

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU041621\  
 Data File : VU043183.D  
 Acq On : 16 Apr 2021 20:51  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 17 02:36:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U041221W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 12 13:17:29 2021  
 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   | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.516 | 0.495 | 4.1   | 100   | 0.00     |
| 3 P   | Chloromethane               | 0.615 | 0.545 | 11.4  | 101   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.563 | 0.556 | 1.2#  | 105   | 0.00     |
| 5 T   | Bromomethane                | 0.307 | 0.222 | 27.7# | 72    | 0.01     |
| 6 T   | Chloroethane                | 0.432 | 0.396 | 8.3   | 106   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.956 | 0.956 | 0.0   | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 0.306 | 0.323 | -5.6  | 110   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.492 | 0.504 | -2.4  | 108   | 0.00     |
| 10 T  | Methyl Iodide               | 0.648 | 0.403 | 37.8# | 61    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.217 | 0.234 | -7.8  | 112   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.468 | 0.480 | -2.6# | 107   | 0.00     |
| 13 T  | Acrolein                    | 0.125 | 0.105 | 16.0  | 81    | 0.00     |
| 14 T  | Allyl chloride              | 1.136 | 1.308 | -15.1 | 124   | 0.00     |
| 15 T  | Acrylonitrile               | 0.466 | 0.493 | -5.8  | 113   | 0.00     |
| 16 T  | Acetone                     | 0.530 | 0.503 | 5.1   | 106   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.440 | 1.346 | 6.5   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 1.051 | 1.237 | -17.7 | 126   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.849 | 2.053 | -11.0 | 115   | 0.00     |
| 20 T  | Methylene Chloride          | 0.597 | 0.600 | -0.5  | 109   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.547 | 0.557 | -1.8  | 109   | 0.00     |
| 22 T  | Diisopropyl ether           | 2.173 | 2.368 | -9.0  | 113   | 0.00     |
| 23 T  | Vinyl Acetate               | 2.103 | 2.299 | -9.3  | 112   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.099 | 1.167 | -6.2  | 112   | 0.00     |
| 25 T  | 2-Butanone                  | 0.764 | 0.808 | -5.8  | 110   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.964 | 0.846 | 12.2  | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.622 | 0.665 | -6.9  | 109   | 0.00     |
| 28 T  | Bromochloromethane          | 0.560 | 0.593 | -5.9  | 116   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.481 | 0.515 | -7.1  | 112   | 0.00     |
| 30 C  | Chloroform                  | 1.164 | 1.243 | -6.8# | 112   | 0.00     |
| 31 T  | Cyclohexane                 | 1.037 | 1.020 | 1.6   | 106   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.029 | 1.074 | -4.4  | 108   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.841 | 0.849 | -1.0  | 111   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.376 | 0.369 | 1.9   | 110   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.530 | 0.530 | 0.0   | 105   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.907 | 0.952 | -5.0  | 117   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.569 | 0.571 | -0.4  | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.583 | 0.547 | 6.2   | 98    | 0.00     |
| 40 TM | Benzene                     | 1.516 | 1.571 | -3.6  | 110   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.477 | 0.500 | -4.8  | 115   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.672 | 0.711 | -5.8  | 112   | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.294 | 1.369 | -5.8  | 113   | 0.00     |
| 44 TM | Trichloroethene             | 0.384 | 0.415 | -8.1  | 114   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.422 | 0.447 | -5.9# | 111   | 0.00     |
| 46 T  | Dibromomethane              | 0.299 | 0.313 | -4.7  | 111   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.590 | 0.621 | -5.3  | 111   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.649 | 0.691 | -6.5  | 111   | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.013 | 0.014 | -7.7  | 109   | 0.02     |
| 50 S  | Toluene-d8                  | 1.329 | 1.317 | 0.9   | 109   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.957 | 0.986 | -3.0  | 108   | 0.00     |
| 52 CM | Toluene                     | 0.940 | 1.002 | -6.6# | 110   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.655 | 0.649 | 0.9   | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.665 | 0.687 | -3.3  | 107   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.403 | 0.424 | -5.2  | 112   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.660 | 0.692 | -4.8  | 108   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.696 | 0.735 | -5.6  | 112   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.235 | 0.219 | 6.8   | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.788 | 0.801 | -1.6  | 104   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.466 | 0.480 | -3.0  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.455 | 0.475 | -4.4  | 108   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.532 | 0.505 | 5.1   | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.363 | 0.386 | -6.3  | 115   | 0.00     |
| 65 PM | Chlorobenzene               | 1.072 | 1.071 | 0.1   | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.410 | 0.424 | -3.4  | 108   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.935 | 1.985 | -2.6# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.716 | 0.730 | -2.0  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 0.699 | 0.715 | -2.3  | 106   | 0.00     |
| 70 T  | Styrene                     | 1.177 | 1.219 | -3.6  | 104   | 0.00     |
| 71 P  | Bromoform                   | 0.422 | 0.397 | 5.9   | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.356 | 3.649 | -8.7  | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 2.156 | 2.251 | -4.4  | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.461 | 1.494 | -2.3  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.461 | 1.435 | 1.8   | 101   | 0.00     |
| 77 T  | Bromobenzene                | 0.935 | 0.957 | -2.4  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 4.018 | 4.254 | -5.9  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.442 | 2.573 | -5.4  | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.962 | 3.136 | -5.9  | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.497 | 0.375 | 24.5# | 72    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.933 | 3.050 | -4.0  | 101   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.912 | 3.041 | -4.4  | 99    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.044 | 3.181 | -4.5  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.413 | 3.497 | -2.5  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.142 | 3.219 | -2.5  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.695 | 1.676 | 1.1   | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.768 | 1.686 | 4.6   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.943 | 2.831 | 3.8   | 89    | 0.00     |
| 90 T  | Hexachloroethane            | 0.589 | 0.478 | 18.8  | 79    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.732 | 1.734 | -0.1  | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.414 | 0.401 | 3.1   | 93    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.156 | 1.098 | 5.0   | 97    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.624 | 0.517 | 17.1  | 85    | 0.00     |
| 95 T  | Naphthalene                 | 3.495 | 3.706 | -6.0  | 106   | 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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.135 | 1.109 | 2.3  | 100   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6