

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\WX121821\  
 Data File : VX025900.D  
 Acq On : 17 Dec 2021 21:00  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 19 02:37:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 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   | 112   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.447 | 0.456 | -2.0  | 119   | 0.00     |
| 3 P   | Chloromethane               | 0.582 | 0.509 | 12.5  | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.619 | 0.554 | 10.5# | 102   | 0.00     |
| 5 T   | Bromomethane                | 0.442 | 0.371 | 16.1  | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.449 | 0.406 | 9.6   | 107   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.023 | 0.944 | 7.7   | 111   | 0.00     |
| 8 T   | Diethyl Ether               | 0.404 | 0.342 | 15.3  | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.532 | 0.466 | 12.4  | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 0.678 | 0.558 | 17.7  | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.144 | 0.119 | 17.4  | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.529 | 0.453 | 14.4# | 97    | 0.00     |
| 13 T  | Acrolein                    | 0.099 | 0.087 | 12.1  | 106   | 0.00     |
| 14 T  | Allyl chloride              | 0.966 | 0.811 | 16.0  | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 0.337 | 0.306 | 9.2   | 97    | 0.00     |
| 16 T  | Acetone                     | 0.344 | 0.268 | 22.1  | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.516 | 1.078 | 28.9# | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 1.096 | 1.016 | 7.3   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.870 | 1.699 | 9.1   | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 0.699 | 0.553 | 20.9  | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.591 | 0.527 | 10.8  | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.874 | 1.759 | 6.1   | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.450 | 1.381 | 4.8   | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.070 | 0.965 | 9.8   | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 0.484 | 0.445 | 8.1   | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.812 | 0.616 | 24.1  | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.700 | 0.631 | 9.9   | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 0.482 | 0.441 | 8.5   | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.308 | 0.290 | 5.8   | 99    | 0.00     |
| 30 C  | Chloroform                  | 1.173 | 1.047 | 10.7# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 0.875 | 0.852 | 2.6   | 116   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.021 | 0.908 | 11.1  | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.719 | 0.632 | 12.1  | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.349 | 0.313 | 10.3  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.473 | 0.437 | 7.6   | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.525 | 0.491 | 6.5   | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.550 | 0.463 | 15.8  | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.529 | 0.528 | 0.2   | 122   | 0.00     |
| 40 TM | Benzene                     | 1.411 | 1.309 | 7.2   | 98    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.291 | 0.281 | 3.4   | 103   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.536 | 0.490 | 8.6   | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.846 | 0.779 | 7.9   | 96    | 0.00     |
| 44 TM | Trichloroethene             | 0.393 | 0.364 | 7.4   | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.356 | 0.332 | 6.7#  | 99    | 0.00     |
| 46 T  | Dibromomethane              | 0.277 | 0.243 | 12.3  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.546 | 0.467 | 14.5  | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.399 | 0.386 | 3.3   | 100   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121821\  
 Data File : VX025900.D  
 Acq On : 17 Dec 2021 21:00  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 19 02:37:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 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 | 0.008 | 11.1  | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 1.271 | 1.181 | 7.1   | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.554 | 0.541 | 2.3   | 102   | 0.00     |
| 52 CM | Toluene                     | 0.899 | 0.856 | 4.8#  | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.520 | 0.446 | 14.2  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.569 | 0.505 | 11.2  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.385 | 0.355 | 7.8   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.554 | 0.541 | 2.3   | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.632 | 0.587 | 7.1   | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.242 | 0.278 | -14.9 | 119   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.420 | 0.419 | 0.2   | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.437 | 0.367 | 16.0  | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.418 | 0.378 | 9.6   | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.483 | 0.450 | 6.8   | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.399 | 0.385 | 3.5   | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 1.042 | 0.980 | 6.0   | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.407 | 0.362 | 11.1  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.762 | 1.720 | 2.4#  | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.686 | 0.675 | 1.6   | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.675 | 0.668 | 1.0   | 102   | 0.00     |
| 70 T  | Styrene                     | 1.123 | 1.118 | 0.4   | 99    | 0.00     |
| 71 P  | Bromoform                   | 0.335 | 0.265 | 20.9  | 81    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 110   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.629 | 3.422 | 5.7   | 106   | 0.00     |
| 74 T  | N-amyl acetate              | 1.460 | 1.429 | 2.1   | 104   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.265 | 1.164 | 8.0   | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.146 | 0.972 | 15.2  | 96    | 0.00     |
| 77 T  | Bromobenzene                | 0.931 | 0.851 | 8.6   | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 4.105 | 3.910 | 4.8   | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.610 | 2.354 | 9.8   | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.010 | 2.907 | 3.4   | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.370 | 0.256 | 30.8# | 74    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.923 | 2.705 | 7.5   | 101   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.950 | 2.877 | 2.5   | 110   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.007 | 2.926 | 2.7   | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.546 | 3.590 | -1.2  | 112   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.978 | 2.995 | -0.6  | 110   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.734 | 1.594 | 8.1   | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.771 | 1.596 | 9.9   | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.484 | 2.528 | -1.8  | 115   | 0.00     |
| 90 T  | Hexachloroethane            | 0.585 | 0.450 | 23.1  | 87    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.656 | 1.592 | 3.9   | 103   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.284 | 0.232 | 18.3  | 87    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.848 | 0.886 | -4.5  | 106   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.352 | 0.353 | -0.3  | 119   | 0.00     |
| 95 T  | Naphthalene                 | 2.820 | 3.147 | -11.6 | 102   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121821\  
Data File : VX025900.D  
Acq On : 17 Dec 2021 21:00  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Dec 19 02:37:24 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 2021  
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 | 0.846 | 0.916 | -8.3 | 107   | 0.00     |

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