

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051023\  
 Data File : VX035598.D  
 Acq On : 10 May 2023 19:52  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 11 04:31:44 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 16:31:40 2023  
 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 116   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.529 | 0.410 | 22.5  | 86    | 0.00     |
| 3 P   | Chloromethane               | 0.481 | 0.447 | 7.1   | 110   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.483 | 0.404 | 16.4# | 98    | 0.00     |
| 5 T   | Bromomethane                | 0.321 | 0.224 | 30.2# | 82    | 0.00     |
| 6 T   | Chloroethane                | 0.282 | 0.225 | 20.2  | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.755 | 0.632 | 16.3  | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.275 | 0.250 | 9.1   | 111   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.504 | 0.444 | 11.9  | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 0.636 | 0.457 | 28.1# | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.110 | 0.101 | 8.2   | 103   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.486 | 0.443 | 8.8#  | 109   | 0.00     |
| 13 T  | Acrolein                    | 0.108 | 0.081 | 25.0  | 85    | 0.00     |
| 14 T  | Allyl chloride              | 0.855 | 0.774 | 9.5   | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 0.275 | 0.257 | 6.5   | 108   | 0.00     |
| 16 T  | Acetone                     | 0.262 | 0.197 | 24.8  | 90    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.164 | 1.007 | 13.5  | 99    | 0.00     |
| 18 T  | Methyl Acetate              | 1.013 | 0.967 | 4.5   | 110   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.666 | 1.630 | 2.2   | 114   | 0.00     |
| 20 T  | Methylene Chloride          | 0.601 | 0.534 | 11.1  | 115   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.527 | 0.495 | 6.1   | 112   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.691 | 1.583 | 6.4   | 109   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.162 | 1.105 | 4.9   | 106   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.953 | 0.896 | 6.0   | 109   | 0.00     |
| 25 T  | 2-Butanone                  | 0.382 | 0.334 | 12.6  | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.746 | 0.711 | 4.7   | 109   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.620 | 0.605 | 2.4   | 117   | 0.00     |
| 28 T  | Bromochloromethane          | 0.406 | 0.316 | 22.2  | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.245 | 0.219 | 10.6  | 104   | 0.00     |
| 30 C  | Chloroform                  | 0.962 | 0.927 | 3.6#  | 112   | 0.00     |
| 31 T  | Cyclohexane                 | 0.856 | 0.765 | 10.6  | 104   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.843 | 0.812 | 3.7   | 111   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.603 | 0.456 | 24.4  | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 116   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.307 | 0.269 | 12.4  | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.479 | 0.421 | 12.1  | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.438 | 0.406 | 7.3   | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.455 | 0.433 | 4.8   | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.583 | 0.532 | 8.7   | 107   | 0.00     |
| 40 TM | Benzene                     | 1.375 | 1.301 | 5.4   | 113   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.251 | 0.245 | 2.4   | 111   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.490 | 0.433 | 11.6  | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.735 | 0.711 | 3.3   | 111   | 0.00     |
| 44 TM | Trichloroethene             | 0.379 | 0.376 | 0.8   | 118   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.347 | 0.335 | 3.5#  | 113   | 0.00     |
| 46 T  | Dibromomethane              | 0.238 | 0.234 | 1.7   | 117   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.438 | 0.440 | -0.5  | 113   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.361 | 0.349 | 3.3   | 108   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051023\  
 Data File : VX035598.D  
 Acq On : 10 May 2023 19:52  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 11 04:31:44 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 16:31:40 2023  
 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.007 | 22.2  | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 1.158 | 0.956 | 17.4  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.452 | 0.417 | 7.7   | 107   | 0.00     |
| 52 CM | Toluene                     | 0.871 | 0.849 | 2.5#  | 114   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.458 | 0.502 | -9.6  | 118   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.518 | 0.551 | -6.4  | 116   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.347 | 0.348 | -0.3  | 118   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.517 | 0.526 | -1.7  | 115   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.594 | 0.575 | 3.2   | 115   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.259 | 0.260 | -0.4  | 110   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.339 | 0.306 | 9.7   | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.333 | 0.361 | -8.4  | 119   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.358 | 0.364 | -1.7  | 117   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.435 | 0.378 | 13.1  | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 115   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.383 | 0.350 | 8.6   | 111   | 0.00     |
| 65 PM | Chlorobenzene               | 1.082 | 1.053 | 2.7   | 118   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.376 | 0.396 | -5.3  | 120   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.873 | 1.819 | 2.9#  | 113   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.718 | 0.716 | 0.3   | 116   | 0.00     |
| 69 T  | o-Xylene                    | 0.704 | 0.722 | -2.6  | 119   | 0.00     |
| 70 T  | Styrene                     | 1.141 | 1.184 | -3.8  | 118   | 0.00     |
| 71 P  | Bromoform                   | 0.262 | 0.304 | -16.0 | 126   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 115   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.655 | 3.627 | 0.8   | 116   | 0.00     |
| 74 T  | N-amyl acetate              | 1.374 | 1.338 | 2.6   | 107   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.134 | 1.135 | -0.1  | 119   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.997 | 0.920 | 7.7   | 116   | 0.00     |
| 77 T  | Bromobenzene                | 0.909 | 0.944 | -3.9  | 121   | 0.00     |
| 78 T  | n-propylbenzene             | 4.198 | 4.069 | 3.1   | 113   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.623 | 2.488 | 5.1   | 114   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.082 | 3.098 | -0.5  | 116   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.308 | 0.342 | -11.0 | 123   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.946 | 2.838 | 3.7   | 114   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.092 | 3.140 | -1.6  | 120   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.097 | 3.125 | -0.9  | 117   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.793 | 3.785 | 0.2   | 115   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.226 | 3.299 | -2.3  | 117   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.727 | 1.753 | -1.5  | 121   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.810 | 1.753 | 3.1   | 120   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.723 | 2.700 | 0.8   | 113   | 0.00     |
| 90 T  | Hexachloroethane            | 0.494 | 0.516 | -4.5  | 114   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.727 | 1.736 | -0.5  | 123   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.227 | 0.227 | 0.0   | 110   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.085 | 1.155 | -6.5  | 126   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.476 | 0.462 | 2.9   | 118   | 0.00     |
| 95 T  | Naphthalene                 | 3.342 | 3.569 | -6.8  | 121   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051023\  
Data File : VX035598.D  
Acq On : 10 May 2023 19:52  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: May 11 04:31:44 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042523W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 25 16:31:40 2023  
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               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.093 | 1.115 | -2.0 | 123   | 0.00     |

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