

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080819\  
 Data File : VD063452.D  
 Acq On : 8 Aug 2019 21:56  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 09 03:16:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 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                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 84    | 0.02     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.999  | 12.0  | 81    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.126  | 9.7   | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.602  | 10.8# | 78    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.908  | 12.2  | 74    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 54.041  | -8.1  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.313  | -2.6  | 88    | 0.02     |
| 8 T   | Diethyl Ether               | 50.000  | 50.822  | -1.6  | 92    | 0.02     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.917  | -7.8  | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.752  | 0.5   | 79    | 0.02     |
| 11 T  | Tert butyl alcohol          | 250.000 | 260.653 | -4.3  | 101   | 0.03     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.909  | -7.8# | 97    | 0.02     |
| 13 T  | Acrolein                    | 250.000 | 209.033 | 16.4  | 80    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.904  | -3.8  | 88    | 0.02     |
| 15 T  | Acrylonitrile               | 250.000 | 280.304 | -12.1 | 104   | 0.02     |
| 16 T  | Acetone                     | 250.000 | 241.335 | 3.5   | 83    | 0.02     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.858  | 10.3  | 77    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 56.403  | -12.8 | 108   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.366  | -6.7  | 95    | 0.02     |
| 20 T  | Methylene Chloride          | 50.000  | 52.167  | -4.3  | 93    | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.696  | -7.4  | 96    | 0.02     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.251  | -8.5  | 94    | 0.03     |
| 23 T  | Vinyl Acetate               | 250.000 | 273.547 | -9.4  | 94    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.076  | -2.2  | 89    | 0.02     |
| 25 T  | 2-Butanone                  | 250.000 | 265.098 | -6.0  | 90    | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.597  | 0.8   | 83    | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.788  | -5.6  | 88    | 0.02     |
| 28 T  | Bromochloromethane          | 50.000  | 54.806  | -9.6  | 94    | 0.02     |
| 29    | Tetrahydrofuran             | 250.000 | 262.551 | -5.0  | 93    | 0.02     |
| 30 C  | Chloroform                  | 50.000  | 52.947  | -5.9# | 93    | 0.02     |
| 31 T  | Cyclohexane                 | 50.000  | 49.713  | 0.6   | 89    | 0.03     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.408  | -2.8  | 89    | 0.02     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.639  | -7.3  | 85    | 0.03     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 88    | 0.02     |
| 35 S  | Dibromofluoromethane        | 50.000  | 56.465  | -12.9 | 99    | 0.02     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.523  | 3.0   | 84    | 0.02     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.906  | 4.2   | 97    | 0.02     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.327  | -6.7  | 89    | 0.02     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.748  | 6.5   | 82    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.283  | -0.6  | 85    | 0.03     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.318  | -4.6  | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.978  | -2.0  | 90    | 0.02     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.824  | -7.6  | 98    | 0.02     |
| 44 TM | Trichloroethene             | 50.000  | 50.731  | -1.5  | 90    | 0.02     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.266  | -0.5# | 90    | 0.02     |

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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                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 52.562   | -5.1  | 94    | 0.02     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.816   | -5.6  | 94    | 0.02     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.837   | -11.7 | 96    | 0.02     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1020.862 | -2.1  | 90    | 0.01     |
| 50 S  | Toluene-d8                  | 50.000   | 54.573   | -9.1  | 90    | 0.02     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 273.529  | -9.4  | 98    | 0.02     |
| 52 CM | Toluene                     | 50.000   | 52.512   | -5.0# | 97    | 0.02     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.089   | 1.8   | 85    | 0.02     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.603   | -5.2  | 91    | 0.02     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.252   | -6.5  | 97    | 0.02     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.863   | -1.7  | 88    | 0.02     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.071   | -2.1  | 88    | 0.02     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 256.896  | -2.8  | 90    | 0.02     |
| 59 T  | 2-Hexanone                  | 250.000  | 272.788  | -9.1  | 103   | 0.02     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.273   | -6.5  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.618   | -5.2  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.769   | -3.5  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.707   | 2.6   | 93    | 0.02     |
| 65 PM | Chlorobenzene               | 50.000   | 50.175   | -0.3  | 88    | 0.02     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.001   | -8.0  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.338   | -6.7# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.215  | -6.2  | 97    | 0.02     |
| 69 T  | o-Xylene                    | 50.000   | 52.842   | -5.7  | 100   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.383   | -2.8  | 91    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.196   | -8.4  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.917   | 0.2   | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.971   | -5.9  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 58.674   | -17.3 | 105   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.673   | -7.3  | 93    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.819   | -9.6  | 101   | 0.02     |
| 78 T  | n-propylbenzene             | 50.000   | 50.936   | -1.9  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.813   | 0.4   | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.017   | -6.0  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.451   | 3.1   | 85    | 0.02     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.108   | -10.2 | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.566   | -1.1  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.817   | -1.6  | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.799   | 2.4   | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.139   | -0.3  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.593   | 0.8   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.707   | -1.4  | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.678   | -3.4  | 92    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 49.391 | 1.2   | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.341 | -4.7  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 56.194 | -12.4 | 125   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.341 | 5.3   | 88    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.773 | -1.5  | 91    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.730 | 0.5   | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.693 | -3.4  | 98    | 0.00     |

(#) = Out of Range

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