

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU092218\  
 Data File : VU026993.D  
 Acq On : 22 Sep 2018 03:24  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 22 04:53:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 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   | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.653 | 0.591 | 9.5   | 84    | 0.00     |
| 3 P   | Chloromethane               | 1.126 | 1.047 | 7.0   | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.051 | 0.955 | 9.1#  | 85    | 0.00     |
| 5 T   | Bromomethane                | 0.598 | 0.539 | 9.9   | 90    | 0.00     |
| 6 T   | Chloroethane                | 0.671 | 0.656 | 2.2   | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.193 | 1.099 | 7.9   | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 0.574 | 0.620 | -8.0  | 99    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.734 | 0.677 | 7.8   | 87    | 0.00     |
| 10 T  | Methyl Iodide               | 0.910 | 0.795 | 12.6  | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.231 | 0.235 | -1.7  | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.691 | 0.643 | 6.9#  | 87    | 0.00     |
| 13 T  | Acrolein                    | 0.124 | 0.132 | -6.5  | 91    | 0.00     |
| 14 T  | Allyl chloride              | 1.401 | 1.429 | -2.0  | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 0.581 | 0.633 | -9.0  | 97    | 0.00     |
| 16 T  | Acetone                     | 0.658 | 0.561 | 14.7  | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 2.250 | 2.089 | 7.2   | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 1.432 | 1.535 | -7.2  | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.538 | 2.887 | -13.8 | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 0.901 | 0.904 | -0.3  | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.737 | 0.740 | -0.4  | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.996 | 3.465 | -15.7 | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 2.554 | 2.979 | -16.6 | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.650 | 1.743 | -5.6  | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.846 | 0.886 | -4.7  | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.287 | 1.031 | 19.9  | 74    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.833 | 0.879 | -5.5  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.795 | 0.913 | -14.8 | 101   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.512 | 0.576 | -12.5 | 98    | 0.00     |
| 30 C  | Chloroform                  | 1.532 | 1.589 | -3.7# | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 1.687 | 1.464 | 13.2  | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.223 | 1.226 | -0.2  | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 1.006 | 1.083 | -7.7  | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.433 | 0.442 | -2.1  | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.667 | 0.649 | 2.7   | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.903 | 0.942 | -4.3  | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.635 | 0.592 | 6.8   | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.725 | 0.729 | -0.6  | 87    | 0.00     |
| 40 TM | Benzene                     | 2.029 | 2.055 | -1.3  | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.469 | 0.539 | -14.9 | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.766 | 0.824 | -7.6  | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.317 | 1.475 | -12.0 | 100   | 0.00     |
| 44 TM | Trichloroethene             | 0.432 | 0.431 | 0.2   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.578 | 0.613 | -6.1# | 97    | 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              | 0.349 | 0.365 | -4.6   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.706 | 0.725 | -2.7   | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.642 | 0.751 | -17.0  | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.013 | 0.015 | -15.4  | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 1.652 | 1.626 | 1.6    | 89    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.886 | 0.999 | -12.8  | 98    | 0.00     |
| 52 CM | Toluene                     | 1.163 | 1.203 | -3.4#  | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.758 | 0.830 | -9.5   | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.834 | 0.873 | -4.7   | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.493 | 0.528 | -7.1   | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.733 | 0.884 | -20.6# | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.916 | 0.996 | -8.7   | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.420 | 0.512 | -21.9# | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.694 | 0.754 | -8.6   | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.483 | 0.517 | -7.0   | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.513 | 0.550 | -7.2   | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.567 | 0.594 | -4.8   | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.385 | 0.367 | 4.7    | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 1.326 | 1.289 | 2.8    | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.457 | 0.469 | -2.6   | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.180 | 2.268 | -4.0#  | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.798 | 0.852 | -6.8   | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.772 | 0.833 | -7.9   | 93    | 0.00     |
| 70 T  | Styrene                     | 1.247 | 1.402 | -12.4  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.353 | 0.376 | -6.5   | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.803 | 3.999 | -5.2   | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 2.202 | 2.457 | -11.6  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.749 | 1.709 | 2.3    | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.519 | 1.533 | -0.9   | 95    | 0.00     |
| 77 T  | Bromobenzene                | 0.929 | 0.938 | -1.0   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.500 | 4.826 | -7.2   | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.827 | 2.929 | -3.6   | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.140 | 3.337 | -6.3   | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.475 | 0.455 | 4.2    | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.170 | 3.347 | -5.6   | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.104 | 3.160 | -1.8   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.195 | 3.468 | -8.5   | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.789 | 3.984 | -5.1   | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.186 | 3.435 | -7.8   | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.730 | 1.738 | -0.5   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.885 | 1.761 | 6.6    | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.969 | 3.190 | -7.4   | 88    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.689 | 0.639 | 7.3   | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.837 | 1.758 | 4.3   | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.357 | 0.365 | -2.2  | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.059 | 1.145 | -8.1  | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.560 | 0.534 | 4.6   | 87    | 0.00     |
| 95 T | Naphthalene                 | 3.647 | 4.138 | -13.5 | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.135 | 1.208 | -6.4  | 91    | 0.00     |

(#) = Out of Range

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