

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072723\  
 Data File : VD076844.D  
 Acq On : 27 Jul 2023 20:02  
 Operator : KP/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 28 03:01:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 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    | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.503  | 3.0    | 90    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.706  | -3.4   | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.146  | -2.3#  | 94    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.682  | 16.6   | 81    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.345  | -0.7   | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.040  | -6.1   | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.158  | -4.3   | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.658  | -1.3   | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.892  | 2.2    | 84    | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 294.548 | -17.8  | 108   | 0.03     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.810  | 4.4#   | 89    | -0.01    |
| 13 T  | Acrolein                    | 250.000 | 151.137 | 39.5#  | 62    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.132  | 1.7    | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 272.976 | -9.2   | 97    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 229.670 | 8.1    | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.782  | 10.4   | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 62.858  | -25.7# | 112   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.918  | -5.8   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 64.998  | -30.0# | 111   | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.891  | 2.2    | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.793  | -5.6   | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 249.479 | 0.2    | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.326  | -4.7   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 274.305 | -9.7   | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.126  | 7.7    | 85    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.689  | -3.4   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.108  | 5.8    | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 288.349 | -15.3  | 104   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.555  | -9.1#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.463  | 9.1    | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.967  | -5.9   | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.983  | 4.0    | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.767  | 2.5    | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.263  | -0.5   | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.750  | -9.5   | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.331  | -4.7   | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.465  | 5.1    | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.856  | 0.3    | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.156  | 5.7    | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.315  | -10.6  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.634  | -9.3   | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.025  | 2.0    | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.575  | -5.2#  | 92    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.902  | -7.8   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.217  | -4.4   | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 53.355  | -6.7   | 93    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072723\  
 Data File : VD076844.D  
 Acq On : 27 Jul 2023 20:02  
 Operator : KP/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 28 03:01:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 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 | 1147.655 | -14.8 | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 44.390   | 11.2  | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 288.162  | -15.3 | 100   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.023   | -0.0# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.661   | -3.3  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.571   | -1.1  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.451   | -4.9  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.128   | -6.3  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.008   | -4.0  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 233.700  | 6.5   | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 277.799  | -11.1 | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.863   | -7.7  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.257   | -4.5  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.920   | 4.2   | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 54.221   | -8.4  | 98    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.483   | -1.0  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.823   | -5.6  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.208   | -0.4# | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.868  | -1.9  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.546   | -3.1  | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.216   | -2.4  | 90    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.310   | -10.6 | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.822   | -3.6  | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.021   | -8.0  | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.078   | -6.2  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.742   | -11.5 | 97    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.621   | -7.2  | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.127   | -2.3  | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.763   | -3.5  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.040   | -2.1  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.139   | 1.7   | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.624   | -1.2  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.419   | -6.8  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.304   | -0.6  | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.720   | -5.4  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.421   | -4.8  | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.272   | -2.5  | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.851   | -1.7  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.987   | -4.0  | 94    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 57.653   | -15.3 | 101   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.786   | -3.6  | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 54.681   | -9.4  | 103   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 52.777   | -5.6  | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 51.522   | -3.0  | 93    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 60.057   | -20.1 | 105   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072723\  
Data File : VD076844.D  
Acq On : 27 Jul 2023 20:02  
Operator : KP/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
LabSampleId :  
VSTDCCC050

Quant Time: Jul 28 03:01:25 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 17 08:07:52 2023  
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 | 55.115 | -10.2 | 99    | 0.00     |

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