

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX092122\  
 Data File : VX031559.D  
 Acq On : 22 Sep 2022 09:47  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 22 10:16:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091922W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 20 09:45:29 2022  
 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.719 | 0.764 | -6.3   | 75    | 0.00     |
| 3 P   | Chloromethane               | 0.954 | 0.871 | 8.7    | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.087 | 1.084 | 0.3#   | 81    | 0.00     |
| 5 T   | Bromomethane                | 1.548 | 2.108 | -36.2# | 115   | 0.00     |
| 6 T   | Chloroethane                | 1.174 | 1.517 | -29.2# | 122   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 2.467 | 2.346 | 4.9    | 81    | 0.00     |
| 8 T   | Diethyl Ether               | 0.850 | 0.775 | 8.8    | 80    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.805 | 0.760 | 5.6    | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 0.779 | 0.902 | -15.8  | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.249 | 0.190 | 23.7   | 75    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.778 | 0.730 | 6.2#   | 80    | 0.00     |
| 13 T  | Acrolein                    | 0.114 | 0.073 | 36.0#  | 57    | 0.00     |
| 14 T  | Allyl chloride              | 1.269 | 1.024 | 19.3   | 70    | 0.00     |
| 15 T  | Acrylonitrile               | 0.483 | 0.451 | 6.6    | 78    | 0.00     |
| 16 T  | Acetone                     | 0.438 | 0.383 | 12.6   | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 2.097 | 1.763 | 15.9   | 72    | 0.00     |
| 18 T  | Methyl Acetate              | 1.370 | 1.225 | 10.6   | 78    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.815 | 2.681 | 4.8    | 80    | 0.00     |
| 20 T  | Methylene Chloride          | 0.999 | 0.834 | 16.5   | 80    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.879 | 0.829 | 5.7    | 79    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.748 | 2.603 | 5.3    | 79    | 0.00     |
| 23 T  | Vinyl Acetate               | 2.350 | 2.218 | 5.6    | 77    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.553 | 1.435 | 7.6    | 78    | 0.00     |
| 25 T  | 2-Butanone                  | 0.708 | 0.633 | 10.6   | 76    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.372 | 0.632 | 53.9#  | 38#   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 1.059 | 0.982 | 7.3    | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 0.620 | 0.647 | -4.4   | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.462 | 0.420 | 9.1    | 77    | 0.00     |
| 30 C  | Chloroform                  | 1.703 | 1.656 | 2.8#   | 79    | 0.00     |
| 31 T  | Cyclohexane                 | 1.360 | 1.244 | 8.5    | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.547 | 1.424 | 8.0    | 77    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 1.090 | 0.895 | 17.9   | 79    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.592 | 0.510 | 13.9   | 81    | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 0.795 | 0.743 | 6.5    | 77    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.948 | 0.835 | 11.9   | 78    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.881 | 0.826 | 6.2    | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.978 | 0.857 | 12.4   | 75    | 0.00     |
| 40 TM | Benzene                     | 2.371 | 2.242 | 5.4    | 79    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.472 | 0.429 | 9.1    | 78    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.874 | 0.811 | 7.2    | 78    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.457 | 1.362 | 6.5    | 78    | 0.00     |
| 44 TM | Trichloroethene             | 0.672 | 0.624 | 7.1    | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.596 | 0.549 | 7.9#   | 78    | 0.00     |
| 46 T  | Dibromomethane              | 0.459 | 0.428 | 6.8    | 79    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.863 | 0.817 | 5.3    | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.666 | 0.619 | 7.1    | 78    | 0.00     |

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 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.015 | 0.015 | 0.0   | 79    | 0.01     |
| 50 S  | Toluene-d8                  | 1.992 | 1.866 | 6.3   | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.937 | 0.903 | 3.6   | 79    | 0.00     |
| 52 CM | Toluene                     | 1.546 | 1.521 | 1.6#  | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.893 | 0.802 | 10.2  | 70    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.976 | 0.835 | 14.4  | 70    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.637 | 0.629 | 1.3   | 84    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.906 | 0.911 | -0.6  | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 1.046 | 1.008 | 3.6   | 81    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.350 | 0.324 | 7.4   | 69    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.704 | 0.682 | 3.1   | 77    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.677 | 0.690 | -1.9  | 80    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.686 | 0.694 | -1.2  | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.675 | 0.675 | 0.0   | 82    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.601 | 0.546 | 9.2   | 81    | 0.00     |
| 65 PM | Chlorobenzene               | 1.542 | 1.468 | 4.8   | 82    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.556 | 0.545 | 2.0   | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.722 | 2.565 | 5.8#  | 81    | 0.00     |
| 68 T  | m/p-Xylenes                 | 1.094 | 1.058 | 3.3   | 82    | 0.00     |
| 69 T  | o-Xylene                    | 1.044 | 1.017 | 2.6   | 81    | 0.00     |
| 70 T  | Styrene                     | 1.719 | 1.718 | 0.1   | 82    | 0.00     |
| 71 P  | Bromoform                   | 0.445 | 0.427 | 4.0   | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.734 | 3.315 | 11.2  | 82    | 0.00     |
| 74 T  | N-amyl acetate              | 1.513 | 1.357 | 10.3  | 79    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.259 | 1.068 | 15.2  | 82    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.116 | 0.930 | 16.7  | 76    | 0.00     |
| 77 T  | Bromobenzene                | 0.920 | 0.832 | 9.6   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 4.296 | 3.861 | 10.1  | 81    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.557 | 2.257 | 11.7  | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.169 | 2.932 | 7.5   | 80    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.347 | 0.246 | 29.1# | 59    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.001 | 2.790 | 7.0   | 79    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.071 | 2.841 | 7.5   | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.121 | 2.864 | 8.2   | 81    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.887 | 3.569 | 8.2   | 81    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.282 | 3.152 | 4.0   | 82    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.764 | 1.584 | 10.2  | 82    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.840 | 1.696 | 7.8   | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.796 | 2.604 | 6.9   | 78    | 0.00     |
| 90 T  | Hexachloroethane            | 0.564 | 0.518 | 8.2   | 81    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.776 | 1.634 | 8.0   | 84    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.257 | 0.221 | 14.0  | 75    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.979 | 0.904 | 7.7   | 82    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.391 | 0.331 | 15.3  | 83    | 0.00     |
| 95 T  | Naphthalene                 | 3.584 | 3.338 | 6.9   | 83    | 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               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.009 | 0.947 | 6.1  | 86    | 0.00     |

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