

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031021\  
 Data File : VX021125.D  
 Acq On : 10 Mar 2021 10:24  
 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 11 02:08:20 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 24 13:50:55 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   | 112   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.541 | 0.473 | 12.6  | 96    | 0.00     |
| 3 P   | Chloromethane               | 0.601 | 0.560 | 6.8   | 103   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.692 | 0.650 | 6.1#  | 104   | 0.00     |
| 5 T   | Bromomethane                | 0.249 | 0.231 | 7.2   | 118   | 0.00     |
| 6 T   | Chloroethane                | 0.433 | 0.427 | 1.4   | 109   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.873 | 0.861 | 1.4   | 111   | 0.00     |
| 8 T   | Diethyl Ether               | 0.405 | 0.399 | 1.5   | 112   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.538 | 0.515 | 4.3   | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 0.723 | 0.703 | 2.8   | 102   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.150 | 0.118 | 21.3  | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.560 | 0.519 | 7.3#  | 103   | 0.00     |
| 13 T  | Acrolein                    | 0.093 | 0.090 | 3.2   | 111   | 0.00     |
| 14 T  | Allyl chloride              | 0.914 | 0.833 | 8.9   | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 0.321 | 0.300 | 6.5   | 103   | 0.00     |
| 16 T  | Acetone                     | 0.278 | 0.259 | 6.8   | 109   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.594 | 1.381 | 13.4  | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 0.658 | 0.623 | 5.3   | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.999 | 1.924 | 3.8   | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 0.668 | 0.643 | 3.7   | 112   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.629 | 0.578 | 8.1   | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.839 | 1.789 | 2.7   | 108   | -0.01    |
| 23 T  | Vinyl Acetate               | 1.572 | 1.480 | 5.9   | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.083 | 1.066 | 1.6   | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 0.423 | 0.392 | 7.3   | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.984 | 0.882 | 10.4  | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.724 | 0.697 | 3.7   | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 0.463 | 0.459 | 0.9   | 112   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.271 | 0.241 | 11.1  | 99    | 0.00     |
| 30 C  | Chloroform                  | 1.091 | 1.082 | 0.8#  | 110   | 0.00     |
| 31 T  | Cyclohexane                 | 0.978 | 0.901 | 7.9   | 102   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.950 | 0.905 | 4.7   | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.675 | 0.636 | 5.8   | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.304 | 0.310 | -2.0  | 107   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.475 | 0.484 | -1.9  | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.452 | 0.435 | 3.8   | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.460 | 0.456 | 0.9   | 107   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.596 | 0.590 | 1.0   | 106   | 0.00     |
| 40 TM | Benzene                     | 1.424 | 1.453 | -2.0  | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.254 | 0.247 | 2.8   | 101   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.474 | 0.507 | -7.0  | 111   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.769 | 0.735 | 4.4   | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.375 | 0.401 | -6.9  | 112   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.357 | 0.380 | -6.4# | 111   | 0.00     |
| 46 T  | Dibromomethane              | 0.240 | 0.257 | -7.1  | 112   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.501 | 0.531 | -6.0  | 111   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.386 | 0.387 | -0.3  | 104   | 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

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 Quant Title : SW846 8260  
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 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   | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 1.185 | 1.204 | -1.6  | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.448 | 0.454 | -1.3  | 104   | 0.00     |
| 52 CM | Toluene                     | 0.887 | 0.952 | -7.3# | 112   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.561 | 0.592 | -5.5  | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.615 | 0.644 | -4.7  | 109   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.351 | 0.388 | -10.5 | 115   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.567 | 0.579 | -2.1  | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.601 | 0.650 | -8.2  | 112   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.277 | 0.300 | -8.3  | 108   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.336 | 0.340 | -1.2  | 104   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.370 | 0.424 | -14.6 | 115   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.367 | 0.403 | -9.8  | 115   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.438 | 0.453 | -3.4  | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 112   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.361 | 0.424 | -17.5 | 130   | 0.00     |
| 65 PM | Chlorobenzene               | 1.053 | 1.124 | -6.7  | 116   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.388 | 0.394 | -1.5  | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.909 | 1.967 | -3.0# | 113   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.703 | 0.756 | -7.5  | 118   | 0.00     |
| 69 T  | o-Xylene                    | 0.686 | 0.735 | -7.1  | 115   | 0.00     |
| 70 T  | Styrene                     | 1.176 | 1.275 | -8.4  | 117   | 0.00     |
| 71 P  | Bromoform                   | 0.300 | 0.325 | -8.3  | 120   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 120   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.949 | 3.801 | 3.7   | 117   | 0.00     |
| 74 T  | N-amyl acetate              | 1.599 | 1.386 | 13.3  | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.273 | 1.184 | 7.0   | 111   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.076 | 1.017 | 5.5   | 111   | 0.00     |
| 77 T  | Bromobenzene                | 0.919 | 0.935 | -1.7  | 120   | 0.00     |
| 78 T  | n-propylbenzene             | 4.504 | 4.455 | 1.1   | 117   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.729 | 2.594 | 4.9   | 115   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.286 | 3.267 | 0.6   | 117   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.486 | 0.413 | 15.0  | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.145 | 3.061 | 2.7   | 116   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.197 | 3.016 | 5.7   | 115   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.336 | 3.243 | 2.8   | 115   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.768 | 3.732 | 1.0   | 116   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.453 | 3.545 | -2.7  | 122   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.645 | 1.721 | -4.6  | 126   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.676 | 1.740 | -3.8  | 125   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.083 | 3.049 | 1.1   | 117   | 0.00     |
| 90 T  | Hexachloroethane            | 0.659 | 0.609 | 7.6   | 109   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.606 | 1.639 | -2.1  | 117   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.292 | 0.255 | 12.7  | 104   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.030 | 1.121 | -8.8  | 126   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.413 | 0.430 | -4.1  | 125   | 0.00     |
| 95 T  | Naphthalene                 | 3.667 | 3.571 | 2.6   | 110   | 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 | 1.023 | 1.067 | -4.3 | 121   | 0.00     |

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