

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101621\  
 Data File : VX024831.D  
 Acq On : 15 Oct 2021 15:47  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 18 01:43:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X101321W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 14 03:51:38 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   | 108   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.533 | 0.519 | 2.6   | 101   | 0.00     |
| 3 P   | Chloromethane               | 0.464 | 0.423 | 8.8   | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.481 | 0.450 | 6.4#  | 98    | 0.00     |
| 5 T   | Bromomethane                | 0.229 | 0.267 | -16.6 | 103   | 0.00     |
| 6 T   | Chloroethane                | 0.296 | 0.273 | 7.8   | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.821 | 0.755 | 8.0   | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 0.270 | 0.248 | 8.1   | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.483 | 0.446 | 7.7   | 99    | 0.00     |
| 10 T  | Methyl Iodide               | 0.566 | 0.533 | 5.8   | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.130 | 0.121 | 6.9   | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.436 | 0.403 | 7.6#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 0.054 | 0.054 | 0.0   | 110   | 0.00     |
| 14 T  | Allyl chloride              | 0.788 | 0.761 | 3.4   | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 0.289 | 0.276 | 4.5   | 96    | 0.00     |
| 16 T  | Acetone                     | 0.317 | 0.260 | 18.0  | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.140 | 0.989 | 13.2  | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 1.014 | 0.966 | 4.7   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.611 | 1.583 | 1.7   | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.521 | 0.472 | 9.4   | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.487 | 0.450 | 7.6   | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.590 | 1.556 | 2.1   | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.221 | 1.217 | 0.3   | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.915 | 0.871 | 4.8   | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 0.437 | 0.407 | 6.9   | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.796 | 0.746 | 6.3   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.558 | 0.536 | 3.9   | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 0.382 | 0.383 | -0.3  | 108   | -0.01    |
| 29 T  | Tetrahydrofuran             | 0.278 | 0.268 | 3.6   | 96    | 0.00     |
| 30 C  | Chloroform                  | 0.983 | 0.952 | 3.2#  | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 0.819 | 0.803 | 2.0   | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.878 | 0.872 | 0.7   | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.615 | 0.591 | 3.9   | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.298 | 0.295 | 1.0   | 108   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.443 | 0.432 | 2.5   | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.510 | 0.495 | 2.9   | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.496 | 0.486 | 2.0   | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.549 | 0.557 | -1.5  | 105   | 0.00     |
| 40 TM | Benzene                     | 1.272 | 1.248 | 1.9   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.278 | 0.273 | 1.8   | 98    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.524 | 0.503 | 4.0   | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.789 | 0.775 | 1.8   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.357 | 0.347 | 2.8   | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.331 | 0.327 | 1.2#  | 101   | 0.00     |
| 46 T  | Dibromomethane              | 0.239 | 0.234 | 2.1   | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.453 | 0.450 | 0.7   | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.385 | 0.392 | -1.8  | 99    | 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 : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.008 | 0.0   | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.101 | 1.099 | 0.2   | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.523 | 0.524 | -0.2  | 97    | 0.00     |
| 52 CM | Toluene                     | 0.823 | 0.834 | -1.3# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.503 | 0.514 | -2.2  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.527 | 0.536 | -1.7  | 99    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.348 | 0.346 | 0.6   | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.516 | 0.538 | -4.3  | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.567 | 0.573 | -1.1  | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.243 | 0.252 | -3.7  | 103   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.409 | 0.406 | 0.7   | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.347 | 0.361 | -4.0  | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.374 | 0.371 | 0.8   | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.433 | 0.428 | 1.2   | 107   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.366 | 0.372 | -1.6  | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 0.979 | 0.976 | 0.3   | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.363 | 0.372 | -2.5  | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.706 | 1.750 | -2.6# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.658 | 0.695 | -5.6  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.646 | 0.672 | -4.0  | 101   | 0.00     |
| 70 T  | Styrene                     | 1.063 | 1.131 | -6.4  | 100   | 0.00     |
| 71 P  | Bromoform                   | 0.271 | 0.284 | -4.8  | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.307 | 3.372 | -2.0  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 1.385 | 1.358 | 1.9   | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.122 | 1.093 | 2.6   | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.043 | 1.031 | 1.2   | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.850 | 0.821 | 3.4   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 3.810 | 3.943 | -3.5  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.346 | 2.385 | -1.7  | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.805 | 2.945 | -5.0  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.360 | 0.350 | 2.8   | 96    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.727 | 2.760 | -1.2  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.719 | 2.843 | -4.6  | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.828 | 2.943 | -4.1  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.480 | 3.657 | -5.1  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.921 | 3.094 | -5.9  | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.602 | 1.587 | 0.9   | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.637 | 1.606 | 1.9   | 103   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.573 | 2.742 | -6.6  | 104   | 0.00     |
| 90 T  | Hexachloroethane            | 0.469 | 0.488 | -4.1  | 103   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.584 | 1.552 | 2.0   | 101   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.257 | 0.254 | 1.2   | 98    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.966 | 1.006 | -4.1  | 103   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.467 | 0.458 | 1.9   | 102   | 0.00     |
| 95 T  | Naphthalene                 | 3.079 | 3.382 | -9.8  | 100   | 0.00     |

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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 | 0.971 | 1.031 | -6.2 | 103   | 0.00     |

(#) = Out of Range

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