

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012021\  
 Data File : VX020675.D  
 Acq On : 20 Jan 2021 10:34  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 20 16:54:38 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X011921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 14:09:08 2021  
 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   | 107   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 52.839  | -5.7  | 110   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 52.165  | -4.3  | 108   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 53.983  | -8.0# | 109   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 39.442  | 21.1  | 81    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.831  | 2.3   | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.993  | 6.0   | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.725  | 2.5   | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.093  | -6.2  | 111   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.917  | -7.8  | 111   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 246.742 | 1.3   | 110   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.028  | -6.1# | 112   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 286.697 | -14.7 | 139   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.339  | -6.7  | 112   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 261.516 | -4.6  | 109   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 277.806 | -11.1 | 118   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.543  | -5.1  | 110   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.578  | -3.2  | 109   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.374  | -8.7  | 111   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.047  | -0.1  | 110   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.713  | -5.4  | 112   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.833  | -9.7  | 111   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 275.847 | -10.3 | 109   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.190  | -4.4  | 109   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 270.583 | -8.2  | 111   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.497  | -7.0  | 112   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.232  | -4.5  | 111   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.802  | 6.4   | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 265.167 | -6.1  | 107   | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 50.173  | -0.3# | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 54.083  | -8.2  | 112   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.961  | -1.9  | 107   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 44.196  | 11.6  | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.934  | 8.1   | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.039  | -8.1  | 111   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.917  | -5.8  | 107   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.717  | -3.4  | 107   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 56.628  | -13.3 | 112   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.044  | -6.1  | 110   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.967  | -5.9  | 109   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.188  | -0.4  | 105   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.152  | -8.3  | 109   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.858  | -7.7  | 111   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.655  | -7.3# | 110   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 51.280  | -2.6  | 106   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 52.287  | -4.6  | 108   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 55.462  | -10.9 | 110   | 0.00     |

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 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 20 16:54:38 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X011921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 14:09:08 2021  
 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 | 1109.549 | -11.0  | 108   | -0.02    |
| 50 S  | Toluene-d8                  | 50.000   | 46.908   | 6.2    | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 271.018  | -8.4   | 107   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.256   | -8.5#  | 110   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.316   | -12.6  | 112   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.318   | -10.6  | 110   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.101   | -2.2   | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.282   | -4.6   | 114   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.269   | -6.5   | 109   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 260.252  | -4.1   | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 288.111  | -15.2  | 111   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.747   | -5.5   | 108   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.534   | -7.1   | 109   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.659   | 2.7    | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 54.279   | -8.6   | 112   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.021   | -8.0   | 110   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.579   | -9.2   | 110   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 57.443   | -14.9# | 110   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 118.169  | -18.2  | 112   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 57.971   | -15.9  | 110   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.793   | -7.6   | 111   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.100   | -14.2  | 113   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 106   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 56.051   | -12.1  | 109   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 52.733   | -5.5   | 114   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.135   | -4.3   | 110   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.674   | -7.3   | 109   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.963   | -9.9   | 111   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 56.912   | -13.8  | 110   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 55.601   | -11.2  | 109   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 58.184   | -16.4  | 110   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.184   | -10.4  | 113   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.977   | -12.0  | 111   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 56.567   | -13.1  | 110   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.040   | -6.1   | 109   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.686   | -13.4  | 110   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.044   | -6.1   | 110   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 55.759   | -11.5  | 111   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.086   | -8.2   | 111   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.992   | -6.0   | 111   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 53.588   | -7.2   | 107   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 54.317   | -8.6   | 111   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 51.185   | -2.4   | 103   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 50.623   | -1.2   | 109   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 55.203   | -10.4  | 117   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 50.153   | -0.3   | 104   | 0.00     |

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Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Jan 20 16:54:38 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X011921W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 19 14:09:08 2021  
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 | 56.555 | -13.1 | 108   | 0.00     |

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