

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX083120\  
 Data File : VX018160.D  
 Acq On : 31 Aug 2020 20:05  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 01 06:56:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 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    | 78    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.609 | 0.616 | -1.1   | 75    | 0.00     |
| 3 P   | Chloromethane               | 0.642 | 0.615 | 4.2    | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.639 | 0.604 | 5.5#   | 73    | 0.00     |
| 5 T   | Bromomethane                | 0.308 | 0.358 | -16.2  | 89    | 0.00     |
| 6 T   | Chloroethane                | 0.343 | 0.355 | -3.5   | 79    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.871 | 0.973 | -11.7  | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 0.295 | 0.305 | -3.4   | 81    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.471 | 0.477 | -1.3   | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 0.438 | 0.601 | -37.2# | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.135 | 0.129 | 4.4    | 76    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.489 | 0.480 | 1.8#   | 78    | 0.00     |
| 13 T  | Acrolein                    | 0.056 | 0.067 | -19.6  | 95    | 0.00     |
| 14 T  | Allyl chloride              | 0.878 | 0.859 | 2.2    | 75    | 0.00     |
| 15 T  | Acrylonitrile               | 0.306 | 0.294 | 3.9    | 76    | 0.00     |
| 16 T  | Acetone                     | 0.270 | 0.263 | 2.6    | 80    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.477 | 1.362 | 7.8    | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 0.653 | 0.741 | -13.5  | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.676 | 1.735 | -3.5   | 80    | 0.00     |
| 20 T  | Methylene Chloride          | 0.613 | 0.544 | 11.3   | 75    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.541 | 0.525 | 3.0    | 78    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.733 | 1.711 | 1.3    | 76    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.542 | 1.521 | 1.4    | 74    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.986 | 0.973 | 1.3    | 77    | 0.00     |
| 25 T  | 2-Butanone                  | 0.445 | 0.414 | 7.0    | 73    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.803 | 0.752 | 6.4    | 74    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.624 | 0.603 | 3.4    | 78    | 0.00     |
| 28 T  | Bromochloromethane          | 0.476 | 0.428 | 10.1   | 72    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.283 | 0.262 | 7.4    | 71    | 0.00     |
| 30 C  | Chloroform                  | 1.021 | 1.031 | -1.0#  | 79    | 0.00     |
| 31 T  | Cyclohexane                 | 0.831 | 0.804 | 3.2    | 75    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.937 | 0.961 | -2.6   | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.694 | 0.699 | -0.7   | 82    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 76    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.341 | 0.348 | -2.1   | 80    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.461 | 0.471 | -2.2   | 77    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.536 | 0.505 | 5.8    | 73    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.520 | 0.571 | -9.8   | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.504 | 0.508 | -0.8   | 75    | 0.00     |
| 40 TM | Benzene                     | 1.355 | 1.340 | 1.1    | 76    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.294 | 0.288 | 2.0    | 76    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.519 | 0.542 | -4.4   | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.865 | 0.837 | 3.2    | 73    | 0.00     |
| 44 TM | Trichloroethene             | 0.383 | 0.391 | -2.1   | 78    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.365 | 0.359 | 1.6#   | 74    | 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 : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.257 | 0.259 | -0.8  | 78    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.513 | 0.541 | -5.5  | 79    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.431 | 0.421 | 2.3   | 74    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.007 | 12.5  | 67    | 0.00     |
| 50 S  | Toluene-d8                  | 1.268 | 1.230 | 3.0   | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.534 | 0.532 | 0.4   | 73    | 0.00     |
| 52 CM | Toluene                     | 0.859 | 0.865 | -0.7# | 76    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.568 | 0.574 | -1.1  | 75    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.602 | 0.602 | 0.0   | 75    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.366 | 0.369 | -0.8  | 76    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.545 | 0.550 | -0.9  | 74    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.604 | 0.605 | -0.2  | 76    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.245 | 0.214 | 12.7  | 66    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.406 | 0.412 | -1.5  | 73    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.430 | 0.458 | -6.5  | 80    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.398 | 0.400 | -0.5  | 76    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.499 | 0.507 | -1.6  | 79    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 76    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.367 | 0.365 | 0.5   | 75    | 0.00     |
| 65 PM | Chlorobenzene               | 0.999 | 1.006 | -0.7  | 76    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.394 | 0.407 | -3.3  | 77    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.698 | 1.760 | -3.7# | 76    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.634 | 0.675 | -6.5  | 76    | 0.00     |
| 69 T  | o-Xylene                    | 0.614 | 0.649 | -5.7  | 78    | 0.00     |
| 70 T  | Styrene                     | 1.046 | 1.137 | -8.7  | 77    | 0.00     |
| 71 P  | Bromoform                   | 0.336 | 0.366 | -8.9  | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.298 | 3.298 | 0.0   | 79    | 0.00     |
| 74 T  | N-amyl acetate              | 1.565 | 1.467 | 6.3   | 72    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.163 | 1.053 | 9.5   | 77    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.112 | 1.018 | 8.5   | 77    | 0.00     |
| 77 T  | Bromobenzene                | 0.912 | 0.855 | 6.3   | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 3.745 | 3.728 | 0.5   | 79    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.314 | 2.287 | 1.2   | 79    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.710 | 2.843 | -4.9  | 81    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.412 | 0.376 | 8.7   | 75    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.750 | 2.731 | 0.7   | 80    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.675 | 2.802 | -4.7  | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.771 | 2.836 | -2.3  | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.042 | 3.192 | -4.9  | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.794 | 3.017 | -8.0  | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.601 | 1.519 | 5.1   | 80    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.603 | 1.578 | 1.6   | 83    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.550 | 2.537 | 0.5   | 80    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.550 | 0.597 | -8.5 | 86    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.507 | 1.461 | 3.1  | 79    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.291 | 0.267 | 8.2  | 79    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.005 | 0.966 | 3.9  | 79    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.396 | 0.384 | 3.0  | 82    | 0.00     |
| 95 T | Naphthalene                 | 3.306 | 3.300 | 0.2  | 79    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.993 | 0.967 | 2.6  | 82    | 0.00     |

(#) = Out of Range

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