

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111822\  
 Data File : VN075308.D  
 Acq On : 18 Nov 2022 12:19  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 18 13:31:33 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 09:48:49 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    | 115   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.650 | 0.561 | 13.7   | 102   | 0.00     |
| 3 P   | Chloromethane               | 0.691 | 0.579 | 16.2   | 101   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.986 | 0.792 | 19.7#  | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.808 | 0.801 | 0.9    | 119   | 0.00     |
| 6 T   | Chloroethane                | 0.707 | 0.586 | 17.1   | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.007 | 1.091 | -8.3   | 128   | 0.00     |
| 8 T   | Diethyl Ether               | 0.367 | 0.390 | -6.3   | 125   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.556 | 0.617 | -11.0  | 132   | 0.00     |
| 10 T  | Methyl Iodide               | 0.828 | 0.916 | -10.6  | 135   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.157 | 0.137 | 12.7   | 111   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.530 | 0.567 | -7.0#  | 127   | 0.00     |
| 13 T  | Acrolein                    | 0.129 | 0.137 | -6.2   | 130   | 0.00     |
| 14 T  | Allyl chloride              | 0.774 | 0.807 | -4.3   | 120   | 0.01     |
| 15 T  | Acrylonitrile               | 0.332 | 0.339 | -2.1   | 122   | 0.00     |
| 16 T  | Acetone                     | 0.285 | 0.329 | -15.4  | 144   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.333 | 1.352 | -1.4   | 118   | 0.00     |
| 18 T  | Methyl Acetate              | 0.932 | 0.936 | -0.4   | 121   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.970 | 2.039 | -3.5   | 121   | 0.00     |
| 20 T  | Methylene Chloride          | 0.636 | 0.671 | -5.5   | 128   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.580 | 0.637 | -9.8   | 131   | -0.01    |
| 22 T  | Diisopropyl ether           | 1.708 | 1.821 | -6.6   | 124   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.427 | 1.253 | 12.2   | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.080 | 1.137 | -5.3   | 125   | 0.00     |
| 25 T  | 2-Butanone                  | 0.449 | 0.463 | -3.1   | 125   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.994 | 0.998 | -0.4   | 119   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.693 | 0.779 | -12.4  | 133   | 0.00     |
| 28 T  | Bromochloromethane          | 0.455 | 0.407 | 10.5   | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.290 | 0.287 | 1.0    | 116   | 0.00     |
| 30 C  | Chloroform                  | 1.173 | 1.260 | -7.4#  | 126   | 0.00     |
| 31 T  | Cyclohexane                 | 1.002 | 1.000 | 0.2    | 119   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.065 | 1.180 | -10.8  | 128   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.674 | 0.549 | 18.5   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.294 | 0.302 | -2.7   | 109   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.454 | 0.568 | -25.1# | 129   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.498 | 0.515 | -3.4   | 113   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.500 | 0.606 | -21.2  | 123   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.600 | 0.723 | -20.5  | 124   | 0.00     |
| 40 TM | Benzene                     | 1.391 | 1.681 | -20.8  | 126   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.239 | 0.287 | -20.1  | 124   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.506 | 0.573 | -13.2  | 118   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.773 | 0.837 | -8.3   | 112   | 0.00     |
| 44 TM | Trichloroethene             | 0.349 | 0.447 | -28.1# | 136   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.331 | 0.408 | -23.3# | 125   | 0.00     |
| 46 T  | Dibromomethane              | 0.258 | 0.310 | -20.2  | 127   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.500 | 0.606 | -21.2  | 126   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.355 | 0.379 | -6.8   | 115   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_N  
 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                 | 0.009 | 0.011 | -22.2  | 129   | 0.00     |
| 50 S  | Toluene-d8                  | 1.139 | 1.059 | 7.0    | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.499 | 0.540 | -8.2   | 114   | 0.00     |
| 52 CM | Toluene                     | 0.930 | 1.125 | -21.0# | 120   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.527 | 0.629 | -19.4  | 117   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.559 | 0.681 | -21.8  | 122   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.369 | 0.446 | -20.9  | 123   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.563 | 0.645 | -14.6  | 114   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.614 | 0.725 | -18.1  | 121   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.217 | 0.212 | 2.3    | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.379 | 0.408 | -7.7   | 113   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.389 | 0.487 | -25.2# | 123   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.378 | 0.465 | -23.0  | 122   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.400 | 0.416 | -4.0   | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.307 | 0.442 | -44.0# | 155#  | 0.00     |
| 65 PM | Chlorobenzene               | 1.067 | 1.263 | -18.4  | 124   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.396 | 0.486 | -22.7  | 127   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.920 | 2.313 | -20.5# | 122   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.770 | 0.945 | -22.7  | 121   | 0.00     |
| 69 T  | o-Xylene                    | 0.762 | 0.913 | -19.8  | 121   | 0.00     |
| 70 T  | Styrene                     | 1.215 | 1.535 | -26.3# | 125   | 0.00     |
| 71 P  | Bromoform                   | 0.296 | 0.400 | -35.1# | 136   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 107   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.014 | 4.325 | -7.7   | 120   | 0.00     |
| 74 T  | N-amyl acetate              | 1.485 | 1.405 | 5.4    | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.309 | 1.302 | 0.5    | 116   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.062 | 1.115 | -5.0   | 112   | 0.00     |
| 77 T  | Bromobenzene                | 0.884 | 1.058 | -19.7  | 137   | 0.00     |
| 78 T  | n-propylbenzene             | 4.507 | 5.126 | -13.7  | 125   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.754 | 2.993 | -8.7   | 121   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.371 | 3.778 | -12.1  | 122   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.414 | 0.406 | 1.9    | 108   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.754 | 2.993 | -8.7   | 121   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.996 | 3.351 | -11.8  | 123   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.411 | 3.838 | -12.5  | 122   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.191 | 4.776 | -14.0  | 123   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.461 | 4.158 | -20.1  | 127   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.731 | 2.116 | -22.2  | 134   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.713 | 2.082 | -21.5  | 134   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.787 | 3.520 | -26.3# | 131   | 0.00     |
| 90 T  | Hexachloroethane            | 0.635 | 0.688 | -8.3   | 118   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.720 | 2.055 | -19.5  | 131   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.271 | 0.279 | -3.0   | 115   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.740 | 1.134 | -53.2# | 161#  | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.361 | 0.568 | -57.3# | 180#  | 0.00     |
| 95 T  | Naphthalene                 | 2.847 | 3.569 | -25.4# | 131   | 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 | 0.736 | 1.098 | -49.2# | 160#  | 0.00     |

(#) = Out of Range

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