

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD010621\  
 Data File : VD068021.D  
 Acq On : 06 Jan 2021 18:38  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 07 00:12:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 23 07:34:16 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.134  | -2.3  | 84    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.838  | 12.3  | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.162  | 5.7#  | 81    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.689  | -1.4  | 82    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.180  | 3.6   | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.781  | -1.6  | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.683  | -5.4  | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.024  | -0.0  | 87    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.098  | -4.2  | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 265.165 | -6.1  | 87    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.354  | -0.7# | 85    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 262.980 | -5.2  | 88    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.463  | -0.9  | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 266.664 | -6.7  | 91    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 266.229 | -6.5  | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.235  | 5.5   | 78    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 52.094  | -4.2  | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 56.230  | -12.5 | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.661  | -5.3  | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.678  | -1.4  | 83    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.416  | -4.8  | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 275.352 | -10.1 | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.265  | -2.5  | 88    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 265.101 | -6.0  | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.772  | 0.5   | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.709  | -3.4  | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 55.116  | -10.2 | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 266.876 | -6.8  | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.137  | -4.3# | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.795  | 8.4   | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.553  | -3.1  | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.161  | -4.3  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.868  | -3.7  | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.500  | 3.0   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.799  | -1.6  | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.409  | -0.8  | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.844  | 4.3   | 85    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.623  | 0.8   | 85    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.401  | 9.2   | 78    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.072  | -2.1  | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.001  | -4.0  | 89    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.838  | 2.3   | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.447  | -0.9# | 88    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.509  | -7.0  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.243  | -2.5  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 53.003  | -6.0  | 89    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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 : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 940.775 | 5.9   | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.647  | 0.7   | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 267.010 | -6.8  | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.671  | -9.3# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.906  | -5.8  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.960  | -1.9  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.107  | -6.2  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.604  | -9.2  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.926  | -3.9  | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 293.849 | -17.5 | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 274.154 | -9.7  | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.490  | -7.0  | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.199  | -4.4  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.504  | -3.0  | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 84    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.734  | 6.5   | 87    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.319  | 1.4   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.563  | -1.1  | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.055  | -0.1# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.728 | -0.7  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.628  | -1.3  | 87    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.172  | -4.3  | 89    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.235  | -2.5  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.343  | -2.7  | 89    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 52.118  | -4.2  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.409  | -0.8  | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.497  | -5.0  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.819  | -1.6  | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.928  | -1.9  | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.820  | -1.6  | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.311  | -4.6  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.521  | -5.0  | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.526  | -1.1  | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.537  | -5.1  | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.821  | -5.6  | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.312  | -2.6  | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.560  | -5.1  | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.104  | -2.2  | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.853  | 0.3   | 89    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.722  | -1.4  | 88    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 50.887  | -1.8  | 91    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.541  | -3.1  | 90    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 47.695  | 4.6   | 94    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 51.898  | -3.8  | 93    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 48.093  | 3.8   | 89    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 55.302  | -10.6 | 94    | 0.00     |

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MSVOA\_D  
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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 : 25% Max. Rel. Area : 150%

|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 52.675 | -5.3 | 95    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6