

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY060923\  
 Data File : VY014098.D  
 Acq On : 09 Jun 2023 16:04  
 Operator : KP/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY060923

Quant Time: Jun 09 18:10:35 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 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   | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.345  | 5.3   | 88    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.316  | 5.4   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.122  | 3.8#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.555  | 12.9  | 90    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.409  | 7.2   | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.739  | 2.5   | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.032  | 5.9   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.558  | 0.9   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.625  | -7.2  | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 200.223 | 19.9  | 81    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.962  | 4.1#  | 90    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 233.307 | 6.7   | 84    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.812  | 0.4   | 92    | -0.01    |
| 15 T  | Acrylonitrile               | 250.000 | 227.177 | 9.1   | 86    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 235.447 | 5.8   | 101   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.937  | 4.1   | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 42.180  | 15.6  | 85    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.445  | 1.1   | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.318  | -4.6  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.352  | -0.7  | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.024  | -6.0  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 255.163 | -2.1  | 94    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.604  | -3.2  | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 236.738 | 5.3   | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.481  | -3.0  | 97    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.466  | -4.9  | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.360  | -0.7  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 221.062 | 11.6  | 87    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.775  | -3.5# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.400  | 7.2   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.178  | -0.4  | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 44.229  | 11.5  | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.825  | 2.3   | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.054  | 1.9   | 91    | -0.01    |
| 37 T  | Ethyl Acetate               | 50.000  | 46.006  | 8.0   | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.016  | 2.0   | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.788  | 0.4   | 89    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.273  | 1.5   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 41.956  | 16.1  | 90    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.517  | 5.0   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 44.666  | 10.7  | 85    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.149  | 1.7   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.305  | 3.4#  | 91    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 46.495  | 7.0   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.684  | 0.6   | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 44.728  | 10.5  | 85    | 0.00     |

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 ALS Vial : 13 Sample Multiplier: 1

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 MSVOA\_Y  
 ClientSampleId :  
 ICSVY060923

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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 | 829.323 | 17.1  | 77    | -0.02    |
| 50 S  | Toluene-d8                  | 50.000   | 46.137  | 7.7   | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 221.841 | 11.3  | 85    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.987  | 0.0#  | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.967  | 2.1   | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.350  | 1.3   | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.787  | 4.4   | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 46.735  | 6.5   | 85    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.321  | 5.4   | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 225.851 | 9.7   | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 222.707 | 10.9  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.212  | 3.6   | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 46.948  | 6.1   | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.943  | 4.1   | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.047  | 3.9   | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.936  | 2.1   | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.290  | 1.4   | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.273  | -0.5# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.215 | -1.2  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.662  | -1.3  | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.234  | -2.5  | 94    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 46.391  | 7.2   | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.534  | -1.1  | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 46.137  | 7.7   | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 44.772  | 10.5  | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.092  | 9.8   | 82    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.829  | 2.3   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.342  | -0.7  | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.645  | 0.7   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.155  | -0.3  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.708  | 8.6   | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.193  | -0.4  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.558  | -1.1  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.952  | -1.9  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.784  | -1.6  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.481  | -1.0  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.236  | 1.5   | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.803  | 2.4   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.439  | -2.9  | 94    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 50.133  | -0.3  | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 48.667  | 2.7   | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 42.324  | 15.4  | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 48.280  | 3.4   | 92    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 49.631  | 0.7   | 93    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 44.890  | 10.2  | 87    | 0.00     |

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
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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 | 47.115 | 5.8  | 93    | 0.00     |

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