

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082218\  
 Data File : VX004198.D  
 Acq On : 22 Aug 2018 14:39  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX082218

Quant Time: Aug 23 06:44:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 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                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 56.243  | -12.5 | 107   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.832  | -1.7  | 104   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.171  | -4.3# | 104   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 58.711  | -17.4 | 116   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.089  | 5.8   | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.055  | -2.1  | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.088  | -2.2  | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.844  | -1.7  | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.514  | 3.0   | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 240.707 | 3.7   | 98    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.954  | 0.1#  | 105   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 225.819 | 9.7   | 95    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.150  | -2.3  | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 239.390 | 4.2   | 101   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 263.767 | -5.5  | 104   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.349  | -2.7  | 106   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.419  | -0.8  | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.146  | -2.3  | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.268  | 3.5   | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.522  | 1.0   | 107   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.318  | -2.6  | 108   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 263.373 | -5.3  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.532  | -1.1  | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 250.718 | -0.3  | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.516  | -5.0  | 109   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.672  | -1.3  | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 44.145  | 11.7  | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 247.541 | 1.0   | 101   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.922  | 0.2#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 52.199  | -4.4  | 106   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.234  | -2.5  | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.136  | 5.7   | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.575  | 0.8   | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.406  | -4.8  | 105   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.868  | -3.7  | 103   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.395  | -6.8  | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.442  | -8.9  | 107   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.552  | -5.1  | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.258  | -4.5  | 103   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.517  | -3.0  | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.885  | -7.8  | 105   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.433  | -2.9  | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.031  | -6.1# | 104   | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX082218\  
 Data File : VX004198.D  
 Acq On : 22 Aug 2018 14:39  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX082218

Quant Time: Aug 23 06:44:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 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                    | Amount   | Calc.    | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 51.536   | -3.1   | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.128   | -8.3   | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.697   | -9.4   | 104   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1034.027 | -3.4   | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.757   | -1.5   | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 250.054  | -0.0   | 102   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.746   | -7.5#  | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.334   | -12.7  | 106   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.607   | -13.2  | 107   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.870   | -5.7   | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.845   | -13.7  | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.057   | -6.1   | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 283.882  | -13.6  | 103   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 253.757  | -1.5   | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.917   | -9.8   | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.944   | -7.9   | 106   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.109   | 5.8    | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 111   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.001   | 4.0    | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.920   | -3.8   | 115   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.739   | -3.5   | 110   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.841   | -5.7#  | 110   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 109.004  | -9.0   | 111   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.156   | -6.3   | 107   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.291   | -10.6  | 109   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.149   | -2.3   | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.152   | -6.3   | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.277   | -8.6   | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.199   | 1.6    | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.300   | 3.4    | 94    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.527   | 0.9    | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.118   | -2.2   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.362   | -0.7   | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.323   | -4.6   | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 56.521   | -13.0  | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.040   | 1.9    | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.829   | -5.7   | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 56.949   | -13.9  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.961   | -9.9   | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 56.444   | -12.9  | 101   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.563   | -1.1   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.081   | -2.2   | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 62.253   | -24.5# | 117   | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082218\  
Data File : VX004198.D  
Acq On : 22 Aug 2018 14:39  
Operator : JC/MD  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX082218

Quant Time: Aug 23 06:44:20 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 23 05:39:44 2018  
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                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 59.332 | -18.7 | 113   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 56.177 | -12.4 | 111   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 58.342 | -16.7 | 111   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 57.818 | -15.6 | 114   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.653 | -9.3  | 104   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 57.570 | -15.1 | 100   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.410 | -8.8  | 105   | 0.00     |

(#) = Out of Range

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