

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN042219\  
 Data File : VN055179.D  
 Acq On : 22 Apr 2019 13:46  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN042219

Quant Time: Apr 23 06:13:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042219W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 05:52:53 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   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.644 | 0.693 | -7.6  | 101   | 0.00     |
| 3 P   | Chloromethane               | 0.789 | 0.778 | 1.4   | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.632 | 0.618 | 2.2#  | 97    | 0.00     |
| 5 T   | Bromomethane                | 0.367 | 0.322 | 12.3  | 96    | 0.00     |
| 6 T   | Chloroethane                | 0.333 | 0.320 | 3.9   | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.860 | 0.849 | 1.3   | 99    | 0.00     |
| 8 T   | Diethyl Ether               | 0.307 | 0.302 | 1.6   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.537 | 0.518 | 3.5   | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 0.753 | 0.768 | -2.0  | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.040 | 0.038 | 5.0   | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.514 | 0.501 | 2.5#  | 98    | 0.00     |
| 13 T  | Acrolein                    | 0.054 | 0.061 | -13.0 | 110   | 0.00     |
| 14 T  | Allyl chloride              | 1.017 | 0.996 | 2.1   | 98    | 0.00     |
| 15 T  | Acrylonitrile               | 0.217 | 0.219 | -0.9  | 100   | 0.00     |
| 16 T  | Acetone                     | 0.224 | 0.217 | 3.1   | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.438 | 1.423 | 1.0   | 97    | 0.00     |
| 18 T  | Methyl Acetate              | 0.605 | 0.486 | 19.7  | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.422 | 1.418 | 0.3   | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.643 | 0.577 | 10.3  | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.539 | 0.528 | 2.0   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.027 | 1.973 | 2.7   | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.362 | 1.445 | -6.1  | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.090 | 1.039 | 4.7   | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 0.289 | 0.289 | 0.0   | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.738 | 0.728 | 1.4   | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.622 | 0.598 | 3.9   | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 0.556 | 0.531 | 4.5   | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.178 | 0.181 | -1.7  | 102   | 0.00     |
| 30 C  | Chloroform                  | 1.037 | 0.979 | 5.6#  | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 1.252 | 1.034 | 17.4  | 101   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.833 | 0.804 | 3.5   | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.677 | 0.639 | 5.6   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.340 | 0.330 | 2.9   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.464 | 0.489 | -5.4  | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.375 | 0.380 | -1.3  | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.435 | 0.448 | -3.0  | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.554 | 0.569 | -2.7  | 101   | 0.00     |
| 40 TM | Benzene                     | 1.433 | 1.432 | 0.1   | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.196 | 0.205 | -4.6  | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.500 | 0.490 | 2.0   | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.606 | 0.649 | -7.1  | 100   | 0.00     |
| 44 TM | Trichloroethene             | 0.362 | 0.367 | -1.4  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.404 | 0.404 | 0.0   | 97    | 0.00     |

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|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.231 | 0.227 | 1.7   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.463 | 0.480 | -3.7  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.294 | 0.302 | -2.7  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 1.259 | 1.243 | 1.3   | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.349 | 0.366 | -4.9  | 101   | 0.00     |
| 52 CM | Toluene                     | 0.840 | 0.849 | -1.1# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.425 | 0.461 | -8.5  | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.528 | 0.564 | -6.8  | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.310 | 0.309 | 0.3   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.386 | 0.419 | -8.5  | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.539 | 0.547 | -1.5  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.124 | 0.145 | -16.9 | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.220 | 0.239 | -8.6  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.319 | 0.326 | -2.2  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.291 | 0.306 | -5.2  | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.399 | 0.416 | -4.3  | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.408 | 0.385 | 5.6   | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 1.021 | 0.973 | 4.7   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.378 | 0.366 | 3.2   | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.818 | 1.828 | -0.6# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.652 | 0.675 | -3.5  | 99    | 0.00     |
| 69 T  | o-Xylene                    | 0.647 | 0.653 | -0.9  | 98    | 0.00     |
| 70 T  | Styrene                     | 1.003 | 1.088 | -8.5  | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.226 | 0.236 | -4.4  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.800 | 4.002 | 16.6  | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 1.289 | 1.309 | -1.6  | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.270 | 1.025 | 19.3  | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.014 | 0.811 | 20.0  | 91    | 0.00     |
| 77 T  | Bromobenzene                | 1.104 | 0.960 | 13.0  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 5.014 | 4.548 | 9.3   | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.166 | 2.746 | 13.3  | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.743 | 3.403 | 9.1   | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.268 | 0.247 | 7.8   | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.913 | 2.660 | 8.7   | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.348 | 2.803 | 16.3  | 99    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.532 | 3.303 | 6.5   | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.235 | 3.694 | 12.8  | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.489 | 3.278 | 6.0   | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.694 | 1.647 | 2.8   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.650 | 1.578 | 4.4   | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.586 | 2.697 | -4.3  | 102   | 0.00     |

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|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.619 | 0.522 | 15.7  | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.740 | 1.589 | 8.7   | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.152 | 0.146 | 3.9   | 103   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.614 | 0.689 | -12.2 | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.623 | 0.535 | 14.1  | 102   | 0.00     |
| 95 T | Naphthalene                 | 1.298 | 1.425 | -9.8  | 97    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.639 | 0.686 | -7.4  | 97    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5