

Data Path : W:\HPCHEM1\MSVOA X\Data\VX030718\  
 Data File : VX000212.D  
 Acq On : 07 Mar 2018 15:07  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX030718

Quant Time: Mar 08 02:20:31 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X030718W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 08 02:15:47 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.545 | 0.516 | 5.3    | 101   | 0.00     |
| 3 P   | Chloromethane               | 0.532 | 0.550 | -3.4   | 114   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.620 | 0.626 | -1.0#  | 106   | 0.00     |
| 5 T   | Bromomethane                | 0.737 | 0.675 | 8.4    | 96    | 0.00     |
| 6 T   | Chloroethane                | 0.427 | 0.406 | 4.9    | 105   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.028 | 1.012 | 1.6    | 98    | 0.00     |
| 8 T   | Diethyl Ether               | 0.377 | 0.376 | 0.3    | 105   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.574 | 0.532 | 7.3    | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.470 | 0.615 | -30.9# | 107   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.255 | 0.258 | -1.2   | 107   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.527 | 0.533 | -1.1#  | 103   | 0.00     |
| 13 T  | Acrolein                    | 0.134 | 0.147 | -9.7   | 113   | 0.00     |
| 14 T  | Allyl chloride              | 0.974 | 0.980 | -0.6   | 104   | 0.00     |
| 15 T  | Acrylonitrile               | 0.443 | 0.457 | -3.2   | 106   | 0.00     |
| 16 T  | Acetone                     | 0.498 | 0.479 | 3.8    | 102   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.445 | 1.486 | -2.8   | 103   | 0.00     |
| 18 T  | Methyl Acetate              | 1.060 | 1.066 | -0.6   | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.878 | 1.967 | -4.7   | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 0.594 | 0.590 | 0.7    | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.580 | 0.584 | -0.7   | 102   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.673 | 1.534 | 8.3    | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.612 | 1.493 | 7.4    | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.026 | 0.990 | 3.5    | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.614 | 0.616 | -0.3   | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.750 | 0.744 | 0.8    | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.550 | 0.543 | 1.3    | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 0.436 | 0.466 | -6.9   | 108   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.386 | 0.407 | -5.4   | 109   | 0.00     |
| 30 C  | Chloroform                  | 0.992 | 1.016 | -2.4#  | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 0.758 | 0.729 | 3.8    | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.860 | 0.897 | -4.3   | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.693 | 0.730 | -5.3   | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.346 | -10.2  | 108   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.445 | 0.423 | 4.9    | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.643 | 0.628 | 2.3    | 107   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.450 | 0.445 | 1.1    | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.546 | 0.493 | 9.7    | 93    | 0.00     |
| 40 TM | Benzene                     | 1.283 | 1.277 | 0.5    | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.328 | 0.318 | 3.0    | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.503 | 0.502 | 0.2    | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.930 | 0.942 | -1.3   | 105   | 0.00     |
| 44 TM | Trichloroethene             | 0.367 | 0.359 | 2.2    | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.325 | 0.331 | -1.8#  | 104   | 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 : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.257 | 0.259 | -0.8  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.452 | 0.479 | -6.0  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.458 | 0.464 | -1.3  | 107   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.011 | -10.0 | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 1.301 | 1.384 | -6.4  | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.702 | 0.727 | -3.6  | 104   | 0.00     |
| 52 CM | Toluene                     | 0.879 | 0.886 | -0.8# | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.533 | 0.548 | -2.8  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.516 | 0.560 | -8.5  | 101   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.356 | 0.378 | -6.2  | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.533 | 0.589 | -10.5 | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.598 | 0.598 | 0.0   | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.269 | 0.286 | -6.3  | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.598 | 0.631 | -5.5  | 105   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.376 | 0.419 | -11.4 | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.396 | 0.421 | -6.3  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.508 | 0.548 | -7.9  | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.350 | 0.325 | 7.1   | 98    | 0.00     |
| 65 PM | Chlorobenzene               | 1.010 | 1.015 | -0.5  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.345 | 0.362 | -4.9  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.762 | 1.720 | 2.4#  | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.678 | 0.687 | -1.3  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 0.652 | 0.669 | -2.6  | 100   | 0.00     |
| 70 T  | Styrene                     | 1.081 | 1.139 | -5.4  | 100   | 0.00     |
| 71 P  | Bromoform                   | 0.294 | 0.330 | -12.2 | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.130 | 2.886 | 7.8   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.602 | 1.494 | 6.7   | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.097 | 1.082 | 1.4   | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.002 | 0.982 | 2.0   | 106   | 0.00     |
| 77 T  | Bromobenzene                | 0.809 | 0.768 | 5.1   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 3.684 | 3.398 | 7.8   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.078 | 1.967 | 5.3   | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.614 | 2.480 | 5.1   | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.327 | 0.332 | -1.5  | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.527 | 2.392 | 5.3   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.543 | 2.457 | 3.4   | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.688 | 2.592 | 3.6   | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.217 | 3.004 | 6.6   | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.837 | 2.760 | 2.7   | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.539 | 1.510 | 1.9   | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.613 | 1.565 | 3.0   | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.732 | 2.546 | 6.8   | 94    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.457 | 0.443 | 3.1  | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.523 | 1.502 | 1.4  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.308 | 0.328 | -6.5 | 108   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.108 | 1.058 | 4.5  | 100   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.461 | 0.414 | 10.2 | 98    | 0.00     |
| 95 T | Naphthalene                 | 3.867 | 3.933 | -1.7 | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.096 | 1.055 | 3.7  | 101   | 0.00     |

(#) = Out of Range

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