

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX052720\  
 Data File : VX016470.D  
 Acq On : 28 May 2020 00:45  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 28 05:18:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 16:31:05 2020  
 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   | 136   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.492 | 0.451 | 8.3   | 117   | 0.00     |
| 3 P   | Chloromethane               | 0.595 | 0.525 | 11.8  | 120   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.629 | 0.593 | 5.7#  | 127   | 0.00     |
| 5 T   | Bromomethane                | 0.306 | 0.234 | 23.5  | 108   | 0.00     |
| 6 T   | Chloroethane                | 0.367 | 0.352 | 4.1   | 127   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.826 | 0.730 | 11.6  | 117   | 0.00     |
| 8 T   | Diethyl Ether               | 0.344 | 0.320 | 7.0   | 128   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.455 | 0.425 | 6.6   | 124   | 0.00     |
| 10 T  | Methyl Iodide               | 0.490 | 0.431 | 12.0  | 110   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.159 | 0.192 | -20.8 | 160#  | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.481 | 0.452 | 6.0#  | 127   | 0.00     |
| 13 T  | Acrolein                    | 0.068 | 0.068 | 0.0   | 144   | 0.00     |
| 14 T  | Allyl chloride              | 0.885 | 0.880 | 0.6   | 131   | 0.00     |
| 15 T  | Acrylonitrile               | 0.326 | 0.347 | -6.4  | 138   | 0.00     |
| 16 T  | Acetone                     | 0.272 | 0.308 | -13.2 | 148   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.429 | 1.360 | 4.8   | 127   | 0.00     |
| 18 T  | Methyl Acetate              | 0.698 | 0.743 | -6.4  | 139   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.728 | 1.670 | 3.4   | 126   | 0.00     |
| 20 T  | Methylene Chloride          | 0.563 | 0.523 | 7.1   | 126   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.532 | 0.495 | 7.0   | 125   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.700 | 1.639 | 3.6   | 125   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.488 | 1.494 | -0.4  | 127   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.959 | 0.920 | 4.1   | 126   | 0.00     |
| 25 T  | 2-Butanone                  | 0.461 | 0.506 | -9.8  | 141   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.785 | 0.622 | 20.8  | 108   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.616 | 0.567 | 8.0   | 124   | 0.00     |
| 28 T  | Bromochloromethane          | 0.446 | 0.424 | 4.9   | 134   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.298 | 0.325 | -9.1  | 139   | 0.00     |
| 30 C  | Chloroform                  | 0.967 | 0.887 | 8.3#  | 121   | 0.00     |
| 31 T  | Cyclohexane                 | 0.863 | 0.807 | 6.5   | 126   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.875 | 0.795 | 9.1   | 119   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.621 | 0.609 | 1.9   | 134   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 142   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.296 | 3.9   | 138   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.473 | 0.415 | 12.3  | 122   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.568 | 0.548 | 3.5   | 133   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.497 | 0.423 | 14.9  | 117   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.514 | 0.467 | 9.1   | 125   | 0.00     |
| 40 TM | Benzene                     | 1.410 | 1.259 | 10.7  | 123   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.312 | 0.292 | 6.4   | 132   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.501 | 0.435 | 13.2  | 120   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.887 | 0.844 | 4.8   | 131   | 0.00     |
| 44 TM | Trichloroethene             | 0.447 | 0.368 | 17.7  | 117   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.359 | 0.326 | 9.2#  | 125   | 0.00     |

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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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.241 | 0.215 | 10.8  | 124   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.499 | 0.441 | 11.6  | 121   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.424 | 0.408 | 3.8   | 130   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.011 | -10.0 | 151#  | 0.00     |
| 50 S  | Toluene-d8                  | 1.198 | 1.146 | 4.3   | 135   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.552 | 0.550 | 0.4   | 133   | 0.00     |
| 52 CM | Toluene                     | 0.889 | 0.784 | 11.8# | 121   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.568 | 0.508 | 10.6  | 122   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.601 | 0.537 | 10.6  | 122   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.353 | 0.318 | 9.9   | 125   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.576 | 0.549 | 4.7   | 127   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.607 | 0.549 | 9.6   | 124   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.300 | 0.283 | 5.7   | 130   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.429 | 0.438 | -2.1  | 135   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.398 | 0.352 | 11.6  | 120   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.379 | 0.340 | 10.3  | 124   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.463 | 0.428 | 7.6   | 134   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 136   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.559 | 0.447 | 20.0  | 108   | 0.00     |
| 65 PM | Chlorobenzene               | 1.019 | 0.938 | 7.9   | 121   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.389 | 0.357 | 8.2   | 121   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.815 | 1.669 | 8.0#  | 119   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.673 | 0.624 | 7.3   | 119   | 0.00     |
| 69 T  | o-Xylene                    | 0.652 | 0.607 | 6.9   | 121   | 0.00     |
| 70 T  | Styrene                     | 1.120 | 1.066 | 4.8   | 120   | 0.00     |
| 71 P  | Bromoform                   | 0.329 | 0.310 | 5.8   | 119   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 134   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.464 | 3.178 | 8.3   | 119   | 0.00     |
| 74 T  | N-amyl acetate              | 1.594 | 1.591 | 0.2   | 127   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.868 | 0.940 | -8.3  | 138   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.099 | 1.035 | 5.8   | 123   | 0.00     |
| 77 T  | Bromobenzene                | 0.909 | 0.827 | 9.0   | 121   | 0.00     |
| 78 T  | n-propylbenzene             | 3.870 | 3.609 | 6.7   | 120   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.363 | 2.151 | 9.0   | 118   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.893 | 2.659 | 8.1   | 117   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.447 | 0.411 | 8.1   | 121   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.790 | 2.555 | 8.4   | 119   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.472 | 2.379 | 3.8   | 123   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.925 | 2.698 | 7.8   | 118   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.101 | 2.930 | 5.5   | 122   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.905 | 2.704 | 6.9   | 119   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.574 | 1.426 | 9.4   | 119   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.610 | 1.420 | 11.8  | 117   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.419 | 2.303 | 4.8   | 121   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.502 | 0.474 | 5.6  | 121   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.525 | 1.375 | 9.8  | 120   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.281 | 0.287 | -2.1 | 134   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.013 | 0.957 | 5.5  | 123   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.398 | 0.370 | 7.0  | 126   | 0.00     |
| 95 T | Naphthalene                 | 3.472 | 3.430 | 1.2  | 126   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.992 | 0.952 | 4.0  | 127   | 0.00     |

(#) = Out of Range

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