

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121222\  
 Data File : VN075730.D  
 Acq On : 12 Dec 2022 22:04  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 13 05:25:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120922W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 12 07:54:35 2022  
 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    | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.368 | 0.378 | -2.7   | 106   | 0.00     |
| 3 P   | Chloromethane               | 0.438 | 0.435 | 0.7    | 107   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.538 | 0.541 | -0.6#  | 105   | 0.00     |
| 5 T   | Bromomethane                | 0.458 | 0.459 | -0.2   | 105   | 0.00     |
| 6 T   | Chloroethane                | 0.402 | 0.403 | -0.2   | 105   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.781 | 0.819 | -4.9   | 108   | 0.00     |
| 8 T   | Diethyl Ether               | 0.285 | 0.306 | -7.4   | 108   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.458 | 0.465 | -1.5   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 0.749 | 0.776 | -3.6   | 105   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.078 | 0.079 | -1.3   | 102   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.428 | 0.453 | -5.8#  | 105   | 0.00     |
| 13 T  | Acrolein                    | 0.090 | 0.118 | -31.1# | 129   | 0.00     |
| 14 T  | Allyl chloride              | 0.533 | 0.532 | 0.2    | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 0.203 | 0.219 | -7.9   | 108   | 0.00     |
| 16 T  | Acetone                     | 0.180 | 0.164 | 8.9    | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.133 | 1.143 | -0.9   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 0.577 | 0.557 | 3.5    | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.441 | 1.578 | -9.5   | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 0.536 | 0.526 | 1.9    | 106   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.479 | 0.498 | -4.0   | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.214 | 1.378 | -13.5  | 110   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.925 | 1.053 | -13.8  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.799 | 0.870 | -8.9   | 109   | 0.00     |
| 25 T  | 2-Butanone                  | 0.263 | 0.271 | -3.0   | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.681 | 0.702 | -3.1   | 102   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.581 | 0.608 | -4.6   | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 0.319 | 0.358 | -12.2  | 109   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.162 | 0.176 | -8.6   | 105   | 0.00     |
| 30 C  | Chloroform                  | 0.885 | 0.972 | -9.8#  | 108   | 0.00     |
| 31 T  | Cyclohexane                 | 0.785 | 0.785 | 0.0    | 106   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.816 | 0.897 | -9.9   | 107   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.531 | 0.580 | -9.2   | 109   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.305 | 0.332 | -8.9   | 109   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.405 | 0.451 | -11.4  | 109   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.325 | 0.355 | -9.2   | 110   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.467 | 0.502 | -7.5   | 106   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.514 | 0.570 | -10.9  | 104   | 0.00     |
| 40 TM | Benzene                     | 1.243 | 1.352 | -8.8   | 108   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.167 | 0.193 | -15.6  | 112   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.416 | 0.445 | -7.0   | 107   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.543 | 0.615 | -13.3  | 108   | 0.00     |
| 44 TM | Trichloroethene             | 0.351 | 0.375 | -6.8   | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.296 | 0.325 | -9.8#  | 110   | 0.00     |
| 46 T  | Dibromomethane              | 0.222 | 0.246 | -10.8  | 109   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.435 | 0.489 | -12.4  | 108   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.250 | 0.280 | -12.0  | 108   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121222\  
 Data File : VN075730.D  
 Acq On : 12 Dec 2022 22:04  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 13 05:25:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120922W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 12 07:54:35 2022  
 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    | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 1.146 | 1.262 | -10.1  | 107   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.335 | 0.375 | -11.9  | 109   | 0.00     |
| 52 CM | Toluene                     | 0.822 | 0.920 | -11.9# | 108   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.430 | 0.502 | -16.7  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.478 | 0.541 | -13.2  | 106   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.323 | 0.356 | -10.2  | 108   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.438 | 0.511 | -16.7  | 108   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.522 | 0.584 | -11.9  | 110   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.129 | 0.142 | -10.1  | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.243 | 0.273 | -12.3  | 108   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.356 | 0.405 | -13.8  | 108   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.338 | 0.365 | -8.0   | 106   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.392 | 0.438 | -11.7  | 108   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.364 | 0.354 | 2.7    | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.029 | 1.085 | -5.4   | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.414 | -10.7  | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.740 | 1.936 | -11.3# | 108   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.703 | 0.783 | -11.4  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 0.682 | 0.769 | -12.8  | 107   | 0.00     |
| 70 T  | Styrene                     | 1.094 | 1.271 | -16.2  | 108   | 0.00     |
| 71 P  | Bromoform                   | 0.284 | 0.321 | -13.0  | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.590 | 4.114 | -14.6  | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 1.043 | 1.283 | -23.0  | 110   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.078 | 1.136 | -5.4   | 106   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.004 | 0.859 | 14.4   | 83    | 0.00     |
| 77 T  | Bromobenzene                | 0.903 | 0.989 | -9.5   | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 3.984 | 4.717 | -18.4  | 107   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.459 | 2.730 | -11.0  | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.002 | 3.470 | -15.6  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.268 | 0.324 | -20.9  | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.459 | 2.730 | -11.0  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.722 | 3.075 | -13.0  | 105   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.017 | 3.454 | -14.5  | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.742 | 4.330 | -15.7  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.131 | 3.643 | -16.4  | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.688 | 1.807 | -7.0   | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.717 | 1.796 | -4.6   | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.509 | 2.927 | -16.7  | 101   | 0.00     |
| 90 T  | Hexachloroethane            | 0.536 | 0.633 | -18.1  | 105   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.680 | 1.765 | -5.1   | 100   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.177 | 0.194 | -9.6   | 98    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.807 | 0.898 | -11.3  | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.458 | 0.455 | 0.7    | 90    | 0.00     |
| 95 T  | Naphthalene                 | 2.384 | 2.671 | -12.0  | 98    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121222\  
Data File : VN075730.D  
Acq On : 12 Dec 2022 22:04  
Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Dec 13 05:25:54 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120922W.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 12 07:54:35 2022  
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 | 0.793 | 0.856 | -7.9 | 95    | 0.00     |

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