

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060823\  
 Data File : VN078131.D  
 Acq On : 08 Jun 2023 16:52  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 09 01:28:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 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    | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.565 | 0.529 | 6.4    | 95    | 0.00     |
| 3 P   | Chloromethane               | 0.611 | 0.584 | 4.4    | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.740 | 0.751 | -1.5#  | 101   | 0.00     |
| 5 T   | Bromomethane                | 0.559 | 0.537 | 3.9    | 95    | 0.00     |
| 6 T   | Chloroethane                | 0.505 | 0.520 | -3.0   | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.004 | 1.035 | -3.1   | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 0.353 | 0.356 | -0.8   | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.530 | 0.573 | -8.1   | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 0.749 | 0.798 | -6.5   | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.092 | 0.081 | 12.0   | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.546 | 0.560 | -2.6#  | 101   | 0.00     |
| 13 T  | Acrolein                    | 0.101 | 0.101 | 0.0    | 98    | 0.00     |
| 14 T  | Allyl chloride              | 0.667 | 0.731 | -9.6   | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 0.237 | 0.256 | -8.0   | 100   | 0.00     |
| 16 T  | Acetone                     | 0.192 | 0.200 | -4.2   | 105   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.405 | 1.449 | -3.1   | 102   | 0.00     |
| 18 T  | Methyl Acetate              | 0.883 | 0.910 | -3.1   | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.742 | 1.890 | -8.5   | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 0.634 | 0.649 | -2.4   | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.589 | 0.620 | -5.3   | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.568 | 1.800 | -14.8  | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.932 | 1.065 | -14.3  | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.034 | 1.136 | -9.9   | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.295 | 0.321 | -8.8   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.764 | 0.971 | -27.1# | 116   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.702 | 0.722 | -2.8   | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 0.475 | 0.533 | -12.2  | 105   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.197 | 0.210 | -6.6   | 98    | 0.00     |
| 30 C  | Chloroform                  | 1.114 | 1.237 | -11.0# | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 0.855 | 0.895 | -4.7   | 104   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.978 | 1.096 | -12.1  | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.667 | 0.693 | -3.9   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.316 | 0.327 | -3.5   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.511 | -12.8  | 105   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.354 | 0.389 | -9.9   | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.479 | 0.546 | -14.0  | 106   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.470 | 0.507 | -7.9   | 102   | 0.00     |
| 40 TM | Benzene                     | 1.354 | 1.504 | -11.1  | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.192 | 0.213 | -10.9  | 109   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.464 | 0.528 | -13.8  | 108   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.677 | 0.696 | -2.8   | 103   | 0.00     |
| 44 TM | Trichloroethene             | 0.358 | 0.387 | -8.1   | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.337 | 0.384 | -13.9# | 107   | 0.00     |
| 46 T  | Dibromomethane              | 0.248 | 0.271 | -9.3   | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.461 | 0.541 | -17.4  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.284 | 0.323 | -13.7  | 104   | 0.00     |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 09 01:28:07 2023  
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 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 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                 | 0.006 | 0.006 | 0.0    | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.219 | 1.275 | -4.6   | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.357 | 0.396 | -10.9  | 101   | 0.00     |
| 52 CM | Toluene                     | 0.855 | 0.960 | -12.3# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.480 | 0.575 | -19.8  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.531 | 0.621 | -16.9  | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.323 | 0.373 | -15.5  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.471 | 0.546 | -15.9  | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.546 | 0.630 | -15.4  | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.190 | 0.237 | -24.7  | 110   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.248 | 0.277 | -11.7  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.354 | 0.405 | -14.4  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.339 | 0.377 | -11.2  | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.379 | 0.417 | -10.0  | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.334 | 0.345 | -3.3   | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 1.071 | 1.144 | -6.8   | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.394 | 0.428 | -8.6   | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.848 | 2.064 | -11.7# | 106   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.704 | 0.787 | -11.8  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.691 | 0.778 | -12.6  | 105   | 0.00     |
| 70 T  | Styrene                     | 1.089 | 1.259 | -15.6  | 104   | 0.00     |
| 71 P  | Bromoform                   | 0.254 | 0.288 | -13.4  | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.728 | 4.638 | 1.9    | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 1.557 | 1.508 | 3.1    | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.500 | 1.387 | 7.5    | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.182 | 1.100 | 6.9    | 102   | 0.00     |
| 77 T  | Bromobenzene                | 1.098 | 1.062 | 3.3    | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 5.137 | 5.284 | -2.9   | 109   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.316 | 3.197 | 3.6    | 108   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.828 | 3.766 | 1.6    | 108   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.385 | 0.416 | -8.1   | 111   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.095 | 3.126 | -1.0   | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.328 | 3.183 | 4.4    | 105   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.711 | 3.760 | -1.3   | 108   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.355 | 4.244 | 2.5    | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.534 | 3.462 | 2.0    | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.857 | 1.859 | -0.1   | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.791 | 1.789 | 0.1    | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.788 | 2.802 | -0.5   | 106   | 0.00     |
| 90 T  | Hexachloroethane            | 0.627 | 0.616 | 1.8    | 103   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.814 | 1.791 | 1.3    | 103   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.234 | 0.229 | 2.1    | 101   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.646 | 0.705 | -9.1   | 101   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.376 | 0.338 | 10.1   | 106   | 0.00     |
| 95 T  | Naphthalene                 | 2.175 | 2.256 | -3.7   | 97    | 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 | 0.723 | 0.726 | -0.4 | 101   | 0.00     |

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