

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110323\  
 Data File : VN079864.D  
 Acq On : 03 Nov 2023 21:38  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 04 04:34:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 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     | 0.602 | 0.622 | -3.3   | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.837 | 0.721 | 13.9   | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.788 | 0.774 | 1.8#   | 91    | 0.00     |
| 5 T   | Bromomethane                | 0.479 | 0.491 | -2.5   | 101   | -0.01    |
| 6 T   | Chloroethane                | 0.623 | 0.579 | 7.1    | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.981 | 0.972 | 0.9    | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 0.372 | 0.377 | -1.3   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.568 | 0.563 | 0.9    | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.649 | 0.633 | 2.5    | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.097 | 0.089 | 8.2    | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.538 | 0.540 | -0.4#  | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.080 | 0.091 | -13.7  | 110   | 0.00     |
| 14 T  | Allyl chloride              | 0.824 | 0.878 | -6.6   | 101   | 0.00     |
| 15 T  | Acrylonitrile               | 0.303 | 0.332 | -9.6   | 104   | 0.00     |
| 16 T  | Acetone                     | 0.268 | 0.269 | -0.4   | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.552 | 1.486 | 4.3    | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 1.280 | 1.364 | -6.6   | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.853 | 1.974 | -6.5   | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 0.675 | 0.675 | 0.0    | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.600 | 0.611 | -1.8   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.910 | 2.228 | -16.6  | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.054 | 1.192 | -13.1  | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.161 | 1.295 | -11.5  | 105   | 0.00     |
| 25 T  | 2-Butanone                  | 0.392 | 0.442 | -12.8  | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.960 | 0.918 | 4.4    | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.718 | 0.748 | -4.2   | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 0.566 | 0.644 | -13.8  | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.255 | 0.295 | -15.7  | 106   | 0.00     |
| 30 C  | Chloroform                  | 1.261 | 1.321 | -4.8#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 1.007 | 1.023 | -1.6   | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.028 | 1.111 | -8.1   | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.762 | 0.884 | -16.0  | 107   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.354 | 0.398 | -12.4  | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.505 | 0.560 | -10.9  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.463 | 0.538 | -16.2  | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.509 | 0.559 | -9.8   | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.476 | 0.521 | -9.5   | 96    | 0.00     |
| 40 TM | Benzene                     | 1.513 | 1.662 | -9.8   | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.246 | 0.296 | -20.3  | 109   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.529 | 0.622 | -17.6  | 110   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.813 | 0.880 | -8.2   | 101   | 0.00     |
| 44 TM | Trichloroethene             | 0.376 | 0.402 | -6.9   | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.387 | 0.448 | -15.8# | 106   | 0.00     |
| 46 T  | Dibromomethane              | 0.264 | 0.297 | -12.5  | 105   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.563 | 0.616 | -9.4   | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.356 | 0.432 | -21.3  | 104   | 0.00     |

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 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 04 04:34:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 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 | 0.007 | -16.7  | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 1.303 | 1.474 | -13.1  | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.458 | 0.553 | -20.7  | 107   | 0.00     |
| 52 CM | Toluene                     | 0.897 | 1.034 | -15.3# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.552 | 0.631 | -14.3  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.602 | 0.677 | -12.5  | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.361 | 0.400 | -10.8  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.515 | 0.612 | -18.8  | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.636 | 0.725 | -14.0  | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.261 | 0.291 | -11.5  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.350 | 0.401 | -14.6  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.386 | 0.429 | -11.1  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.362 | 0.400 | -10.5  | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.432 | 0.518 | -19.9  | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.324 | 0.380 | -17.3  | 111   | 0.00     |
| 65 PM | Chlorobenzene               | 1.085 | 1.142 | -5.3   | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.391 | 0.431 | -10.2  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.890 | 2.119 | -12.1# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.704 | 0.783 | -11.2  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 0.678 | 0.762 | -12.4  | 100   | 0.00     |
| 70 T  | Styrene                     | 1.089 | 1.283 | -17.8  | 99    | 0.00     |
| 71 P  | Bromoform                   | 0.277 | 0.312 | -12.6  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.795 | 4.033 | -6.3   | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 1.656 | 1.688 | -1.9   | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.345 | 1.331 | 1.0    | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.174 | 1.198 | -2.0   | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.929 | 0.958 | -3.1   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 4.346 | 4.791 | -10.2  | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.776 | 2.939 | -5.9   | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.952 | 3.328 | -12.7  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.431 | 0.401 | 7.0    | 81    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.759 | 2.920 | -5.8   | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.417 | 2.692 | -11.4  | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.905 | 3.341 | -15.0  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.348 | 3.823 | -14.2  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.730 | 3.117 | -14.2  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.728 | 1.770 | -2.4   | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.754 | 1.746 | 0.5    | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.351 | 2.665 | -13.4  | 99    | 0.00     |
| 90 T  | Hexachloroethane            | 0.541 | 0.586 | -8.3   | 109   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.632 | 1.724 | -5.6   | 101   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.228 | 0.236 | -3.5   | 95    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.776 | 0.827 | -6.6   | 97    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.352 | 0.367 | -4.3   | 104   | 0.00     |
| 95 T  | Naphthalene                 | 2.631 | 2.583 | 1.8    | 89    | 0.00     |

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Quant Title : SW846 8260  
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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 | 0.760 | 0.826 | -8.7 | 100   | 0.00     |

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