

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX040419\  
 Data File : VX008649.D  
 Acq On : 04 Apr 2019 20:24  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 05 08:48:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 04 04:47:41 2019  
 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   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.576 | 0.497 | 13.7  | 80    | 0.00     |
| 3 P   | Chloromethane               | 0.795 | 0.685 | 13.8  | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.778 | 0.678 | 12.9# | 82    | 0.00     |
| 5 T   | Bromomethane                | 0.415 | 0.265 | 36.1# | 71    | 0.00     |
| 6 T   | Chloroethane                | 0.516 | 0.408 | 20.9# | 83    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.860 | 0.774 | 10.0  | 83    | 0.00     |
| 8 T   | Diethyl Ether               | 0.408 | 0.373 | 8.6   | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.554 | 0.489 | 11.7  | 82    | 0.00     |
| 10 T  | Methyl Iodide               | 0.456 | 0.260 | 43.0# | 46#   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.171 | 0.166 | 2.9   | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.578 | 0.520 | 10.0# | 84    | 0.00     |
| 13 T  | Acrolein                    | 0.085 | 0.056 | 34.1# | 62    | 0.00     |
| 14 T  | Allyl chloride              | 1.323 | 1.196 | 9.6   | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 0.452 | 0.414 | 8.4   | 84    | 0.00     |
| 16 T  | Acetone                     | 0.420 | 0.352 | 16.2  | 73    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.857 | 1.513 | 18.5  | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 1.019 | 0.902 | 11.5  | 85    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.064 | 1.966 | 4.7   | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.703 | 0.619 | 11.9  | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.625 | 0.542 | 13.3  | 83    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.551 | 2.345 | 8.1   | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 2.219 | 2.112 | 4.8   | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.263 | 1.155 | 8.6   | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 0.664 | 0.611 | 8.0   | 82    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.889 | 0.744 | 16.3  | 76    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.719 | 0.640 | 11.0  | 84    | 0.00     |
| 28 T  | Bromochloromethane          | 0.599 | 0.569 | 5.0   | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.441 | 0.405 | 8.2   | 84    | 0.00     |
| 30 C  | Chloroform                  | 1.128 | 1.034 | 8.3#  | 84    | 0.00     |
| 31 T  | Cyclohexane                 | 1.260 | 1.108 | 12.1  | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.911 | 0.851 | 6.6   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.729 | 0.683 | 6.3   | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.302 | 5.6   | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.547 | 0.480 | 12.2  | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.730 | 0.686 | 6.0   | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.452 | 0.417 | 7.7   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.675 | 0.580 | 14.1  | 81    | 0.00     |
| 40 TM | Benzene                     | 1.628 | 1.482 | 9.0   | 85    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.419 | 0.386 | 7.9   | 85    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.584 | 0.524 | 10.3  | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.143 | 1.101 | 3.7   | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.379 | 0.340 | 10.3  | 83    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.465 | 0.420 | 9.7#  | 84    | 0.00     |

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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              | 0.270 | 0.240 | 11.1 | 85    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.508 | 0.475 | 6.5  | 84    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.578 | 0.552 | 4.5  | 86    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.011 | 0.010 | 9.1  | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 1.273 | 1.212 | 4.8  | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.736 | 0.717 | 2.6  | 87    | 0.00     |
| 52 CM | Toluene                     | 0.960 | 0.892 | 7.1# | 85    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.569 | 0.546 | 4.0  | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.650 | 0.609 | 6.3  | 83    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.385 | 0.361 | 6.2  | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.697 | 0.690 | 1.0  | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.692 | 0.643 | 7.1  | 85    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.356 | 0.343 | 3.7  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.572 | 0.545 | 4.7  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.363 | 0.351 | 3.3  | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.401 | 0.372 | 7.2  | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.451 | 0.440 | 2.4  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.370 | 0.327 | 11.6 | 84    | 0.00     |
| 65 PM | Chlorobenzene               | 1.108 | 1.002 | 9.6  | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.389 | 0.358 | 8.0  | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.067 | 1.885 | 8.8# | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.743 | 0.677 | 8.9  | 85    | 0.00     |
| 69 T  | o-Xylene                    | 0.720 | 0.666 | 7.5  | 87    | 0.00     |
| 70 T  | Styrene                     | 1.241 | 1.158 | 6.7  | 86    | 0.00     |
| 71 P  | Bromoform                   | 0.297 | 0.290 | 2.4  | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.144 | 3.851 | 7.1  | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 2.438 | 2.360 | 3.2  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.576 | 1.464 | 7.1  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.374 | 1.258 | 8.4  | 88    | 0.00     |
| 77 T  | Bromobenzene                | 0.996 | 0.934 | 6.2  | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 4.825 | 4.477 | 7.2  | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.920 | 2.672 | 8.5  | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.478 | 3.243 | 6.8  | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.498 | 0.478 | 4.0  | 83    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.380 | 3.068 | 9.2  | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.346 | 3.117 | 6.8  | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.522 | 3.285 | 6.7  | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.975 | 3.701 | 6.9  | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.568 | 3.343 | 6.3  | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.783 | 1.620 | 9.1  | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.806 | 1.615 | 10.6 | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.346 | 3.093 | 7.6  | 83    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.592 | 0.576 | 2.7  | 87    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.771 | 1.619 | 8.6  | 87    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.347 | 0.321 | 7.5  | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.231 | 1.122 | 8.9  | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.590 | 0.547 | 7.3  | 85    | 0.00     |
| 95 T | Naphthalene                 | 4.115 | 3.888 | 5.5  | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.230 | 1.123 | 8.7  | 88    | 0.00     |

(#) = Out of Range

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