

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101019\  
 Data File : VD063901.D  
 Acq On : 10 Oct 2019 10:44  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 11 07:45:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 05 03:51:17 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   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.180  | 9.6   | 103   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 54.594  | -9.2  | 104   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.274  | -4.5# | 110   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.417  | 3.2   | 103   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.678  | -1.4  | 109   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 56.198  | -12.4 | 119   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.524  | 7.0   | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.554  | -7.1  | 117   | 0.01     |
| 10 T  | Methyl Iodide               | 50.000  | 48.929  | 2.1   | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 232.607 | 7.0   | 95    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.271  | -0.5# | 108   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 228.042 | 8.8   | 91    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.548  | 2.9   | 102   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 247.095 | 1.2   | 102   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 268.794 | -7.5  | 99    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.213  | 3.6   | 102   | 0.01     |
| 18 T  | Methyl Acetate              | 50.000  | 49.428  | 1.1   | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.647  | 4.7   | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.031  | 3.9   | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.206  | -4.4  | 110   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.729  | 0.5   | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 248.987 | 0.4   | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.514  | -1.0  | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 254.579 | -1.8  | 99    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.316  | -6.6  | 113   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.217  | -2.4  | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.510  | -7.0  | 108   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 224.685 | 10.1  | 97    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.019  | -0.0# | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 57.483  | -15.0 | 111   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.979  | -8.0  | 113   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.888  | -1.8  | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.176  | -6.4  | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 55.142  | -10.3 | 111   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.505  | -7.0  | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 56.945  | -13.9 | 114   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 57.266  | -14.5 | 114   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.718  | -9.4  | 108   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.177  | 3.6   | 116   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.411  | -0.8  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.197  | 3.6   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 54.439  | -8.9  | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.700  | -3.4# | 102   | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 53.370   | -6.7  | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.954   | -5.9  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.568   | 4.9   | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1057.699 | -5.8  | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 55.877   | -11.8 | 107   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 241.154  | 3.5   | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.762   | -9.5# | 108   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.162   | -8.3  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.323   | -8.6  | 107   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.690   | -7.4  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.929   | 0.1   | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.272   | -2.5  | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 241.231  | 3.5   | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 266.631  | -6.7  | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.859   | -11.7 | 108   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.714   | -11.4 | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.030   | -8.1  | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 55.116   | -10.2 | 112   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.704   | -9.4  | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.957   | -9.9  | 108   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.905   | -9.8# | 108   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 113.663  | -13.7 | 110   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.089   | -10.2 | 109   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.989   | -10.0 | 104   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.993   | -6.0  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.502   | -9.0  | 110   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 44.945   | 10.1  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.936   | 4.1   | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.602   | -11.2 | 110   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.758   | -5.5  | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.217   | -10.4 | 112   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.094   | -6.2  | 108   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.538   | -9.1  | 109   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.856   | 4.3   | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.633   | -3.3  | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.481   | -9.0  | 110   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.783   | -5.6  | 107   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.853   | -13.7 | 114   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 57.335   | -14.7 | 115   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.117   | -8.2  | 110   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 53.685   | -7.4  | 109   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.769   | -13.5 | 115   | 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                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 57.189 | -14.4 | 113   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 53.845 | -7.7  | 107   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.947 | 2.1   | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.306 | -8.6  | 110   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 57.792 | -15.6 | 115   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.030 | -6.1  | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.327 | -8.7  | 108   | 0.00     |

(#) = Out of Range

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