

Data File : VD058153.D  
Acq On : 15 Jun 2018 15:17  
Operator : VA/AP  
Sample : VSTDCCC050  
Misc : 5.00g/5ml/MSVOA\_D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
LabSampleId :  
VSTDCCC050

Quant Time: Jun 15 23:27:17 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 07 08:57:33 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.671 | 0.577 | 14.0   | 86    | 0.00     |
| 3 P   | Chloromethane               | 0.330 | 0.291 | 11.8   | 94    | -0.01    |
| 4 C   | Vinyl Chloride              | 0.320 | 0.314 | 1.9#   | 99    | -0.01    |
| 5 T   | Bromomethane                | 0.125 | 0.113 | 9.6    | 80    | -0.01    |
| 6 T   | Chloroethane                | 0.126 | 0.127 | -0.8   | 89    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 0.437 | 0.419 | 4.1    | 91    | -0.01    |
| 8 T   | Diethyl Ether               | 0.081 | 0.091 | -12.3  | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.261 | 0.262 | -0.4   | 94    | -0.01    |
| 10 T  | Methyl Iodide               | 0.337 | 0.309 | 8.3    | 88    | -0.01    |
| 11 T  | Tert butyl alcohol          | 0.013 | 0.016 | -23.1# | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.201 | 0.195 | 3.0#   | 93    | -0.01    |
| 13 T  | Acrolein                    | 0.019 | 0.016 | 15.8   | 87    | -0.01    |
| 14 T  | Allyl chloride              | 0.463 | 0.456 | 1.5    | 98    | -0.01    |
| 15 T  | Acrylonitrile               | 0.078 | 0.062 | 20.5#  | 80    | 0.00     |
| 16 T  | Acetone                     | 0.072 | 0.084 | -16.7  | 112   | 0.00     |
| 17 T  | Carbon Disulfide            | 0.726 | 0.710 | 2.2    | 94    | -0.01    |
| 18 T  | Methyl Acetate              | 0.139 | 0.136 | 2.2    | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.882 | 0.894 | -1.4   | 98    | -0.01    |
| 20 T  | Methylene Chloride          | 0.246 | 0.220 | 10.6   | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.447 | 0.409 | 8.5    | 88    | -0.01    |
| 22 T  | Diisopropyl ether           | 1.833 | 1.668 | 9.0    | 87    | -0.01    |
| 23 T  | Vinyl Acetate               | 0.947 | 0.938 | 1.0    | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.007 | 0.942 | 6.5    | 92    | -0.01    |
| 25 T  | 2-Butanone                  | 0.164 | 0.162 | 1.2    | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.830 | 0.822 | 1.0    | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.530 | 0.520 | 1.9    | 96    | -0.01    |
| 28 T  | Bromochloromethane          | 0.436 | 0.440 | -0.9   | 97    | -0.01    |
| 29    | Tetrahydrofuran             | 0.086 | 0.082 | 4.7    | 92    | -0.01    |
| 30 C  | Chloroform                  | 1.014 | 0.983 | 3.1#   | 94    | -0.01    |
| 31 T  | Cyclohexane                 | 0.869 | 0.760 | 12.5   | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.849 | 0.847 | 0.2    | 97    | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.500 | 0.440 | 12.0   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 93    | -0.01    |
| 35 S  | Dibromofluoromethane        | 0.387 | 0.372 | 3.9    | 92    | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 0.551 | 0.553 | -0.4   | 94    | -0.01    |
| 37 T  | Ethyl Acetate               | 0.301 | 0.317 | -5.3   | 99    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.543 | 0.551 | -1.5   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.546 | 0.539 | 1.3    | 90    | -0.01    |
| 40 TM | Benzene                     | 1.287 | 1.260 | 2.1    | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.137 | 0.152 | -10.9  | 100   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.520 | 0.534 | -2.7   | 93    | -0.01    |
| 43 T  | Isopropyl Acetate           | 0.394 | 0.395 | -0.3   | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.376 | 0.400 | -6.4   | 96    | -0.01    |
| 45 C  | 1,2-Dichloropropane         | 0.358 | 0.348 | 2.8#   | 89    | 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.230 | 0.241 | -4.8  | 95    | -0.01    |
| 47 T  | Bromodichloromethane        | 0.538 | 0.564 | -4.8  | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.242 | 0.241 | 0.4   | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 0.920 | 0.853 | 7.3   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.253 | 0.254 | -0.4  | 91    | 0.00     |
| 52 CM | Toluene                     | 0.739 | 0.716 | 3.1#  | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.463 | 0.485 | -4.8  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.546 | 0.545 | 0.2   | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.239 | 0.242 | -1.3  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.293 | 0.300 | -2.4  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.419 | 0.436 | -4.1  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.148 | 0.149 | -0.7  | 94    | -0.01    |
| 59 T  | 2-Hexanone                  | 0.185 | 0.195 | -5.4  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.337 | 0.366 | -8.6  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.275 | 0.275 | 0.0   | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.401 | 0.363 | 9.5   | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.447 | 0.471 | -5.4  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.012 | 1.023 | -1.1  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.389 | 0.406 | -4.4  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.829 | 1.756 | 4.0#  | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.596 | 0.608 | -2.0  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.592 | 0.611 | -3.2  | 95    | 0.00     |
| 70 T  | Styrene                     | 0.980 | 1.021 | -4.2  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.293 | 0.341 | -16.4 | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.312 | 3.325 | -0.4  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.278 | 1.269 | 0.7   | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.722 | 0.745 | -3.2  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.751 | 0.780 | -3.9  | 96    | 0.00     |
| 77 T  | Bromobenzene                | 0.980 | 0.998 | -1.8  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 4.309 | 4.203 | 2.5   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.458 | 2.511 | -2.2  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.583 | 2.577 | 0.2   | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.186 | 0.206 | -10.8 | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.685 | 2.683 | 0.1   | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.916 | 2.908 | 0.3   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.777 | 2.694 | 3.0   | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.520 | 3.362 | 4.5   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.837 | 2.836 | 0.0   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.658 | 1.665 | -0.4  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.616 | 1.597 | 1.2   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.919 | 2.778 | 4.8   | 95    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061518\  
Evaluate Continuing Calibration Report

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

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.724 | 0.761 | -5.1  | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.340 | 1.315 | 1.9   | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.111 | 0.122 | -9.9  | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.252 | 1.393 | -11.3 | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.985 | 1.079 | -9.5  | 99    | 0.00     |
| 95 T | Naphthalene                 | 1.614 | 1.679 | -4.0  | 97    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.067 | 1.165 | -9.2  | 100   | 0.00     |

(#) = Out of Range

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