

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN112919\  
 Data File : VN059436.D  
 Acq On : 29 Nov 2019 10:12  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 29 22:34:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112719W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 27 16:56:05 2019  
 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    | 115   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.588 | 0.528 | 10.2   | 99    | 0.00     |
| 3 P   | Chloromethane               | 0.719 | 0.625 | 13.1   | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.691 | 0.604 | 12.6#  | 100   | 0.00     |
| 5 T   | Bromomethane                | 0.416 | 0.353 | 15.1   | 99    | 0.00     |
| 6 T   | Chloroethane                | 0.387 | 0.341 | 11.9   | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.823 | 0.713 | 13.4   | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 0.335 | 0.295 | 11.9   | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.507 | 0.446 | 12.0   | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 0.660 | 0.590 | 10.6   | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.101 | 0.088 | 12.9   | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.496 | 0.441 | 11.1#  | 101   | 0.00     |
| 13 T  | Acrolein                    | 0.099 | 0.067 | 32.3#  | 72    | 0.00     |
| 14 T  | Allyl chloride              | 0.920 | 0.805 | 12.5   | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 0.283 | 0.245 | 13.4   | 99    | 0.00     |
| 16 T  | Acetone                     | 0.279 | 0.295 | -5.7   | 114   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.703 | 1.417 | 16.8   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 0.760 | 0.607 | 20.1   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.599 | 1.447 | 9.5    | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 0.567 | 0.486 | 14.3   | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.541 | 0.475 | 12.2   | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.710 | 1.554 | 9.1    | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.380 | 1.279 | 7.3    | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.984 | 0.884 | 10.2   | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 0.384 | 0.357 | 7.0    | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.837 | 0.749 | 10.5   | 102   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.591 | 0.526 | 11.0   | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 0.340 | 0.446 | -31.2# | 121   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.255 | 0.220 | 13.7   | 101   | 0.00     |
| 30 C  | Chloroform                  | 0.990 | 0.870 | 12.1#  | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 0.987 | 0.841 | 14.8   | 102   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.810 | 0.720 | 11.1   | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.586 | 0.577 | 1.5    | 114   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 114   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.305 | 0.311 | -2.0   | 115   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.481 | 0.433 | 10.0   | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.509 | 0.437 | 14.1   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.454 | 0.415 | 8.6    | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.575 | 0.530 | 7.8    | 100   | 0.00     |
| 40 TM | Benzene                     | 1.428 | 1.282 | 10.2   | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.237 | 0.212 | 10.5   | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.453 | 0.411 | 9.3    | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.773 | 0.695 | 10.1   | 102   | 0.00     |
| 44 TM | Trichloroethene             | 0.364 | 0.331 | 9.1    | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.373 | 0.342 | 8.3#   | 102   | 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              | 0.230 | 0.206 | 10.4 | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.466 | 0.423 | 9.2  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.343 | 0.308 | 10.2 | 102   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.005 | 0.005 | 0.0  | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 1.214 | 1.223 | -0.7 | 113   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.448 | 0.414 | 7.6  | 101   | 0.00     |
| 52 CM | Toluene                     | 0.853 | 0.779 | 8.7# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.536 | 0.492 | 8.2  | 100   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.578 | 0.540 | 6.6  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.334 | 0.299 | 10.5 | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.487 | 0.461 | 5.3  | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.577 | 0.522 | 9.5  | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.143 | 0.118 | 17.5 | 72    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.332 | 0.315 | 5.1  | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.348 | 0.329 | 5.5  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.342 | 0.308 | 9.9  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.423 | 0.433 | -2.4 | 113   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 113   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.370 | 0.331 | 10.5 | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.012 | 0.910 | 10.1 | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.367 | 0.338 | 7.9  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.778 | 1.653 | 7.0# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.664 | 0.614 | 7.5  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.637 | 0.581 | 8.8  | 99    | 0.00     |
| 70 T  | Styrene                     | 0.998 | 0.947 | 5.1  | 99    | 0.00     |
| 71 P  | Bromoform                   | 0.280 | 0.259 | 7.5  | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 111   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.704 | 3.370 | 9.0  | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 1.393 | 1.290 | 7.4  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.208 | 1.052 | 12.9 | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.131 | 1.003 | 11.3 | 106   | 0.00     |
| 77 T  | Bromobenzene                | 0.907 | 0.823 | 9.3  | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 4.268 | 3.937 | 7.8  | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.552 | 2.293 | 10.1 | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.114 | 2.857 | 8.3  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.440 | 0.390 | 11.4 | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.626 | 2.371 | 9.7  | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.674 | 2.422 | 9.4  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.050 | 2.825 | 7.4  | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.550 | 3.258 | 8.2  | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.210 | 2.951 | 8.1  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.607 | 1.441 | 10.3 | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.613 | 1.413 | 12.4 | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.806 | 2.558 | 8.8  | 99    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.613 | 0.539 | 12.1  | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.575 | 1.386 | 12.0  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.274 | 0.198 | 27.7# | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.979 | 0.823 | 15.9  | 98    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.600 | 0.505 | 15.8  | 100   | 0.00     |
| 95 T | Naphthalene                 | 2.766 | 2.110 | 23.7  | 101   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.043 | 0.822 | 21.2  | 99    | 0.00     |

(#) = Out of Range

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