

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062522\  
 Data File : VN073099.D  
 Acq On : 25 Jun 2022 10:08  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 27 03:33:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 18 06:22:45 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    | 81    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.476 | 0.492 | -3.4   | 79    | 0.00     |
| 3 P   | Chloromethane               | 0.535 | 0.469 | 12.3   | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.427 | 0.433 | -1.4#  | 80    | 0.00     |
| 5 T   | Bromomethane                | 0.168 | 0.176 | -4.8   | 77    | 0.00     |
| 6 T   | Chloroethane                | 0.267 | 0.288 | -7.9   | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.695 | 0.828 | -19.1  | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 0.359 | 0.363 | -1.1   | 80    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.481 | 0.520 | -8.1   | 88    | 0.00     |
| 10 T  | Methyl Iodide               | 0.551 | 0.476 | 13.6   | 69    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.175 | 0.154 | 12.0   | 70    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.479 | 0.463 | 3.3#   | 77    | 0.00     |
| 13 T  | Acrolein                    | 0.069 | 0.045 | 34.8#  | 52    | 0.00     |
| 14 T  | Allyl chloride              | 1.023 | 1.027 | -0.4   | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 0.403 | 0.422 | -4.7   | 83    | 0.00     |
| 16 T  | Acetone                     | 0.372 | 0.371 | 0.3    | 83    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.227 | 0.962 | 21.6   | 64    | 0.00     |
| 18 T  | Methyl Acetate              | 0.990 | 1.020 | -3.0   | 87    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.798 | 1.947 | -8.3   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 0.628 | 0.575 | 8.4    | 79    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.521 | 0.493 | 5.4    | 77    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.907 | 2.139 | -12.2  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.760 | 1.945 | -10.5  | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.000 | 1.071 | -7.1   | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 0.590 | 0.617 | -4.6   | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.898 | 0.914 | -1.8   | 85    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.622 | 0.630 | -1.3   | 82    | 0.00     |
| 28 T  | Bromochloromethane          | 0.413 | 0.450 | -9.0   | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.389 | 0.403 | -3.6   | 83    | 0.00     |
| 30 C  | Chloroform                  | 1.012 | 1.093 | -8.0#  | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 0.914 | 0.855 | 6.5    | 80    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.888 | 0.933 | -5.1   | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.676 | 0.703 | -4.0   | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 80    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.309 | 0.334 | -8.1   | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.418 | 0.433 | -3.6   | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.669 | 0.703 | -5.1   | 84    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.440 | 0.464 | -5.5   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.504 | 0.526 | -4.4   | 81    | 0.00     |
| 40 TM | Benzene                     | 1.314 | 1.384 | -5.3   | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.317 | 0.334 | -5.4   | 85    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.467 | 0.512 | -9.6   | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.956 | 1.057 | -10.6  | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.333 | 0.341 | -2.4   | 82    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.336 | 0.371 | -10.4# | 87    | 0.00     |
| 46 T  | Dibromomethane              | 0.227 | 0.243 | -7.0   | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.451 | 0.506 | -12.2  | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.437 | 0.478 | -9.4   | 85    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 27 03:33:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061722W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 18 06:22:45 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                 | 0.010 | 0.009 | 10.0   | 72    | 0.00     |
| 50 S  | Toluene-d8                  | 1.150 | 1.219 | -6.0   | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.623 | 0.703 | -12.8  | 86    | 0.00     |
| 52 CM | Toluene                     | 0.807 | 0.880 | -9.0#  | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.485 | 0.556 | -14.6  | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.530 | 0.598 | -12.8  | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.354 | 0.370 | -4.5   | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.568 | 0.631 | -11.1  | 83    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.588 | 0.642 | -9.2   | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.251 | 0.291 | -15.9  | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.482 | 0.538 | -11.6  | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.335 | 0.383 | -14.3  | 83    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.349 | 0.378 | -8.3   | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.414 | 0.453 | -9.4   | 85    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.304 | 0.327 | -7.6   | 87    | 0.00     |
| 65 PM | Chlorobenzene               | 0.976 | 1.031 | -5.6   | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.372 | 0.389 | -4.6   | 83    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.719 | 1.894 | -10.2# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.674 | 0.718 | -6.5   | 84    | 0.00     |
| 69 T  | o-Xylene                    | 0.674 | 0.731 | -8.5   | 86    | 0.00     |
| 70 T  | Styrene                     | 1.082 | 1.197 | -10.6  | 85    | 0.00     |
| 71 P  | Bromoform                   | 0.280 | 0.311 | -11.1  | 82    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 83    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.868 | 4.045 | -4.6   | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 2.007 | 2.095 | -4.4   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.393 | 1.409 | -1.1   | 86    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.212 | 1.125 | 7.2    | 86    | 0.00     |
| 77 T  | Bromobenzene                | 0.927 | 0.932 | -0.5   | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 4.255 | 4.732 | -11.2  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.755 | 2.829 | -2.7   | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.177 | 3.355 | -5.6   | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.449 | 0.477 | -6.2   | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.607 | 2.797 | -7.3   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.910 | 3.029 | -4.1   | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.165 | 3.361 | -6.2   | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.882 | 4.199 | -8.2   | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.143 | 3.459 | -10.1  | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.654 | 1.723 | -4.2   | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.674 | 1.704 | -1.8   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.566 | 2.997 | -16.8  | 91    | 0.00     |
| 90 T  | Hexachloroethane            | 0.592 | 0.643 | -8.6   | 87    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.725 | 1.768 | -2.5   | 87    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.376 | 0.346 | 8.0    | 81    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.955 | 0.968 | -1.4   | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.416 | 0.403 | 3.1    | 81    | 0.00     |
| 95 T  | Naphthalene                 | 3.863 | 3.530 | 8.6    | 79    | 0.00     |

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MSVOA\_N  
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Quant Title : SW846 8260  
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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 | 1.020 | 0.958 | 6.1  | 81    | 0.00     |

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