

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv120919\  
 Data File : VY000906.D  
 Acq On : 09 Dec 2019 11:00  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 10 06:38:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 27 12:40:47 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   | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 42.764  | 14.5  | 87    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.494  | 15.0  | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.110  | 11.8# | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.597  | 10.8  | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.683  | 8.6   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.749  | 2.5   | 98    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.676  | -1.4  | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.957  | 0.1   | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.980  | -6.0  | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 234.347 | 6.3   | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.807  | -1.6# | 103   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 230.285 | 7.9   | 96    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.735  | 2.5   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 243.662 | 2.5   | 94    | -0.01    |
| 16 T  | Acetone                     | 250.000 | 200.910 | 19.6  | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.761  | 2.5   | 97    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.870  | 6.3   | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.918  | -1.8  | 96    | -0.01    |
| 20 T  | Methylene Chloride          | 50.000  | 49.825  | 0.3   | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.836  | 0.3   | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.368  | 5.3   | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 238.274 | 4.7   | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.886  | 0.2   | 97    | -0.01    |
| 25 T  | 2-Butanone                  | 250.000 | 222.912 | 10.8  | 81    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.763  | 0.5   | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.067  | -2.1  | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.665  | -9.3  | 107   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 234.024 | 6.4   | 87    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.048  | 5.9#  | 96    | -0.01    |
| 31 T  | Cyclohexane                 | 50.000  | 46.136  | 7.7   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.745  | 0.5   | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.731  | 2.5   | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.339  | -0.7  | 107   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.476  | 3.0   | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 45.499  | 9.0   | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.807  | 0.4   | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.053  | 3.9   | 97    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.912  | 2.2   | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 44.230  | 11.5  | 90    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.944  | 6.1   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 45.625  | 8.8   | 87    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.002  | -0.0  | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.062  | -0.1# | 98    | 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   | 49.842  | 0.3   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.014  | -0.0  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 45.364  | 9.3   | 83    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 938.523 | 6.1   | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.904  | -1.8  | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 232.131 | 7.1   | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.685  | 0.6#  | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.656  | -1.3  | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.964  | 0.1   | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.987  | 0.0   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.272  | -2.5  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.896  | 0.2   | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 242.613 | 3.0   | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 234.955 | 6.0   | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.516  | -3.0  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.797  | -1.6  | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.251  | 5.5   | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.942  | 0.1   | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.479  | -1.0  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.791  | -3.6  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.009  | -0.0# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.641  | 0.4   | 97    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.674  | -1.3  | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.630  | -1.3  | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.153  | -4.3  | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.065  | -0.1  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.096  | 1.8   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.620  | 2.8   | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.372  | -10.7 | 106   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.489  | -1.0  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.843  | 0.3   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.115  | 1.8   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.770  | 0.5   | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.676  | -3.4  | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.452  | -0.9  | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.185  | -0.4  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.746  | 0.5   | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.835  | -1.7  | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.606  | -1.2  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.075  | -0.2  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.013  | -2.0  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.992  | -2.0  | 98    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.035 | -6.1 | 99    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.782 | -1.6 | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.282 | 1.4  | 91    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.134 | -4.3 | 100   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.716 | -1.4 | 100   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.398 | -2.8 | 96    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.758 | -5.5 | 102   | 0.00     |

(#) = Out of Range

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