

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD062822\  
 Data File : VD073742.D  
 Acq On : 28 Jun 2022 09:41  
 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: Jun 28 16:27:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062722S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 27 16:20:04 2022  
 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   | 104   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.302  | 7.4   | 98    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.758  | 14.5  | 101   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.464  | 3.1#  | 100   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.002  | -2.0  | 108   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.659  | 8.7   | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.660  | 6.7   | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.953  | 6.1   | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.550  | 6.9   | 102   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.377  | 9.2   | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 271.739 | -8.7  | 124   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.327  | 9.3#  | 102   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 90.013  | 64.0# | 95    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 44.127  | 11.7  | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 249.807 | 0.1   | 102   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 276.999 | -10.8 | 124   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 39.035  | 21.9  | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 45.652  | 8.7   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.513  | 1.0   | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 41.659  | 16.7  | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.198  | 7.6   | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.483  | -3.0  | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 268.244 | -7.3  | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.004  | 4.0   | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 258.997 | -3.6  | 108   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.604  | 0.8   | 108   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.257  | 3.5   | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.065  | 3.9   | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 259.067 | -3.6  | 102   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.821  | 2.4#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.806  | 6.4   | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.355  | 1.3   | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.838  | 0.3   | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 46.507  | 7.0   | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.248  | 5.5   | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.958  | 0.1   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.439  | 1.1   | 106   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.688  | 4.6   | 101   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.461  | 5.1   | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.381  | -8.8  | 110   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.286  | -0.6  | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.073  | -4.1  | 106   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.228  | 3.5   | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.651  | 0.7#  | 105   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 49.165  | 1.7   | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 50.238  | -0.5  | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 55.688  | -11.4 | 102   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 28 16:27:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062722S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 27 16:20:04 2022  
 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 | 1018.141 | -1.8  | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 45.817   | 8.4   | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 268.381  | -7.4  | 104   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.754   | 0.5#  | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.412   | -2.8  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.617   | 0.8   | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.361   | -0.7  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.873   | -7.7  | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.252   | -2.5  | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 241.959  | 3.2   | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 282.716  | -13.1 | 109   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.825   | 0.3   | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.661   | 0.7   | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.351   | 5.3   | 109   | 0.00     |
|       |                             |          |          |       |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.187   | 5.6   | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.517   | -1.0  | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.184   | -0.4  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.183   | -2.4# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.684  | -2.7  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.666   | -5.3  | 107   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.945   | -9.9  | 108   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.063   | -2.1  | 105   | 0.00     |
|       |                             |          |          |       |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.887   | -5.8  | 107   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 53.885   | -7.8  | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.955   | -1.9  | 106   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 59.577   | -19.2 | 131   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.985   | -2.0  | 108   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.469   | -4.9  | 108   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.136   | -2.3  | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.936   | -3.9  | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.099   | -6.2  | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.527   | -3.1  | 108   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.333   | -8.7  | 111   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.254   | -4.5  | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.199   | -6.4  | 109   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.682   | -7.4  | 107   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.692   | -1.4  | 106   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.987   | 0.0   | 108   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.069   | -6.1  | 107   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 51.119   | -2.2  | 109   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.296   | -0.6  | 105   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 49.879   | 0.2   | 100   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 51.035   | -2.1  | 107   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 53.112   | -6.2  | 112   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 52.404   | -4.8  | 102   | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
LabSampleId :  
VSTDCCC050

Quant Time: Jun 28 16:27:04 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062722S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 27 16:20:04 2022  
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 | 51.107 | -2.2 | 104   | 0.00     |

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