

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032423\  
 Data File : VX034711.D  
 Acq On : 24 Mar 2023 10:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 27 01:26:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 13 10:29:32 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.466 | 0.562 | -20.6 | 123   | 0.00     |
| 3 P   | Chloromethane               | 0.839 | 0.640 | 23.7  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.635 | 0.635 | 0.0   | 104   | 0.00     |
| 5 T   | Bromomethane                | 0.320 | 0.395 | -23.4 | 119   | 0.02     |
| 6 T   | Chloroethane                | 0.365 | 0.360 | 1.4   | 98    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.954 | 0.898 | 5.9   | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 0.348 | 0.353 | -1.4  | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.556 | 0.537 | 3.4   | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 0.730 | 0.685 | 6.2   | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.151 | 0.125 | 17.2  | 98    | 0.05     |
| 12 CM | 1,1-Dichloroethene          | 0.547 | 0.506 | 7.5#  | 97    | 0.00     |
| 13 T  | Acrolein                    | 0.120 | 0.100 | 16.7  | 96    | 0.00     |
| 14 T  | Allyl chloride              | 1.110 | 1.010 | 9.0   | 98    | 0.00     |
| 15 T  | Acrylonitrile               | 0.327 | 0.294 | 10.1  | 94    | 0.00     |
| 16 T  | Acetone                     | 0.343 | 0.275 | 19.8  | 85    | 0.02     |
| 17 T  | Carbon Disulfide            | 1.540 | 1.240 | 19.5  | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 1.120 | 1.098 | 2.0   | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.960 | 1.936 | 1.2   | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 0.665 | 0.587 | 11.7  | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.581 | 0.557 | 4.1   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.116 | 2.016 | 4.7   | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.610 | 1.487 | 7.6   | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.137 | 1.090 | 4.1   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.490 | 0.425 | 13.3  | 90    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 0.989 | 0.947 | 4.2   | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.700 | 0.658 | 6.0   | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.529 | 0.491 | 7.2   | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.303 | 0.273 | 9.9   | 94    | 0.00     |
| 30 C  | Chloroform                  | 1.115 | 1.131 | -1.4# | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 1.020 | 0.953 | 6.6   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.987 | 1.004 | -1.7  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.727 | 0.726 | 0.1   | 119   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.330 | 0.335 | -1.5  | 115   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.507 | 0.504 | 0.6   | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.554 | 0.509 | 8.1   | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.504 | 0.520 | -3.2  | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.607 | 0.579 | 4.6   | 91    | 0.00     |
| 40 TM | Benzene                     | 1.483 | 1.424 | 4.0   | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.304 | 0.296 | 2.6   | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.545 | 0.580 | -6.4  | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.938 | 0.881 | 6.1   | 94    | 0.00     |
| 44 TM | Trichloroethene             | 0.385 | 0.375 | 2.6   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.387 | 0.373 | 3.6#  | 97    | 0.00     |
| 46 T  | Dibromomethane              | 0.263 | 0.254 | 3.4   | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.510 | 0.508 | 0.4   | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.451 | 0.441 | 2.2   | 97    | 0.00     |

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 ALS Vial : 2 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                 | 0.009 | 0.008 | 11.1  | 88    | 0.05     |
| 50 S  | Toluene-d8                  | 1.232 | 1.177 | 4.5   | 105   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.544 | 0.511 | 6.1   | 93    | 0.00     |
| 52 CM | Toluene                     | 0.918 | 0.912 | 0.7#  | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.574 | 0.574 | 0.0   | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.621 | 0.610 | 1.8   | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.364 | 0.358 | 1.6   | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.598 | 0.586 | 2.0   | 95    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.648 | 0.629 | 2.9   | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.308 | 0.263 | 14.6  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.421 | 0.387 | 8.1   | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.382 | 0.383 | -0.3  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.393 | 0.383 | 2.5   | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.498 | 0.483 | 3.0   | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.336 | 0.357 | -6.2  | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.097 | 1.064 | 3.0   | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.400 | 0.400 | 0.0   | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.964 | 1.967 | -0.2# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.754 | 0.749 | 0.7   | 98    | 0.00     |
| 69 T  | o-Xylene                    | 0.757 | 0.738 | 2.5   | 98    | 0.00     |
| 70 T  | Styrene                     | 1.222 | 1.231 | -0.7  | 99    | 0.00     |
| 71 P  | Bromoform                   | 0.308 | 0.286 | 7.1   | 89    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.864 | 3.834 | 0.8   | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 1.851 | 1.700 | 8.2   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.290 | 1.177 | 8.8   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.148 | 1.007 | 12.3  | 93    | 0.00     |
| 77 T  | Bromobenzene                | 0.927 | 0.888 | 4.2   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.463 | 4.471 | -0.2  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.756 | 2.720 | 1.3   | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.241 | 3.273 | -1.0  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.424 | 0.358 | 15.6  | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.175 | 3.174 | 0.0   | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.268 | 3.154 | 3.5   | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.313 | 3.269 | 1.3   | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.995 | 3.883 | 2.8   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.358 | 3.315 | 1.3   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.817 | 1.731 | 4.7   | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.837 | 1.730 | 5.8   | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.985 | 2.876 | 3.7   | 89    | 0.00     |
| 90 T  | Hexachloroethane            | 0.621 | 0.558 | 10.1  | 84    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.756 | 1.706 | 2.8   | 96    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.293 | 0.267 | 8.9   | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.098 | 1.077 | 1.9   | 92    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.442 | 0.433 | 2.0   | 92    | 0.00     |
| 95 T  | Naphthalene                 | 3.681 | 3.531 | 4.1   | 93    | 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 | 1.073 | 1.041 | 3.0  | 94    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 5