

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012323\  
 Data File : VX033860.D  
 Acq On : 23 Jan 2023 19:25  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 24 00:47:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011123W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 11 14:48:42 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   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.395 | 0.349 | 11.6  | 87    | 0.00     |
| 3 P   | Chloromethane               | 0.443 | 0.420 | 5.2   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.424 | 0.418 | 1.4#  | 86    | 0.00     |
| 5 T   | Bromomethane                | 0.243 | 0.254 | -4.5  | 110   | 0.00     |
| 6 T   | Chloroethane                | 0.262 | 0.205 | 21.8  | 77    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.687 | 0.621 | 9.6   | 89    | 0.00     |
| 8 T   | Diethyl Ether               | 0.225 | 0.254 | -12.9 | 124   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.432 | 0.385 | 10.9  | 125   | 0.00     |
| 10 T  | Methyl Iodide               | 0.555 | 0.552 | 0.5   | 127   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.091 | 0.083 | 8.8   | 94    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.407 | 0.381 | 6.4#  | 129   | 0.00     |
| 13 T  | Acrolein                    | 0.084 | 0.065 | 22.6  | 96    | 0.00     |
| 14 T  | Allyl chloride              | 0.767 | 0.684 | 10.8  | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 0.241 | 0.221 | 8.3   | 90    | 0.00     |
| 16 T  | Acetone                     | 0.232 | 0.178 | 23.3  | 107   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.066 | 0.938 | 12.0  | 120   | 0.00     |
| 18 T  | Methyl Acetate              | 0.735 | 0.684 | 6.9   | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.413 | 1.319 | 6.7   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.512 | 0.461 | 10.0  | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.476 | 0.415 | 12.8  | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.544 | 1.373 | 11.1  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.162 | 1.065 | 8.3   | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.845 | 0.747 | 11.6  | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.344 | 0.293 | 14.8  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.605 | 0.499 | 17.5  | 82    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.547 | 0.498 | 9.0   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.385 | 0.362 | 6.0   | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.217 | 0.194 | 10.6  | 89    | 0.00     |
| 30 C  | Chloroform                  | 0.865 | 0.765 | 11.6# | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 0.775 | 0.656 | 15.4  | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.739 | 0.669 | 9.5   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.526 | 0.487 | 7.4   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.310 | 0.317 | -2.3  | 105   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.383 | 15.5  | 84    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.496 | 0.413 | 16.7  | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.469 | 0.432 | 7.9   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.560 | 0.467 | 16.6  | 83    | 0.00     |
| 40 TM | Benzene                     | 1.321 | 1.189 | 10.0  | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.250 | 0.240 | 4.0   | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.468 | 0.405 | 13.5  | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.715 | 0.660 | 7.7   | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.369 | 0.352 | 4.6   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.331 | 0.303 | 8.5#  | 90    | 0.00     |
| 46 T  | Dibromomethane              | 0.231 | 0.214 | 7.4   | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.445 | 0.422 | 5.2   | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.360 | 0.340 | 5.6   | 89    | 0.00     |

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 ALS Vial : 26 Sample Multiplier: 1

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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Wed Jan 11 14:48:42 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                 | 0.008 | 0.007 | 12.5 | 89    | -0.02    |
| 50 S  | Toluene-d8                  | 1.131 | 1.116 | 1.3  | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.439 | 0.407 | 7.3  | 88    | 0.00     |
| 52 CM | Toluene                     | 0.853 | 0.774 | 9.3# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.445 | 0.436 | 2.0  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.499 | 0.483 | 3.2  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.338 | 0.317 | 6.2  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.475 | 0.475 | 0.0  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.547 | 0.518 | 5.3  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.234 | 0.230 | 1.7  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.306 | 0.296 | 3.3  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.350 | 0.368 | -5.1 | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.337 | 0.334 | 0.9  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.420 | 0.411 | 2.1  | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.381 | 0.354 | 7.1  | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 1.035 | 0.965 | 6.8  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.381 | 0.382 | -0.3 | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.777 | 1.650 | 7.1# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.695 | 0.655 | 5.8  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 0.689 | 0.646 | 6.2  | 87    | 0.00     |
| 70 T  | Styrene                     | 1.121 | 1.079 | 3.7  | 87    | 0.00     |
| 71 P  | Bromoform                   | 0.319 | 0.338 | -6.0 | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.645 | 3.159 | 13.3 | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 1.313 | 1.223 | 6.9  | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.097 | 0.964 | 12.1 | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.919 | 0.886 | 3.6  | 102   | 0.00     |
| 77 T  | Bromobenzene                | 0.986 | 0.861 | 12.7 | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 4.080 | 3.527 | 13.6 | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.483 | 2.089 | 15.9 | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.009 | 2.640 | 12.3 | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.296 | 0.294 | 0.7  | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.818 | 2.395 | 15.0 | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.987 | 2.720 | 8.9  | 86    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.846 | 2.644 | 7.1  | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.573 | 3.280 | 8.2  | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.059 | 2.838 | 7.2  | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.689 | 1.553 | 8.1  | 87    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.721 | 1.565 | 9.1  | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.503 | 2.243 | 10.4 | 82    | 0.00     |
| 90 T  | Hexachloroethane            | 0.503 | 0.508 | -1.0 | 91    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.630 | 1.535 | 5.8  | 89    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.204 | 0.200 | 2.0  | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.098 | 1.071 | 2.5  | 87    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.538 | 0.488 | 9.3  | 85    | 0.00     |
| 95 T  | Naphthalene                 | 3.159 | 3.130 | 0.9  | 89    | 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 | 1.099 | 1.055 | 4.0  | 88    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6