

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD110618\  
 Data File : VD060290.D  
 Acq On : 6 Nov 2018 14:08  
 Operator : VA/AP  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD110618

Quant Time: Nov 06 14:36:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 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  | 52.696  | -5.4   | 103   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.912  | 2.2    | 109   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.698  | 2.6#   | 104   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 61.080  | -22.2# | 108   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 56.577  | -13.2  | 109   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.589  | -3.2   | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.248  | -6.5   | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.134  | -2.3   | 102   | 0.01     |
| 10 T  | Methyl Iodide               | 50.000  | 49.572  | 0.9    | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 260.061 | -4.0   | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.419  | -0.8#  | 101   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 253.818 | -1.5   | 105   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.638  | -5.3   | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 266.233 | -6.5   | 105   | 0.01     |
| 16 T  | Acetone                     | 250.000 | 255.913 | -2.4   | 106   | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.566  | -3.1   | 106   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.454  | -6.9   | 116   | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.100  | -4.2   | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.865  | -1.7   | 109   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.737  | -3.5   | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.398  | -4.8   | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 265.564 | -6.2   | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.361  | -0.7   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 257.573 | -3.0   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.182  | -4.4   | 104   | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.916  | -3.8   | 103   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.761  | -1.5   | 104   | 0.00     |
| 29    | Tetrahydrofuran             | 250.000 | 261.853 | -4.7   | 104   | 0.01     |
| 30 C  | Chloroform                  | 50.000  | 51.206  | -2.4#  | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.037  | 1.9    | 103   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.108  | -4.2   | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.957  | -1.9   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.950  | -3.9   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.963  | -3.9   | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 57.435  | -14.9  | 109   | 0.01     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.367  | -4.7   | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.407  | -4.8   | 103   | 0.01     |
| 40 TM | Benzene                     | 50.000  | 52.289  | -4.6   | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.673  | -9.3   | 106   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.413  | -4.8   | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.690  | -9.4   | 103   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.261  | -6.5   | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.592  | -5.2#  | 100   | 0.00     |

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 ClientSampleId :  
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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 : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 53.834   | -7.7  | 103   | 0.01     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.406   | -4.8  | 98    | 0.01     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.542   | -9.1  | 104   | 0.01     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1116.259 | -11.6 | 105   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.181   | -4.4  | 98    | 0.01     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 261.559  | -4.6  | 102   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.182   | -6.4# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.692   | -9.4  | 102   | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.409   | -8.8  | 103   | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.793   | -3.6  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.394   | -10.8 | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.444   | -2.9  | 99    | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 254.269  | -1.7  | 98    | 0.01     |
| 59 T  | 2-Hexanone                  | 250.000  | 281.100  | -12.4 | 105   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.107   | -10.2 | 101   | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.718   | -7.4  | 101   | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.865   | -3.7  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.742   | -7.5  | 100   | 0.01     |
| 65 PM | Chlorobenzene               | 50.000   | 53.864   | -7.7  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.816   | -9.6  | 102   | 0.01     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.329   | -4.7# | 101   | 0.01     |
| 68 T  | m/p-Xylenes                 | 100.000  | 109.903  | -9.9  | 102   | 0.01     |
| 69 T  | o-Xylene                    | 50.000   | 54.509   | -9.0  | 100   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.567   | -11.1 | 105   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.584   | -17.2 | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.997   | -4.0  | 105   | 0.01     |
| 74 T  | N-amyl acetate              | 50.000   | 56.033   | -12.1 | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.567   | -7.1  | 103   | 0.01     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.201   | -8.4  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.945   | -3.9  | 102   | 0.01     |
| 78 T  | n-propylbenzene             | 50.000   | 52.028   | -4.1  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.375   | -4.8  | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.968   | -3.9  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.214   | -10.4 | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.623   | -3.2  | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.558   | -7.1  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.948   | -5.9  | 102   | 0.01     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.514   | -1.0  | 98    | 0.01     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.668   | -5.3  | 101   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.056   | -6.1  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.301   | -4.6  | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.294   | -6.6  | 99    | 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 : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.950 | -7.9 | 103   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.648 | -3.3 | 100   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.723 | -7.4 | 98    | 0.01     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.196 | -6.4 | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.804 | -1.6 | 96    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.776 | -7.6 | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.411 | -6.8 | 102   | 0.00     |

(#) = Out of Range

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