

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD020620\  
 Data File : VD065078.D  
 Acq On : 06 Feb 2020 10:53  
 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: Feb 07 06:14:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 05 15:53:00 2020  
 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    | 79    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 53.198  | -6.4   | 81    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 54.545  | -9.1   | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 56.324  | -12.6# | 87    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 52.615  | -5.2   | 85    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 55.462  | -10.9  | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 56.647  | -13.3  | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.200  | 3.6    | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.551  | -3.1   | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.419  | 1.2    | 74    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 215.853 | 13.7   | 74    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.254  | -0.5#  | 79    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 248.829 | 0.5    | 83    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.234  | -0.5   | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 241.311 | 3.5    | 78    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 258.725 | -3.5   | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.705  | -5.4   | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.896  | 6.2    | 79    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.023  | 4.0    | 77    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.368  | -2.7   | 79    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.128  | -2.3   | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.200  | -2.4   | 80    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 253.172 | -1.3   | 78    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.727  | -3.5   | 83    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 246.666 | 1.3    | 81    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.117  | -6.2   | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.540  | -1.1   | 80    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.492  | -13.0  | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 245.522 | 1.8    | 80    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.367  | -4.7#  | 83    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.642  | 0.7    | 80    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.493  | -5.0   | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.281  | -10.6  | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 79    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 58.400  | -16.8  | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.381  | -6.8   | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.620  | 2.8    | 79    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.469  | -6.9   | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.459  | -6.9   | 80    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.213  | -6.4   | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.998  | 0.0    | 78    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.711  | -3.4   | 81    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.207  | 3.6    | 76    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.199  | -2.4   | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.273  | -6.5#  | 82    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD020620\  
 Data File : VD065078.D  
 Acq On : 06 Feb 2020 10:53  
 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: Feb 07 06:14:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 05 15:53:00 2020  
 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) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 52.287  | -4.6  | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.048  | -6.1  | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.620  | 4.8   | 76    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 985.634 | 1.4   | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 57.558  | -15.1 | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 247.421 | 1.0   | 78    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.686  | -5.4# | 80    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.506  | -1.0  | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.889  | -3.8  | 80    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.409  | -0.8  | 80    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.569  | 0.9   | 76    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.863  | -1.7  | 80    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 237.129 | 5.1   | 62    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 265.867 | -6.3  | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.216  | -4.4  | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.526  | -1.1  | 80    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 56.162  | -12.3 | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 80    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.015  | -6.0  | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.592  | -3.2  | 81    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.716  | -3.4  | 80    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.305  | -6.6# | 82    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.174 | -8.2  | 82    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.935  | -5.9  | 81    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.564  | -7.1  | 81    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.606  | -1.2  | 81    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.664  | -5.3  | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.598  | 2.8   | 76    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.271  | 1.5   | 79    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.219  | -4.4  | 81    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.312  | -0.6  | 80    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.710  | -7.4  | 83    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.268  | -2.5  | 80    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.680  | -5.4  | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.783  | 2.4   | 77    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.630  | -3.3  | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.802  | -5.6  | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.269  | -6.5  | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.776  | -7.6  | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.365  | -8.7  | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.078  | -4.2  | 83    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.350  | -2.7  | 83    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.904  | -7.8  | 82    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD020620\  
Data File : VD065078.D  
Acq On : 06 Feb 2020 10:53  
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: Feb 07 06:14:19 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 05 15:53:00 2020  
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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.065 | -6.1 | 82    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.080 | -2.2 | 81    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.955 | 6.1  | 76    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.382 | 3.2  | 76    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.695 | -3.4 | 82    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 47.205 | 5.6  | 76    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.538 | 0.9  | 80    | 0.00     |

(#) = Out of Range

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