

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX090820\  
 Data File : VX018308.D  
 Acq On : 09 Sep 2020 04:55  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 09 05:19:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 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                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 69    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.321  | 3.4   | 63    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.570  | 14.9  | 59    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.404  | 9.2#  | 62    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 57.044  | -14.1 | 77    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.178  | -2.4  | 69    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 56.751  | -13.5 | 77    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.098  | -6.2  | 73    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.919  | -3.8  | 72    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.760  | 2.5   | 71    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 249.340 | 0.3   | 70    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.084  | 1.8#  | 69    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 205.014 | 18.0  | 58    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.026  | 3.9   | 65    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 254.704 | -1.9  | 71    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 267.647 | -7.1  | 77    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.572  | 10.9  | 65    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 58.850  | -17.7 | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.830  | -7.7  | 73    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.248  | -2.5  | 69    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.296  | 1.4   | 70    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.516  | -3.0  | 70    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 255.494 | -2.2  | 68    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.636  | -1.3  | 69    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 249.146 | 0.3   | 69    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 36.985  | 26.0# | 52    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.665  | 2.7   | 69    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.724  | 2.6   | 69    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 247.636 | 0.9   | 67    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.426  | -4.9# | 72    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.806  | 2.4   | 67    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.152  | -6.3  | 74    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.231  | -8.5  | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 69    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.811  | -5.6  | 75    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.758  | 0.5   | 68    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.995  | 2.0   | 68    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.351  | -8.7  | 74    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.255  | 1.5   | 66    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.449  | 1.1   | 69    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.867  | 4.3   | 67    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.845  | -7.7  | 75    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.024  | 2.0   | 67    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.839  | 0.3   | 69    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.439  | 1.1#  | 68    | 0.00     |

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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                    | Amount   | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 50.544  | -1.1  | 71    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.488  | -7.0  | 73    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.345  | 1.3   | 67    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 873.885 | 12.6  | 56    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.042  | -0.1  | 70    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 257.124 | -2.8  | 69    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.774  | 0.5#  | 68    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.378  | 3.2   | 65    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.247  | 5.5   | 65    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.731  | 0.5   | 68    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.609  | -1.2  | 68    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.305  | -0.6  | 69    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 197.739 | 20.9  | 54    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 262.741 | -5.1  | 69    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.780  | -5.6  | 72    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.089  | -0.2  | 69    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.302  | -4.6  | 73    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 69    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.257  | -0.5  | 69    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.087  | -0.2  | 68    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.244  | -6.5  | 72    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.384  | -2.8# | 68    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.813 | -5.8  | 69    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.165  | -4.3  | 69    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.100  | -8.2  | 70    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.050  | -10.1 | 73    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 76    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.516  | 5.0   | 69    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.971  | 8.1   | 65    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 44.831  | 10.3  | 71    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.506  | 11.0  | 69    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.003  | 8.0   | 71    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.652  | 2.7   | 72    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.837  | 4.3   | 71    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.654  | -1.3  | 72    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 40.390  | 19.2  | 61    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.154  | 3.7   | 72    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.848  | 0.3   | 73    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.421  | -0.8  | 72    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.639  | -3.3  | 74    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.402  | -4.8  | 74    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.147  | 3.7   | 75    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.240  | 3.5   | 75    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.054  | 1.9   | 72    | 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                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.149 | -6.3 | 78    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.332 | 1.3  | 74    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.688 | 4.6  | 75    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.630 | 4.7  | 72    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.187 | -2.4 | 79    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.566 | 0.9  | 72    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.487 | -1.0 | 78    | 0.00     |

(#) = Out of Range

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