

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082521\  
 Data File : VN068292.D  
 Acq On : 25 Aug 2021 10:27  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 26 04:00:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 17 13:09:49 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   | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.396 | 0.328 | 17.2  | 89    | 0.00     |
| 3 P   | Chloromethane               | 0.448 | 0.357 | 20.3  | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.701 | 0.586 | 16.4# | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.636 | 0.552 | 13.2  | 103   | 0.00     |
| 6 T   | Chloroethane                | 0.535 | 0.448 | 16.3  | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.379 | 1.233 | 10.6  | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 0.320 | 0.288 | 10.0  | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.422 | 0.394 | 6.6   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 0.599 | 0.548 | 8.5   | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.067 | 0.064 | 4.5   | 104   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.405 | 0.353 | 12.8# | 97    | 0.00     |
| 13 T  | Acrolein                    | 0.050 | 0.021 | 58.0# | 51    | 0.00     |
| 14 T  | Allyl chloride              | 0.518 | 0.469 | 9.5   | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 0.188 | 0.177 | 5.9   | 99    | 0.00     |
| 16 T  | Acetone                     | 0.156 | 0.177 | -13.5 | 130   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.048 | 0.894 | 14.7  | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 0.567 | 0.406 | 28.4# | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.307 | 1.259 | 3.7   | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 0.524 | 0.430 | 17.9  | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.454 | 0.410 | 9.7   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.132 | 1.096 | 3.2   | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.881 | 0.846 | 4.0   | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.756 | 0.679 | 10.2  | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 0.243 | 0.246 | -1.2  | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.648 | 0.655 | -1.1  | 106   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.543 | 0.499 | 8.1   | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.333 | 0.318 | 4.5   | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.155 | 0.151 | 2.6   | 98    | 0.00     |
| 30 C  | Chloroform                  | 0.901 | 0.834 | 7.4#  | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 0.703 | 0.619 | 11.9  | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.803 | 0.786 | 2.1   | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.534 | 0.489 | 8.4   | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.319 | -1.6  | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.409 | 0.413 | -1.0  | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.348 | 0.328 | 5.7   | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.471 | 0.502 | -6.6  | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.462 | 0.537 | -16.2 | 108   | 0.00     |
| 40 TM | Benzene                     | 1.248 | 1.277 | -2.3  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.159 | 0.164 | -3.1  | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.425 | 0.432 | -1.6  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.558 | 0.577 | -3.4  | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.375 | 0.386 | -2.9  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.293 | 0.303 | -3.4# | 99    | 0.00     |
| 46 T  | Dibromomethane              | 0.239 | 0.247 | -3.3  | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.445 | 0.473 | -6.3  | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.232 | 0.270 | -16.4 | 106   | 0.00     |

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 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.006 | 0.0   | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 1.196 | 1.246 | -4.2  | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.343 | 0.371 | -8.2  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.850 | 0.920 | -8.2# | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.437 | 0.493 | -12.8 | 100   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.473 | 0.516 | -9.1  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.340 | 0.357 | -5.0  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.436 | 0.486 | -11.5 | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.523 | 0.544 | -4.0  | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.072 | 0.074 | -2.8  | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.238 | 0.270 | -13.4 | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.383 | 0.445 | -16.2 | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.352 | 0.383 | -8.8  | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.398 | 0.442 | -11.1 | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.387 | 0.420 | -8.5  | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.024 | 1.042 | -1.8  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.386 | 0.422 | -9.3  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.689 | 1.797 | -6.4# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.676 | 0.742 | -9.8  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.653 | 0.711 | -8.9  | 100   | 0.00     |
| 70 T  | Styrene                     | 1.045 | 1.174 | -12.3 | 99    | 0.00     |
| 71 P  | Bromoform                   | 0.310 | 0.366 | -18.1 | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.556 | 3.581 | -0.7  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 0.926 | 0.871 | 5.9   | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.066 | 0.966 | 9.4   | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.831 | 0.822 | 1.1   | 105   | 0.00     |
| 77 T  | Bromobenzene                | 0.980 | 0.987 | -0.7  | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 3.815 | 3.895 | -2.1  | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.359 | 2.293 | 2.8   | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.877 | 3.002 | -4.3  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.254 | 0.271 | -6.7  | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.290 | 2.259 | 1.4   | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.555 | 2.709 | -6.0  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.808 | 2.964 | -5.6  | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.364 | 3.717 | -10.5 | 109   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.776 | 3.185 | -14.7 | 108   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.671 | 1.747 | -4.5  | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.692 | 1.694 | -0.1  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.071 | 2.303 | -11.2 | 108   | 0.00     |
| 90 T  | Hexachloroethane            | 0.515 | 0.562 | -9.1  | 107   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.591 | 1.631 | -2.5  | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.162 | 0.153 | 5.6   | 95    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.693 | 0.790 | -14.0 | 98    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.431 | 0.510 | -18.3 | 114   | 0.00     |
| 95 T  | Naphthalene                 | 1.486 | 1.634 | -10.0 | 86    | 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 | 0.638 | 0.745 | -16.8 | 97    | 0.00     |

(#) = Out of Range

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