

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031523\  
 Data File : VX034503.D  
 Acq On : 15 Mar 2023 13:04  
 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 16 05:17:11 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   | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.466 | 0.435 | 6.7   | 80    | 0.00     |
| 3 P   | Chloromethane               | 0.839 | 0.606 | 27.8# | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.635 | 0.587 | 7.6#  | 81    | 0.00     |
| 5 T   | Bromomethane                | 0.320 | 0.323 | -0.9  | 82    | 0.00     |
| 6 T   | Chloroethane                | 0.365 | 0.372 | -1.9  | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.954 | 0.975 | -2.2  | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 0.348 | 0.350 | -0.6  | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.556 | 0.523 | 5.9   | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 0.730 | 0.710 | 2.7   | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.151 | 0.120 | 20.5  | 79    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.547 | 0.495 | 9.5#  | 80    | 0.00     |
| 13 T  | Acrolein                    | 0.120 | 0.137 | -14.2 | 111   | 0.00     |
| 14 T  | Allyl chloride              | 1.110 | 0.949 | 14.5  | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 0.327 | 0.302 | 7.6   | 81    | 0.00     |
| 16 T  | Acetone                     | 0.343 | 0.323 | 5.8   | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.540 | 1.219 | 20.8  | 72    | 0.00     |
| 18 T  | Methyl Acetate              | 1.120 | 1.010 | 9.8   | 82    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.960 | 1.794 | 8.5   | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 0.665 | 0.588 | 11.6  | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.581 | 0.539 | 7.2   | 79    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.116 | 1.990 | 6.0   | 81    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.610 | 1.521 | 5.5   | 80    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.137 | 1.042 | 8.4   | 80    | 0.00     |
| 25 T  | 2-Butanone                  | 0.490 | 0.460 | 6.1   | 82    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.989 | 0.894 | 9.6   | 79    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.700 | 0.639 | 8.7   | 80    | 0.00     |
| 28 T  | Bromochloromethane          | 0.529 | 0.505 | 4.5   | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.303 | 0.280 | 7.6   | 81    | 0.00     |
| 30 C  | Chloroform                  | 1.115 | 1.078 | 3.3#  | 82    | 0.00     |
| 31 T  | Cyclohexane                 | 1.020 | 0.938 | 8.0   | 78    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.987 | 0.932 | 5.6   | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.727 | 0.700 | 3.7   | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.330 | 0.330 | 0.0   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.507 | 0.481 | 5.1   | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.554 | 0.515 | 7.0   | 80    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.504 | 0.480 | 4.8   | 79    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.607 | 0.590 | 2.8   | 78    | 0.00     |
| 40 TM | Benzene                     | 1.483 | 1.408 | 5.1   | 81    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.304 | 0.289 | 4.9   | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.545 | 0.541 | 0.7   | 84    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.938 | 0.888 | 5.3   | 80    | 0.00     |
| 44 TM | Trichloroethene             | 0.385 | 0.357 | 7.3   | 79    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.387 | 0.373 | 3.6#  | 81    | 0.00     |
| 46 T  | Dibromomethane              | 0.263 | 0.256 | 2.7   | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.510 | 0.504 | 1.2   | 82    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.451 | 0.434 | 3.8   | 80    | 0.00     |

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

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 16 05:17:11 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) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0  | 82    | 0.00     |
| 50 S  | Toluene-d8                  | 1.232 | 1.252 | -1.6 | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.544 | 0.539 | 0.9  | 83    | 0.00     |
| 52 CM | Toluene                     | 0.918 | 0.908 | 1.1# | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.574 | 0.566 | 1.4  | 79    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.621 | 0.599 | 3.5  | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.364 | 0.367 | -0.8 | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.598 | 0.593 | 0.8  | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.648 | 0.638 | 1.5  | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.308 | 0.292 | 5.2  | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.421 | 0.423 | -0.5 | 84    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.382 | 0.384 | -0.5 | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.393 | 0.389 | 1.0  | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.498 | 0.514 | -3.2 | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.336 | 0.325 | 3.3  | 81    | 0.00     |
| 65 PM | Chlorobenzene               | 1.097 | 1.056 | 3.7  | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.400 | 0.394 | 1.5  | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.964 | 1.964 | 0.0  | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.754 | 0.739 | 2.0  | 83    | 0.00     |
| 69 T  | o-Xylene                    | 0.757 | 0.731 | 3.4  | 83    | 0.00     |
| 70 T  | Styrene                     | 1.222 | 1.229 | -0.6 | 85    | 0.00     |
| 71 P  | Bromoform                   | 0.308 | 0.297 | 3.6  | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.864 | 3.663 | 5.2  | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 1.851 | 1.760 | 4.9  | 85    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.290 | 1.211 | 6.1  | 85    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.148 | 1.008 | 12.2 | 84    | 0.00     |
| 77 T  | Bromobenzene                | 0.927 | 0.859 | 7.3  | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 4.463 | 4.370 | 2.1  | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.756 | 2.650 | 3.8  | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.241 | 3.147 | 2.9  | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.424 | 0.365 | 13.9 | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.175 | 3.078 | 3.1  | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.268 | 3.089 | 5.5  | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.313 | 3.178 | 4.1  | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.995 | 3.930 | 1.6  | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.358 | 3.307 | 1.5  | 84    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.817 | 1.705 | 6.2  | 84    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.837 | 1.711 | 6.9  | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.985 | 3.008 | -0.8 | 84    | 0.00     |
| 90 T  | Hexachloroethane            | 0.621 | 0.581 | 6.4  | 79    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.756 | 1.659 | 5.5  | 85    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.293 | 0.264 | 9.9  | 78    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.098 | 1.034 | 5.8  | 79    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.442 | 0.427 | 3.4  | 82    | 0.00     |
| 95 T  | Naphthalene                 | 3.681 | 3.423 | 7.0  | 81    | 0.00     |

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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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.073 | 1.028 | 4.2  | 83    | 0.00     |

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