

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD101119\  
 Data File : VD063948.D  
 Acq On : 11 Oct 2019 20:26  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ml/MSVOA D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 12 03:23:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 05 03:51:17 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    | 76    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.359  | 9.3    | 78    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 58.769  | -17.5  | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.808  | -3.6#  | 83    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.466  | -6.9   | 86    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.654  | -7.3   | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.898  | -7.8   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.894  | -3.8   | 81    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.022  | 4.0    | 79    | 0.01     |
| 10 T  | Methyl Iodide               | 50.000  | 49.408  | 1.2    | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 246.168 | 1.5    | 76    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.404  | 7.2#   | 76    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 132.414 | 47.0#  | 40    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.603  | -3.2   | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 302.382 | -21.0# | 94    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 216.182 | 13.5   | 60    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.589  | 6.8    | 75    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 64.794  | -29.6# | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.009  | -8.0   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 54.569  | -9.1   | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.072  | -4.1   | 83    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 56.061  | -12.1  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 280.122 | -12.0  | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.348  | -6.7   | 82    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 277.215 | -10.9  | 82    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.788  | 6.4    | 75    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 55.426  | -10.9  | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 62.570  | -25.1# | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 293.650 | -17.5  | 96    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.991  | -8.0#  | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 55.876  | -11.8  | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.401  | -6.8   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.519  | -5.0   | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 79    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.336  | -2.7   | 83    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.414  | -0.8   | 85    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.109  | -10.2  | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.099  | -2.2   | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.688  | 0.6    | 83    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.283  | -4.6   | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.755  | -5.5   | 106   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.661  | -3.3   | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.941  | -1.9   | 86    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.765  | 2.5    | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.196  | -6.4#  | 88    | 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   | 54.924   | -9.8  | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.144   | -4.3  | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.289   | -0.6  | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1146.411 | -14.6 | 90    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.439   | -2.9  | 83    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 274.076  | -9.6  | 92    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.758   | -5.5# | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.594   | -5.2  | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.999   | -4.0  | 86    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.051   | -10.1 | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.920   | -7.8  | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.907   | -7.8  | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 297.030  | -18.8 | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 267.535  | -7.0  | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.413   | -8.8  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 58.195   | -16.4 | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.941   | 0.1   | 79    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 80    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.042   | -4.1  | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.613   | -7.2  | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.774   | -3.5  | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.265   | -4.5# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.536  | -7.5  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.267   | -4.5  | 87    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.362   | -10.7 | 88    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.066   | -16.1 | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.609   | 0.8   | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.535   | 2.9   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.845   | -3.7  | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 59.374   | -18.7 | 99    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.335   | -4.7  | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.780   | -1.6  | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.640   | -1.3  | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.177   | -0.4  | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.472   | 3.1   | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.439   | 1.1   | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.635   | 0.7   | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.155   | -2.3  | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.367   | -0.7  | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.902   | -3.8  | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.346   | -2.7  | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.770   | -3.5  | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.022   | -0.0  | 86    | 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 | 51.941 | -3.9 | 87    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.282 | -8.6 | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.496 | -7.0 | 83    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.189 | 1.6  | 84    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.162 | 1.7  | 83    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 54.635 | -9.3 | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.690 | -1.4 | 86    | 0.00     |

(#) = Out of Range

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