

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100621\  
 Data File : VX024611.D  
 Acq On : 06 Oct 2021 10:44  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 06 15:20:38 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X092321W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 23 18:24:34 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   | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.503 | 0.462 | 8.2   | 89    | 0.00     |
| 3 P   | Chloromethane               | 0.474 | 0.462 | 2.5   | 98    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.496 | 0.472 | 4.8#  | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.334 | 0.358 | -7.2  | 106   | 0.00     |
| 6 T   | Chloroethane                | 0.378 | 0.271 | 28.3# | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.875 | 0.725 | 17.1  | 83    | 0.00     |
| 8 T   | Diethyl Ether               | 0.298 | 0.292 | 2.0   | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.494 | 0.501 | -1.4  | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 0.691 | 0.590 | 14.6  | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.178 | 0.144 | 19.1  | 87    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.458 | 0.455 | 0.7#  | 102   | 0.00     |
| 13 T  | Acrolein                    | 0.038 | 0.035 | 7.9   | 92    | 0.00     |
| 14 T  | Allyl chloride              | 0.838 | 0.891 | -6.3  | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 0.320 | 0.346 | -8.1  | 111   | 0.00     |
| 16 T  | Acetone                     | 0.329 | 0.358 | -8.8  | 116   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.230 | 1.044 | 15.1  | 93    | 0.00     |
| 18 T  | Methyl Acetate              | 1.055 | 1.102 | -4.5  | 109   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.727 | 1.949 | -12.9 | 116   | 0.00     |
| 20 T  | Methylene Chloride          | 0.599 | 0.595 | 0.7   | 116   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.520 | 0.525 | -1.0  | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.712 | 1.864 | -8.9  | 111   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.386 | 1.525 | -10.0 | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.951 | 1.013 | -6.5  | 108   | 0.00     |
| 25 T  | 2-Butanone                  | 0.485 | 0.484 | 0.2   | 99    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.855 | 0.800 | 6.4   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.608 | 0.566 | 6.9   | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.432 | 0.413 | 4.4   | 107   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.309 | 0.298 | 3.6   | 95    | -0.01    |
| 30 C  | Chloroform                  | 1.050 | 1.062 | -1.1# | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 0.844 | 0.756 | 10.4  | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.932 | 0.900 | 3.4   | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.705 | 0.690 | 2.1   | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.332 | 0.338 | -1.8  | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.479 | 0.449 | 6.3   | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.598 | 0.566 | 5.4   | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.522 | 0.500 | 4.2   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.561 | 0.493 | 12.1  | 86    | 0.00     |
| 40 TM | Benzene                     | 1.371 | 1.359 | 0.9   | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.309 | 0.310 | -0.3  | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.576 | 0.577 | -0.2  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.910 | 0.920 | -1.1  | 104   | 0.00     |
| 44 TM | Trichloroethene             | 0.377 | 0.358 | 5.0   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.354 | 0.336 | 5.1#  | 97    | 0.00     |
| 46 T  | Dibromomethane              | 0.265 | 0.254 | 4.2   | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.486 | 0.476 | 2.1   | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.451 | 0.429 | 4.9   | 95    | 0.00     |

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 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 | 0.008 | 20.0  | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 1.223 | 1.191 | 2.6   | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.601 | 0.595 | 1.0   | 98    | 0.00     |
| 52 CM | Toluene                     | 0.885 | 0.872 | 1.5#  | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.551 | 0.594 | -7.8  | 106   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.560 | 0.575 | -2.7  | 101   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.366 | 0.399 | -9.0  | 110   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.583 | 0.628 | -7.7  | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.618 | 0.652 | -5.5  | 108   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.288 | 0.292 | -1.4  | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.473 | 0.474 | -0.2  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.371 | 0.410 | -10.5 | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.402 | 0.423 | -5.2  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.481 | 0.499 | -3.7  | 107   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.346 | 0.342 | 1.2   | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 1.042 | 1.017 | 2.4   | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.388 | 0.392 | -1.0  | 105   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.844 | 1.778 | 3.6#  | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.707 | 0.719 | -1.7  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 0.699 | 0.657 | 6.0   | 97    | 0.00     |
| 70 T  | Styrene                     | 1.169 | 1.126 | 3.7   | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.296 | 0.306 | -3.4  | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 110   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.535 | 3.284 | 7.1   | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 1.626 | 1.495 | 8.1   | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.250 | 1.188 | 5.0   | 105   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.135 | 1.117 | 1.6   | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.910 | 0.842 | 7.5   | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 4.132 | 3.944 | 4.5   | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.517 | 2.432 | 3.4   | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.020 | 2.904 | 3.8   | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.382 | 0.386 | -1.0  | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.962 | 2.764 | 6.7   | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.027 | 2.947 | 2.6   | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.002 | 3.016 | -0.5  | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.724 | 3.678 | 1.2   | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.176 | 3.143 | 1.0   | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.732 | 1.678 | 3.1   | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.789 | 1.712 | 4.3   | 108   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.812 | 2.723 | 3.2   | 101   | 0.00     |
| 90 T  | Hexachloroethane            | 0.522 | 0.478 | 8.4   | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.712 | 1.696 | 0.9   | 109   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.302 | 0.267 | 11.6  | 93    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.090 | 1.094 | -0.4  | 109   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.499 | 0.431 | 13.6  | 94    | 0.00     |
| 95 T  | Naphthalene                 | 3.490 | 3.597 | -3.1  | 102   | 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 | 1.117 | 1.078 | 3.5  | 105   | 0.00     |

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