

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042723\  
 Data File : VN077484.D  
 Acq On : 27 Apr 2023 09:15  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 28 03:20:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:50:59 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   | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.598 | 0.568 | 5.0   | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.501 | 0.448 | 10.6  | 98    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.668 | 0.620 | 7.2#  | 98    | 0.00     |
| 5 T   | Bromomethane                | 0.578 | 0.503 | 13.0  | 96    | 0.00     |
| 6 T   | Chloroethane                | 0.507 | 0.449 | 11.4  | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.981 | 0.944 | 3.8   | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 0.357 | 0.336 | 5.9   | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.571 | 0.554 | 3.0   | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 0.701 | 0.643 | 8.3   | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.105 | 0.089 | 15.2  | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.558 | 0.513 | 8.1#  | 101   | 0.00     |
| 13 T  | Acrolein                    | 0.104 | 0.095 | 8.7   | 104   | 0.00     |
| 14 T  | Allyl chloride              | 0.620 | 0.562 | 9.4   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.238 | 0.223 | 6.3   | 100   | 0.00     |
| 16 T  | Acetone                     | 0.208 | 0.240 | -15.4 | 134   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.418 | 1.270 | 10.4  | 97    | 0.00     |
| 18 T  | Methyl Acetate              | 0.802 | 0.722 | 10.0  | 99    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.856 | 1.830 | 1.4   | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 0.658 | 0.603 | 8.4   | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.603 | 0.583 | 3.3   | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.424 | 1.386 | 2.7   | 104   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.889 | 0.843 | 5.2   | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.008 | 0.989 | 1.9   | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 0.294 | 0.286 | 2.7   | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.977 | 0.994 | -1.7  | 107   | -0.01    |
| 27 T  | cis-1,2-Dichloroethene      | 0.715 | 0.689 | 3.6   | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 0.385 | 0.439 | -14.0 | 110   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.184 | 0.164 | 10.9  | 96    | 0.00     |
| 30 C  | Chloroform                  | 1.136 | 1.145 | -0.8# | 108   | 0.00     |
| 31 T  | Cyclohexane                 | 0.924 | 0.829 | 10.3  | 101   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.044 | 1.064 | -1.9  | 104   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.652 | 0.717 | -10.0 | 116   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.301 | 0.336 | -11.6 | 118   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.434 | 0.439 | -1.2  | 104   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.330 | 0.295 | 10.6  | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.479 | 0.478 | 0.2   | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.572 | 0.577 | -0.9  | 102   | 0.00     |
| 40 TM | Benzene                     | 1.323 | 1.298 | 1.9   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.172 | 0.159 | 7.6   | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.454 | 0.446 | 1.8   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.571 | 0.537 | 6.0   | 98    | 0.00     |
| 44 TM | Trichloroethene             | 0.339 | 0.346 | -2.1  | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.310 | 0.308 | 0.6#  | 104   | 0.00     |
| 46 T  | Dibromomethane              | 0.251 | 0.244 | 2.8   | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.486 | 0.495 | -1.9  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.260 | 0.237 | 8.8   | 97    | 0.00     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 28 03:20:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:50:59 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.006 | 14.3  | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 1.152 | 1.313 | -14.0 | 116   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.335 | 0.298 | 11.0  | 95    | 0.00     |
| 52 CM | Toluene                     | 0.866 | 0.891 | -2.9# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.492 | 0.526 | -6.9  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.536 | 0.555 | -3.5  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.348 | 0.340 | 2.3   | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.488 | 0.496 | -1.6  | 104   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.555 | 0.569 | -2.5  | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.165 | 0.167 | -1.2  | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.243 | 0.235 | 3.3   | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.362 | 0.379 | -4.7  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.356 | 0.353 | 0.8   | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.377 | 0.459 | -21.8 | 120   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.299 | 0.295 | 1.3   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 1.058 | 1.040 | 1.7   | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.385 | 0.384 | 0.3   | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.863 | 1.911 | -2.6# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.724 | 0.746 | -3.0  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.712 | 0.726 | -2.0  | 103   | 0.00     |
| 70 T  | Styrene                     | 1.114 | 1.203 | -8.0  | 106   | 0.00     |
| 71 P  | Bromoform                   | 0.252 | 0.262 | -4.0  | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.640 | 4.568 | 1.6   | 106   | 0.00     |
| 74 T  | N-amyl acetate              | 1.374 | 1.196 | 13.0  | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.458 | 1.266 | 13.2  | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.163 | 1.044 | 10.2  | 101   | 0.00     |
| 77 T  | Bromobenzene                | 1.011 | 0.912 | 9.8   | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 5.130 | 5.210 | -1.6  | 105   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.163 | 3.111 | 1.6   | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.446 | 3.801 | -10.3 | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.412 | 0.460 | -11.7 | 117   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.956 | 2.983 | -0.9  | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.346 | 3.236 | 3.3   | 105   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.218 | 3.657 | -13.6 | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.593 | 4.708 | -2.5  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.534 | 3.794 | -7.4  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.798 | 1.792 | 0.3   | 108   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.776 | 1.738 | 2.1   | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.735 | 3.256 | -19.0 | 108   | 0.00     |
| 90 T  | Hexachloroethane            | 0.781 | 0.761 | 2.6   | 106   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.784 | 1.744 | 2.2   | 105   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.270 | 0.236 | 12.6  | 100   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.475 | 0.564 | -18.7 | 99    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.360 | 0.377 | -4.7  | 110   | 0.00     |
| 95 T  | Naphthalene                 | 1.725 | 2.068 | -19.9 | 95    | 0.00     |

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MSVOA\_N  
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Quant Title : SW846 8260  
QLast Update : Tue Apr 25 02:50:59 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) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.467 | 0.520 | -11.3 | 97    | 0.00     |

(#) = Out of Range

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