

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021023\  
 Data File : VX034073.D  
 Acq On : 08 Feb 2023 10:11  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 08 13:19:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020423W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 03 23:25:45 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     | 0.406 | 0.394 | 3.0   | 91    | 0.00     |
| 3 P   | Chloromethane               | 0.384 | 0.336 | 12.5  | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.402 | 0.342 | 14.9# | 83    | 0.00     |
| 5 T   | Bromomethane                | 0.207 | 0.177 | 14.5  | 86    | 0.00     |
| 6 T   | Chloroethane                | 0.222 | 0.200 | 9.9   | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.639 | 0.590 | 7.7   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.220 | 0.189 | 14.1  | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.427 | 0.389 | 8.9   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 0.605 | 0.476 | 21.3  | 74    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.068 | 0.063 | 7.4   | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.409 | 0.356 | 13.0# | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.091 | 0.078 | 14.3  | 85    | 0.00     |
| 14 T  | Allyl chloride              | 0.667 | 0.592 | 11.2  | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 0.217 | 0.192 | 11.5  | 87    | 0.00     |
| 16 T  | Acetone                     | 0.204 | 0.204 | 0.0   | 105   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.039 | 0.905 | 12.9  | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 0.633 | 0.569 | 10.1  | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.262 | 1.158 | 8.2   | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 0.466 | 0.402 | 13.7  | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.446 | 0.396 | 11.2  | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.317 | 1.162 | 11.8  | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.003 | 0.894 | 10.9  | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.759 | 0.689 | 9.2   | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.296 | 0.268 | 9.5   | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.554 | 0.518 | 6.5   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.513 | 0.457 | 10.9  | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.334 | 0.318 | 4.8   | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.189 | 0.164 | 13.2  | 86    | 0.00     |
| 30 C  | Chloroform                  | 0.791 | 0.725 | 8.3#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 0.702 | 0.612 | 12.8  | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.681 | 0.641 | 5.9   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.482 | 0.486 | -0.8  | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.318 | 0.321 | -0.9  | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.436 | 0.399 | 8.5   | 87    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.406 | 0.361 | 11.1  | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.465 | 0.445 | 4.3   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.549 | 0.504 | 8.2   | 87    | 0.00     |
| 40 TM | Benzene                     | 1.262 | 1.158 | 8.2   | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.229 | 0.214 | 6.6   | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.429 | 0.419 | 2.3   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.634 | 0.587 | 7.4   | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.388 | 0.358 | 7.7   | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.312 | 0.290 | 7.1#  | 88    | 0.00     |
| 46 T  | Dibromomethane              | 0.223 | 0.216 | 3.1   | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.423 | 0.415 | 1.9   | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.327 | 0.309 | 5.5   | 87    | 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.007 | -16.7 | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 1.147 | 1.143 | 0.3   | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.398 | 0.369 | 7.3   | 86    | 0.00     |
| 52 CM | Toluene                     | 0.818 | 0.763 | 6.7#  | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.425 | 0.423 | 0.5   | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.484 | 0.471 | 2.7   | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.327 | 0.306 | 6.4   | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.456 | 0.440 | 3.5   | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.534 | 0.504 | 5.6   | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.212 | 0.199 | 6.1   | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.291 | 0.279 | 4.1   | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.362 | 0.358 | 1.1   | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.351 | 0.334 | 4.8   | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.409 | 0.429 | -4.9  | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.417 | 0.378 | 9.4   | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 1.033 | 0.955 | 7.6   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.390 | 0.376 | 3.6   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.748 | 1.636 | 6.4#  | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.699 | 0.649 | 7.2   | 89    | 0.00     |
| 69 T  | o-Xylene                    | 0.671 | 0.634 | 5.5   | 90    | 0.00     |
| 70 T  | Styrene                     | 1.105 | 1.066 | 3.5   | 91    | 0.00     |
| 71 P  | Bromoform                   | 0.318 | 0.321 | -0.9  | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.342 | 3.034 | 9.2   | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 1.101 | 1.012 | 8.1   | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.005 | 0.878 | 12.6  | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.859 | 0.721 | 16.1  | 91    | 0.00     |
| 77 T  | Bromobenzene                | 0.927 | 0.840 | 9.4   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 3.695 | 3.394 | 8.1   | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.237 | 2.004 | 10.4  | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.781 | 2.573 | 7.5   | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.279 | 0.253 | 9.3   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.530 | 2.312 | 8.6   | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.874 | 2.626 | 8.6   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.779 | 2.549 | 8.3   | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.438 | 3.188 | 7.3   | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.015 | 2.816 | 6.6   | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.700 | 1.537 | 9.6   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.726 | 1.562 | 9.5   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.364 | 2.240 | 5.2   | 92    | 0.00     |
| 90 T  | Hexachloroethane            | 0.475 | 0.456 | 4.0   | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.658 | 1.490 | 10.1  | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.198 | 0.187 | 5.6   | 92    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.172 | 1.137 | 3.0   | 96    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.580 | 0.534 | 7.9   | 97    | 0.00     |
| 95 T  | Naphthalene                 | 3.219 | 3.029 | 5.9   | 91    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.177 | 1.093 | 7.1  | 94    | 0.00     |

(#) = Out of Range

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