

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD101419\  
 Data File : VD063950.D  
 Acq On : 14 Oct 2019 12:22  
 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: Oct 14 17:16:18 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   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.598  | 12.8  | 90    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 53.329  | -6.7  | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.227  | -2.5# | 98    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.926  | 8.1   | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.606  | -1.2  | 99    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.830  | -5.7  | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.500  | 5.0   | 89    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.125  | -0.3  | 99    | 0.01     |
| 10 T  | Methyl Iodide               | 50.000  | 48.751  | 2.5   | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 212.478 | 15.0  | 79    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.960  | 2.1#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 213.430 | 14.6  | 77    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.543  | 4.9   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 242.941 | 2.8   | 91    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 262.199 | -4.9  | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.433  | 7.1   | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.659  | 4.7   | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.009  | 2.0   | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.070  | 3.9   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.850  | -1.7  | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.132  | -2.3  | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 251.803 | -0.7  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.892  | -1.8  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 254.268 | -1.7  | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.739  | 0.5   | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.432  | -2.9  | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 57.685  | -15.4 | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 231.833 | 7.3   | 91    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.519  | -1.0# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 56.196  | -12.4 | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.495  | -7.0  | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.208  | -0.4  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.935  | -3.9  | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.840  | -5.7  | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.711  | 0.6   | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.048  | -8.1  | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.549  | -5.1  | 97    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.463  | -6.9  | 98    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.328  | 1.3   | 110   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.465  | -0.9  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.475  | 5.0   | 89    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.297  | -4.6  | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.557  | -5.1# | 97    | 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   | 53.615   | -7.2   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.082   | -4.2   | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 45.232   | 9.5    | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1081.656 | -8.2   | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 54.139   | -8.3   | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 243.141  | 2.7    | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.556   | -7.1#  | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.917   | -3.8   | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.296   | -6.6   | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.578   | -7.2   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.203   | -0.4   | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.588   | -5.2   | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 249.906  | 0.0    | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 251.207  | -0.5   | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.408   | -6.8   | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.239   | -8.5   | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.514   | -9.0   | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.279   | -6.6   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.264   | -8.5   | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.605   | -9.2   | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.036   | -6.1#  | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 109.269  | -9.3   | 99    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.789   | -5.6   | 97    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.035   | -8.1   | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.465   | -10.9  | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.782   | -1.6   | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.545   | 8.9    | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 45.802   | 8.4    | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 67.317   | -34.6# | 128   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.113   | -0.2   | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.390   | -0.8   | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.978   | 2.0    | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.220   | -2.4   | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.484   | 5.0    | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.187   | 1.6    | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.540   | -1.1   | 99    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.928   | -1.9   | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.591   | -5.2   | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.745   | -5.5   | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.917   | -1.8   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.268   | -2.5   | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.762   | -3.5   | 102   | 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 | 51.772 | -3.5 | 99    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.123 | -2.2 | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.407 | 5.2  | 84    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.811 | -1.6 | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.518 | -5.0 | 101   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.689 | -1.4 | 94    | 0.01     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.423 | -0.8 | 97    | 0.00     |

(#) = Out of Range

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