

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072019\  
 Data File : VX011017.D  
 Acq On : 19 Jul 2019 20:55  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 20 03:48:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 17 06:57:45 2019  
 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                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0  | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.467 | 0.504 | -7.9 | 98    | 0.00     |
| 3 P   | Chloromethane               | 0.460 | 0.433 | 5.9  | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.469 | 0.456 | 2.8# | 97    | 0.00     |
| 5 T   | Bromomethane                | 0.264 | 0.212 | 19.7 | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.298 | 0.278 | 6.7  | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.794 | 0.767 | 3.4  | 99    | 0.00     |
| 8 T   | Diethyl Ether               | 0.274 | 0.261 | 4.7  | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.453 | 0.433 | 4.4  | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 0.595 | 0.500 | 16.0 | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.124 | 0.121 | 2.4  | 108   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.445 | 0.430 | 3.4# | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.072 | 0.061 | 15.3 | 91    | 0.00     |
| 14 T  | Allyl chloride              | 0.647 | 0.618 | 4.5  | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 0.250 | 0.248 | 0.8  | 105   | 0.00     |
| 16 T  | Acetone                     | 0.240 | 0.212 | 11.7 | 93    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.142 | 1.000 | 12.4 | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 0.547 | 0.539 | 1.5  | 111   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.434 | 1.439 | -0.3 | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 0.509 | 0.488 | 4.1  | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.473 | 0.453 | 4.2  | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.364 | 1.336 | 2.1  | 104   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.156 | 1.163 | -0.6 | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.792 | 0.769 | 2.9  | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.345 | 0.344 | 0.3  | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.651 | 0.552 | 15.2 | 89    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.547 | 0.528 | 3.5  | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 0.373 | 0.334 | 10.5 | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.218 | 0.222 | -1.8 | 106   | 0.00     |
| 30 C  | Chloroform                  | 0.856 | 0.828 | 3.3# | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 0.722 | 0.672 | 6.9  | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.741 | 0.733 | 1.1  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.532 | 0.532 | 0.0  | 107   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.317 | 0.313 | 1.3  | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.411 | 0.393 | 4.4  | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.421 | 0.426 | -1.2 | 103   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.428 | 0.421 | 1.6  | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.533 | 0.500 | 6.2  | 100   | 0.00     |
| 40 TM | Benzene                     | 1.258 | 1.211 | 3.7  | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.239 | 0.231 | 3.3  | 108   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.437 | 0.430 | 1.6  | 107   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.692 | 0.691 | 0.1  | 105   | 0.00     |
| 44 TM | Trichloroethene             | 0.372 | 0.349 | 6.2  | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.320 | 0.310 | 3.1# | 104   | 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                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.229 | 0.222 | 3.1  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.407 | 0.405 | 0.5  | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.337 | 0.340 | -0.9 | 108   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0  | 103   | 0.00     |
| 50 S  | Toluene-d8                  | 1.190 | 1.174 | 1.3  | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.448 | 0.463 | -3.3 | 107   | 0.00     |
| 52 CM | Toluene                     | 0.826 | 0.790 | 4.4# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.438 | 0.437 | 0.2  | 100   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.487 | 0.482 | 1.0  | 99    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.340 | 0.335 | 1.5  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.498 | 0.524 | -5.2 | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.540 | 0.528 | 2.2  | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.238 | 0.238 | 0.0  | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.348 | 0.362 | -4.0 | 105   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.345 | 0.358 | -3.8 | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.361 | 0.359 | 0.6  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.438 | 0.450 | -2.7 | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.393 | 0.375 | 4.6  | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.027 | 0.978 | 4.8  | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.361 | 0.366 | -1.4 | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.748 | 1.728 | 1.1# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.671 | 0.666 | 0.7  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 0.654 | 0.646 | 1.2  | 103   | 0.00     |
| 70 T  | Styrene                     | 1.091 | 1.108 | -1.6 | 103   | 0.00     |
| 71 P  | Bromoform                   | 0.288 | 0.293 | -1.7 | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.378 | 3.265 | 3.3  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 1.291 | 1.318 | -2.1 | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.106 | 1.084 | 2.0  | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.902 | 0.915 | -1.4 | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.932 | 0.890 | 4.5  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 3.733 | 3.677 | 1.5  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.242 | 2.160 | 3.7  | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.823 | 2.791 | 1.1  | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.328 | 0.300 | 8.5  | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.610 | 2.564 | 1.8  | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.773 | 2.717 | 2.0  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.845 | 2.821 | 0.8  | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.249 | 3.253 | -0.1 | 104   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.004 | 2.993 | 0.4  | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.617 | 1.564 | 3.3  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.659 | 1.564 | 5.7  | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.570 | 2.570 | 0.0  | 102   | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.474 | 0.466 | 1.7  | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.603 | 1.545 | 3.6  | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.231 | 0.237 | -2.6 | 106   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.086 | 1.064 | 2.0  | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.538 | 0.510 | 5.2  | 101   | 0.00     |
| 95 T | Naphthalene                 | 3.208 | 3.303 | -3.0 | 104   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.081 | 1.063 | 1.7  | 103   | 0.00     |

(#) = Out of Range

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