 52.711 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 433178   | 43.538 | ug/l  | 100      |
| 95) Naphthalene            | 15.37 | 128  | 1959888  | 58.742 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 766831   | 52.812 | ug/l  | 100      |

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

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