

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX110119\  
 Data File : VX013317.D  
 Acq On : 01 Nov 2019 17:29  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 04 02:25:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 07:06:38 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.576 | 0.572 | 0.7   | 99    | 0.00     |
| 3 P   | Chloromethane               | 0.625 | 0.615 | 1.6   | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.711 | 0.716 | -0.7# | 99    | 0.00     |
| 5 T   | Bromomethane                | 0.496 | 0.424 | 14.5  | 89    | 0.00     |
| 6 T   | Chloroethane                | 0.454 | 0.388 | 14.5  | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.840 | 0.771 | 8.2   | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 0.372 | 0.359 | 3.5   | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.468 | 0.451 | 3.6   | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 0.580 | 0.502 | 13.4  | 86    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.156 | 0.133 | 14.7  | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.459 | 0.451 | 1.7#  | 100   | 0.00     |
| 13 T  | Acrolein                    | 0.085 | 0.074 | 12.9  | 88    | 0.00     |
| 14 T  | Allyl chloride              | 0.833 | 0.829 | 0.5   | 102   | 0.00     |
| 15 T  | Acrylonitrile               | 0.292 | 0.291 | 0.3   | 98    | 0.00     |
| 16 T  | Acetone                     | 0.295 | 0.287 | 2.7   | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.228 | 1.204 | 2.0   | 99    | 0.00     |
| 18 T  | Methyl Acetate              | 0.816 | 0.801 | 1.8   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.530 | 1.536 | -0.4  | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.546 | 0.519 | 4.9   | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.499 | 0.488 | 2.2   | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.609 | 1.642 | -2.1  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.377 | 1.390 | -0.9  | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.900 | 0.887 | 1.4   | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 0.433 | 0.431 | 0.5   | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.716 | 0.716 | 0.0   | 102   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.559 | 0.566 | -1.3  | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 0.256 | 0.266 | -3.9  | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.267 | 0.265 | 0.7   | 95    | 0.00     |
| 30 C  | Chloroform                  | 0.889 | 0.879 | 1.1#  | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 0.810 | 0.780 | 3.7   | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.765 | 0.746 | 2.5   | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.592 | 0.553 | 6.6   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.295 | 6.1   | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.429 | 0.428 | 0.2   | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.530 | 0.521 | 1.7   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.419 | 0.418 | 0.2   | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.534 | 0.525 | 1.7   | 101   | 0.00     |
| 40 TM | Benzene                     | 1.336 | 1.326 | 0.7   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.297 | 0.293 | 1.3   | 99    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.482 | 0.473 | 1.9   | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.825 | 0.836 | -1.3  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.368 | 0.356 | 3.3   | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.340 | 0.340 | 0.0   | 101   | 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.232 | 0.226 | 2.6   | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.438 | 0.449 | -2.5  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.412 | 0.424 | -2.9  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 1.182 | 1.127 | 4.7   | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.541 | 0.542 | -0.2  | 98    | 0.00     |
| 52 CM | Toluene                     | 0.828 | 0.834 | -0.7# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.479 | 0.497 | -3.8  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.536 | 0.552 | -3.0  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.343 | 0.349 | -1.7  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.530 | 0.560 | -5.7  | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.583 | 0.582 | 0.2   | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.235 | 0.241 | -2.6  | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.418 | 0.422 | -1.0  | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.351 | 0.369 | -5.1  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.364 | 0.364 | 0.0   | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.427 | 0.405 | 5.2   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.358 | 0.347 | 3.1   | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 1.012 | 0.991 | 2.1   | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.372 | 0.371 | 0.3   | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.747 | 1.753 | -0.3# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.661 | 0.671 | -1.5  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 0.647 | 0.655 | -1.2  | 102   | 0.00     |
| 70 T  | Styrene                     | 1.081 | 1.128 | -4.3  | 101   | 0.00     |
| 71 P  | Bromoform                   | 0.300 | 0.314 | -4.7  | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.315 | 3.370 | -1.7  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 1.537 | 1.605 | -4.4  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.209 | 1.192 | 1.4   | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.016 | 0.971 | 4.4   | 101   | 0.00     |
| 77 T  | Bromobenzene                | 0.884 | 0.895 | -1.2  | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 3.693 | 3.856 | -4.4  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.225 | 2.266 | -1.8  | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.761 | 2.849 | -3.2  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.395 | 0.399 | -1.0  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.604 | 2.617 | -0.5  | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.780 | 2.881 | -3.6  | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.770 | 2.833 | -2.3  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.195 | 3.282 | -2.7  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.942 | 3.048 | -3.6  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.575 | 1.574 | 0.1   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.605 | 1.584 | 1.3   | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.567 | 2.655 | -3.4  | 99    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.524 | 0.534 | -1.9 | 100   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.575 | 1.605 | -1.9 | 103   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.295 | 0.272 | 7.8  | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.098 | 1.119 | -1.9 | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.537 | 0.528 | 1.7  | 100   | 0.00     |
| 95 T | Naphthalene                 | 3.446 | 3.638 | -5.6 | 98    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.102 | 1.122 | -1.8 | 100   | 0.00     |

(#) = Out of Range

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