

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY011623\  
 Data File : VY012211.D  
 Acq On : 16 Jan 2023 19:51  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 17 04:52:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 04:31:47 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   | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.665  | 10.7  | 107   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.310  | -2.6  | 115   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.423  | 1.2#  | 109   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.773  | -1.5  | 113   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.526  | 0.9   | 108   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.717  | 8.6   | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.564  | -3.1  | 111   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.327  | 5.3   | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.311  | 5.4   | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 230.030 | 8.0   | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.552  | 2.9#  | 104   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 229.421 | 8.2   | 107   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.861  | -5.7  | 113   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 267.682 | -7.1  | 111   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 217.346 | 13.1  | 80    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.931  | 4.1   | 103   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.310  | -8.6  | 115   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.137  | -4.3  | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.279  | 3.4   | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.194  | -0.4  | 106   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.583  | -9.2  | 115   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 271.715 | -8.7  | 111   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.094  | -4.2  | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 254.105 | -1.6  | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.220  | 3.6   | 103   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.614  | -3.2  | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.072  | -2.1  | 112   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 274.020 | -9.6  | 111   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.499  | -3.0# | 108   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.843  | 6.3   | 110   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.085  | 3.8   | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.114  | -2.2  | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.019  | 6.0   | 109   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.755  | 6.5   | 104   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.965  | -3.9  | 111   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 44.977  | 10.0  | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.999  | 4.0   | 108   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.249  | 1.5   | 109   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.333  | 5.3   | 96    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.833  | 0.3   | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.707  | -5.4  | 111   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.511  | 3.0   | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.970  | -3.9# | 114   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 51.545  | -3.1  | 110   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 50.779  | -1.6  | 109   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 53.009  | -6.0  | 108   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 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 | 1049.652 | -5.0 | 106   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.457   | 1.1  | 107   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 265.746  | -6.3 | 111   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.673   | 0.7# | 108   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.507   | -1.0 | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.364   | -2.7 | 109   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.042   | -4.1 | 111   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.857   | -5.7 | 109   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.078   | -4.2 | 111   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 249.347  | 0.3  | 108   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 257.719  | -3.1 | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.861   | -1.7 | 107   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.075   | -4.2 | 110   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.136   | 5.7  | 111   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0  | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.052   | -0.1 | 110   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.555   | 2.9  | 109   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.190   | 1.6  | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.990   | 4.0# | 106   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 96.217   | 3.8  | 106   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.749   | 2.5  | 108   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.151   | 1.7  | 107   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.586   | 0.8  | 107   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0  | 107   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.261   | 3.5  | 106   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.328   | -2.7 | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.781   | -1.6 | 109   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.190   | 11.6 | 86    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.232   | 1.5  | 107   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.870   | 4.3  | 107   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.825   | 2.3  | 108   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.142   | 3.7  | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.541   | -1.1 | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.425   | 5.2  | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.928   | 6.1  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.630   | 2.7  | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.121   | 5.8  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.288   | 5.4  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.882   | 4.2  | 106   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.539   | 4.9  | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.658   | 4.7  | 107   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 47.118   | 5.8  | 106   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 48.373   | 3.3  | 107   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 51.102   | -2.2 | 110   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.257   | 3.5  | 109   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.163   | 7.7  | 107   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 51.415   | -2.8 | 110   | 0.00     |

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ALS Vial : 21 Sample Multiplier: 1

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MSVOA\_Y  
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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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 49.007 | 2.0  | 111   | 0.00     |

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