

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\  
 Data File : VN062505.D  
 Acq On : 10 Jul 2020 20:22  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 11 03:17:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N070820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 00:55:52 2020  
 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 110   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.509 | 0.449 | 11.8  | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.817 | 0.677 | 17.1  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.670 | 0.585 | 12.7# | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.360 | 0.266 | 26.1# | 81    | -0.01    |
| 6 T   | Chloroethane                | 0.390 | 0.349 | 10.5  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.850 | 0.788 | 7.3   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.380 | 0.362 | 4.7   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.504 | 0.489 | 3.0   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 0.666 | 0.569 | 14.6  | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.128 | 0.126 | 1.6   | 108   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.513 | 0.479 | 6.6#  | 100   | 0.00     |
| 13 T  | Acrolein                    | 0.092 | 0.101 | -9.8  | 122   | 0.00     |
| 14 T  | Allyl chloride              | 1.207 | 1.086 | 10.0  | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 0.335 | 0.329 | 1.8   | 101   | 0.00     |
| 16 T  | Acetone                     | 0.327 | 0.264 | 19.3  | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.608 | 1.368 | 14.9  | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 0.815 | 0.768 | 5.8   | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.946 | 1.874 | 3.7   | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 0.698 | 0.613 | 12.2  | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.556 | 0.521 | 6.3   | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.385 | 2.246 | 5.8   | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.975 | 1.876 | 5.0   | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.232 | 1.160 | 5.8   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.477 | 0.440 | 7.8   | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.945 | 0.819 | 13.3  | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.644 | 0.625 | 3.0   | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 0.669 | 0.615 | 8.1   | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.321 | 0.301 | 6.2   | 98    | 0.00     |
| 30 C  | Chloroform                  | 1.113 | 1.072 | 3.7#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 1.168 | 1.016 | 13.0  | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.925 | 0.882 | 4.6   | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.769 | 0.739 | 3.9   | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 111   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.309 | 0.309 | 0.0   | 107   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.504 | 0.471 | 6.5   | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.589 | 0.551 | 6.5   | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.453 | 0.438 | 3.3   | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.538 | 0.520 | 3.3   | 99    | 0.00     |
| 40 TM | Benzene                     | 1.485 | 1.444 | 2.8   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.246 | 0.251 | -2.0  | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.544 | 0.526 | 3.3   | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.931 | 0.914 | 1.8   | 101   | 0.00     |
| 44 TM | Trichloroethene             | 0.329 | 0.320 | 2.7   | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.431 | 0.422 | 2.1#  | 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.243 | 0.235 | 3.3   | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.520 | 0.514 | 1.2   | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.456 | 0.441 | 3.3   | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.007 | 0.0   | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 1.220 | 1.225 | -0.4  | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.556 | 0.557 | -0.2  | 101   | 0.00     |
| 52 CM | Toluene                     | 0.858 | 0.854 | 0.5#  | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.583 | 0.578 | 0.9   | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.643 | 0.623 | 3.1   | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.337 | 0.343 | -1.8  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.564 | 0.596 | -5.7  | 104   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.623 | 0.627 | -0.6  | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.200 | 0.213 | -6.5  | 108   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.403 | 0.407 | -1.0  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.366 | 0.375 | -2.5  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.340 | 0.346 | -1.8  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.446 | 0.462 | -3.6  | 111   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 112   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.297 | 0.284 | 4.4   | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 0.972 | 0.970 | 0.2   | 105   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.358 | 0.357 | 0.3   | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.824 | 1.819 | 0.3#  | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.646 | 0.652 | -0.9  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.629 | 0.644 | -2.4  | 107   | 0.00     |
| 70 T  | Styrene                     | 1.039 | 1.107 | -6.5  | 107   | 0.00     |
| 71 P  | Bromoform                   | 0.263 | 0.279 | -6.1  | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 116   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.869 | 3.672 | 5.1   | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 1.883 | 1.956 | -3.9  | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.301 | 1.252 | 3.8   | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.227 | 1.206 | 1.7   | 117   | 0.00     |
| 77 T  | Bromobenzene                | 0.880 | 1.006 | -14.3 | 129   | 0.00     |
| 78 T  | n-propylbenzene             | 4.520 | 4.375 | 3.2   | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.743 | 2.606 | 5.0   | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.172 | 3.164 | 0.3   | 110   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.458 | 0.399 | 12.9  | 97    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.785 | 2.732 | 1.9   | 108   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.692 | 2.621 | 2.6   | 108   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.153 | 3.142 | 0.3   | 110   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.567 | 3.517 | 1.4   | 108   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.078 | 3.144 | -2.1  | 110   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.517 | 1.528 | -0.7  | 110   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.561 | 1.519 | 2.7   | 108   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.718 | 2.830 | -4.1  | 114   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.606 | 0.595 | 1.8    | 108   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.467 | 1.493 | -1.8   | 110   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.237 | 0.249 | -5.1   | 112   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.661 | 0.839 | -26.9# | 125   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.390 | 0.396 | -1.5   | 112   | 0.00     |
| 95 T | Naphthalene                 | 1.865 | 2.752 | -47.6# | 150   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.688 | 0.834 | -21.2  | 125   | 0.00     |

(#) = Out of Range

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