

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100322\  
 Data File : VN074721.D  
 Acq On : 03 Oct 2022 21:28  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 04 06:16:06 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100322W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 04 05:54:56 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    | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 1.032 | 1.136 | -10.1  | 100   | 0.00     |
| 3 P   | Chloromethane               | 1.793 | 1.706 | 4.9    | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 2.992 | 3.137 | -4.8#  | 100   | 0.00     |
| 5 T   | Bromomethane                | 2.330 | 2.652 | -13.8  | 103   | 0.00     |
| 6 T   | Chloroethane                | 2.397 | 2.608 | -8.8   | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.611 | 1.715 | -6.5   | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 0.710 | 0.731 | -3.0   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.904 | 0.970 | -7.3   | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 1.101 | 1.248 | -13.4  | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.274 | 0.314 | -14.6  | 106   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.900 | 0.918 | -2.0#  | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.126 | 0.120 | 4.8    | 107   | 0.00     |
| 14 T  | Allyl chloride              | 1.847 | 1.996 | -8.1   | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 0.781 | 0.865 | -10.8  | 101   | 0.00     |
| 16 T  | Acetone                     | 0.670 | 0.712 | -6.3   | 103   | 0.00     |
| 17 T  | Carbon Disulfide            | 2.637 | 2.708 | -2.7   | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 2.284 | 2.394 | -4.8   | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 3.579 | 4.006 | -11.9  | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 1.249 | 1.159 | 7.2    | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.975 | 1.085 | -11.3  | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 4.071 | 4.495 | -10.4  | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 3.090 | 3.813 | -23.4  | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 2.018 | 2.274 | -12.7  | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 1.190 | 1.273 | -7.0   | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.529 | 1.535 | -0.4   | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 1.218 | 1.327 | -8.9   | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 0.967 | 1.119 | -15.7  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.784 | 0.892 | -13.8  | 102   | 0.00     |
| 30 C  | Chloroform                  | 1.974 | 2.299 | -16.5# | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 1.941 | 2.051 | -5.7   | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.698 | 1.878 | -10.6  | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 1.256 | 1.389 | -10.6  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.538 | 0.571 | -6.1   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.875 | 0.949 | -8.5   | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 1.229 | 1.357 | -10.4  | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.774 | 0.834 | -7.8   | 102   | -0.01    |
| 39 T  | Methylcyclohexane           | 1.060 | 1.196 | -12.8  | 101   | 0.00     |
| 40 TM | Benzene                     | 2.669 | 3.015 | -13.0  | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.597 | 0.587 | 1.7    | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.914 | 1.048 | -14.7  | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.868 | 2.190 | -17.2  | 100   | 0.00     |
| 44 TM | Trichloroethene             | 0.589 | 0.610 | -3.6   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.708 | 0.794 | -12.1# | 103   | 0.00     |
| 46 T  | Dibromomethane              | 0.489 | 0.507 | -3.7   | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.898 | 1.006 | -12.0  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.856 | 0.948 | -10.7  | 96    | 0.00     |

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 ALS Vial : 19 Sample Multiplier: 1

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 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                 | 0.016 | 0.018 | -12.5  | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 2.209 | 2.400 | -8.6   | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 1.346 | 1.565 | -16.3  | 103   | 0.00     |
| 52 CM | Toluene                     | 1.624 | 1.904 | -17.2# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.885 | 1.073 | -21.2  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.990 | 1.177 | -18.9  | 101   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.653 | 0.748 | -14.5  | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 1.028 | 1.231 | -19.7  | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 1.174 | 1.293 | -10.1  | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.397 | 0.458 | -15.4  | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 1.008 | 1.191 | -18.2  | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.598 | 0.712 | -19.1  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.646 | 0.743 | -15.0  | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.645 | 0.772 | -19.7  | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.408 | 0.446 | -9.3   | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.518 | 1.710 | -12.6  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.501 | 0.594 | -18.6  | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 2.829 | 3.275 | -15.8# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 1.054 | 1.283 | -21.7  | 102   | 0.00     |
| 69 T  | o-Xylene                    | 1.058 | 1.268 | -19.8  | 102   | 0.00     |
| 70 T  | Styrene                     | 1.689 | 2.145 | -27.0# | 101   | 0.00     |
| 71 P  | Bromoform                   | 0.369 | 0.458 | -24.1  | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.620 | 5.009 | -8.4   | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 2.284 | 2.605 | -14.1  | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.762 | 1.816 | -3.1   | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.355 | 1.461 | -7.8   | 119   | 0.00     |
| 77 T  | Bromobenzene                | 0.988 | 1.026 | -3.8   | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 5.289 | 5.957 | -12.6  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.117 | 3.405 | -9.2   | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.688 | 4.182 | -13.4  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.433 | 0.488 | -12.7  | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.014 | 3.368 | -11.7  | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.299 | 3.667 | -11.2  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.552 | 4.332 | -22.0  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.704 | 5.343 | -13.6  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.606 | 4.286 | -18.9  | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.877 | 2.089 | -11.3  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.839 | 2.059 | -12.0  | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.257 | 3.767 | -15.7  | 102   | 0.00     |
| 90 T  | Hexachloroethane            | 0.612 | 0.683 | -11.6  | 101   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.826 | 2.071 | -13.4  | 100   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.324 | 0.356 | -9.9   | 103   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.805 | 0.891 | -10.7  | 100   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.407 | 0.409 | -0.5   | 103   | 0.00     |
| 95 T  | Naphthalene                 | 3.059 | 3.653 | -19.4  | 100   | 0.00     |

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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 | 0.849 | 0.923 | -8.7 | 102   | 0.00     |

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