

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120922\  
 Data File : VN075670.D  
 Acq On : 09 Dec 2022 15:58  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN120922

Quant Time: Dec 12 03:02:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120922W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 12 03:01:58 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   | 106   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.368 | 0.338 | 8.2   | 98    | 0.00     |
| 3 P   | Chloromethane               | 0.438 | 0.390 | 11.0  | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.538 | 0.486 | 9.7#  | 97    | 0.00     |
| 5 T   | Bromomethane                | 0.458 | 0.442 | 3.5   | 104   | 0.00     |
| 6 T   | Chloroethane                | 0.402 | 0.368 | 8.5   | 99    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.781 | 0.717 | 8.2   | 98    | 0.00     |
| 8 T   | Diethyl Ether               | 0.285 | 0.282 | 1.1   | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.458 | 0.431 | 5.9   | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 0.749 | 0.725 | 3.2   | 102   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.078 | 0.075 | 3.8   | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.428 | 0.412 | 3.7#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.090 | 0.087 | 3.3   | 99    | 0.00     |
| 14 T  | Allyl chloride              | 0.533 | 0.540 | -1.3  | 102   | 0.00     |
| 15 T  | Acrylonitrile               | 0.203 | 0.195 | 3.9   | 99    | 0.00     |
| 16 T  | Acetone                     | 0.180 | 0.172 | 4.4   | 108   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.133 | 1.042 | 8.0   | 98    | 0.00     |
| 18 T  | Methyl Acetate              | 0.577 | 0.501 | 13.2  | 99    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.441 | 1.461 | -1.4  | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 0.536 | 0.482 | 10.1  | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.479 | 0.454 | 5.2   | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.214 | 1.227 | -1.1  | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.925 | 0.967 | -4.5  | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.799 | 0.767 | 4.0   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.263 | 0.252 | 4.2   | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.681 | 0.680 | 0.1   | 102   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.581 | 0.555 | 4.5   | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 0.319 | 0.330 | -3.4  | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.162 | 0.160 | 1.2   | 99    | 0.00     |
| 30 C  | Chloroform                  | 0.885 | 0.878 | 0.8#  | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 0.785 | 0.692 | 11.8  | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.816 | 0.803 | 1.6   | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.531 | 0.529 | 0.4   | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.305 | 0.310 | -1.6  | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.405 | 0.410 | -1.2  | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.325 | 0.324 | 0.3   | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.467 | 0.464 | 0.6   | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.514 | 0.552 | -7.4  | 101   | 0.00     |
| 40 TM | Benzene                     | 1.243 | 1.262 | -1.5  | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.167 | 0.180 | -7.8  | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.416 | 0.422 | -1.4  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.543 | 0.577 | -6.3  | 101   | 0.00     |
| 44 TM | Trichloroethene             | 0.351 | 0.348 | 0.9   | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.296 | 0.301 | -1.7# | 102   | 0.00     |
| 46 T  | Dibromomethane              | 0.222 | 0.230 | -3.6  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.435 | 0.454 | -4.4  | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.250 | 0.265 | -6.0  | 102   | 0.00     |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN120922

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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                 | 0.006 | 0.006 | 0.0   | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 1.146 | 1.175 | -2.5  | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.335 | 0.346 | -3.3  | 101   | 0.00     |
| 52 CM | Toluene                     | 0.822 | 0.851 | -3.5# | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.430 | 0.487 | -13.3 | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.478 | 0.528 | -10.5 | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.323 | 0.333 | -3.1  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.438 | 0.479 | -9.4  | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.522 | 0.547 | -4.8  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.129 | 0.153 | -18.6 | 106   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.243 | 0.257 | -5.8  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.356 | 0.380 | -6.7  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.338 | 0.356 | -5.3  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.392 | 0.420 | -7.1  | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.364 | 0.340 | 6.6   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 1.029 | 1.010 | 1.8   | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.381 | -1.9  | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.740 | 1.794 | -3.1# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.703 | 0.727 | -3.4  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.682 | 0.716 | -5.0  | 101   | 0.00     |
| 70 T  | Styrene                     | 1.094 | 1.193 | -9.0  | 102   | 0.00     |
| 71 P  | Bromoform                   | 0.284 | 0.305 | -7.4  | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.590 | 3.583 | 0.2   | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 1.043 | 1.124 | -7.8  | 103   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.078 | 1.008 | 6.5   | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.004 | 0.853 | 15.0  | 88    | 0.00     |
| 77 T  | Bromobenzene                | 0.903 | 0.891 | 1.3   | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 3.984 | 4.148 | -4.1  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.459 | 2.404 | 2.2   | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.002 | 3.131 | -4.3  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.268 | 0.301 | -12.3 | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.459 | 2.404 | 2.2   | 101   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.722 | 2.767 | -1.7  | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.017 | 3.142 | -4.1  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.742 | 3.933 | -5.1  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.131 | 3.352 | -7.1  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.688 | 1.712 | -1.4  | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.717 | 1.681 | 2.1   | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.509 | 2.754 | -9.8  | 102   | 0.00     |
| 90 T  | Hexachloroethane            | 0.536 | 0.560 | -4.5  | 100   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.680 | 1.643 | 2.2   | 100   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.177 | 0.179 | -1.1  | 97    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.807 | 0.880 | -9.0  | 101   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.458 | 0.462 | -0.9  | 98    | 0.00     |
| 95 T  | Naphthalene                 | 2.384 | 2.562 | -7.5  | 101   | 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 | 0.793 | 0.850 | -7.2 | 101   | 0.00     |

(#) = Out of Range

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