

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN052920\  
 Data File : VN061556.D  
 Acq On : 29 May 2020 10:26  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 30 06:22:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:14:10 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.523 | 0.577 | -10.3 | 97    | 0.00     |
| 3 P   | Chloromethane               | 0.610 | 0.626 | -2.6  | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.836 | 0.891 | -6.6# | 101   | 0.00     |
| 5 T   | Bromomethane                | 0.480 | 0.522 | -8.8  | 102   | 0.00     |
| 6 T   | Chloroethane                | 0.538 | 0.569 | -5.8  | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.078 | 1.027 | 4.7   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.330 | 0.319 | 3.3   | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.478 | 0.486 | -1.7  | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 0.664 | 0.650 | 2.1   | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.079 | 0.085 | -7.6  | 105   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.511 | 0.490 | 4.1#  | 98    | 0.00     |
| 13 T  | Acrolein                    | 0.030 | 0.026 | 13.3  | 108   | 0.00     |
| 14 T  | Allyl chloride              | 0.668 | 0.672 | -0.6  | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 0.221 | 0.220 | 0.5   | 95    | 0.00     |
| 16 T  | Acetone                     | 0.211 | 0.173 | 18.0  | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.124 | 1.095 | 2.6   | 99    | 0.00     |
| 18 T  | Methyl Acetate              | 0.539 | 0.517 | 4.1   | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.741 | 1.735 | 0.3   | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.730 | 0.565 | 22.6  | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.576 | 0.574 | 0.3   | 102   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.472 | 1.530 | -3.9  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.173 | 1.185 | -1.0  | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.934 | 0.953 | -2.0  | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 0.282 | 0.277 | 1.8   | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.854 | 0.911 | -6.7  | 110   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.652 | 0.672 | -3.1  | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 0.403 | 0.405 | -0.5  | 109   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.186 | 0.181 | 2.7   | 95    | 0.00     |
| 30 C  | Chloroform                  | 1.033 | 1.074 | -4.0# | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 0.840 | 0.858 | -2.1  | 101   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.941 | 0.981 | -4.3  | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.596 | 0.607 | -1.8  | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.254 | 0.267 | -5.1  | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.443 | 0.467 | -5.4  | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.357 | 0.356 | 0.3   | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.427 | 0.471 | -10.3 | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.546 | 0.593 | -8.6  | 105   | 0.00     |
| 40 TM | Benzene                     | 1.366 | 1.408 | -3.1  | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.163 | 0.167 | -2.5  | 111   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.457 | 0.474 | -3.7  | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.641 | 0.638 | 0.5   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.420 | 0.432 | -2.9  | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.324 | 0.337 | -4.0# | 101   | 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              | 0.249 | 0.254 | -2.0  | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.493 | 0.520 | -5.5  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.289 | 0.280 | 3.1   | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.004 | 0.005 | -25.0 | 123   | 0.00     |
| 50 S  | Toluene-d8                  | 1.175 | 1.226 | -4.3  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.361 | 0.363 | -0.6  | 96    | 0.00     |
| 52 CM | Toluene                     | 0.891 | 0.948 | -6.4# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.531 | 0.558 | -5.1  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.571 | 0.601 | -5.3  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.355 | 0.367 | -3.4  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.496 | 0.523 | -5.4  | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.568 | 0.586 | -3.2  | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.212 | 0.236 | -11.3 | 107   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.260 | 0.259 | 0.4   | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.404 | 0.430 | -6.4  | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.370 | 0.392 | -5.9  | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.429 | 0.449 | -4.7  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.471 | 0.487 | -3.4  | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 1.039 | 1.092 | -5.1  | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.387 | 0.404 | -4.4  | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.796 | 1.921 | -7.0# | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.712 | 0.766 | -7.6  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 0.677 | 0.723 | -6.8  | 103   | 0.00     |
| 70 T  | Styrene                     | 1.120 | 1.229 | -9.7  | 103   | 0.00     |
| 71 P  | Bromoform                   | 0.298 | 0.308 | -3.4  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.649 | 3.793 | -3.9  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 1.149 | 1.156 | -0.6  | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.023 | 0.982 | 4.0   | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.909 | 0.898 | 1.2   | 102   | 0.00     |
| 77 T  | Bromobenzene                | 0.932 | 0.953 | -2.3  | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 4.074 | 4.314 | -5.9  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.429 | 2.504 | -3.1  | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.050 | 3.216 | -5.4  | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.356 | 0.351 | 1.4   | 97    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.556 | 2.633 | -3.0  | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.695 | 2.786 | -3.4  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.030 | 3.243 | -7.0  | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.473 | 3.690 | -6.2  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.198 | 3.456 | -8.1  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.650 | 1.749 | -6.0  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.680 | 1.742 | -3.7  | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.679 | 2.920 | -9.0  | 108   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.354 | 0.414 | -16.9 | 118   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.576 | 1.655 | -5.0  | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.209 | 0.192 | 8.1   | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.922 | 0.970 | -5.2  | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.393 | 0.412 | -4.8  | 107   | 0.00     |
| 95 T | Naphthalene                 | 2.806 | 2.856 | -1.8  | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.906 | 0.922 | -1.8  | 97    | 0.00     |

(#) = Out of Range

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