

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD010320\  
 Data File : VD064726.D  
 Acq On : 03 Jan 2020 11:01  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 03 16:34:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 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    | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.488  | 5.0    | 96    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.667  | 4.7    | 98    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.842  | 0.3#   | 104   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.409  | 11.2   | 95    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.034  | 3.9    | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.561  | 0.9    | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.569  | 4.9    | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.527  | -3.1   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.119  | -4.2   | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 279.904 | -12.0  | 106   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.593  | 0.8#   | 100   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 263.701 | -5.5   | 104   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.911  | -1.8   | 103   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 242.050 | 3.2    | 96    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 300.474 | -20.2# | 121   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.637  | 4.7    | 98    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 45.927  | 8.1    | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.820  | 2.4    | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.683  | -5.4   | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.983  | 0.0    | 103   | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 49.635  | 0.7    | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 253.828 | -1.5   | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.543  | -3.1   | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 263.298 | -5.3   | 104   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.977  | -6.0   | 108   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.200  | -0.4   | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.326  | -0.7   | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 238.245 | 4.7    | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.908  | -1.8#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.879  | 2.2    | 104   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.785  | -3.6   | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.379  | 3.2    | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.175  | -2.3   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.550  | -5.1   | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.174  | 1.7    | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.898  | -9.8   | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.838  | -5.7   | 101   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.189  | -4.4   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.559  | -5.1   | 93    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.280  | -4.6   | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.209  | 1.6    | 93    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.948  | -3.9   | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.938  | -3.9#  | 101   | 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   | 50.174  | -0.3  | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.076  | -2.2  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.237  | 5.5   | 86    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 975.073 | 2.5   | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.566  | -3.1  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 247.064 | 1.2   | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.682  | -5.4# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.960  | -3.9  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.562  | -5.1  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.997  | -2.0  | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.975  | -2.0  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.706  | -1.4  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 223.605 | 10.6  | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 273.474 | -9.4  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.012  | -0.0  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.683  | 0.6   | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.118  | -2.2  | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.585  | -3.2  | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.117  | -4.2  | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.149  | -4.3  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.353  | -6.7# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.256 | -6.3  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.362  | -4.7  | 99    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.798  | -5.6  | 100   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.965  | -1.9  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.145  | -8.3  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.191  | -2.4  | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.070  | -2.1  | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.891  | -11.8 | 123   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.511  | -5.0  | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.836  | -9.7  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.520  | -5.0  | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.456  | -8.9  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.648  | -3.3  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.964  | -3.9  | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.941  | -7.9  | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.541  | -7.1  | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.649  | -9.3  | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.900  | -7.8  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.916  | -5.8  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.999  | -4.0  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.104  | -10.2 | 103   | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 52.748 | -5.5 | 99    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.440 | -2.9 | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.642 | -1.3 | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.426 | -2.9 | 96    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.922 | -3.8 | 99    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.706 | -1.4 | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.736 | 0.5  | 93    | 0.00     |

(#) = Out of Range

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