

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD061820\  
 Data File : VD065819.D  
 Acq On : 18 Jun 2020 20:09  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 19 01:54:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060520S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 05 13:07:30 2020  
 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   | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 37.511  | 25.0# | 64    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.197  | -2.4  | 80    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.927  | 6.1#  | 81    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.026  | -0.1  | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.396  | 1.2   | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 42.941  | 14.1  | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.402  | 3.2   | 79    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 42.995  | 14.0  | 75    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 43.497  | 13.0  | 69    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 257.264 | -2.9  | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 43.762  | 12.5# | 75    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 211.749 | 15.3  | 77    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.378  | 5.2   | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 263.293 | -5.3  | 85    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 231.243 | 7.5   | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.857  | 14.3  | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.127  | -8.3  | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.224  | -0.4  | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 55.323  | -10.6 | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.488  | 7.0   | 78    | 0.01     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.989  | -8.0  | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 274.646 | -9.9  | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.778  | 2.4   | 83    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 251.460 | -0.6  | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.002  | 8.0   | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.872  | 0.3   | 82    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.896  | -3.8  | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 269.201 | -7.7  | 88    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.957  | -1.9# | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.382  | 13.2  | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.259  | 3.5   | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.656  | -7.3  | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.550  | 0.9   | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.175  | 7.7   | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.565  | -3.1  | 87    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.119  | 7.8   | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.889  | 10.2  | 77    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.437  | 3.1   | 85    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.724  | -13.4 | 87    | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.313  | 1.4   | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.225  | -0.5  | 85    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 45.203  | 9.6   | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.662  | 0.7#  | 86    | 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   | 50.151  | -0.3  | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.350  | 1.3   | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.004  | 4.0   | 79    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 963.898 | 3.6   | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.432  | -2.9  | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 264.002 | -5.6  | 89    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.170  | 1.7#  | 85    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.080  | -0.2  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.166  | -0.3  | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.354  | -2.7  | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.006  | -6.0  | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.128  | -2.3  | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 279.439 | -11.8 | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 266.018 | -6.4  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.660  | -1.3  | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.025  | -2.0  | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.226  | -4.5  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.093  | 11.8  | 80    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.511  | 3.0   | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.528  | 2.9   | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.312  | 1.4#  | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.662  | 0.3   | 87    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.945  | -1.9  | 88    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.248  | -4.5  | 88    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.299  | 3.4   | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.214  | 7.6   | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.092  | 3.8   | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.748  | 4.5   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 39.744  | 20.5# | 81    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.829  | 6.3   | 84    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.800  | 6.4   | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.017  | 4.0   | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.589  | 4.8   | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.694  | 2.6   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.690  | 4.6   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.685  | 4.6   | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.785  | 4.4   | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.997  | 6.0   | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.969  | 4.1   | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.104  | 5.8   | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.312  | 5.4   | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.643  | 4.7   | 87    | 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 | 47.767 | 4.5  | 88    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.948 | 4.1  | 88    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.162 | 7.7  | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.052 | 5.9  | 86    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 42.609 | 14.8 | 79    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.462 | 3.1  | 86    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 46.688 | 6.6  | 84    | 0.00     |

(#) = Out of Range

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