

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012119\  
 Data File : VN053494.D  
 Acq On : 21 Jan 2019 9:27  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 22 04:21:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 16 03:10:53 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   | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.402 | 0.388 | 3.5   | 82    | 0.00     |
| 3 P   | Chloromethane               | 0.575 | 0.512 | 11.0  | 79    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.554 | 0.516 | 6.9#  | 81    | 0.00     |
| 5 T   | Bromomethane                | 0.380 | 0.361 | 5.0   | 86    | 0.02     |
| 6 T   | Chloroethane                | 0.335 | 0.315 | 6.0   | 82    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.725 | 0.719 | 0.8   | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 0.272 | 0.247 | 9.2   | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.459 | 0.465 | -1.3  | 88    | 0.00     |
| 10 T  | Methyl Iodide               | 0.701 | 0.667 | 4.9   | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.024 | 0.019 | 20.8  | 74    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.445 | 0.430 | 3.4#  | 84    | 0.00     |
| 13 T  | Acrolein                    | 0.043 | 0.037 | 14.0  | 73    | 0.00     |
| 14 T  | Allyl chloride              | 0.723 | 0.706 | 2.4   | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 0.159 | 0.133 | 16.4  | 71    | 0.00     |
| 16 T  | Acetone                     | 0.116 | 0.115 | 0.9   | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.346 | 1.280 | 4.9   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 0.391 | 0.313 | 19.9  | 70    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.183 | 1.050 | 11.2  | 76    | 0.00     |
| 20 T  | Methylene Chloride          | 0.529 | 0.494 | 6.6   | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.476 | 0.467 | 1.9   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.509 | 1.476 | 2.2   | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.928 | 0.836 | 9.9   | 75    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.892 | 0.876 | 1.8   | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 0.179 | 0.153 | 14.5  | 73    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.674 | 0.667 | 1.0   | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.544 | 0.538 | 1.1   | 85    | 0.00     |
| 28 T  | Bromochloromethane          | 0.393 | 0.374 | 4.8   | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.116 | 0.091 | 21.6  | 67    | 0.00     |
| 30 C  | Chloroform                  | 0.869 | 0.869 | 0.0   | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 0.982 | 0.823 | 16.2  | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.738 | 0.729 | 1.2   | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.494 | 0.451 | 8.7   | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.285 | 0.296 | -3.9  | 84    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.455 | 0.478 | -5.1  | 85    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.262 | 0.223 | 14.9  | 67    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.431 | 0.457 | -6.0  | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.563 | 0.604 | -7.3  | 86    | 0.00     |
| 40 TM | Benzene                     | 1.384 | 1.417 | -2.4  | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.142 | 0.143 | -0.7  | 72    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.403 | 0.403 | 0.0   | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.471 | 0.407 | 13.6  | 68    | 0.00     |
| 44 TM | Trichloroethene             | 0.384 | 0.410 | -6.8  | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.367 | 0.378 | -3.0# | 84    | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.211 | 0.206 | 2.4    | 81    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.443 | 0.465 | -5.0   | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.243 | 0.208 | 14.4   | 68    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.003 | -50.0# | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.207 | 1.220 | -1.1   | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.257 | 0.220 | 14.4   | 67    | 0.00     |
| 52 CM | Toluene                     | 0.859 | 0.894 | -4.1#  | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.449 | 0.459 | -2.2   | 80    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.526 | 0.549 | -4.4   | 83    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.296 | 0.293 | 1.0    | 79    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.377 | 0.344 | 8.8    | 70    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.512 | 0.503 | 1.8    | 79    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.207 | 0.186 | 10.1   | 70    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.181 | 0.161 | 11.0   | 71    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.336 | 0.345 | -2.7   | 82    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.300 | 0.284 | 5.3    | 75    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.423 | 0.423 | 0.0    | 82    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.471 | 0.522 | -10.8  | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 1.058 | 1.101 | -4.1   | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.368 | 0.390 | -6.0   | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.804 | 1.893 | -4.9#  | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.681 | 0.740 | -8.7   | 85    | 0.00     |
| 69 T  | o-Xylene                    | 0.662 | 0.708 | -6.9   | 85    | 0.00     |
| 70 T  | Styrene                     | 1.074 | 1.164 | -8.4   | 84    | 0.00     |
| 71 P  | Bromoform                   | 0.253 | 0.249 | 1.6    | 78    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.662 | 3.744 | -2.2   | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 0.976 | 0.804 | 17.6   | 67    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.768 | 0.609 | 20.7   | 68    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.659 | 0.590 | 10.5   | 82    | 0.00     |
| 77 T  | Bromobenzene                | 0.965 | 0.946 | 2.0    | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 4.203 | 4.402 | -4.7   | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.491 | 2.497 | -0.2   | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.979 | 3.120 | -4.7   | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.230 | 0.204 | 11.3   | 72    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.541 | 2.621 | -3.1   | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.631 | 2.737 | -4.0   | 86    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.004 | 3.171 | -5.6   | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.609 | 3.836 | -6.3   | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.133 | 3.428 | -9.4   | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.697 | 1.760 | -3.7   | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.702 | 1.728 | -1.5   | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.671 | 2.938 | -10.0  | 91    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.491 | 0.535 | -9.0  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.561 | 1.621 | -3.8  | 86    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.097 | 0.084 | 13.4  | 72    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.602 | 0.665 | -10.5 | 86    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.487 | 0.575 | -18.1 | 95    | 0.00     |
| 95 T | Naphthalene                 | 0.993 | 0.894 | 10.0  | 69    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.427 | 0.431 | -0.9  | 80    | 0.00     |

(#) = Out of Range

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