

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN030623\  
 Data File : VN076861.D  
 Acq On : 06 Mar 2023 21:15  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN030623

Quant Time: Mar 07 03:20:50 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 07 01:59:03 2023  
 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   | 107   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.582 | 0.516 | 11.3  | 101   | 0.00     |
| 3 P   | Chloromethane               | 0.765 | 0.643 | 15.9  | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.701 | 0.617 | 12.0# | 100   | 0.00     |
| 5 T   | Bromomethane                | 0.461 | 0.368 | 20.2  | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.477 | 0.372 | 22.0  | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.023 | 0.926 | 9.5   | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 0.394 | 0.377 | 4.3   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.598 | 0.518 | 13.4  | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 0.624 | 0.654 | -4.8  | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.104 | 0.097 | 6.7   | 105   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.558 | 0.513 | 8.1#  | 103   | 0.00     |
| 13 T  | Acrolein                    | 0.135 | 0.126 | 6.7   | 105   | 0.00     |
| 14 T  | Allyl chloride              | 0.932 | 0.864 | 7.3   | 102   | 0.00     |
| 15 T  | Acrylonitrile               | 0.335 | 0.311 | 7.2   | 102   | 0.00     |
| 16 T  | Acetone                     | 0.306 | 0.246 | 19.6  | 96    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.515 | 1.402 | 7.5   | 103   | 0.00     |
| 18 T  | Methyl Acetate              | 1.049 | 0.961 | 8.4   | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.913 | 1.814 | 5.2   | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 0.714 | 0.611 | 14.4  | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.603 | 0.545 | 9.6   | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 2.096 | 1.975 | 5.8   | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.335 | 1.315 | 1.5   | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.195 | 1.092 | 8.6   | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 0.447 | 0.402 | 10.1  | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.875 | 0.794 | 9.3   | 99    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.707 | 0.651 | 7.9   | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 0.505 | 0.431 | 14.7  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.288 | 0.270 | 6.2   | 101   | 0.00     |
| 30 C  | Chloroform                  | 1.187 | 1.079 | 9.1#  | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 1.184 | 1.020 | 13.9  | 102   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.028 | 0.951 | 7.5   | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.701 | 0.721 | -2.9  | 119   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.313 | 0.327 | -4.5  | 119   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.503 | 0.478 | 5.0   | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.516 | 0.480 | 7.0   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.511 | 0.472 | 7.6   | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.620 | 0.608 | 1.9   | 103   | 0.00     |
| 40 TM | Benzene                     | 1.531 | 1.433 | 6.4   | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.282 | 0.273 | 3.2   | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.533 | 0.483 | 9.4   | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.790 | 0.780 | 1.3   | 103   | 0.00     |
| 44 TM | Trichloroethene             | 0.363 | 0.346 | 4.7   | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.396 | 0.373 | 5.8#  | 101   | 0.00     |
| 46 T  | Dibromomethane              | 0.251 | 0.233 | 7.2   | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.517 | 0.489 | 5.4   | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.384 | 0.384 | 0.0   | 101   | 0.00     |

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 ALS Vial : 13 Sample Multiplier: 1

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 MSVOA\_N  
 ClientSampleId :  
 ICSVN030623

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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 | 0.007 | 0.0   | 103   | 0.00     |
| 50 S  | Toluene-d8                  | 1.205 | 1.294 | -7.4  | 117   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.498 | 0.492 | 1.2   | 101   | 0.00     |
| 52 CM | Toluene                     | 0.912 | 0.897 | 1.6#  | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.501 | 0.523 | -4.4  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.575 | 0.582 | -1.2  | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.363 | 0.343 | 5.5   | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.540 | 0.564 | -4.4  | 104   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.630 | 0.606 | 3.8   | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.187 | 0.196 | -4.8  | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.361 | 0.355 | 1.7   | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.357 | 0.351 | 1.7   | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.349 | 0.339 | 2.9   | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.418 | 0.452 | -8.1  | 114   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.372 | 0.372 | 0.0   | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.081 | 1.035 | 4.3   | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.391 | 0.382 | 2.3   | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.962 | 1.965 | -0.2# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.738 | 0.744 | -0.8  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 0.727 | 0.733 | -0.8  | 102   | 0.00     |
| 70 T  | Styrene                     | 1.140 | 1.205 | -5.7  | 102   | 0.00     |
| 71 P  | Bromoform                   | 0.266 | 0.275 | -3.4  | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.358 | 4.367 | -0.2  | 102   | 0.00     |
| 74 T  | N-amyl acetate              | 1.705 | 1.769 | -3.8  | 104   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.397 | 1.246 | 10.8  | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.261 | 1.174 | 6.9   | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.964 | 0.943 | 2.2   | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 4.970 | 5.097 | -2.6  | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.188 | 3.078 | 3.5   | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.653 | 3.723 | -1.9  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.382 | 0.379 | 0.8   | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.023 | 2.994 | 1.0   | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.121 | 3.119 | 0.1   | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.603 | 3.678 | -2.1  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.358 | 4.564 | -4.7  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.486 | 3.714 | -6.5  | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.761 | 1.728 | 1.9   | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.788 | 1.733 | 3.1   | 103   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.011 | 3.190 | -5.9  | 101   | 0.00     |
| 90 T  | Hexachloroethane            | 0.630 | 0.652 | -3.5  | 105   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.784 | 1.729 | 3.1   | 104   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.265 | 0.267 | -0.8  | 105   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.892 | 0.955 | -7.1  | 102   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.465 | 0.458 | 1.5   | 104   | 0.00     |
| 95 T  | Naphthalene                 | 2.859 | 3.249 | -13.6 | 103   | 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 | 0.877 | 0.920 | -4.9 | 100   | 0.00     |

(#) = Out of Range

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