

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\WX123020\  
 Data File : VX020447.D  
 Acq On : 30 Dec 2020 11:42  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 31 01:03:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 18 13:09:49 2020  
 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   | 118   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.543 | 0.492 | 9.4   | 114   | 0.00     |
| 3 P   | Chloromethane               | 0.630 | 0.563 | 10.6  | 107   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.686 | 0.610 | 11.1# | 112   | 0.00     |
| 5 T   | Bromomethane                | 0.220 | 0.171 | 22.3  | 97    | 0.00     |
| 6 T   | Chloroethane                | 0.427 | 0.369 | 13.6  | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.882 | 0.766 | 13.2  | 112   | 0.00     |
| 8 T   | Diethyl Ether               | 0.384 | 0.324 | 15.6  | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.499 | 0.484 | 3.0   | 126   | 0.00     |
| 10 T  | Methyl Iodide               | 0.622 | 0.578 | 7.1   | 104   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.150 | 0.130 | 13.3  | 106   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.511 | 0.472 | 7.6#  | 117   | 0.00     |
| 13 T  | Acrolein                    | 0.094 | 0.084 | 10.6  | 105   | 0.00     |
| 14 T  | Allyl chloride              | 0.906 | 0.822 | 9.3   | 106   | 0.00     |
| 15 T  | Acrylonitrile               | 0.345 | 0.330 | 4.3   | 106   | 0.00     |
| 16 T  | Acetone                     | 0.306 | 0.297 | 2.9   | 114   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.509 | 1.248 | 17.3  | 105   | 0.00     |
| 18 T  | Methyl Acetate              | 0.682 | 0.690 | -1.2  | 114   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.912 | 1.715 | 10.3  | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 0.689 | 0.606 | 12.0  | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.620 | 0.531 | 14.4  | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.850 | 1.726 | 6.7   | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.577 | 1.462 | 7.3   | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.090 | 0.984 | 9.7   | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.445 | 0.444 | 0.2   | 111   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.899 | 0.820 | 8.8   | 109   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.699 | 0.622 | 11.0  | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 0.485 | 0.448 | 7.6   | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.280 | 0.263 | 6.1   | 103   | 0.00     |
| 30 C  | Chloroform                  | 1.109 | 0.986 | 11.1# | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 0.924 | 0.837 | 9.4   | 115   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.925 | 0.841 | 9.1   | 110   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.670 | 0.604 | 9.9   | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.316 | 1.3   | 107   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.494 | 0.454 | 8.1   | 110   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.514 | 0.510 | 0.8   | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.470 | 0.453 | 3.6   | 113   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.570 | 0.556 | 2.5   | 120   | 0.00     |
| 40 TM | Benzene                     | 1.538 | 1.442 | 6.2   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.274 | 0.270 | 1.5   | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.528 | 0.476 | 9.8   | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.811 | 0.769 | 5.2   | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.398 | 0.377 | 5.3   | 109   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.389 | 0.385 | 1.0#  | 105   | 0.00     |
| 46 T  | Dibromomethane              | 0.266 | 0.242 | 9.0   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.507 | 0.483 | 4.7   | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.397 | 0.372 | 6.3   | 95    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 102   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 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) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 50 S  | Toluene-d8                  | 1.231 | 1.240 | -0.7 | 111   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.502 | 0.508 | -1.2 | 104   | 0.00     |
| 52 CM | Toluene                     | 0.939 | 0.916 | 2.4# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.558 | 0.544 | 2.5  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.612 | 0.598 | 2.3  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.387 | 0.385 | 0.5  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.567 | 0.571 | -0.7 | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.659 | 0.646 | 2.0  | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.300 | 0.276 | 8.0  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.382 | 0.409 | -7.1 | 110   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.384 | 0.397 | -3.4 | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.404 | 0.395 | 2.2  | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.471 | 0.470 | 0.2  | 110   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.377 | 0.383 | -1.6 | 120   | 0.00     |
| 65 PM | Chlorobenzene               | 1.073 | 1.009 | 6.0  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.385 | 0.375 | 2.6  | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.875 | 1.800 | 4.0# | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.700 | 0.679 | 3.0  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 0.674 | 0.653 | 3.1  | 101   | 0.00     |
| 70 T  | Styrene                     | 1.139 | 1.136 | 0.3  | 101   | 0.00     |
| 71 P  | Bromoform                   | 0.298 | 0.306 | -2.7 | 107   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 112   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.609 | 3.320 | 8.0  | 108   | 0.00     |
| 74 T  | N-aryl acetate              | 1.455 | 1.284 | 11.8 | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.310 | 1.172 | 10.5 | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.232 | 1.107 | 10.1 | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.954 | 0.845 | 11.4 | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 4.159 | 3.937 | 5.3  | 111   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.593 | 2.354 | 9.2  | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.059 | 2.909 | 4.9  | 108   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.415 | 0.391 | 5.8  | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.029 | 2.779 | 8.3  | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.935 | 2.739 | 6.7  | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.105 | 2.977 | 4.1  | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.387 | 3.381 | 0.2  | 121   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.124 | 3.103 | 0.7  | 116   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.705 | 1.593 | 6.6  | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.779 | 1.613 | 9.3  | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.737 | 2.759 | -0.8 | 120   | 0.00     |
| 90 T  | Hexachloroethane            | 0.539 | 0.527 | 2.2  | 118   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.697 | 1.569 | 7.5  | 107   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.275 | 0.264 | 4.0  | 105   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.091 | 1.056 | 3.2  | 113   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.484 | 0.497 | -2.7 | 147   | 0.00     |
| 95 T  | Naphthalene                 | 3.456 | 3.456 | 0.0  | 107   | 0.00     |
| 96 T  | 1,2,3-Trichlorobenzene      | 1.080 | 1.046 | 3.1  | 113   | 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) |
|----------|-------|------|------------|----------|
|----------|-------|------|------------|----------|

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