

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\YV110623\  
 Data File : VY016241.D  
 Acq On : 06 Nov 2023 16:54  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 06 23:59:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y103123S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 01 03:33:29 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 52.512  | -5.0  | 94    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.062  | 3.9   | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 54.468  | -8.9# | 100   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.612  | -3.2  | 99    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.205  | -4.4  | 99    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 55.588  | -11.2 | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.415  | -2.8  | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 54.063  | -8.1  | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.158  | -4.3  | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 250.768 | -0.3  | 117   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.754  | -7.5# | 103   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 220.975 | 11.6  | 97    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 56.762  | -13.5 | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 245.754 | 1.7   | 101   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 214.827 | 14.1  | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.788  | -3.6  | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.000  | 0.0   | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.973  | -3.9  | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.261  | -4.5  | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.913  | -5.8  | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.656  | -9.3  | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 255.408 | -2.2  | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.060  | -10.1 | 107   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 238.563 | 4.6   | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.851  | -11.7 | 105   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.169  | -8.3  | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.917  | 4.2   | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 249.469 | 0.2   | 102   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.396  | -6.8# | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.245  | -2.5  | 101   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.169  | -8.3  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.149  | 7.7   | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.853  | 8.3   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.042  | -4.1  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.730  | 4.5   | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 57.974  | -15.9 | 110   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.281  | -4.6  | 98    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.883  | -3.8  | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.040  | 5.9   | 108   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.788  | 0.4   | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.257  | 1.5   | 104   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.305  | -4.6  | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.892  | -7.8# | 106   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 49.267  | 1.5   | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 53.158  | -6.3  | 107   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 48.779  | 2.4   | 101   | 0.00     |

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 ALS Vial : 18 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 | 901.740 | 9.8   | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.668  | 4.7   | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 246.579 | 1.4   | 102   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.408  | -4.8# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.006  | -2.0  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.510  | -3.0  | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.439  | -0.9  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.681  | -1.4  | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.563  | 0.9   | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 240.715 | 3.7   | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 247.821 | 0.9   | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.244  | -2.5  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.295  | 1.4   | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.588  | 6.8   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.768  | 2.5   | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.374  | -4.7  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.909  | -7.8  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.014  | -8.0# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.003 | -6.0  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.498  | -7.0  | 104   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.029  | -6.1  | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.777  | -3.6  | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.836  | -9.7  | 102   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 50.456  | -0.9  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.449  | -4.9  | 107   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.135  | -0.3  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.320  | -4.6  | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.048  | -10.1 | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.677  | -7.4  | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.363  | -8.7  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.951  | -3.9  | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.938  | -7.9  | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.240  | -10.5 | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.792  | -7.6  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 55.426  | -10.9 | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.145  | -10.3 | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.713  | -5.4  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.846  | -3.7  | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.890  | -9.8  | 102   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 59.843  | -19.7 | 111   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 51.953  | -3.9  | 101   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 44.007  | 12.0  | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 49.884  | 0.2   | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 52.131  | -4.3  | 98    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 54.284  | -8.6  | 108   | 0.00     |

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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 | 46.960 | 6.1  | 91    | 0.00     |

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