

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062821\  
 Data File : VX022991.D  
 Acq On : 28 Jun 2021 20:08  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 29 03:09:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062321W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 19:12:26 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 96    | 0.01     |
| 2 T   | Dichlorodifluoromethane     | 0.705 | 0.693 | 1.7   | 89    | 0.00     |
| 3 P   | Chloromethane               | 0.775 | 0.757 | 2.3   | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.715 | 0.703 | 1.7#  | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.394 | 0.353 | 10.4  | 92    | 0.00     |
| 6 T   | Chloroethane                | 0.442 | 0.437 | 1.1   | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.038 | 1.062 | -2.3  | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 0.401 | 0.401 | 0.0   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.650 | 0.653 | -0.5  | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.722 | 0.721 | 0.1   | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.189 | 0.181 | 4.2   | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.649 | 0.651 | -0.3# | 96    | 0.00     |
| 13 T  | Acrolein                    | 0.118 | 0.122 | -3.4  | 105   | 0.00     |
| 14 T  | Allyl chloride              | 1.232 | 1.259 | -2.2  | 98    | 0.00     |
| 15 T  | Acrylonitrile               | 0.432 | 0.470 | -8.8  | 101   | 0.00     |
| 16 T  | Acetone                     | 0.402 | 0.393 | 2.2   | 99    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.635 | 1.501 | 8.2   | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 0.990 | 1.055 | -6.6  | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.326 | 2.460 | -5.8  | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.848 | 0.787 | 7.2   | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.720 | 0.712 | 1.1   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.563 | 2.785 | -8.7  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 2.150 | 2.398 | -11.5 | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.369 | 1.429 | -4.4  | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 0.626 | 0.664 | -6.1  | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.039 | 0.954 | 8.2   | 85    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.799 | 0.828 | -3.6  | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.645 | 0.677 | -5.0  | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.402 | 0.440 | -9.5  | 101   | 0.00     |
| 30 C  | Chloroform                  | 1.378 | 1.431 | -3.8# | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 1.281 | 1.284 | -0.2  | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.107 | 1.186 | -7.1  | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.907 | 0.892 | 1.7   | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.318 | 0.314 | 1.3   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.531 | 0.511 | 3.8   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.615 | 0.651 | -5.9  | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.445 | 0.457 | -2.7  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.620 | 0.610 | 1.6   | 95    | 0.00     |
| 40 TM | Benzene                     | 1.531 | 1.553 | -1.4  | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.339 | 0.367 | -8.3  | 108   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.563 | 0.601 | -6.7  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.989 | 1.052 | -6.4  | 102   | 0.00     |
| 44 TM | Trichloroethene             | 0.363 | 0.362 | 0.3   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.395 | 0.411 | -4.1# | 100   | 0.00     |
| 46 T  | Dibromomethane              | 0.262 | 0.270 | -3.1  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.466 | 0.503 | -7.9  | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.458 | 0.488 | -6.6  | 100   | 0.00     |

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 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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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                 | 0.010 | 0.009 | 10.0  | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 1.244 | 1.222 | 1.8   | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.616 | 0.667 | -8.3  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.926 | 0.938 | -1.3# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.528 | 0.569 | -7.8  | 97    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.594 | 0.617 | -3.9  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.371 | 0.370 | 0.3   | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.607 | 0.652 | -7.4  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.675 | 0.699 | -3.6  | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.309 | 0.340 | -10.0 | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.467 | 0.505 | -8.1  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.311 | 0.327 | -5.1  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.377 | 0.386 | -2.4  | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.464 | 0.480 | -3.4  | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.351 | 0.355 | -1.1  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 1.053 | 1.055 | -0.2  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.340 | 0.374 | -10.0 | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.939 | 2.035 | -5.0# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.720 | 0.739 | -2.6  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.701 | 0.720 | -2.7  | 96    | 0.00     |
| 70 T  | Styrene                     | 1.163 | 1.211 | -4.1  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.194 | 0.213 | -9.8  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.231 | 4.453 | -5.2  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 2.118 | 2.419 | -14.2 | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.453 | 1.539 | -5.9  | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.321 | 1.414 | -7.0  | 99    | 0.00     |
| 77 T  | Bromobenzene                | 0.880 | 0.899 | -2.2  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 5.119 | 5.492 | -7.3  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.091 | 3.294 | -6.6  | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.474 | 3.824 | -10.1 | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.427 | 0.434 | -1.6  | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.572 | 3.800 | -6.4  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.281 | 3.416 | -4.1  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.496 | 3.856 | -10.3 | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.424 | 4.747 | -7.3  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.516 | 3.710 | -5.5  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.697 | 1.729 | -1.9  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.775 | 1.739 | 2.0   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.343 | 3.753 | -12.3 | 100   | 0.00     |
| 90 T  | Hexachloroethane            | 0.549 | 0.592 | -7.8  | 96    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.657 | 1.732 | -4.5  | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.285 | 0.342 | -20.0 | 107   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.919 | 0.960 | -4.5  | 97    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.360 | 0.352 | 2.2   | 98    | 0.00     |
| 95 T  | Naphthalene                 | 3.590 | 4.065 | -13.2 | 99    | 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 | 0.925 | 1.001 | -8.2 | 96    | 0.00     |

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