

APPENDIX

Measured and Simulated Curves

1. TFBGA12x12, 168 - W.B.

1.1 DCP1: Temperature Curve, Time Constant Spectra and Structure Functions

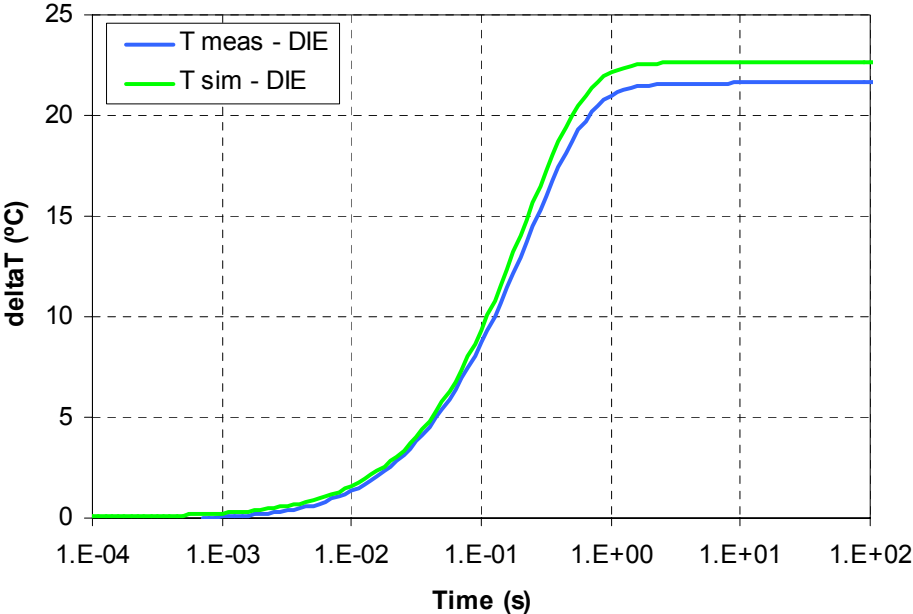


Fig. 1.1: DCP1 – TFBGA12x12, 168 - W.B. – Temperature Curves (P = 3.2 W)

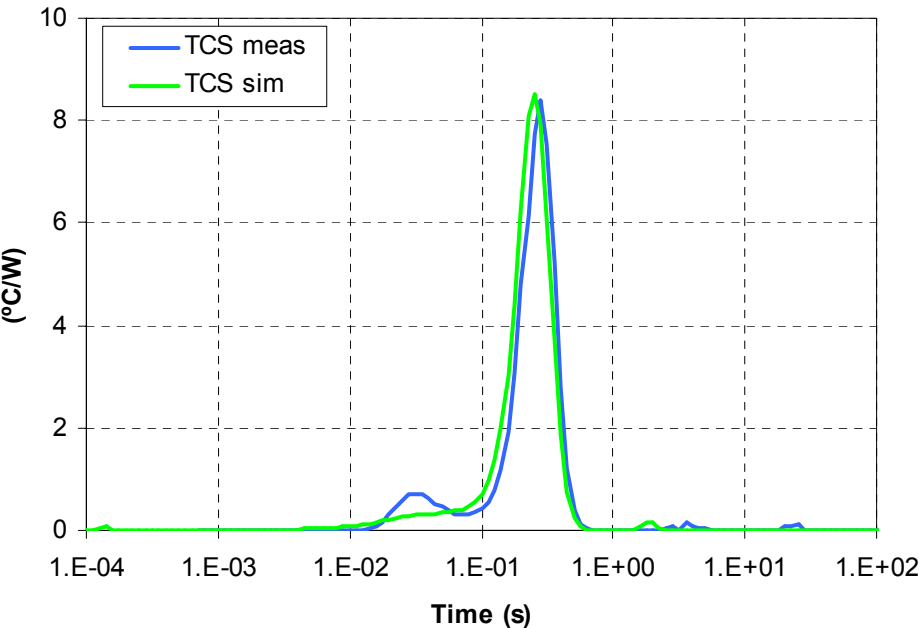


Fig. 1.2: TFBGA12x12, 168 - W.B. – Time Constant Spectra

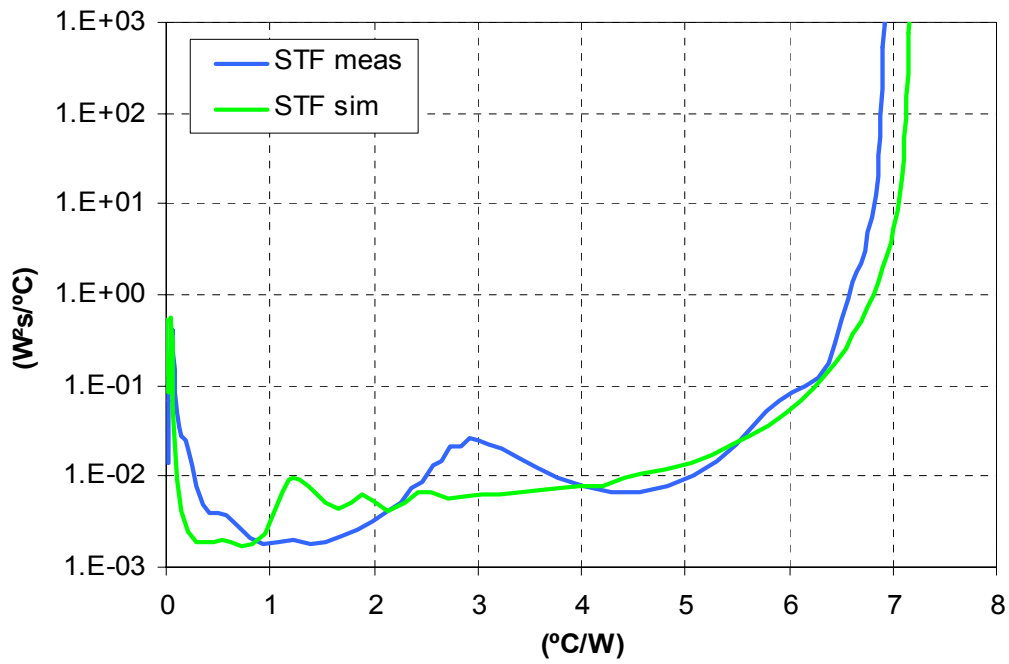


Fig. 1.3: DCP1 – TFBGA12x12, 168 - W.B. – Structure Functions

1.2 DCP3: Temperature Curves, Time Constant Spectra and Structure Functions

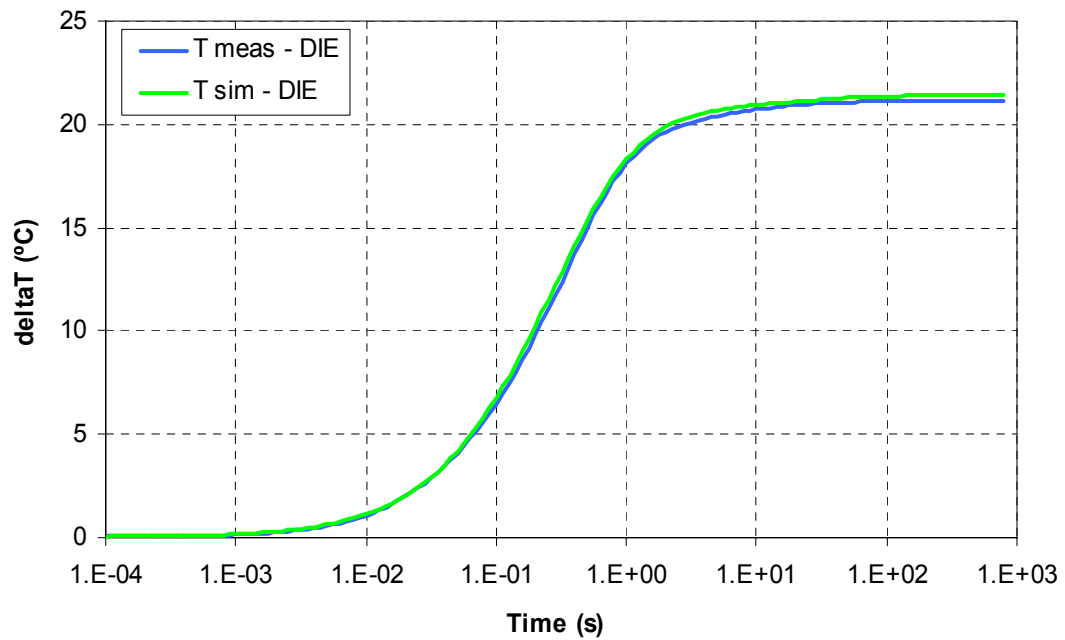


Fig. 2.1: DCP3 – TFBGA12x12, 168 - W.B. – Temperature Curves (P = 2.3 W)

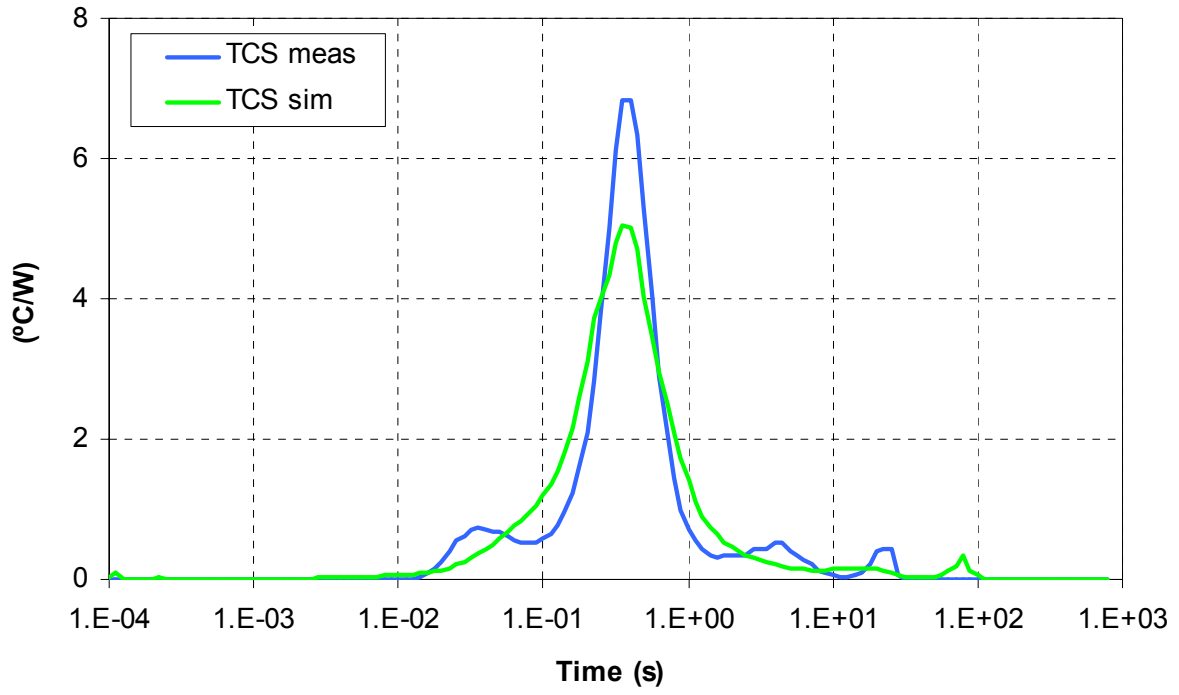


Fig. 2.2: DCP3 – TFBGA12x12, 168 - W.B. – Time Constant Spectra

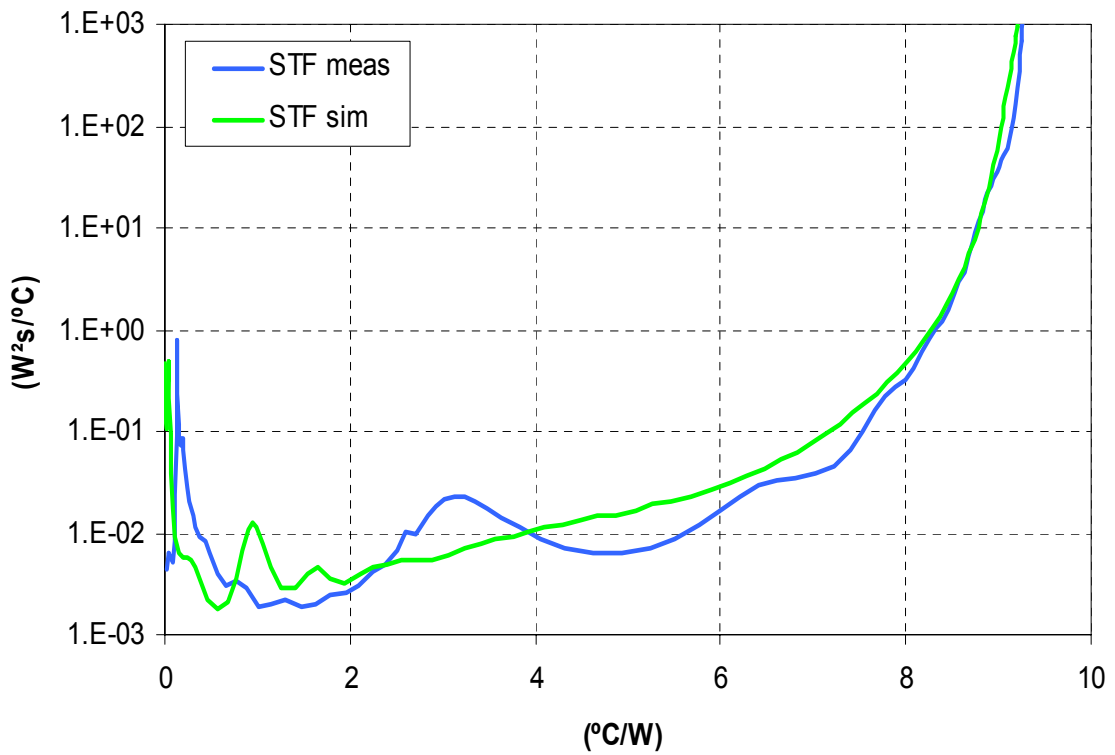


Fig. 2.3: DCP3 – TFBGA12x12, 168 - W.B. – Structure Functions

1.3 DCP4: Temperature Curves, Time Constant Spectra and Structure Functions

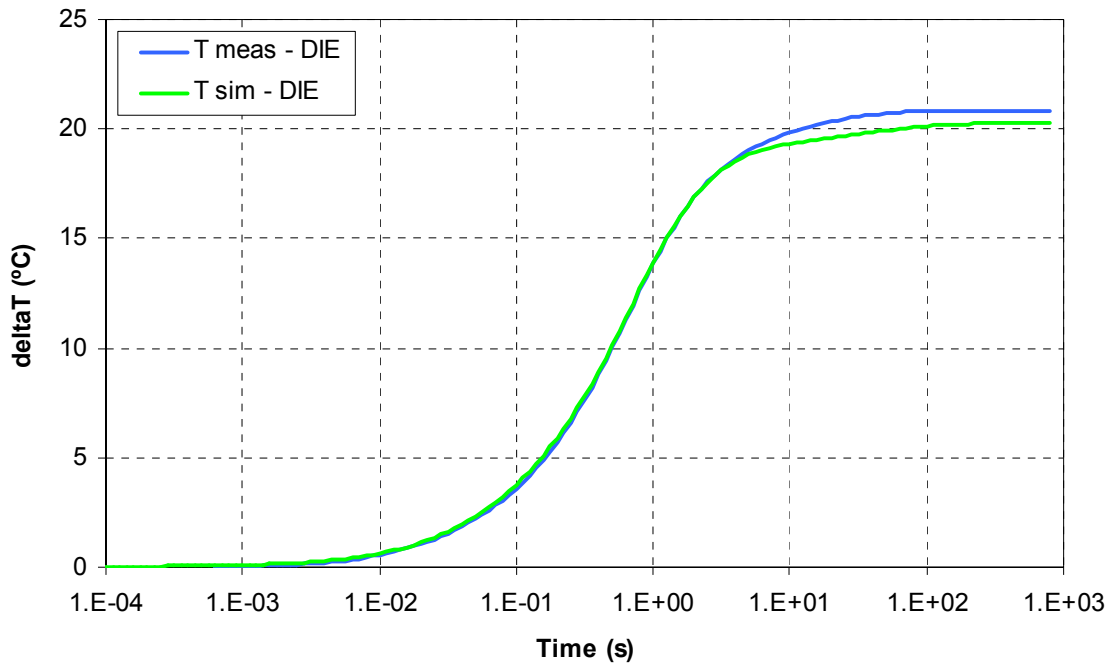


Fig. 3.1: DCP4 – TFBGA12x12, 168 - W.B. – Temperature Curves (P = 1.3 W)

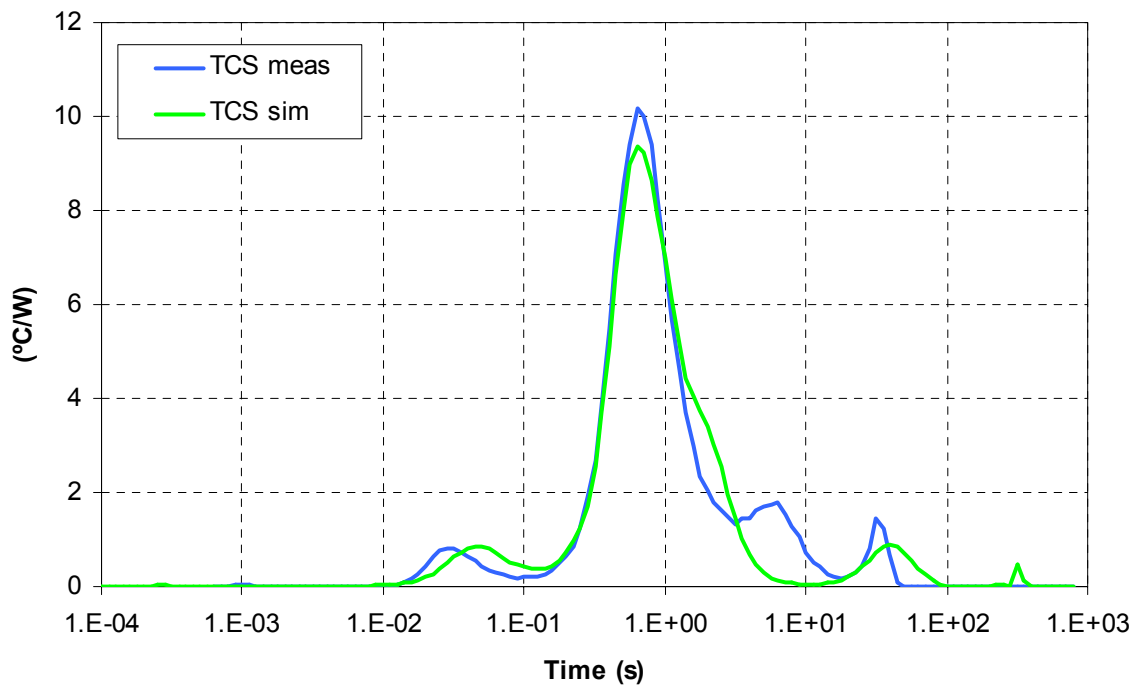


Fig. 3.2: DCP4 – TFBGA12x12, 168 - W.B. – Time Constant Spectra

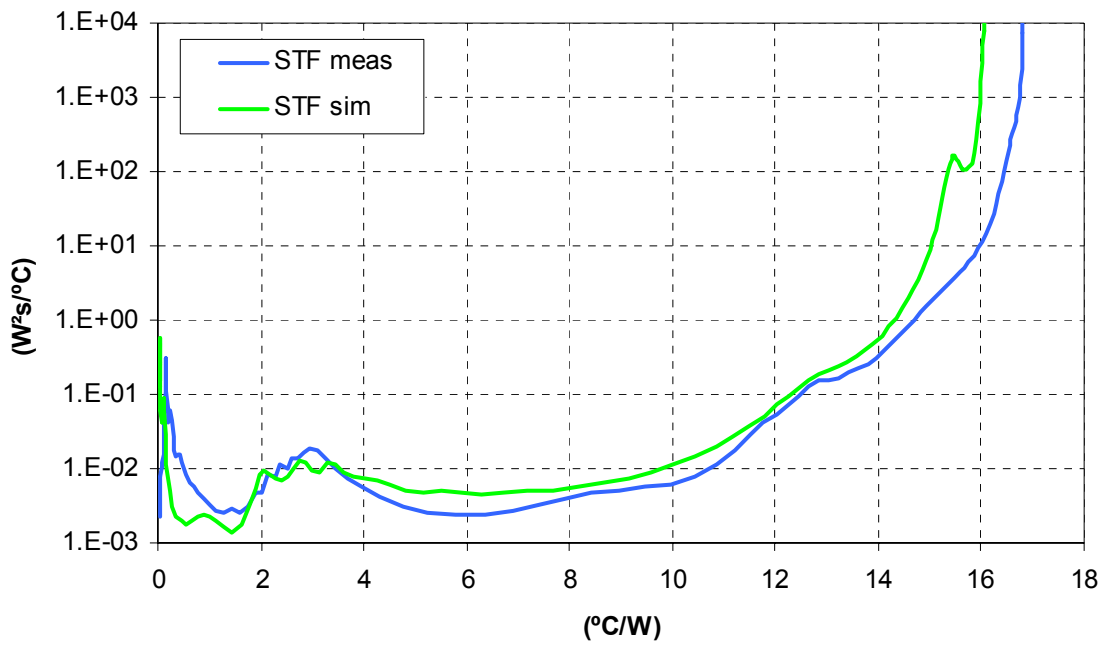


Fig. 3.3: DCP4 – TFBGA12x12, 168 - W.B. – Structure Functions

1.4 Measurements & Simulations: Error Calculations

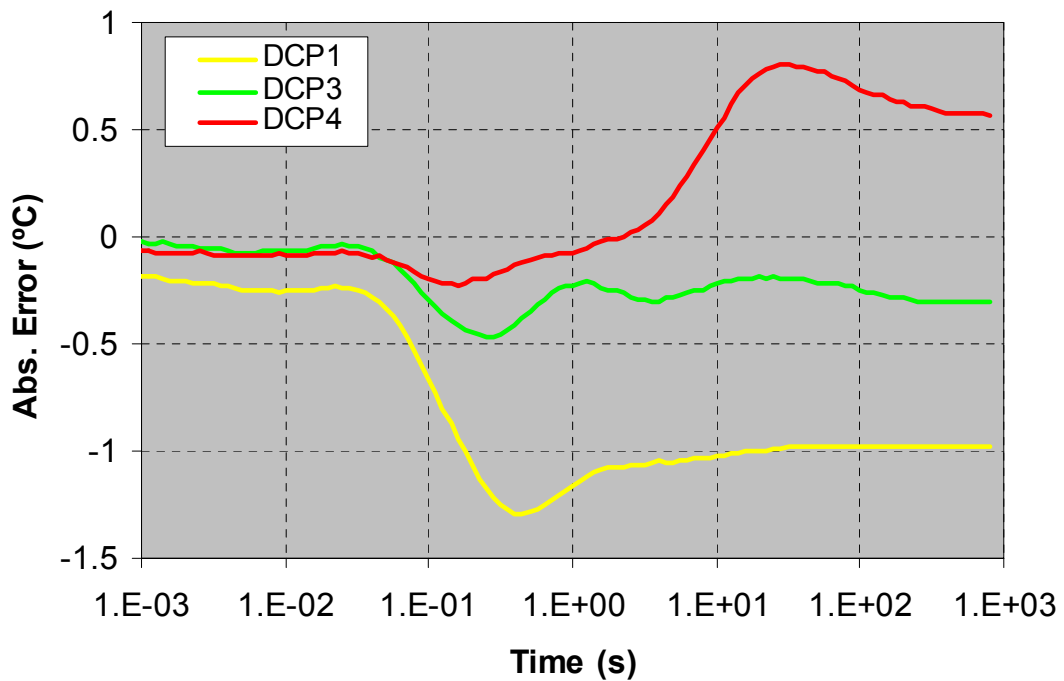


Fig. 4.1: TFBGA12x12, 168 - W.B. – Absolute Error

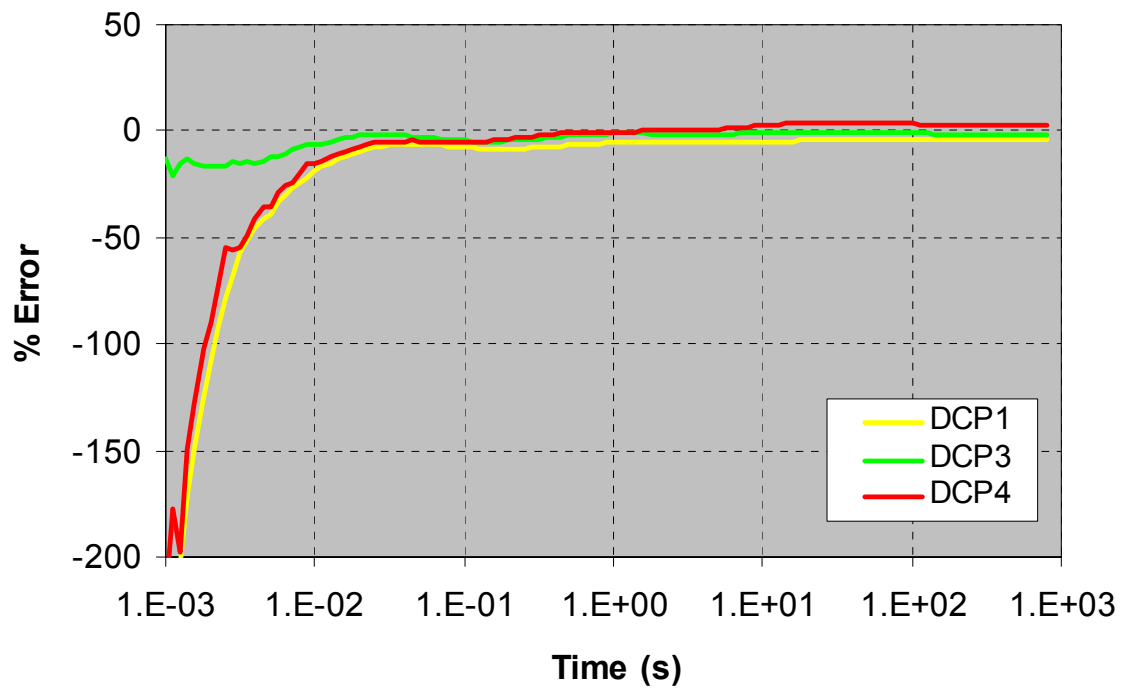


Fig. 4.2: TFBGA12x12, 168 - W.B. – Error (%)

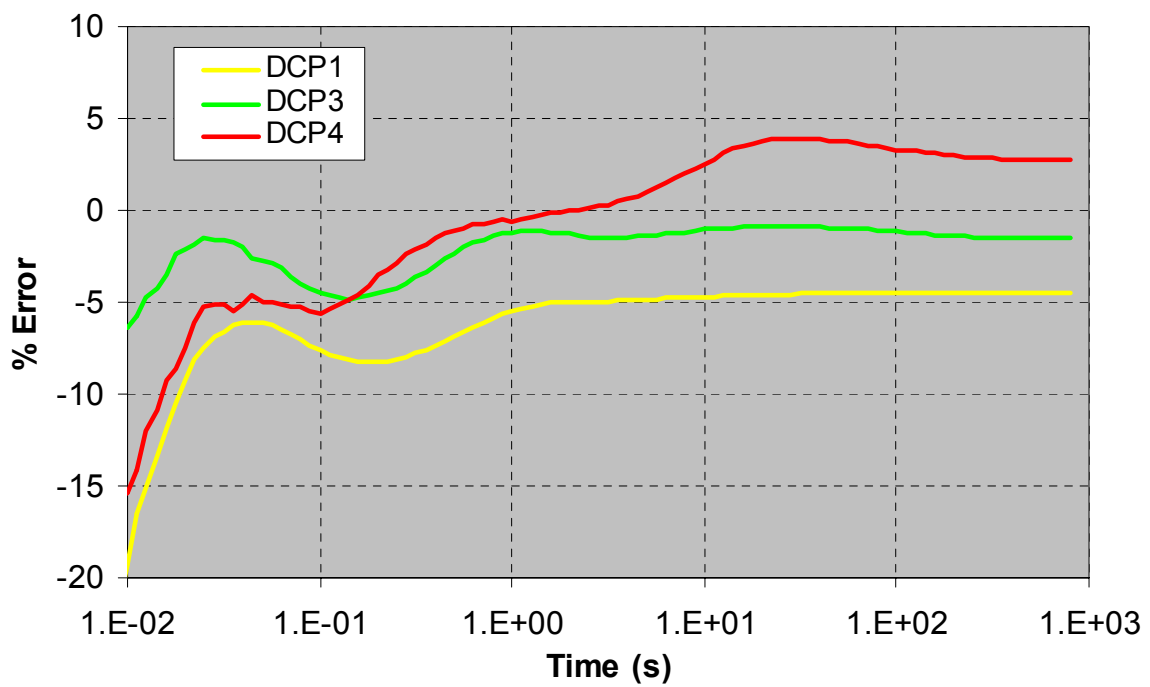


Fig. 4.3: TFBGA12x12, 168 - W.B. – Rescaling fig. 4.2 starting from 10 ms

2. TFBGA12x12, 148 - F.C.

2.1 DCP1: Temperature Curves, Time constant Spectra and Structure Functions

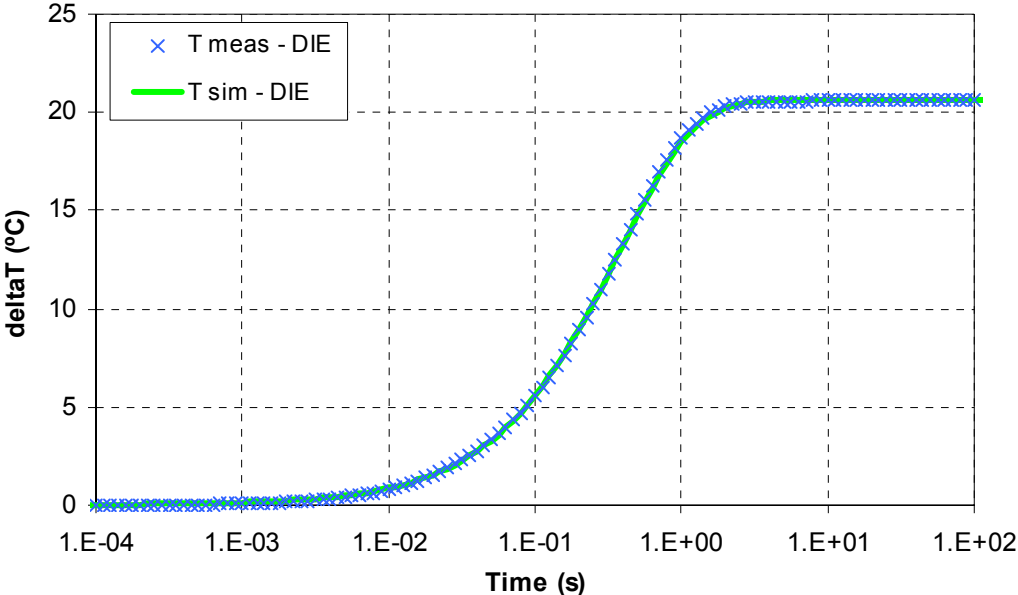


Fig. 1.1: DCP1 – TFBGA12x12, 148 - F.C. – Temperature Curves (P = 2.4 W)

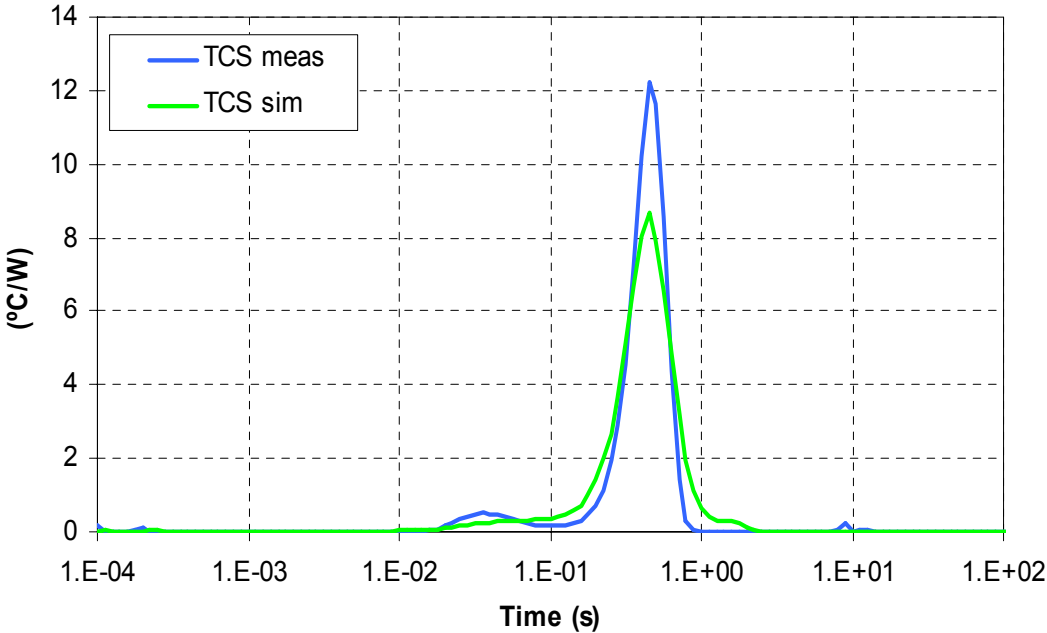


Fig. 1.2: DCP1 – TFBGA12x12, 148 - F.C. – Time Constant Spectra

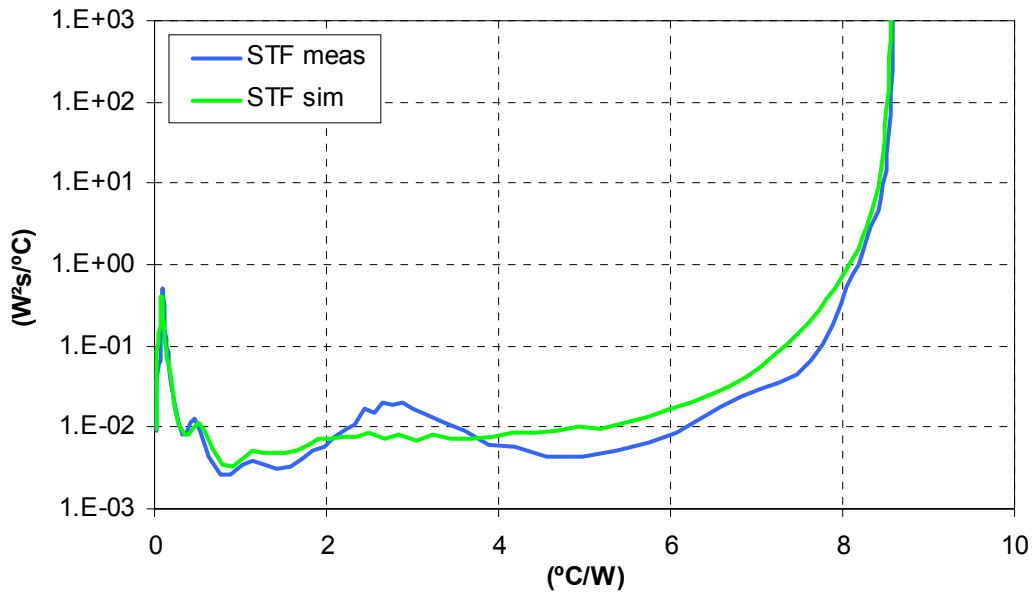


Fig. 1.3: DCP1 – TFBGA12x12, 148 - F.C. – Structure Functions

2.2 DCP3: Temperature Curves, Time Constant Spectra and Structure Functions

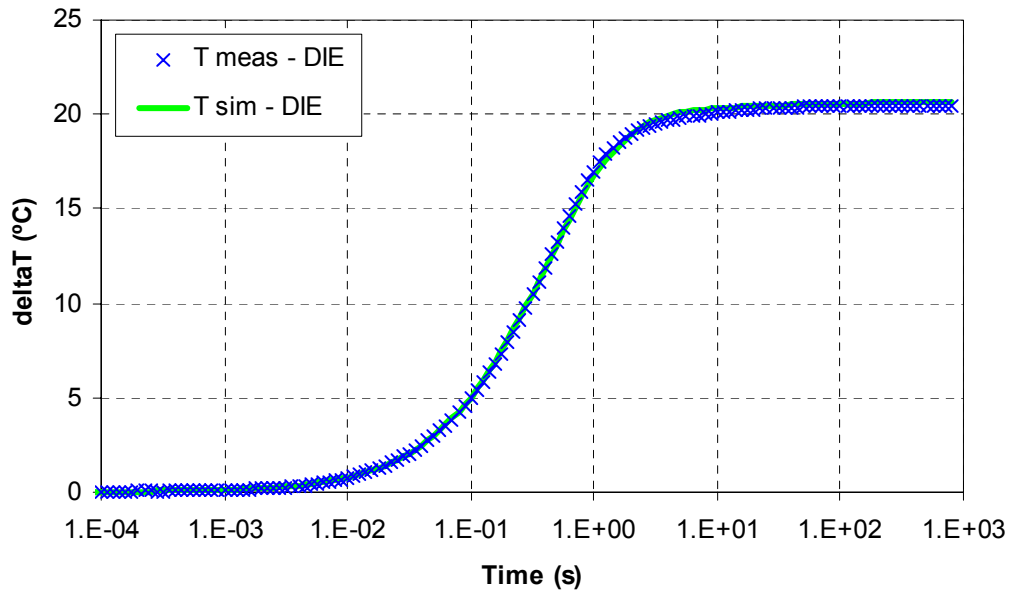


Fig. 2.1: DCP3 – TFBGA 12x12 148 - F.C. – Temperature Curves (P = 2.2 W)

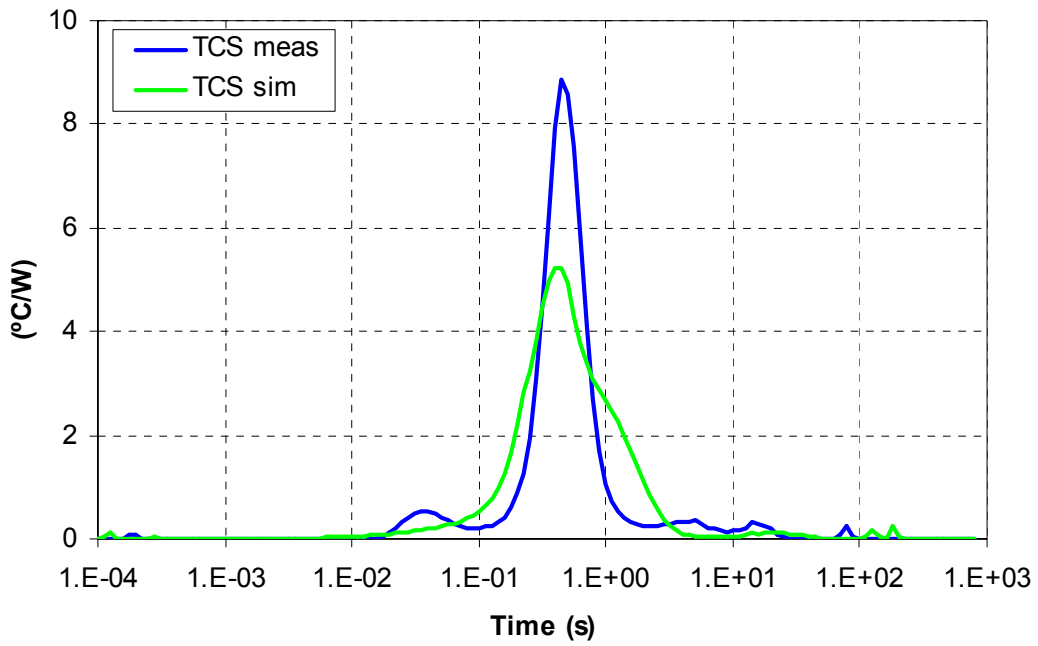


Fig. 2.2: DCP3 – TFBGA 12x12 148 - F.C. – Time Constant Spectra

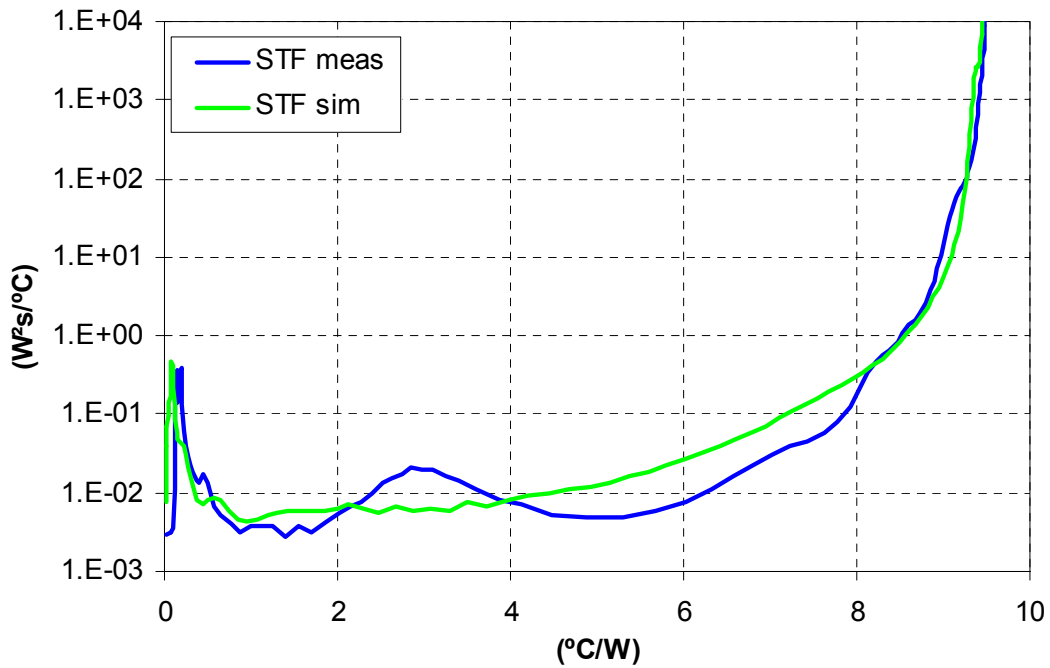


Fig. 2.3: DCP3 – TFBGA 12x12 148 - F.C. – Structure Functions

2.3 DCP4: Temperature Curves, Time Constant Spectra and Structure Functions

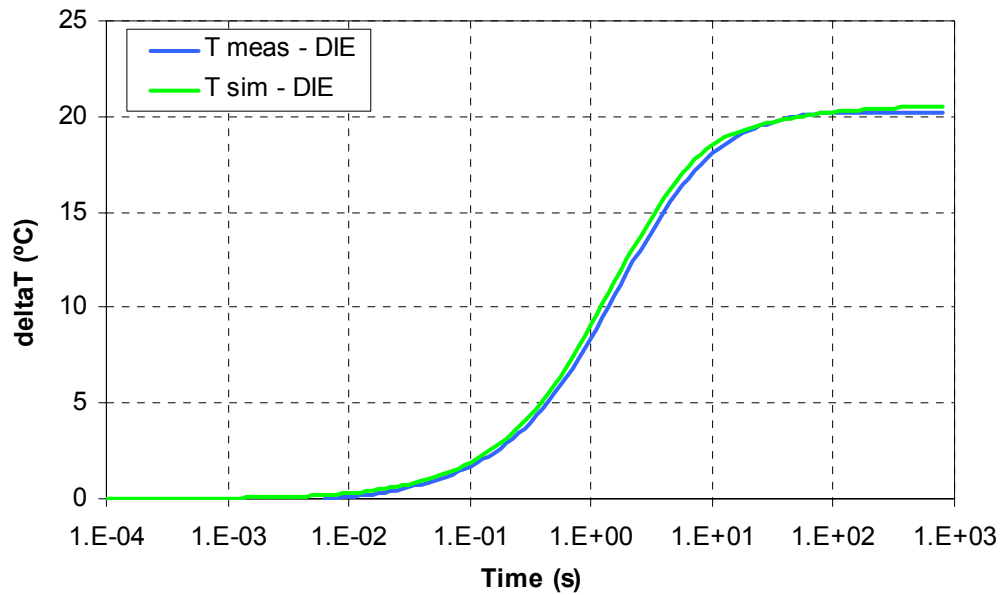


Fig. 3.1: DCP4 – TFBGA 12x12 148 - F.C. – Temperature Curves (P = 0.8 W)

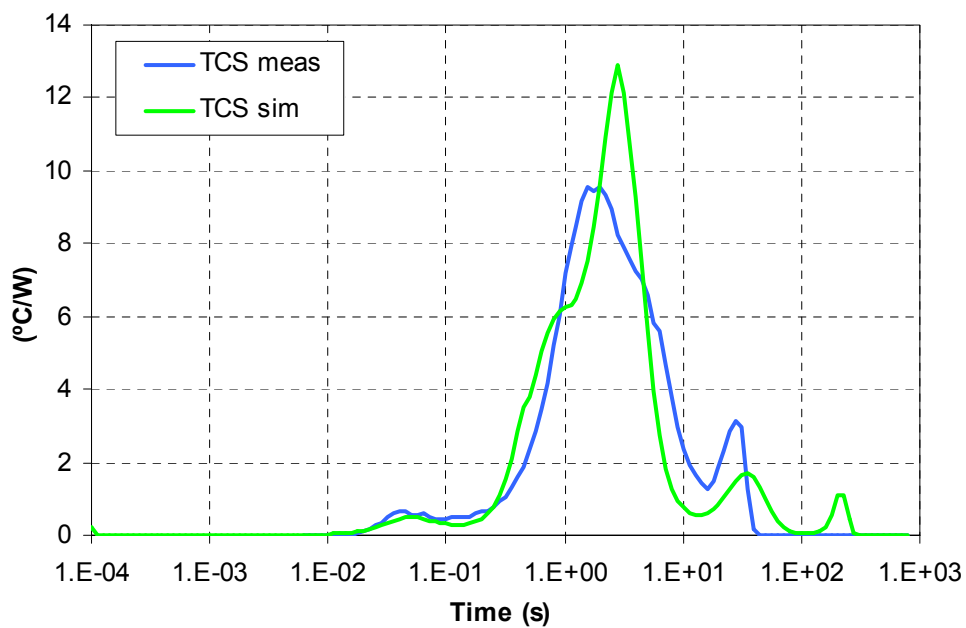


Fig.3.2: DCP4 – TFBGA 12x12 148 - F.C. – Time Constant Spectra

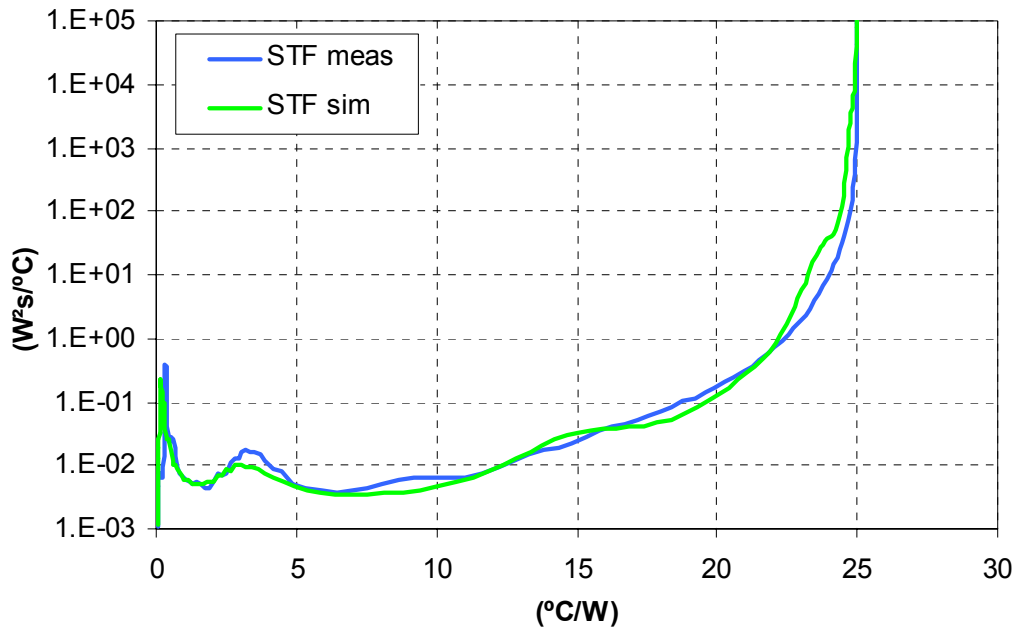


Fig. 3.3: DCP4 – TFBGA 12x12 148 - F.C. – Structure Functions

2.4 Measurements & Simulations: Error Calculations

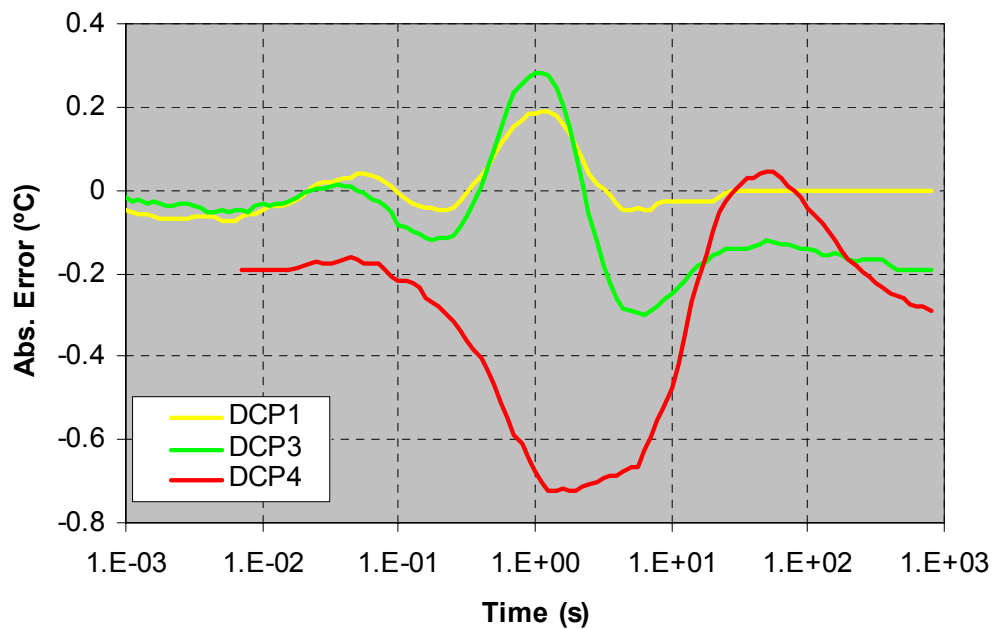


Fig. 4.1: TFBGA 12x12 148 - F.C. – Absolute error

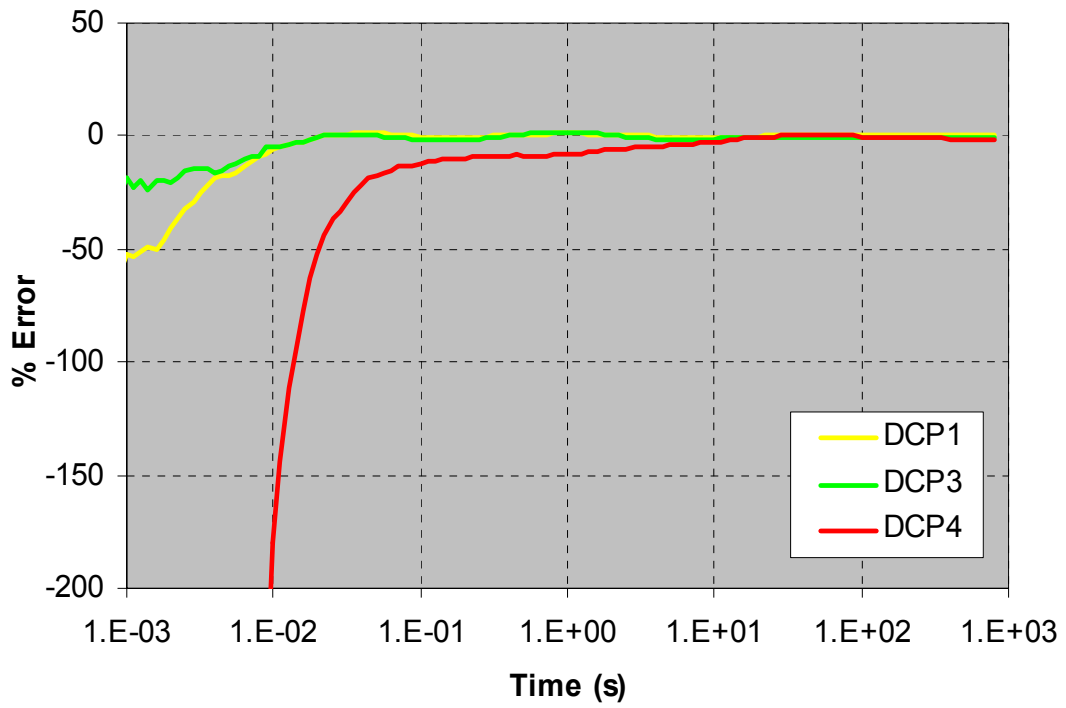


Fig. 4.2: TFBGA 12x12 148 - F.C. – Error (%)

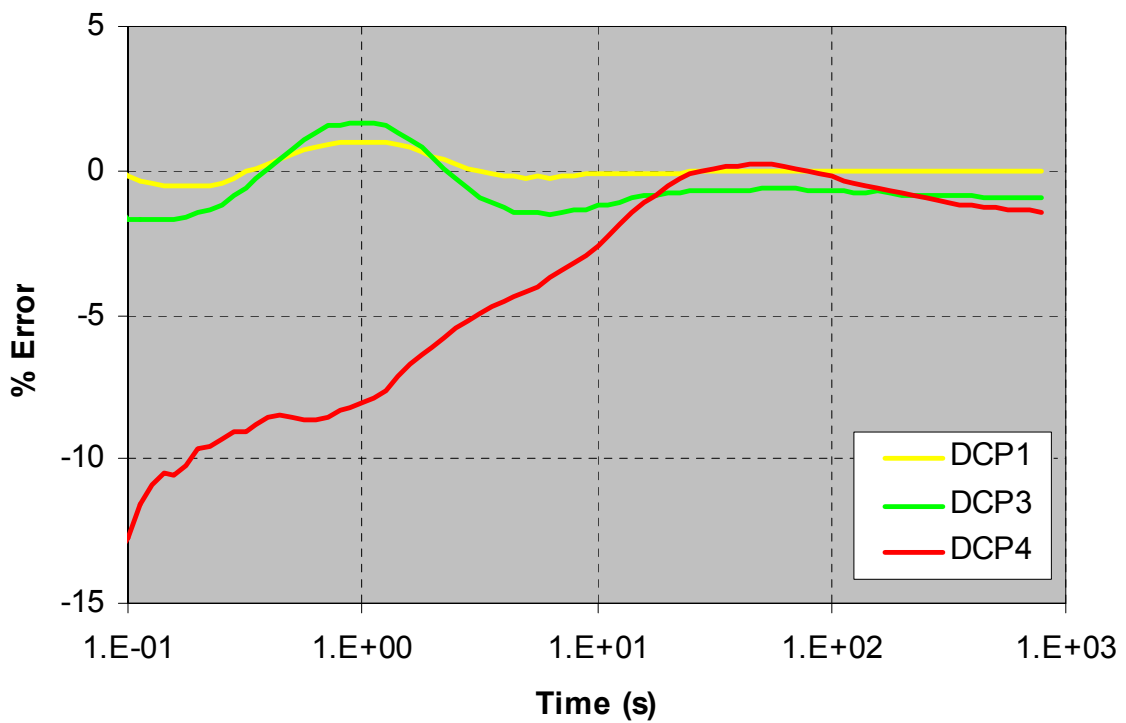


Figure 4.3: TFBGA 12x12 148 - F.C. – Rescaling fig. 4.2 starting from 100 ms