

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101221\  
 Data File : VN068867.D  
 Acq On : 12 Oct 2021 16:59  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 13 05:49:25 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 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   | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.546 | 0.582 | -6.6  | 92    | 0.00     |
| 3 P   | Chloromethane               | 0.611 | 0.613 | -0.3  | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.621 | 0.652 | -5.0# | 92    | 0.00     |
| 5 T   | Bromomethane                | 0.341 | 0.393 | -15.2 | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.366 | 0.386 | -5.5  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.869 | 0.899 | -3.5  | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 0.324 | 0.325 | -0.3  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.467 | 0.494 | -5.8  | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.678 | 0.657 | 3.1   | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.120 | 0.113 | 5.8   | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.483 | 0.480 | 0.6#  | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.053 | 0.046 | 13.2  | 91    | 0.00     |
| 14 T  | Allyl chloride              | 0.866 | 0.905 | -4.5  | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 0.270 | 0.269 | 0.4   | 89    | 0.00     |
| 16 T  | Acetone                     | 0.246 | 0.262 | -6.5  | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.311 | 1.350 | -3.0  | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 0.933 | 0.929 | 0.4   | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.799 | 1.851 | -2.9  | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 0.566 | 0.570 | -0.7  | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.522 | 0.527 | -1.0  | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.801 | 1.897 | -5.3  | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.362 | 1.423 | -4.5  | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.979 | 1.005 | -2.7  | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.372 | 0.387 | -4.0  | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.933 | 0.977 | -4.7  | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.631 | 0.628 | 0.5   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.443 | 0.456 | -2.9  | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.241 | 0.248 | -2.9  | 88    | 0.00     |
| 30 C  | Chloroform                  | 1.031 | 1.065 | -3.3# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 1.025 | 0.989 | 3.5   | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.961 | 0.990 | -3.0  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.659 | 0.655 | 0.6   | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.291 | 0.303 | -4.1  | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.427 | 0.469 | -9.8  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.441 | 0.470 | -6.6  | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.469 | 0.510 | -8.7  | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.550 | 0.625 | -13.6 | 96    | 0.00     |
| 40 TM | Benzene                     | 1.300 | 1.416 | -8.9  | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.222 | 0.239 | -7.7  | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.461 | 0.506 | -9.8  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.778 | 0.833 | -7.1  | 89    | 0.00     |
| 44 TM | Trichloroethene             | 0.325 | 0.357 | -9.8  | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.337 | 0.367 | -8.9# | 92    | 0.00     |
| 46 T  | Dibromomethane              | 0.230 | 0.250 | -8.7  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.477 | 0.521 | -9.2  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.366 | 0.390 | -6.6  | 89    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101221\  
 Data File : VN068867.D  
 Acq On : 12 Oct 2021 16:59  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 13 05:49:25 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.007 | -16.7  | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 1.164 | 1.241 | -6.6   | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.451 | 0.487 | -8.0   | 89    | 0.00     |
| 52 CM | Toluene                     | 0.837 | 0.940 | -12.3# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.541 | 0.605 | -11.8  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.563 | 0.622 | -10.5  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.330 | 0.360 | -9.1   | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.554 | 0.607 | -9.6   | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.544 | 0.605 | -11.2  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.134 | 0.155 | -15.7  | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.324 | 0.360 | -11.1  | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.372 | 0.414 | -11.3  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.338 | 0.379 | -12.1  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.439 | 0.480 | -9.3   | 107   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.322 | 0.352 | -9.3   | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 0.946 | 1.031 | -9.0   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.396 | -7.0   | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.758 | 1.948 | -10.8# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.666 | 0.743 | -11.6  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.667 | 0.735 | -10.2  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.086 | 1.215 | -11.9  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.297 | 0.325 | -9.4   | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.162 | 4.415 | -6.1   | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 1.577 | 1.637 | -3.8   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.203 | 1.237 | -2.8   | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.064 | 1.020 | 4.1    | 81    | 0.00     |
| 77 T  | Bromobenzene                | 0.920 | 0.979 | -6.4   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.677 | 5.049 | -8.0   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.883 | 3.045 | -5.6   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.466 | 3.680 | -6.2   | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.445 | 0.449 | -0.9   | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.786 | 3.014 | -8.2   | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.018 | 3.178 | -5.3   | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.340 | 3.608 | -8.0   | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.179 | 4.528 | -8.4   | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.352 | 3.679 | -9.8   | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.592 | 1.756 | -10.3  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.580 | 1.728 | -9.4   | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.791 | 3.104 | -11.2  | 98    | 0.00     |
| 90 T  | Hexachloroethane            | 0.704 | 0.745 | -5.8   | 96    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.546 | 1.671 | -8.1   | 95    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.232 | 0.233 | -0.4   | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.686 | 0.809 | -17.9  | 97    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.440 | 0.492 | -11.8  | 99    | 0.00     |
| 95 T  | Naphthalene                 | 1.793 | 2.070 | -15.4  | 92    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101221\  
Data File : VN068867.D  
Acq On : 12 Oct 2021 16:59  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 13 05:49:25 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 13 05:44:40 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) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.650 | 0.760 | -16.9 | 96    | 0.00     |

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