

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN073024\  
 Data File : VN083087.D  
 Acq On : 30 Jul 2024 23:07  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 31 06:12:21 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070824W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 08 13:46:04 2024  
 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    | 104   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.647 | 0.611 | 5.6    | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.614 | 0.474 | 22.8   | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.645 | 0.604 | 6.4#   | 97    | 0.00     |
| 5 T   | Bromomethane                | 0.465 | 0.408 | 12.3   | 97    | 0.00     |
| 6 T   | Chloroethane                | 0.441 | 0.522 | -18.4  | 127   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.927 | 1.052 | -13.5  | 123   | 0.00     |
| 8 T   | Diethyl Ether               | 0.317 | 0.349 | -10.1  | 108   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.525 | 0.628 | -19.6  | 124   | -0.01    |
| 10 T  | Methyl Iodide               | 0.538 | 0.582 | -8.2   | 102   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.118 | 0.156 | -32.2# | 139   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.510 | 0.531 | -4.1#  | 108   | 0.00     |
| 13 T  | Acrolein                    | 0.085 | 0.080 | 5.9    | 100   | 0.00     |
| 14 T  | Allyl chloride              | 0.796 | 0.757 | 4.9    | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 0.271 | 0.351 | -29.5# | 137   | 0.00     |
| 16 T  | Acetone                     | 0.247 | 0.306 | -23.9  | 134   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.525 | 1.227 | 19.5   | 88    | 0.00     |
| 18 T  | Methyl Acetate              | 0.653 | 1.212 | -85.6# | 205#  | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.761 | 2.127 | -20.8  | 124   | 0.00     |
| 20 T  | Methylene Chloride          | 0.596 | 0.681 | -14.3  | 127   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.553 | 0.577 | -4.3   | 112   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.665 | 2.159 | -29.7# | 134   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.322 | 1.474 | -11.5  | 112   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.010 | 1.274 | -26.1# | 132   | 0.00     |
| 25 T  | 2-Butanone                  | 0.373 | 0.467 | -25.2# | 132   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.939 | 0.830 | 11.6   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.647 | 0.769 | -18.9  | 124   | 0.00     |
| 28 T  | Bromochloromethane          | 0.433 | 0.517 | -19.4  | 130   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.235 | 0.307 | -30.6# | 137   | 0.00     |
| 30 C  | Chloroform                  | 1.071 | 1.403 | -31.0# | 139   | 0.00     |
| 31 T  | Cyclohexane                 | 0.916 | 0.847 | 7.5    | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.995 | 1.232 | -23.8  | 130   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.701 | 0.835 | -19.1  | 128   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.321 | 0.381 | -18.7  | 128   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.442 | 0.483 | -9.3   | 114   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.450 | 0.533 | -18.4  | 128   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.533 | 0.618 | -15.9  | 123   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.478 | 0.442 | 7.5    | 96    | 0.00     |
| 40 TM | Benzene                     | 1.361 | 1.586 | -16.5  | 125   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.243 | 0.300 | -23.5  | 135   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.490 | 0.618 | -26.1# | 135   | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.386 | 1.121 | 19.1   | 142   | 0.00     |
| 44 TM | Trichloroethene             | 0.349 | 0.362 | -3.7   | 112   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.318 | 0.423 | -33.0# | 139   | 0.00     |
| 46 T  | Dibromomethane              | 0.247 | 0.313 | -26.7# | 134   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.511 | 0.661 | -29.4# | 140   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.353 | 0.431 | -22.1  | 129   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 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                 | 0.007 | 0.009 | -28.6# | 129   | 0.00     |
| 50 S  | Toluene-d8                  | 1.185 | 1.330 | -12.2  | 119   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.446 | 0.615 | -37.9# | 145   | 0.00     |
| 52 CM | Toluene                     | 0.850 | 1.003 | -18.0# | 122   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.527 | 0.598 | -13.5  | 117   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.558 | 0.634 | -13.6  | 121   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.313 | 0.425 | -35.8# | 142   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.486 | 0.622 | -28.0# | 125   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.553 | 0.699 | -26.4# | 134   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.250 | 0.333 | -33.2# | 133   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.332 | 0.454 | -36.7# | 139   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.398 | 0.517 | -29.9# | 135   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.332 | 0.414 | -24.7  | 131   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.426 | 0.441 | -3.5   | 111   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 113   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.373 | 0.337 | 9.7    | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 1.071 | 1.186 | -10.7  | 127   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.381 | 0.451 | -18.4  | 134   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.801 | 1.973 | -9.6#  | 120   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.680 | 0.772 | -13.5  | 122   | 0.00     |
| 69 T  | o-Xylene                    | 0.651 | 0.735 | -12.9  | 122   | 0.00     |
| 70 T  | Styrene                     | 1.076 | 1.322 | -22.9  | 127   | 0.00     |
| 71 P  | Bromoform                   | 0.300 | 0.359 | -19.7  | 130   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 121   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.633 | 3.696 | -1.7   | 120   | 0.00     |
| 74 T  | N-amyl acetate              | 1.503 | 1.696 | -12.8  | 131   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.088 | 1.310 | -20.4  | 153#  | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.862 | 1.141 | -32.4# | 164#  | 0.00     |
| 77 T  | Bromobenzene                | 0.937 | 0.970 | -3.5   | 128   | 0.00     |
| 78 T  | n-propylbenzene             | 4.177 | 4.382 | -4.9   | 123   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.662 | 2.699 | -1.4   | 125   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.937 | 3.134 | -6.7   | 125   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.438 | 0.435 | 0.7    | 110   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.635 | 2.702 | -2.5   | 126   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.604 | 2.618 | -0.5   | 119   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.993 | 3.174 | -6.0   | 122   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.518 | 3.640 | -3.5   | 121   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.935 | 2.996 | -2.1   | 117   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.693 | 1.750 | -3.4   | 127   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.751 | 1.711 | 2.3    | 124   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.515 | 2.436 | 3.1    | 114   | 0.00     |
| 90 T  | Hexachloroethane            | 0.621 | 0.658 | -6.0   | 131   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.644 | 1.720 | -4.6   | 131   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.252 | 0.270 | -7.1   | 135   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.886 | 0.785 | 11.4   | 105   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.393 | 0.350 | 10.9   | 111   | 0.00     |
| 95 T  | Naphthalene                 | 3.033 | 2.795 | 7.8    | 108   | 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 | 0.911 | 0.847 | 7.0  | 115   | 0.00     |

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