

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN090120\  
 Data File : VN063180.D  
 Acq On : 2 Sep 2020 1:16  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 02 05:41:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N083120W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 01 04:21:28 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.492 | 0.436 | 11.4  | 93    | 0.00     |
| 3 P   | Chloromethane               | 0.717 | 0.618 | 13.8  | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.792 | 0.692 | 12.6# | 90    | 0.00     |
| 5 T   | Bromomethane                | 0.667 | 0.594 | 10.9  | 91    | 0.00     |
| 6 T   | Chloroethane                | 0.630 | 0.609 | 3.3   | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.185 | 0.980 | 17.3  | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.379 | 0.348 | 8.2   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.538 | 0.510 | 5.2   | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 0.734 | 0.642 | 12.5  | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.100 | 0.100 | 0.0   | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.549 | 0.512 | 6.7#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.035 | 0.021 | 40.0# | 58    | 0.00     |
| 14 T  | Allyl chloride              | 0.974 | 0.919 | 5.6   | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 0.258 | 0.278 | -7.8  | 99    | 0.00     |
| 16 T  | Acetone                     | 0.232 | 0.243 | -4.7  | 103   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.633 | 1.470 | 10.0  | 93    | 0.00     |
| 18 T  | Methyl Acetate              | 0.596 | 0.643 | -7.9  | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.035 | 1.947 | 4.3   | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 0.705 | 0.620 | 12.1  | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.606 | 0.589 | 2.8   | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.183 | 2.113 | 3.2   | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.742 | 1.778 | -2.1  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.204 | 1.142 | 5.1   | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 0.360 | 0.390 | -8.3  | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.090 | 0.783 | 28.2# | 75    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.737 | 0.707 | 4.1   | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 0.629 | 0.561 | 10.8  | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.249 | 0.258 | -3.6  | 98    | 0.00     |
| 30 C  | Chloroform                  | 1.259 | 1.221 | 3.0#  | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 1.121 | 0.984 | 12.2  | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.085 | 1.071 | 1.3   | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.817 | 0.819 | -0.2  | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.321 | 0.320 | 0.3   | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.481 | 0.468 | 2.7   | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.411 | 0.458 | -11.4 | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.487 | 0.472 | 3.1   | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.540 | 0.501 | 7.2   | 92    | 0.00     |
| 40 TM | Benzene                     | 1.413 | 1.407 | 0.4   | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.202 | 0.217 | -7.4  | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.528 | 0.537 | -1.7  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.784 | 0.808 | -3.1  | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.343 | 0.364 | -6.1  | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.374 | 0.364 | 2.7#  | 96    | 0.00     |

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|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.248 | 0.251 | -1.2  | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.531 | 0.526 | 0.9   | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.353 | 0.377 | -6.8  | 97    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.005 | 0.005 | 0.0   | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 1.235 | 1.260 | -2.0  | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.426 | 0.475 | -11.5 | 101   | 0.00     |
| 52 CM | Toluene                     | 0.880 | 0.893 | -1.5# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.581 | 0.548 | 5.7   | 87    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.610 | 0.586 | 3.9   | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.337 | 0.346 | -2.7  | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.513 | 0.535 | -4.3  | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.600 | 0.609 | -1.5  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.266 | 0.251 | 5.6   | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.299 | 0.344 | -15.1 | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.373 | 0.383 | -2.7  | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.350 | 0.366 | -4.6  | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.432 | 0.442 | -2.3  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.359 | 0.396 | -10.3 | 116   | 0.00     |
| 65 PM | Chlorobenzene               | 1.007 | 0.990 | 1.7   | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.370 | 1.1   | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.837 | 1.865 | -1.5# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.680 | 0.691 | -1.6  | 99    | 0.00     |
| 69 T  | o-Xylene                    | 0.657 | 0.671 | -2.1  | 99    | 0.00     |
| 70 T  | Styrene                     | 1.130 | 1.154 | -2.1  | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.254 | 0.261 | -2.8  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.835 | 3.841 | -0.2  | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 1.588 | 1.642 | -3.4  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.106 | 1.057 | 4.4   | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.982 | 0.947 | 3.6   | 96    | 0.00     |
| 77 T  | Bromobenzene                | 0.867 | 0.855 | 1.4   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 4.438 | 4.458 | -0.5  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.658 | 2.613 | 1.7   | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.192 | 3.219 | -0.8  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.406 | 0.344 | 15.3  | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.757 | 2.739 | 0.7   | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.738 | 2.657 | 3.0   | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.217 | 3.300 | -2.6  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.568 | 3.627 | -1.7  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.168 | 3.242 | -2.3  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.593 | 1.596 | -0.2  | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.650 | 1.581 | 4.2   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.926 | 2.895 | 1.1   | 96    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.586 | 0.526 | 10.2 | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.546 | 1.599 | -3.4 | 101   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.243 | 0.242 | 0.4  | 101   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.864 | 0.857 | 0.8  | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.323 | 0.308 | 4.6  | 99    | 0.00     |
| 95 T | Naphthalene                 | 2.882 | 2.850 | 1.1  | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.842 | 0.805 | 4.4  | 97    | 0.00     |

(#) = Out of Range

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