

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032621\  
 Data File : VN066362.D  
 Acq On : 26 Mar 2021 20:16  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 27 01:51:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N032521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 26 16:26:01 2021  
 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   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.630 | 0.616 | 2.2   | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.739 | 0.694 | 6.1   | 102   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.721 | 0.732 | -1.5# | 100   | 0.00     |
| 5 T   | Bromomethane                | 0.483 | 0.511 | -5.8  | 102   | 0.00     |
| 6 T   | Chloroethane                | 0.449 | 0.468 | -4.2  | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.991 | 1.023 | -3.2  | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.404 | 0.403 | 0.2   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.560 | 0.568 | -1.4  | 99    | 0.00     |
| 10 T  | Methyl Iodide               | 0.794 | 0.856 | -7.8  | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.101 | 0.111 | -9.9  | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.573 | 0.577 | -0.7# | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.066 | 0.048 | 27.3# | 87    | 0.00     |
| 14 T  | Allyl chloride              | 1.133 | 1.188 | -4.9  | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 0.283 | 0.289 | -2.1  | 97    | 0.00     |
| 16 T  | Acetone                     | 0.359 | 0.321 | 10.6  | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.692 | 1.703 | -0.7  | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 0.938 | 0.983 | -4.8  | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.699 | 1.688 | 0.6   | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 0.692 | 0.692 | 0.0   | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.520 | 0.516 | 0.8   | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.768 | 1.744 | 1.4   | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.505 | 1.527 | -1.5  | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.976 | 0.973 | 0.3   | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 0.393 | 0.384 | 2.3   | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.870 | 0.796 | 8.5   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.606 | 0.599 | 1.2   | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.492 | 0.480 | 2.4   | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.256 | 0.252 | 1.6   | 91    | 0.00     |
| 30 C  | Chloroform                  | 0.976 | 0.970 | 0.6#  | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 0.920 | 0.865 | 6.0   | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.857 | 0.854 | 0.4   | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.665 | 0.667 | -0.3  | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.331 | 0.335 | -1.2  | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.470 | 0.462 | 1.7   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.517 | 0.518 | -0.2  | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.472 | 0.465 | 1.5   | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.573 | 0.553 | 3.5   | 94    | 0.00     |
| 40 TM | Benzene                     | 1.419 | 1.434 | -1.1  | 98    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.257 | 0.232 | 9.7   | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.508 | 0.496 | 2.4   | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.884 | 0.874 | 1.1   | 95    | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.378 | -1.3  | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.378 | 0.379 | -0.3# | 98    | 0.00     |
| 46 T  | Dibromomethane              | 0.248 | 0.252 | -1.6  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.512 | 0.516 | -0.8  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.420 | 0.419 | 0.2   | 95    | 0.00     |

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Instrument :  
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 LabSampleId :  
 VSTDCCC050

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 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                 | 0.005 | 0.006 | -20.0   | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 1.257 | 1.300 | -3.4    | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.516 | 0.528 | -2.3    | 95    | 0.00     |
| 52 CM | Toluene                     | 0.871 | 0.903 | -3.7#   | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.556 | 0.563 | -1.3    | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.597 | 0.603 | -1.0    | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.350 | 0.357 | -2.0    | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.537 | 0.560 | -4.3    | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.581 | 0.590 | -1.5    | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.048 | 0.113 | -135.4# | 217#  | 0.00     |
| 59 T  | 2-Hexanone                  | 0.362 | 0.380 | -5.0    | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.389 | 0.411 | -5.7    | 99    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.365 | 0.377 | -3.3    | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.437 | 0.462 | -5.7    | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0     | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.426 | 0.385 | 9.6     | 92    | 0.00     |
| 65 PM | Chlorobenzene               | 0.997 | 1.015 | -1.8    | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.384 | 0.385 | -0.3    | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.809 | 1.850 | -2.3#   | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.688 | 0.699 | -1.6    | 100   | 0.00     |
| 69 T  | o-Xylene                    | 0.663 | 0.681 | -2.7    | 102   | 0.00     |
| 70 T  | Styrene                     | 1.076 | 1.127 | -4.7    | 100   | 0.00     |
| 71 P  | Bromoform                   | 0.319 | 0.339 | -6.3    | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0     | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.719 | 3.886 | -4.5    | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 1.307 | 1.500 | -14.8   | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.184 | 1.211 | -2.3    | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.097 | 1.097 | 0.0     | 96    | 0.00     |
| 77 T  | Bromobenzene                | 0.939 | 0.989 | -5.3    | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 4.044 | 4.304 | -6.4    | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.487 | 2.545 | -2.3    | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.042 | 3.124 | -2.7    | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.365 | 0.417 | -14.2   | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.475 | 2.574 | -4.0    | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.619 | 2.680 | -2.3    | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.956 | 3.048 | -3.1    | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.393 | 3.572 | -5.3    | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.039 | 3.143 | -3.4    | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.576 | 1.583 | -0.4    | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.636 | 1.631 | 0.3     | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.510 | 2.603 | -3.7    | 93    | 0.00     |
| 90 T  | Hexachloroethane            | 0.548 | 0.579 | -5.7    | 100   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.549 | 1.529 | 1.3     | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.227 | 0.224 | 1.3     | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.961 | 0.949 | 1.2     | 92    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.524 | 0.461 | 12.0    | 84    | 0.00     |
| 95 T  | Naphthalene                 | 2.899 | 2.771 | 4.4     | 94    | 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 | 0.966 | 0.922 | 4.6  | 93    | 0.00     |

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