

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080222\  
 Data File : VN073676.D  
 Acq On : 02 Aug 2022 09:58  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 03 02:01:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 29 02:20:25 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    | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.485 | 0.421 | 13.2   | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.699 | 0.567 | 18.9   | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.848 | 0.719 | 15.2#  | 88    | 0.00     |
| 5 T   | Bromomethane                | 0.492 | 0.442 | 10.2   | 93    | 0.00     |
| 6 T   | Chloroethane                | 0.592 | 0.513 | 13.3   | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.874 | 0.779 | 10.9   | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.328 | 0.300 | 8.5    | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.484 | 0.478 | 1.2    | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 0.492 | 0.541 | -10.0  | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.131 | 0.107 | 18.3   | 79    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.474 | 0.440 | 7.2#   | 97    | 0.00     |
| 13 T  | Acrolein                    | 0.130 | 0.175 | -34.6# | 123   | 0.00     |
| 14 T  | Allyl chloride              | 0.758 | 0.675 | 10.9   | 89    | -0.01    |
| 15 T  | Acrylonitrile               | 0.364 | 0.329 | 9.6    | 89    | 0.00     |
| 16 T  | Acetone                     | 0.327 | 0.285 | 12.8   | 94    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.258 | 1.119 | 11.0   | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 0.814 | 0.717 | 11.9   | 91    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.621 | 1.579 | 2.6    | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 0.691 | 0.541 | 21.7   | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.514 | 0.500 | 2.7    | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.636 | 1.559 | 4.7    | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.372 | 1.352 | 1.5    | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.007 | 0.920 | 8.6    | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.508 | 0.451 | 11.2   | 88    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.774 | 0.768 | 0.8    | 103   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.633 | 0.615 | 2.8    | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 0.423 | 0.380 | 10.2   | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.321 | 0.286 | 10.9   | 85    | 0.00     |
| 30 C  | Chloroform                  | 1.049 | 1.004 | 4.3#   | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 0.907 | 0.846 | 6.7    | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.871 | 0.842 | 3.3    | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.609 | 0.569 | 6.6    | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.317 | -1.0   | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.447 | 0.465 | -4.0   | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.589 | 0.556 | 5.6    | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.454 | 0.465 | -2.4   | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.535 | 0.599 | -12.0  | 101   | 0.00     |
| 40 TM | Benzene                     | 1.453 | 1.467 | -1.0   | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.267 | 0.223 | 16.5   | 75    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.490 | 0.479 | 2.2    | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.796 | 0.797 | -0.1   | 91    | 0.00     |
| 44 TM | Trichloroethene             | 0.368 | 0.372 | -1.1   | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.363 | 0.362 | 0.3#   | 96    | 0.00     |
| 46 T  | Dibromomethane              | 0.252 | 0.260 | -3.2   | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.484 | 0.499 | -3.1   | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.348 | 0.360 | -3.4   | 93    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
 Quant Title : SW846 8260  
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 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                 | 0.010 | 0.009 | 10.0  | 84    | 0.00     |
| 50 S  | Toluene-d8                  | 1.236 | 1.289 | -4.3  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.571 | 0.576 | -0.9  | 90    | 0.00     |
| 52 CM | Toluene                     | 0.888 | 0.958 | -7.9# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.478 | 0.533 | -11.5 | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.539 | 0.584 | -8.3  | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.370 | 0.383 | -3.5  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.510 | 0.589 | -15.5 | 95    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.628 | 0.653 | -4.0  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.229 | 0.274 | -19.7 | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.433 | 0.445 | -2.8  | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.368 | 0.412 | -12.0 | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.381 | 0.401 | -5.2  | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.382 | 0.430 | -12.6 | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.397 | 0.388 | 2.3   | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.062 | 1.078 | -1.5  | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.381 | 0.389 | -2.1  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.792 | 1.921 | -7.2# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.683 | 0.757 | -10.8 | 100   | 0.00     |
| 69 T  | o-Xylene                    | 0.666 | 0.733 | -10.1 | 97    | 0.00     |
| 70 T  | Styrene                     | 1.066 | 1.243 | -16.6 | 100   | 0.00     |
| 71 P  | Bromoform                   | 0.314 | 0.336 | -7.0  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.660 | 3.803 | -3.9  | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 1.383 | 1.373 | 0.7   | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.412 | 1.245 | 11.8  | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.135 | 1.035 | 8.8   | 105   | 0.00     |
| 77 T  | Bromobenzene                | 0.953 | 0.935 | 1.9   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 4.118 | 4.417 | -7.3  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.570 | 2.591 | -0.8  | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.012 | 3.201 | -6.3  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.386 | 0.388 | -0.5  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.436 | 2.497 | -2.5  | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.668 | 2.792 | -4.6  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.962 | 3.162 | -6.8  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.687 | 3.997 | -8.4  | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.907 | 3.397 | -16.9 | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.740 | 1.737 | 0.2   | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.741 | 1.713 | 1.6   | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.365 | 2.735 | -15.6 | 104   | 0.00     |
| 90 T  | Hexachloroethane            | 0.577 | 0.587 | -1.7  | 101   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.763 | 1.733 | 1.7   | 100   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.284 | 0.261 | 8.1   | 93    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.876 | 0.981 | -12.0 | 101   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.476 | 0.490 | -2.9  | 103   | 0.00     |
| 95 T  | Naphthalene                 | 2.841 | 3.140 | -10.5 | 94    | 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 | 0.921 | 0.999 | -8.5 | 100   | 0.00     |

(#) = Out of Range

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