

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100224\  
 Data File : VN084257.D  
 Acq On : 02 Oct 2024 11:15  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 03 01:55:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 07:11:01 2024  
 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   | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.591 | 0.556 | 5.9   | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.675 | 0.639 | 5.3   | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.654 | 0.628 | 4.0#  | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.431 | 0.390 | 9.5   | 90    | 0.00     |
| 6 T   | Chloroethane                | 0.468 | 0.399 | 14.7  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.019 | 0.977 | 4.1   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.378 | 0.343 | 9.3   | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.584 | 0.557 | 4.6   | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 0.752 | 0.724 | 3.7   | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.122 | 0.105 | 13.9  | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.563 | 0.538 | 4.4#  | 91    | 0.00     |
| 13 T  | Acrolein                    | 0.140 | 0.130 | 7.1   | 91    | 0.00     |
| 14 T  | Allyl chloride              | 0.978 | 0.845 | 13.6  | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 0.309 | 0.303 | 1.9   | 96    | 0.00     |
| 16 T  | Acetone                     | 0.318 | 0.266 | 16.4  | 78    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.782 | 1.580 | 11.3  | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 0.694 | 0.689 | 0.7   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.900 | 1.824 | 4.0   | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 0.647 | 0.627 | 3.1   | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.590 | 0.574 | 2.7   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.022 | 2.024 | -0.1  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.500 | 1.511 | -0.7  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.131 | 1.111 | 1.8   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.434 | 0.401 | 7.6   | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.020 | 0.904 | 11.4  | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.713 | 0.687 | 3.6   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.505 | 0.471 | 6.7   | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.268 | 0.267 | 0.4   | 94    | 0.00     |
| 30 C  | Chloroform                  | 1.175 | 1.161 | 1.2#  | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 1.098 | 0.962 | 12.4  | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.055 | 1.038 | 1.6   | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.741 | 0.754 | -1.8  | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.330 | 0.344 | -4.2  | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.479 | 0.478 | 0.2   | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.491 | 0.488 | 0.6   | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.525 | 0.528 | -0.6  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.533 | 0.518 | 2.8   | 87    | 0.00     |
| 40 TM | Benzene                     | 1.492 | 1.504 | -0.8  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.267 | 0.270 | -1.1  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.506 | 0.504 | 0.4   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.962 | 0.796 | 17.3  | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.348 | 0.342 | 1.7   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.353 | 0.366 | -3.7# | 96    | 0.00     |
| 46 T  | Dibromomethane              | 0.238 | 0.249 | -4.6  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.529 | 0.538 | -1.7  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.383 | 0.391 | -2.1  | 92    | 0.00     |

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 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.007 | 0.0   | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.213 | 1.308 | -7.8  | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.468 | 0.489 | -4.5  | 95    | 0.00     |
| 52 CM | Toluene                     | 0.910 | 0.924 | -1.5# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.539 | 0.544 | -0.9  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.580 | 0.584 | -0.7  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.326 | 0.342 | -4.9  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.537 | 0.564 | -5.0  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.583 | 0.593 | -1.7  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.249 | 0.255 | -2.4  | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.349 | 0.360 | -3.2  | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.385 | 0.401 | -4.2  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.339 | 0.340 | -0.3  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.442 | 0.471 | -6.6  | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.348 | 0.347 | 0.3   | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.109 | 1.077 | 2.9   | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.382 | 0.379 | 0.8   | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.961 | 1.943 | 0.9#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.736 | -1.5  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.686 | 0.704 | -2.6  | 93    | 0.00     |
| 70 T  | Styrene                     | 1.162 | 1.222 | -5.2  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.281 | 0.289 | -2.8  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.815 | 3.557 | 6.8   | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 1.728 | 1.558 | 9.8   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.147 | 1.060 | 7.6   | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.021 | 1.015 | 0.6   | 97    | 0.00     |
| 77 T  | Bromobenzene                | 0.920 | 0.845 | 8.2   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.421 | 4.289 | 3.0   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.821 | 2.607 | 7.6   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.112 | 3.089 | 0.7   | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.426 | 0.376 | 11.7  | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.840 | 2.670 | 6.0   | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.766 | 2.562 | 7.4   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.135 | 3.125 | 0.3   | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.691 | 3.563 | 3.5   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.052 | 2.991 | 2.0   | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.727 | 1.595 | 7.6   | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.744 | 1.579 | 9.5   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.768 | 2.578 | 6.9   | 90    | 0.00     |
| 90 T  | Hexachloroethane            | 0.620 | 0.562 | 9.4   | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.693 | 1.530 | 9.6   | 97    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.237 | 0.202 | 14.8  | 92    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.834 | 0.752 | 9.8   | 87    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.416 | 0.322 | 22.6  | 88    | 0.00     |
| 95 T  | Naphthalene                 | 2.764 | 2.395 | 13.4  | 84    | 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 | 0.835 | 0.735 | 12.0 | 89    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6