

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012319\  
 Data File : VV009251.D  
 Acq On : 23 Jan 2019 17:30  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA V/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 03:55:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\82V012219S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 23 01:54:58 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 82    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.489  | 7.0    | 85    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.406  | 3.2    | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.792  | 8.4#   | 77    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.120  | 1.8    | 83    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.089  | 1.8    | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 33.307  | 33.4#  | 54    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.134  | -4.3   | 87    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.602  | 0.8    | 82    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.975  | 4.0    | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 329.562 | -31.8# | 108   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.864  | 2.3#   | 82    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 275.610 | -10.2  | 95    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.055  | 9.9    | 75    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 314.268 | -25.7# | 106   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 239.704 | 4.1    | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.465  | 7.1    | 77    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.219  | -6.4   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.950  | -3.9   | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.390  | -4.8   | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.348  | 5.3    | 79    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.558  | 2.9    | 81    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 285.014 | -14.0  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.828  | 6.3    | 78    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 303.939 | -21.6# | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.569  | 10.9   | 69    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.599  | 0.8    | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.639  | -1.3   | 83    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 346.272 | -38.5# | 116   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.293  | 3.4#   | 79    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.810  | 6.4    | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.022  | 6.0    | 76    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.259  | -2.5   | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.863  | -1.7   | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.549  | 4.9    | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 64.208  | -28.4# | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.818  | 4.4    | 77    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.024  | -0.0   | 80    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.794  | 2.4    | 80    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 63.510  | -27.0# | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.966  | 0.1    | 83    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 64.089  | -28.2# | 104   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.701  | 2.6    | 82    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.135  | -2.3#  | 85    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 57.032   | -14.1  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.474   | -0.9   | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 61.454   | -22.9# | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1408.519 | -40.9# | 112   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.385   | -0.8   | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 329.376  | -31.8# | 107   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.535   | 0.9#   | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.203   | -4.4   | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.802   | -1.6   | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.987   | -14.0  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 60.686   | -21.4# | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.579   | -11.2  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 145.476  | 41.8#  | 82    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 327.847  | -31.1# | 105   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.315   | -10.6  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 58.651   | -17.3  | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.313   | -0.6   | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.692   | -1.4   | 84    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.963   | 2.1    | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.418   | 1.2    | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.110   | 3.8#   | 80    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 96.337   | 3.7    | 79    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.042   | 1.9    | 81    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.234   | -2.5   | 84    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 59.980   | -20.0  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.818   | 6.4    | 80    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 61.417   | -22.8# | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 58.585   | -17.2  | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 59.312   | -18.6  | 107   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.515   | 1.0    | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.581   | 6.8    | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.543   | 8.9    | 80    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.953   | 6.1    | 80    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 59.321   | -18.6  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.080   | 7.8    | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.698   | 4.6    | 82    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.649   | 4.7    | 82    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.353   | 5.3    | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.824   | 4.4    | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.830   | 4.3    | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.435   | 3.1    | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.630   | 4.7    | 82    | 0.00     |

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Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|--------|--------|--------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 47.310 | 5.4    | 81    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.404 | 1.2    | 88    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 64.934 | -29.9# | 112   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.113 | -6.2   | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.366 | -0.7   | 92    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 62.099 | -24.2# | 108   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.613 | -9.2   | 96    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6