

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080819\  
 Data File : VN057120.D  
 Acq On : 8 Aug 2019 10:03  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 09 03:25:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080719W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 08 06:49:25 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   | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.402 | 0.375 | 6.7   | 101   | 0.00     |
| 3 P   | Chloromethane               | 0.534 | 0.489 | 8.4   | 101   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.496 | 0.492 | 0.8#  | 105   | 0.00     |
| 5 T   | Bromomethane                | 0.337 | 0.335 | 0.6   | 105   | 0.00     |
| 6 T   | Chloroethane                | 0.318 | 0.315 | 0.9   | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.713 | 0.700 | 1.8   | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 0.276 | 0.273 | 1.1   | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.432 | 0.428 | 0.9   | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 0.654 | 0.672 | -2.8  | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.073 | 0.064 | 12.3  | 93    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.425 | 0.431 | -1.4# | 105   | 0.00     |
| 13 T  | Acrolein                    | 0.046 | 0.041 | 10.9  | 97    | 0.00     |
| 14 T  | Allyl chloride              | 0.618 | 0.642 | -3.9  | 107   | 0.00     |
| 15 T  | Acrylonitrile               | 0.198 | 0.195 | 1.5   | 98    | 0.00     |
| 16 T  | Acetone                     | 0.155 | 0.192 | -23.9 | 128   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.132 | 1.175 | -3.8  | 107   | 0.00     |
| 18 T  | Methyl Acetate              | 0.606 | 0.446 | 26.4# | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.284 | 1.301 | -1.3  | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 0.513 | 0.498 | 2.9   | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.463 | 0.468 | -1.1  | 106   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.349 | 1.350 | -0.1  | 104   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.033 | 1.076 | -4.2  | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.829 | 0.819 | 1.2   | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 0.237 | 0.255 | -7.6  | 106   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.603 | 0.690 | -14.4 | 116   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.531 | 0.544 | -2.4  | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 0.381 | 0.380 | 0.3   | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.160 | 0.154 | 3.8   | 98    | 0.00     |
| 30 C  | Chloroform                  | 0.858 | 0.837 | 2.4#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 0.746 | 0.731 | 2.0   | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.720 | 0.721 | -0.1  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.514 | 0.506 | 1.6   | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.322 | -2.5  | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.412 | 0.445 | -8.0  | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.325 | 0.339 | -4.3  | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.429 | 0.441 | -2.8  | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.501 | 0.548 | -9.4  | 111   | 0.00     |
| 40 TM | Benzene                     | 1.303 | 1.345 | -3.2  | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.172 | 0.188 | -9.3  | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.416 | 0.411 | 1.2   | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.579 | 0.581 | -0.3  | 101   | 0.00     |
| 44 TM | Trichloroethene             | 0.365 | 0.376 | -3.0  | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.337 | 0.351 | -4.2# | 105   | 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              | 0.216 | 0.220 | -1.9  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.419 | 0.442 | -5.5  | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.273 | 0.271 | 0.7   | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.006 | 0.0   | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 1.200 | 1.246 | -3.8  | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.337 | 0.341 | -1.2  | 99    | 0.00     |
| 52 CM | Toluene                     | 0.809 | 0.855 | -5.7# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.437 | 0.489 | -11.9 | 108   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.502 | 0.556 | -10.8 | 108   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.318 | 0.324 | -1.9  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.445 | 0.473 | -6.3  | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.525 | 0.533 | -1.5  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.156 | 0.176 | -12.8 | 103   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.228 | 0.246 | -7.9  | 104   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.334 | 0.362 | -8.4  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.328 | 0.339 | -3.4  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.387 | 0.414 | -7.0  | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.416 | 0.418 | -0.5  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 1.006 | 1.027 | -2.1  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.376 | 0.392 | -4.3  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.731 | 1.817 | -5.0# | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.638 | 0.688 | -7.8  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.635 | 0.669 | -5.4  | 105   | 0.00     |
| 70 T  | Styrene                     | 0.992 | 1.102 | -11.1 | 105   | 0.00     |
| 71 P  | Bromoform                   | 0.276 | 0.298 | -8.0  | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.778 | 4.509 | 5.6   | 106   | 0.00     |
| 74 T  | N-amyl acetate              | 1.267 | 1.261 | 0.5   | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.369 | 1.181 | 13.7  | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.096 | 1.034 | 5.7   | 101   | 0.00     |
| 77 T  | Bromobenzene                | 1.202 | 1.141 | 5.1   | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 4.797 | 4.854 | -1.2  | 107   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.078 | 2.888 | 6.2   | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.860 | 3.704 | 4.0   | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.340 | 0.369 | -8.5  | 111   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.777 | 2.787 | -0.4  | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.566 | 3.235 | 9.3   | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.731 | 3.571 | 4.3   | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.356 | 4.206 | 3.4   | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.822 | 3.821 | 0.0   | 108   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.711 | 1.807 | -5.6  | 108   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.621 | 1.696 | -4.6  | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.641 | 2.819 | -6.7  | 108   | 0.00     |

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|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.685 | 0.674 | 1.6   | 110   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.709 | 1.728 | -1.1  | 105   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.176 | 0.163 | 7.4   | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.596 | 0.704 | -18.1 | 113   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.736 | 0.726 | 1.4   | 111   | 0.00     |
| 95 T | Naphthalene                 | 1.332 | 1.456 | -9.3  | 106   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.656 | 0.699 | -6.6  | 113   | 0.00     |

(#) = Out of Range

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