

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX092923\  
 Data File : VX037989.D  
 Acq On : 29 Sep 2023 20:24  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 29 23:11:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091523W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 16 04:55:44 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   | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 39.217  | 21.6  | 69    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.239  | 13.5  | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.662  | 8.7#  | 80    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 49.211  | 1.6   | 84    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.018  | 6.0   | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.086  | -0.2  | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.801  | 2.4   | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.657  | -1.3  | 88    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.881  | -1.8  | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 212.929 | 14.8  | 76    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.058  | -2.1# | 88    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 166.086 | 33.6# | 59    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.205  | 5.6   | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 238.112 | 4.8   | 83    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 187.096 | 25.2# | 71    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.433  | 1.1   | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.315  | 7.4   | 82    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.640  | 0.7   | 88    | -0.01    |
| 20 T  | Methylene Chloride          | 50.000  | 51.755  | -3.5  | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.552  | -7.1  | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.685  | 0.6   | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 247.269 | 1.1   | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.661  | 0.7   | 88    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 217.473 | 13.0  | 77    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.769  | 10.5  | 79    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.854  | -3.7  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 42.492  | 15.0  | 77    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 227.085 | 9.2   | 79    | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 51.186  | -2.4# | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.713  | -1.4  | 86    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.931  | -5.9  | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.741  | 0.5   | 86    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.565  | -7.1  | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.656  | -5.3  | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.295  | 5.4   | 81    | -0.02    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.912  | -7.8  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.670  | -5.3  | 89    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.605  | -3.2  | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.427  | 3.1   | 83    | -0.03    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.874  | -1.7  | 89    | -0.01    |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.200  | 3.6   | 81    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.373  | -2.7  | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.971  | -1.9# | 89    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 53.028  | -6.1  | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 53.272  | -6.5  | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 48.845  | 2.3   | 82    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Sat Sep 16 04:55:44 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 | 930.727 | 6.9   | 82    | -0.01    |
| 50 S  | Toluene-d8                  | 50.000   | 51.718  | -3.4  | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 241.500 | 3.4   | 82    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.681  | -7.4# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.564  | -9.1  | 88    | -0.01    |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.328  | -6.7  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.150  | -8.3  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.129  | -4.3  | 86    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.323  | -4.6  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 199.215 | 20.3  | 69    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 238.642 | 4.5   | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.146  | -12.3 | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.058  | -10.1 | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 56.742  | -13.5 | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.871  | -7.7  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.353  | -4.7  | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.544  | -9.1  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.347  | -6.7# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.116 | -8.1  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.672  | -5.3  | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.786  | -11.6 | 94    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.720  | -9.4  | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.394  | 5.2   | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 44.849  | 10.3  | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 45.728  | 8.5   | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.587  | 10.8  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.255  | 3.5   | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.845  | 0.3   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.010  | 6.0   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.548  | 2.9   | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 43.267  | 13.5  | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.251  | 1.5   | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.756  | 4.5   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.884  | 2.2   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.407  | -0.8  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.254  | -2.5  | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.126  | -2.3  | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.198  | -2.4  | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.390  | -8.8  | 104   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 49.755  | 0.5   | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.816  | 0.4   | 103   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 46.779  | 6.4   | 90    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 57.334  | -14.7 | 114   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 53.522  | -7.0  | 106   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 52.248  | -4.5  | 101   | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091523W.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 16 04:55:44 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 | 54.623 | -9.2 | 109   | 0.00     |

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