

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN120420\  
 Data File : VN064909.D  
 Acq On : 4 Dec 2020 10:51  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 05 01:46:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 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   | 124   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.433 | 0.365 | 15.7  | 111   | 0.00     |
| 3 P   | Chloromethane               | 0.563 | 0.469 | 16.7  | 110   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.587 | 0.509 | 13.3# | 115   | 0.00     |
| 5 T   | Bromomethane                | 0.385 | 0.347 | 9.9   | 119   | 0.00     |
| 6 T   | Chloroethane                | 0.363 | 0.327 | 9.9   | 117   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.812 | 0.768 | 5.4   | 124   | 0.00     |
| 8 T   | Diethyl Ether               | 0.320 | 0.299 | 6.6   | 120   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.487 | 0.476 | 2.3   | 126   | 0.00     |
| 10 T  | Methyl Iodide               | 0.631 | 0.582 | 7.8   | 115   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.091 | 0.074 | 18.7  | 102   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.485 | 0.455 | 6.2#  | 122   | 0.00     |
| 13 T  | Acrolein                    | 0.055 | 0.048 | 12.7  | 110   | 0.00     |
| 14 T  | Allyl chloride              | 0.800 | 0.744 | 7.0   | 120   | 0.00     |
| 15 T  | Acrylonitrile               | 0.250 | 0.233 | 6.8   | 114   | 0.00     |
| 16 T  | Acetone                     | 0.191 | 0.172 | 9.9   | 113   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.397 | 1.097 | 21.5  | 112   | 0.00     |
| 18 T  | Methyl Acetate              | 0.575 | 0.543 | 5.6   | 122   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.555 | 1.547 | 0.5   | 122   | 0.00     |
| 20 T  | Methylene Chloride          | 0.599 | 0.547 | 8.7   | 125   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.538 | 0.496 | 7.8   | 121   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.601 | 1.586 | 0.9   | 122   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.280 | 1.271 | 0.7   | 120   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.957 | 0.936 | 2.2   | 123   | 0.00     |
| 25 T  | 2-Butanone                  | 0.310 | 0.290 | 6.5   | 111   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.830 | 0.815 | 1.8   | 126   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.606 | 0.594 | 2.0   | 125   | 0.00     |
| 28 T  | Bromochloromethane          | 0.438 | 0.373 | 14.8  | 108   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.214 | 0.190 | 11.2  | 107   | 0.00     |
| 30 C  | Chloroform                  | 0.986 | 0.952 | 3.4#  | 124   | 0.00     |
| 31 T  | Cyclohexane                 | 0.810 | 0.714 | 11.9  | 117   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.847 | 0.813 | 4.0   | 122   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.581 | 0.557 | 4.1   | 125   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 119   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.299 | 0.326 | -9.0  | 135   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.463 | 0.466 | -0.6  | 121   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.446 | 0.413 | 7.4   | 110   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.482 | 0.492 | -2.1  | 122   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.499 | 0.491 | 1.6   | 119   | 0.00     |
| 40 TM | Benzene                     | 1.420 | 1.443 | -1.6  | 123   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.206 | 0.216 | -4.9  | 138   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.479 | 0.473 | 1.3   | 121   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.718 | 0.698 | 2.8   | 114   | 0.00     |
| 44 TM | Trichloroethene             | 0.419 | 0.421 | -0.5  | 124   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.368 | 0.388 | -5.4# | 127   | 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.246 | 0.248 | -0.8  | 122   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.494 | 0.514 | -4.0  | 124   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.343 | 0.342 | 0.3   | 114   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.006 | 0.0   | 103   | 0.00     |
| 50 S  | Toluene-d8                  | 1.222 | 1.251 | -2.4  | 126   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.431 | 0.422 | 2.1   | 112   | 0.00     |
| 52 CM | Toluene                     | 0.875 | 0.914 | -4.5# | 124   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.551 | 0.571 | -3.6  | 125   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.590 | 0.632 | -7.1  | 126   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.360 | 0.363 | -0.8  | 125   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.496 | 0.527 | -6.3  | 119   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.593 | 0.601 | -1.3  | 121   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.273 | 0.263 | 3.7   | 107   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.310 | 0.310 | 0.0   | 113   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.400 | 0.417 | -4.2  | 122   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.365 | 0.378 | -3.6  | 123   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.437 | 0.448 | -2.5  | 127   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 118   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.486 | 0.480 | 1.2   | 120   | 0.00     |
| 65 PM | Chlorobenzene               | 1.074 | 1.113 | -3.6  | 127   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.395 | 0.414 | -4.8  | 124   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.794 | 1.878 | -4.7# | 122   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.679 | 0.733 | -8.0  | 125   | 0.00     |
| 69 T  | o-Xylene                    | 0.644 | 0.703 | -9.2  | 125   | 0.00     |
| 70 T  | Styrene                     | 1.088 | 1.211 | -11.3 | 126   | 0.00     |
| 71 P  | Bromoform                   | 0.315 | 0.322 | -2.2  | 122   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 119   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.478 | 3.718 | -6.9  | 124   | 0.00     |
| 74 T  | N-amyl acetate              | 1.369 | 1.373 | -0.3  | 114   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.019 | 1.006 | 1.3   | 120   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.077 | 1.099 | -2.0  | 120   | 0.00     |
| 77 T  | Bromobenzene                | 0.938 | 0.961 | -2.5  | 125   | 0.00     |
| 78 T  | n-propylbenzene             | 3.962 | 4.176 | -5.4  | 121   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.449 | 2.498 | -2.0  | 122   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.891 | 3.124 | -8.1  | 122   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.393 | 0.391 | 0.5   | 113   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.567 | 2.658 | -3.5  | 124   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.423 | 2.599 | -7.3  | 124   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.923 | 3.198 | -9.4  | 125   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.217 | 3.390 | -5.4  | 121   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.929 | 3.202 | -9.3  | 122   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.666 | 1.705 | -2.3  | 125   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.762 | 1.708 | 3.1   | 123   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.572 | 2.663 | -3.5  | 121   | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.509 | 0.535 | -5.1 | 120   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.636 | 1.661 | -1.5 | 124   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.229 | 0.206 | 10.0 | 108   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.012 | 0.977 | 3.5  | 121   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.506 | 0.457 | 9.7  | 123   | 0.00     |
| 95 T | Naphthalene                 | 3.031 | 2.870 | 5.3  | 115   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.994 | 0.913 | 8.1  | 117   | 0.00     |

(#) = Out of Range

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