

STM Measured and Simulated Curves

1. HiQUAD64

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

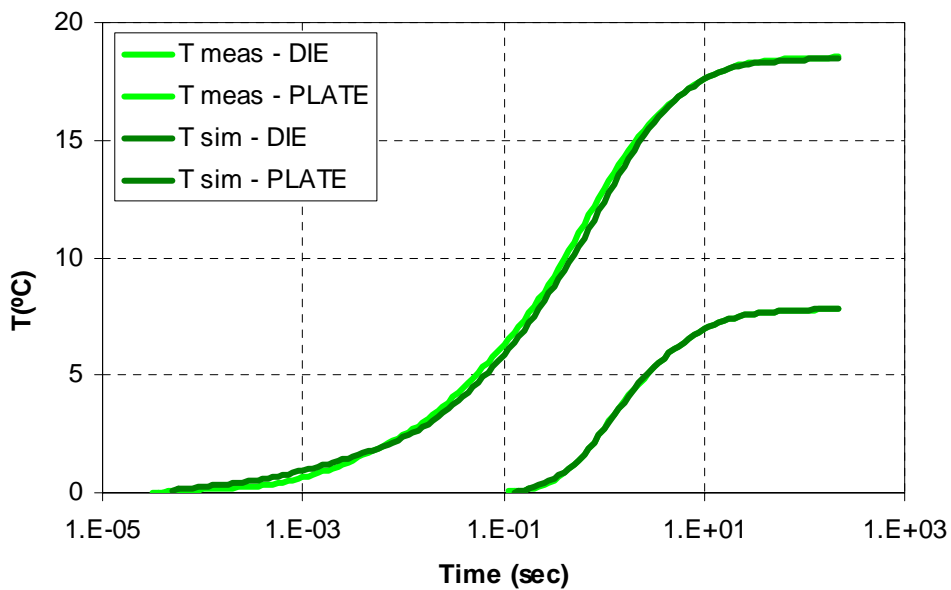


Fig. 1.1: DCP1 – HIQUAD64: Temperature Curves (P = 17 W)

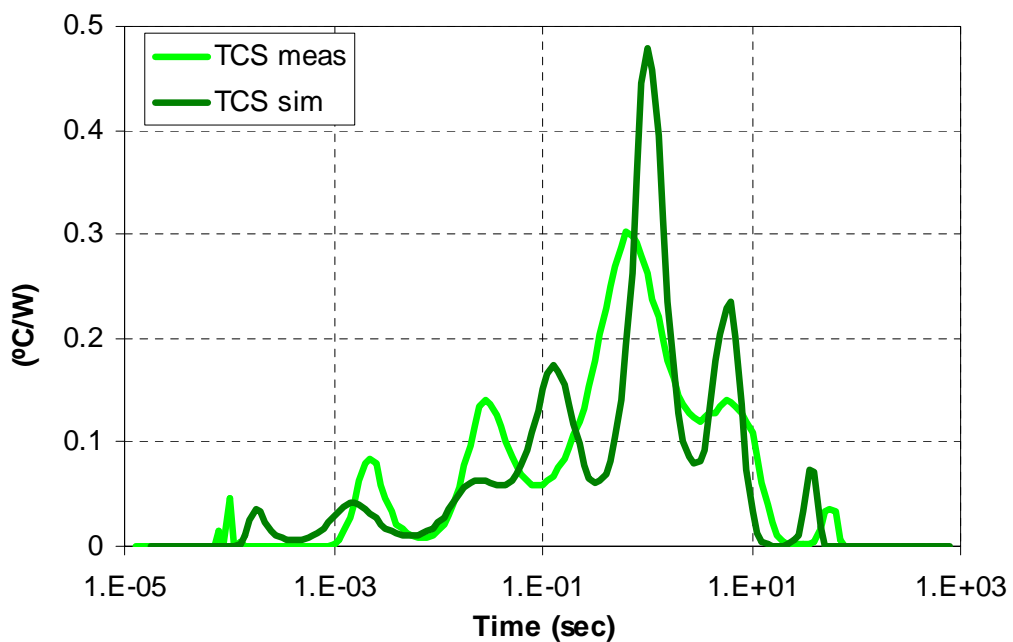


Fig. 1.2: DCP1 – HIQUAD64: Time Constant Spectra

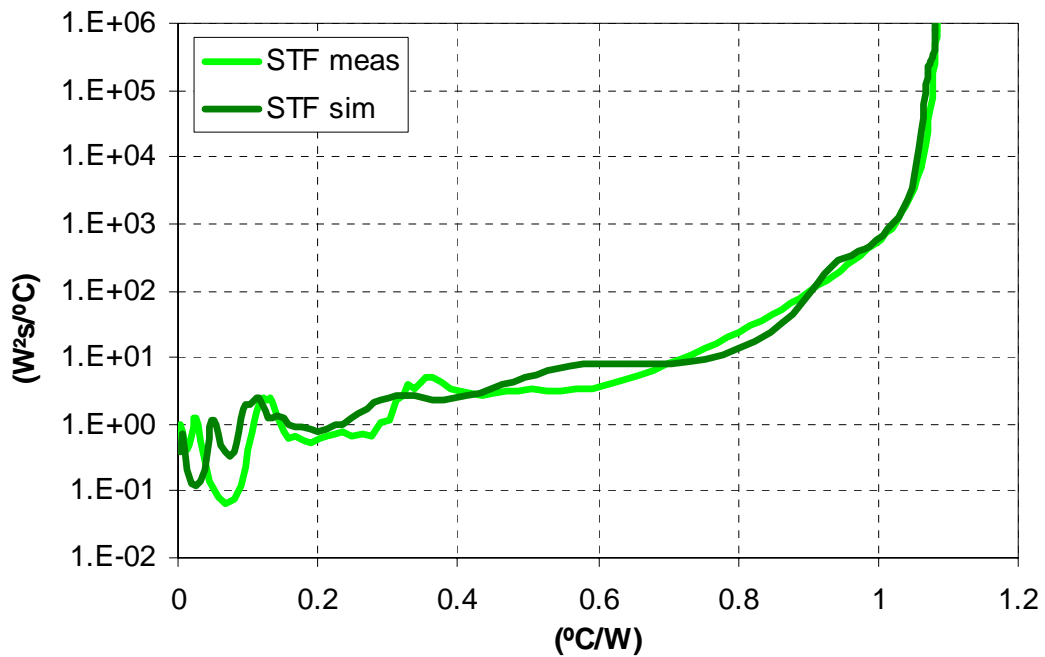


Fig. 1.3: DCP1 – HiQUAD64: Structure Functions

1.2 DCP2: Temperature Curves, Time Constant Spectra and Structure Functions

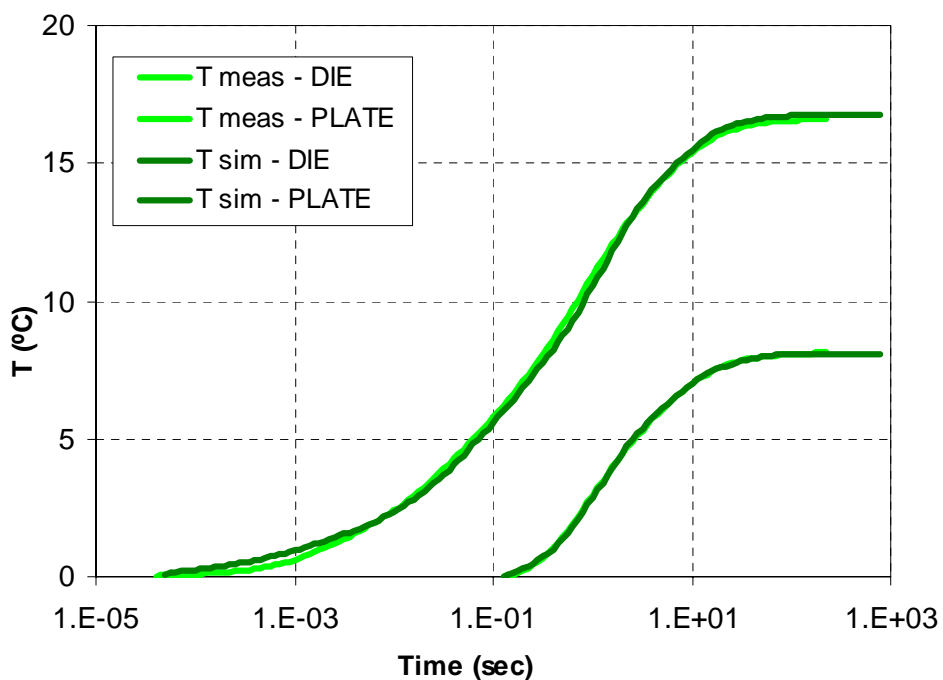


Fig. 2.1: DCP2 – HiQUAD64: Temperature Curves (P = 17 W)

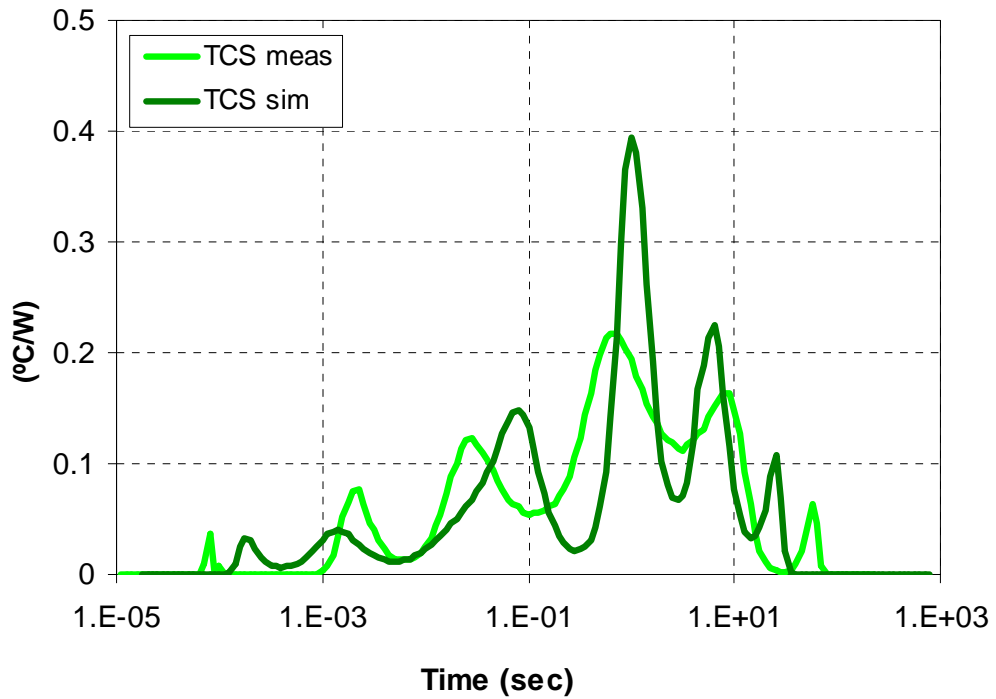


Fig. 2.2: DCP2 – HiQUAD64: Time Constant Spectra

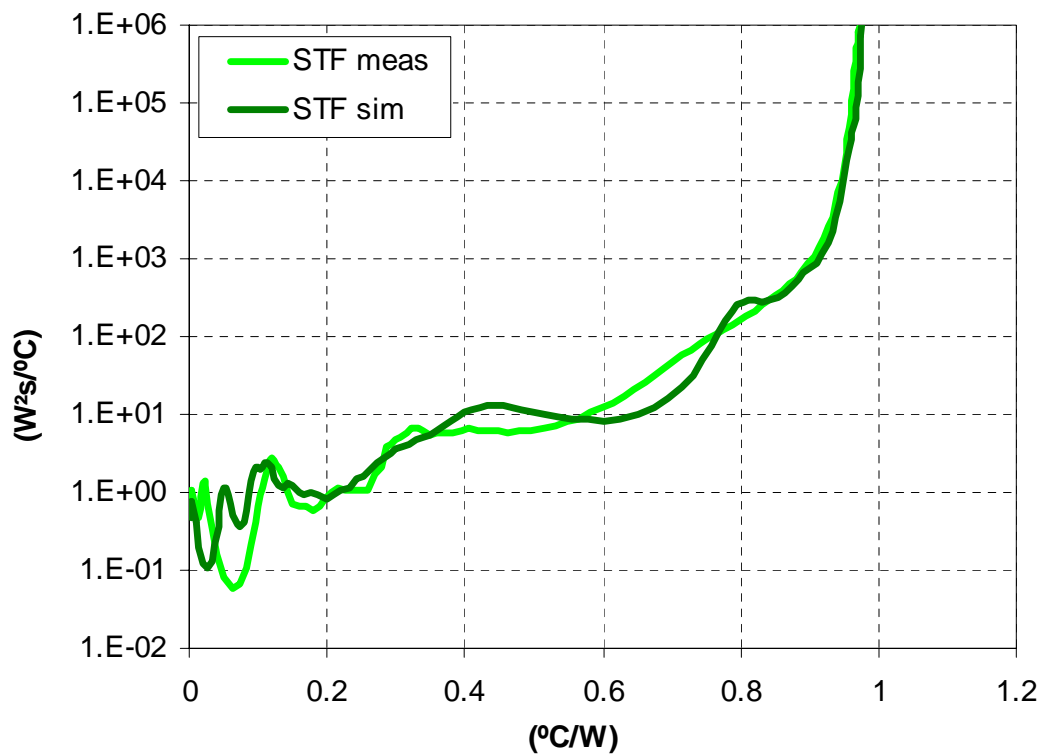


Fig. 2.3: DCP2 – HiQUAD64: Structure Functions

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

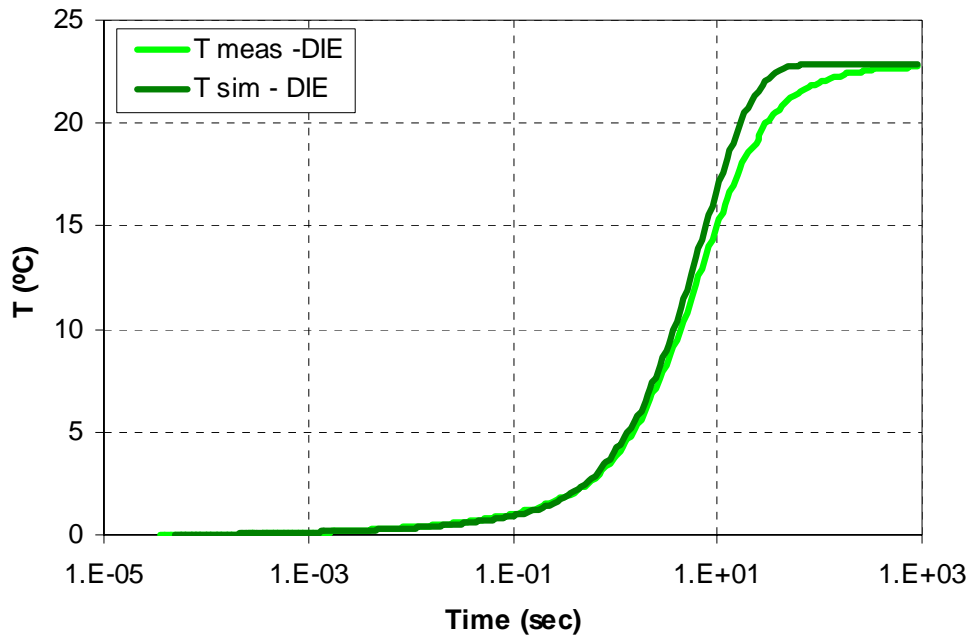


Fig. 3.1: DCP3 – HIQUAD64: Temperature Curves ($P = 2.5$ W)

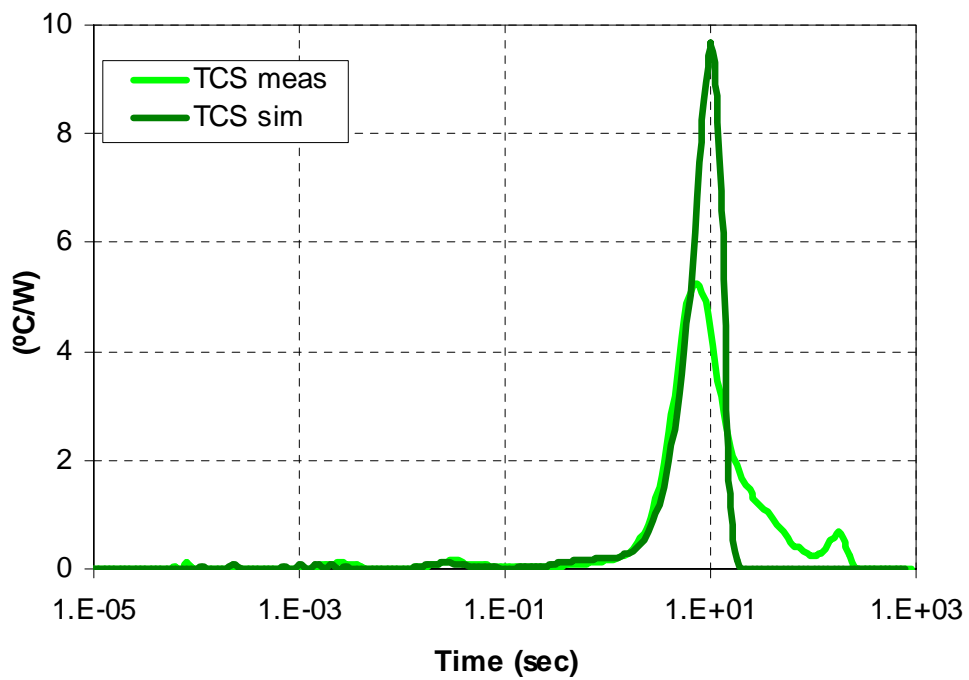


Fig. 3.2: DCP3 – HIQUAD64: Time Constant Spectra

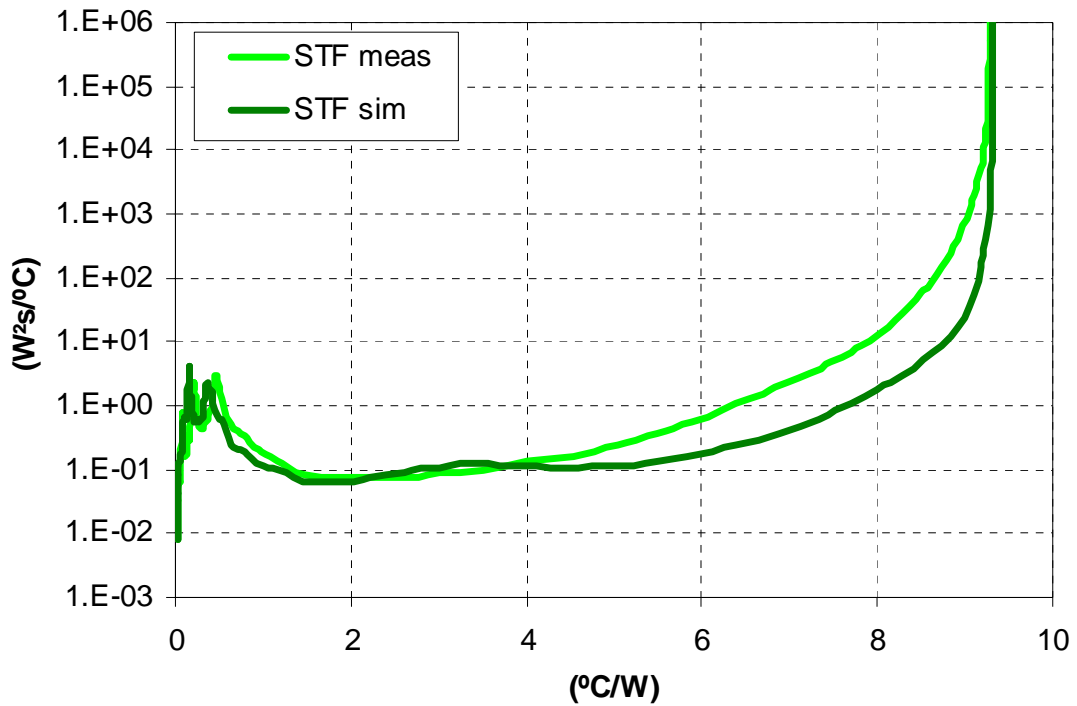


Fig. 3.3: DCP3 – HIQUAD64: Structure Functions

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

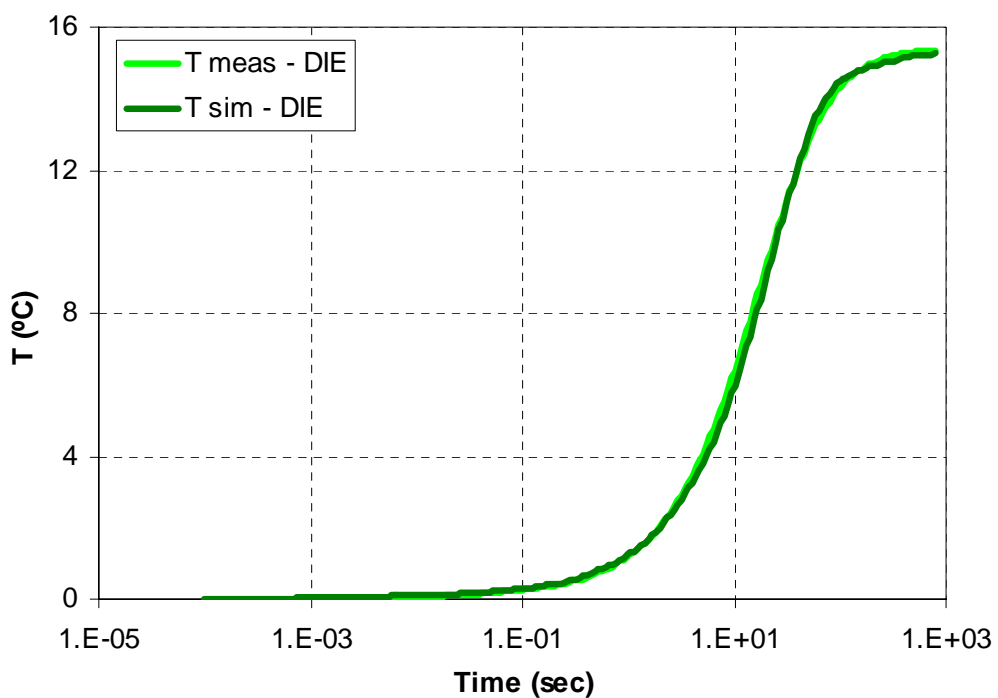


Fig. 4.1: DCP4 – HiQUAD64: Temperature Curves (P = 0.8 W)

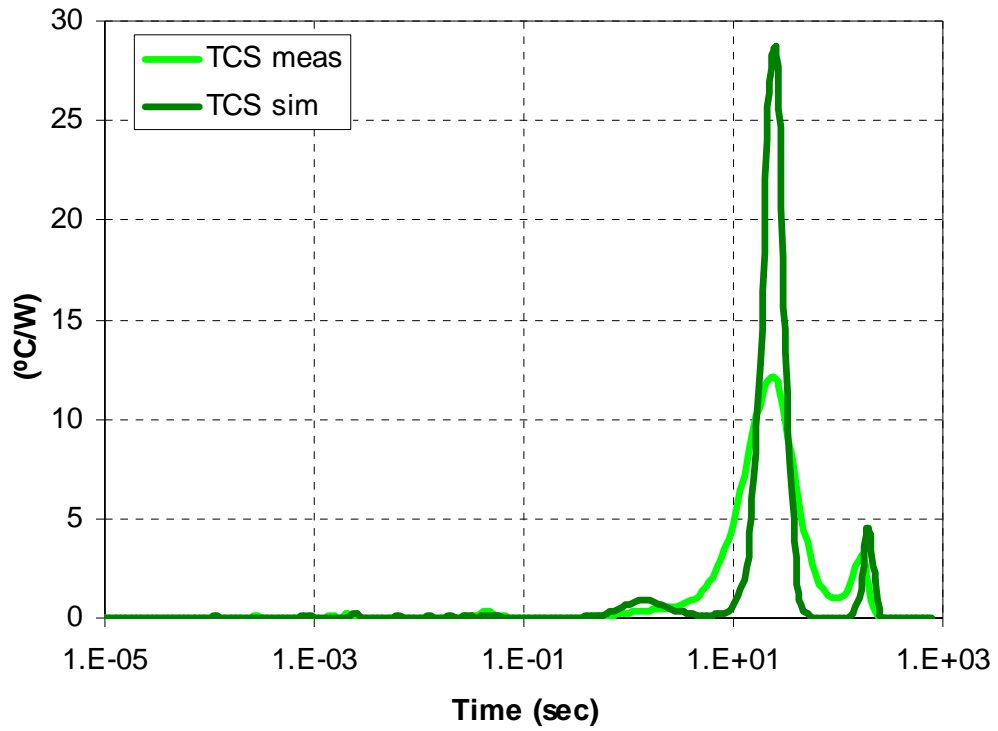


Fig. 4.2: DCP4 – HiQUAD64: Time Constant Spectra

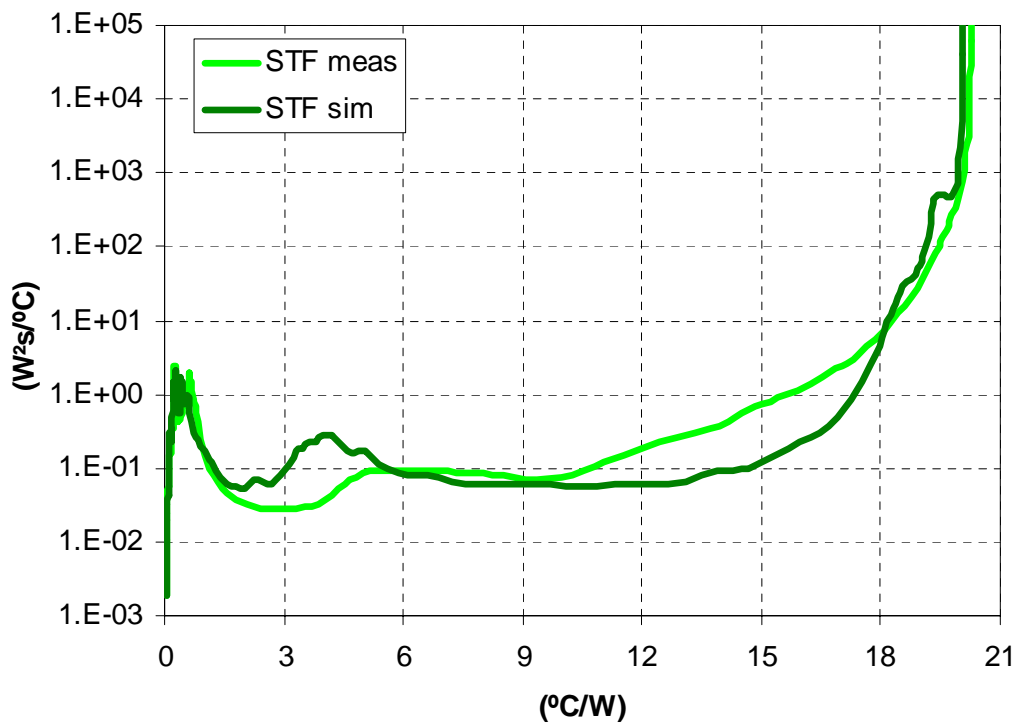


Fig. 4.3: DCP4 – HiQUAD64: Structure Functions

1.5 Measurements & Simulations: Error Calculations

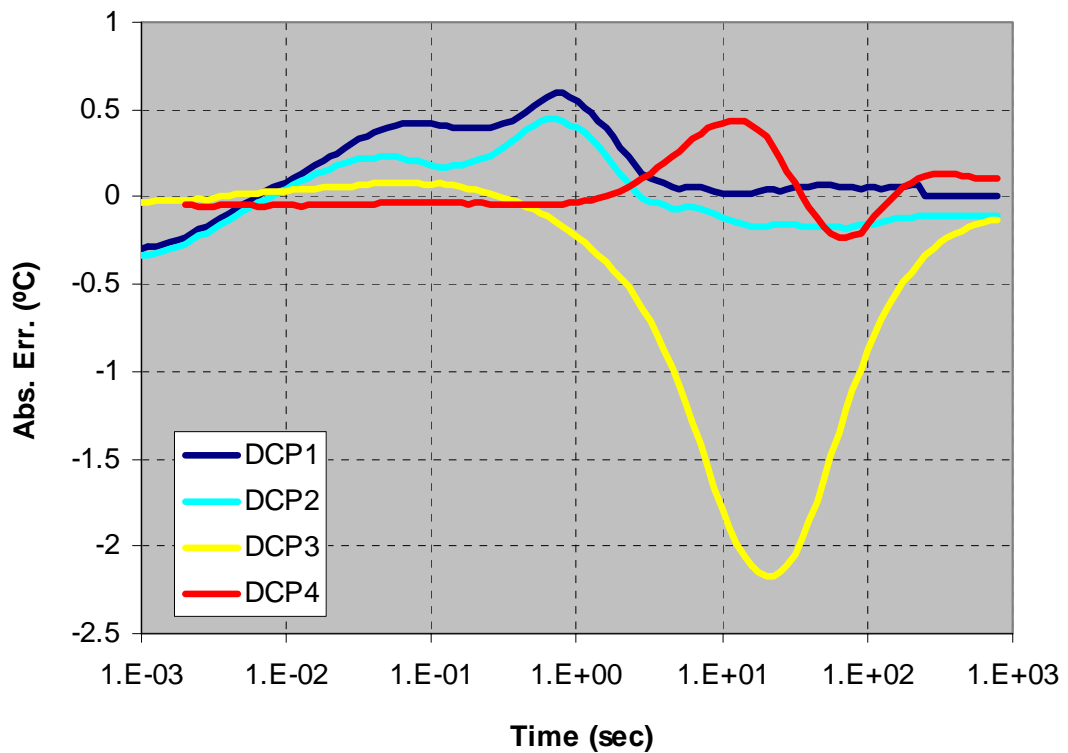


Fig. 5.1: HiQUAD64: Absolute Error

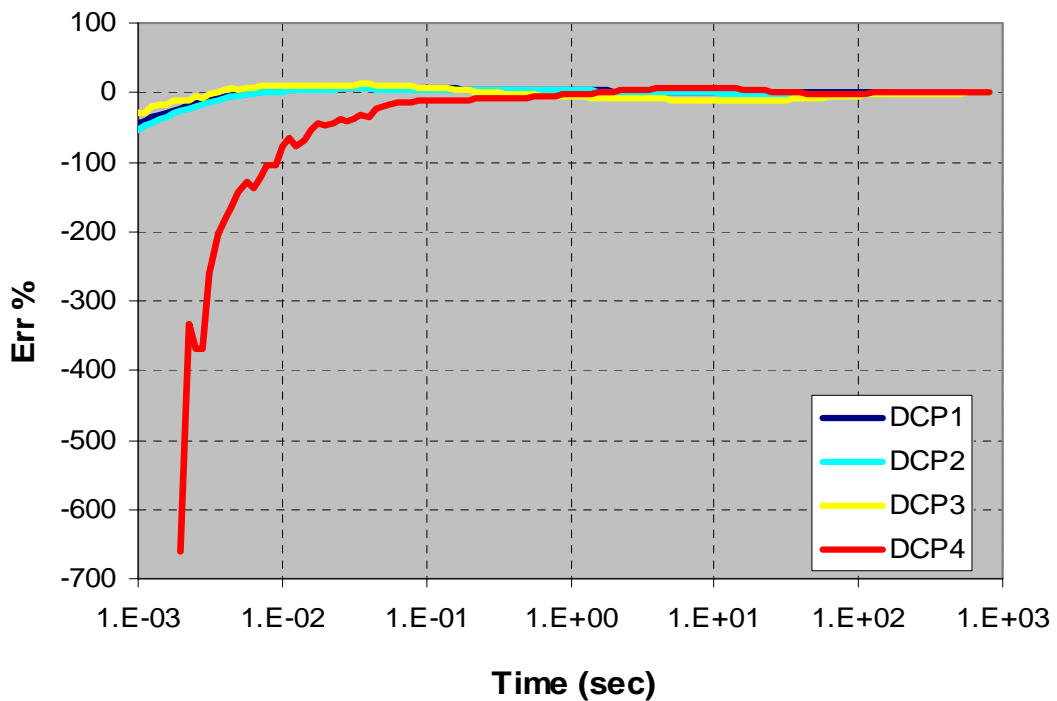


Fig. 5.2: HiQUAD64: Error (%)

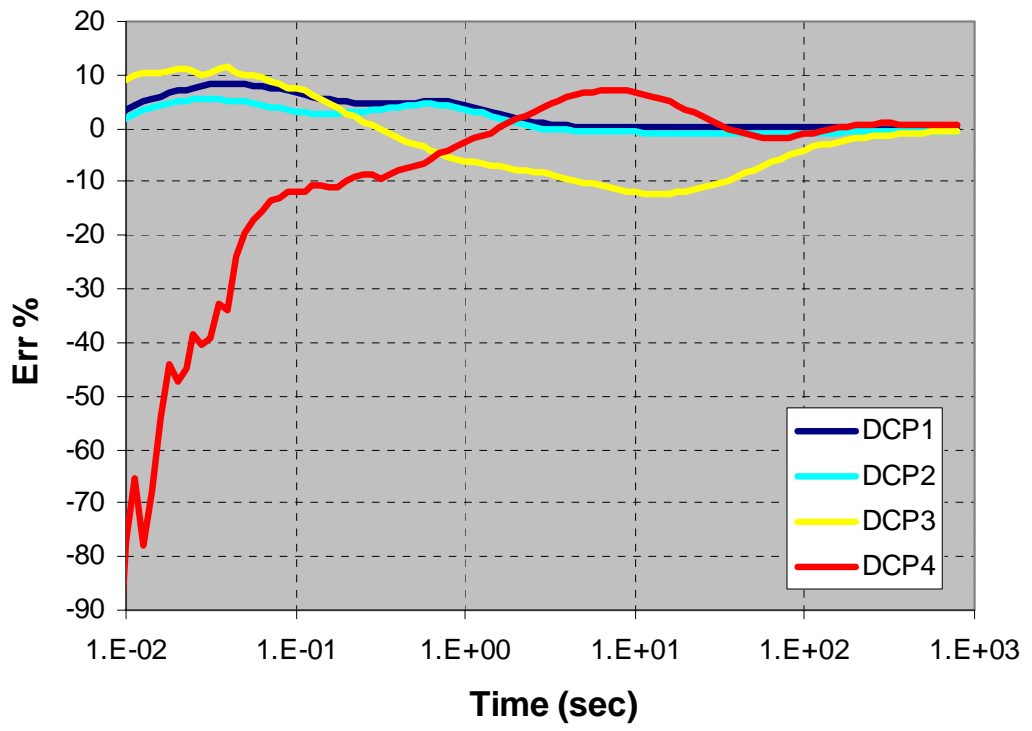


Fig. 5.3: HiQUAD64: Rescaling fig. 5.2 starting from 10 msec

2. LFBGA 12x12 168

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

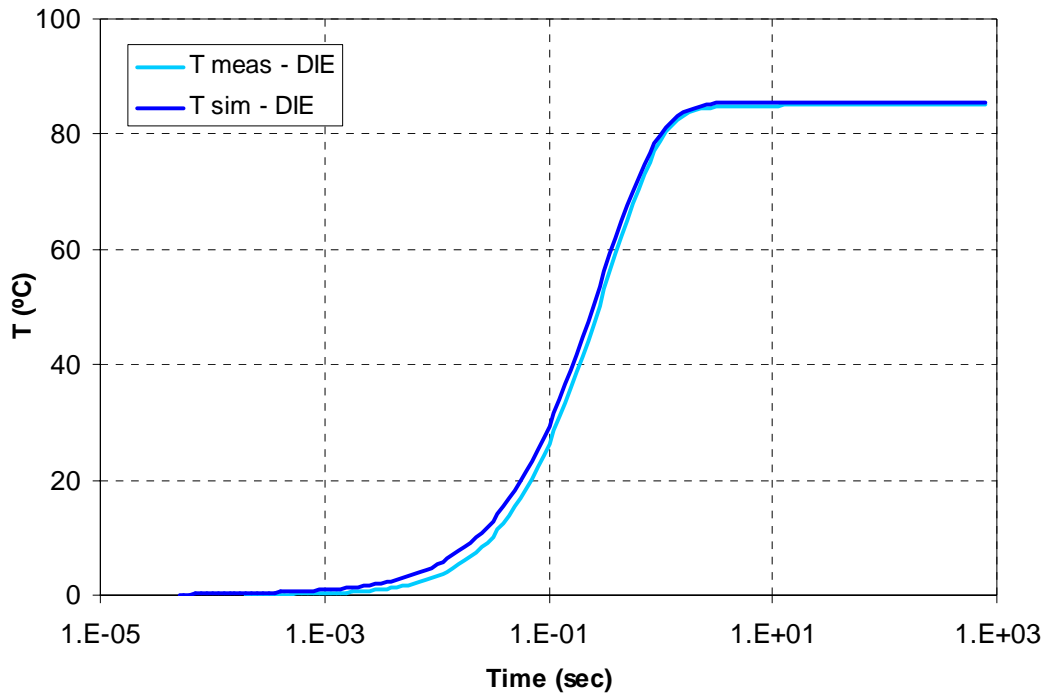


Fig. 1.1: DCP1 – LFBGA 12x12 168: Temperature Curves (P = 13 W)

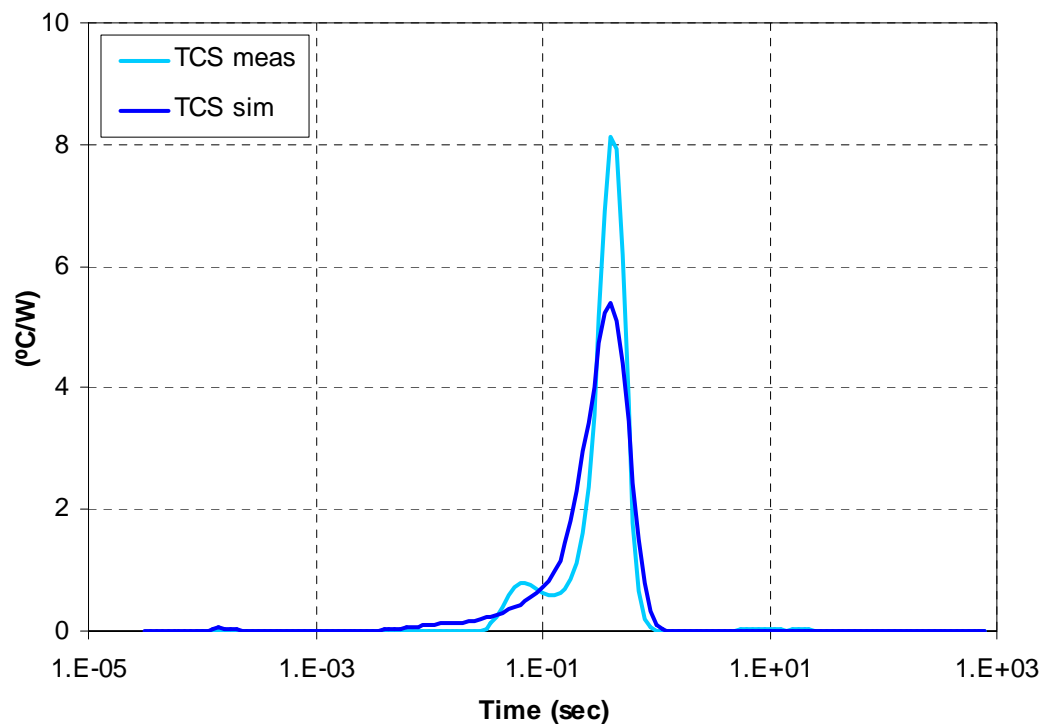


Fig. 1.2: DCP1 – LFBGA 12x12 168: Time Constant Spectra

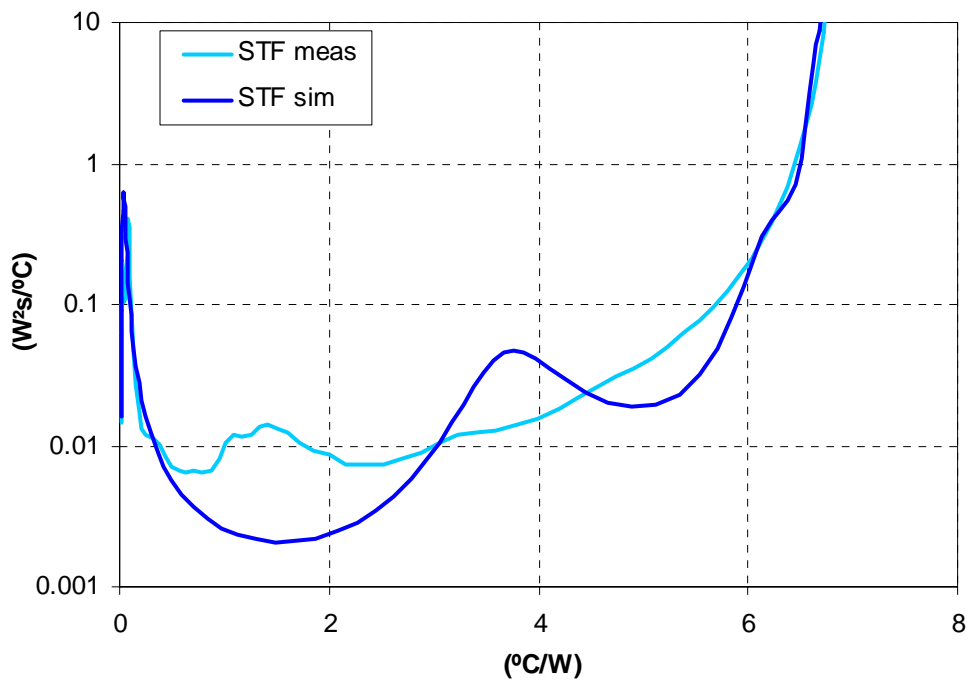


Fig. 1.3: DCP1 – LFBGA 12x12 168: Structure Functions

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

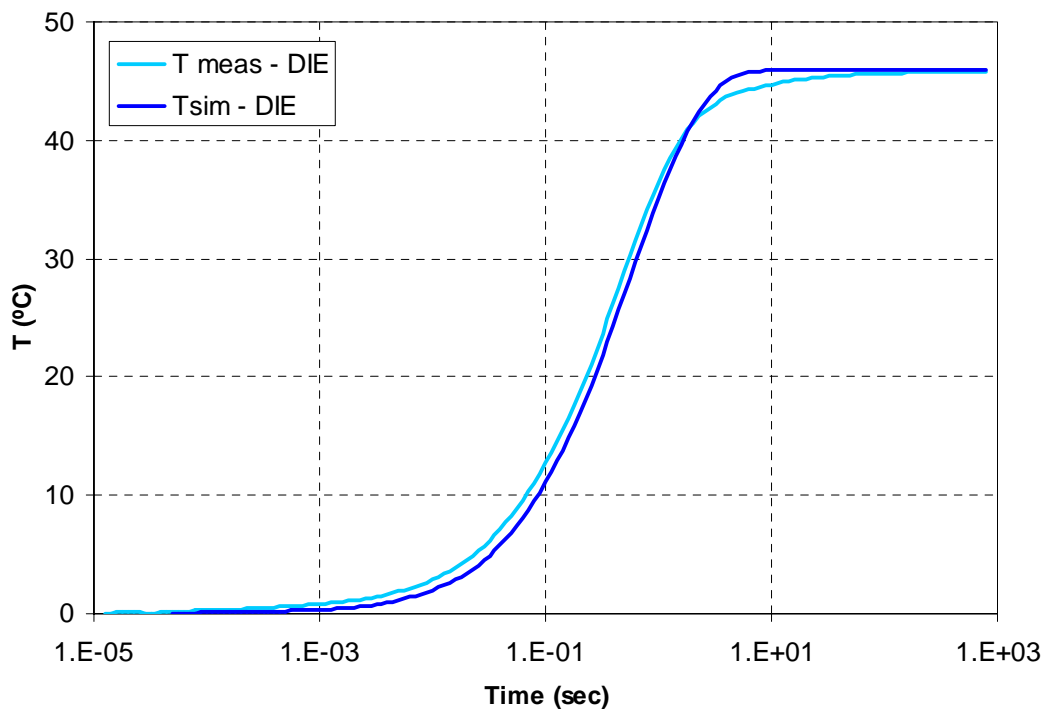


Fig. 2.1: DCP3 – LFBGA 12x12 168: Temperature Curves (P = 5 W)

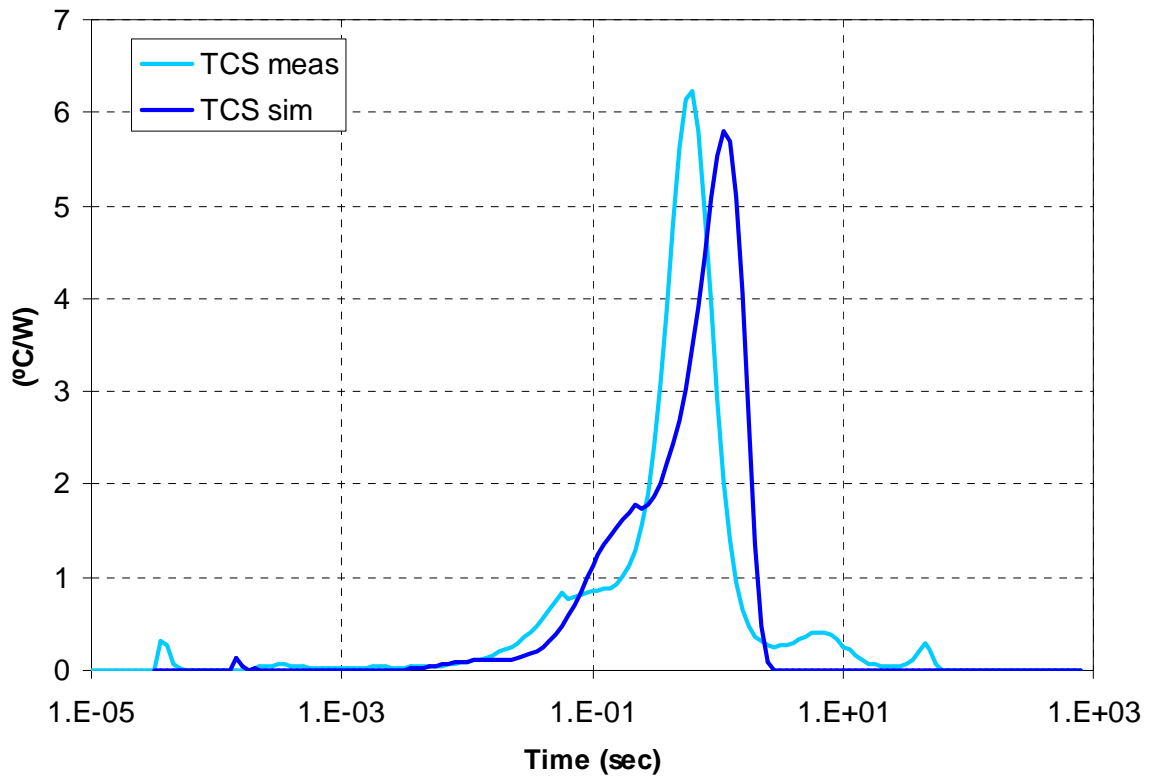


Fig. 2.2: DCP3 – LFBGA 12x12 168: Time Constant Spectra

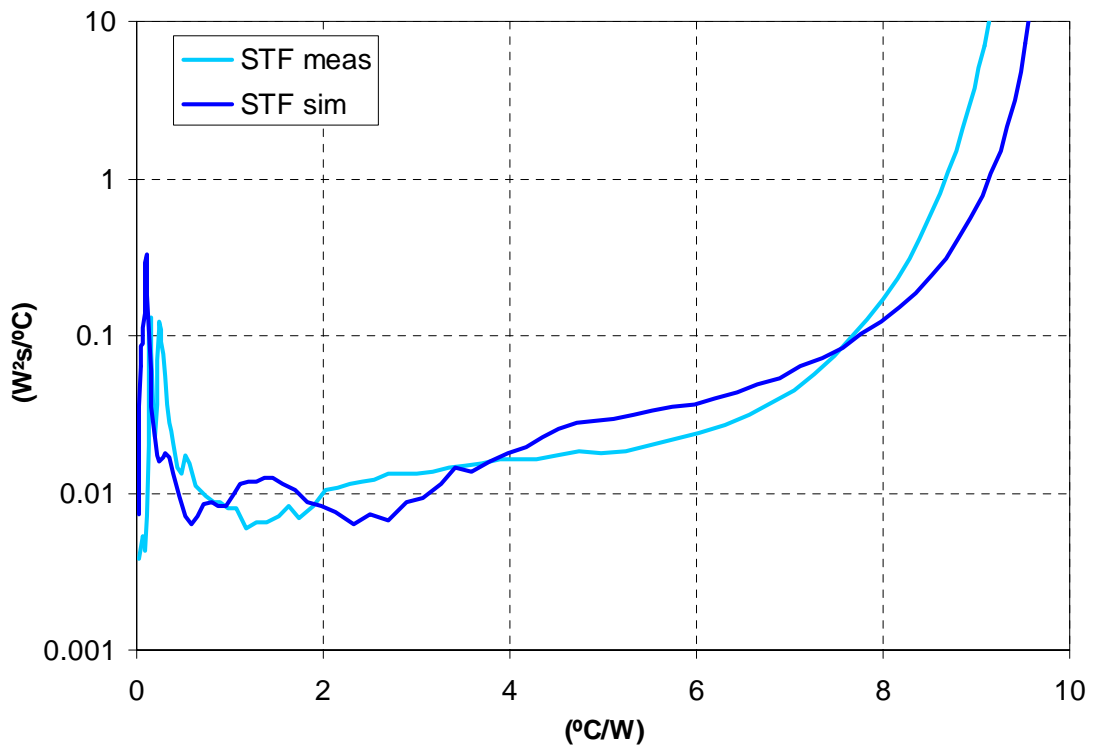


Fig. 2.3: DCP3 – LFBGA 12x12 168: Structure Functions

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

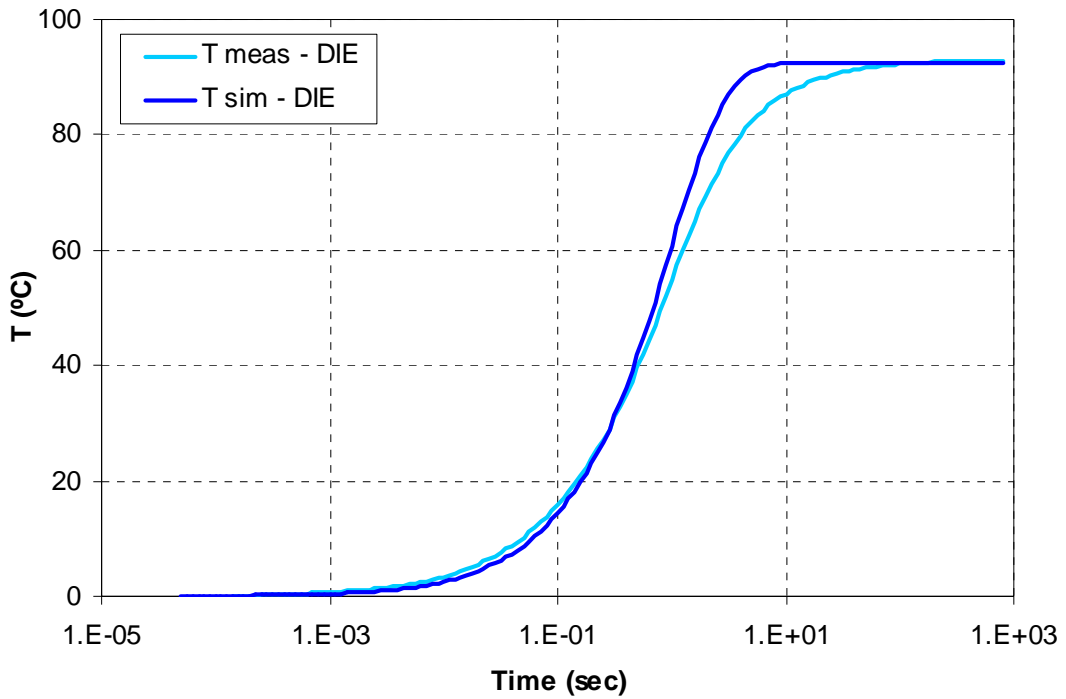


Fig. 3.1: DCP4 – LFBGA 12x12 168: Temperature Curves (P = 6 W)

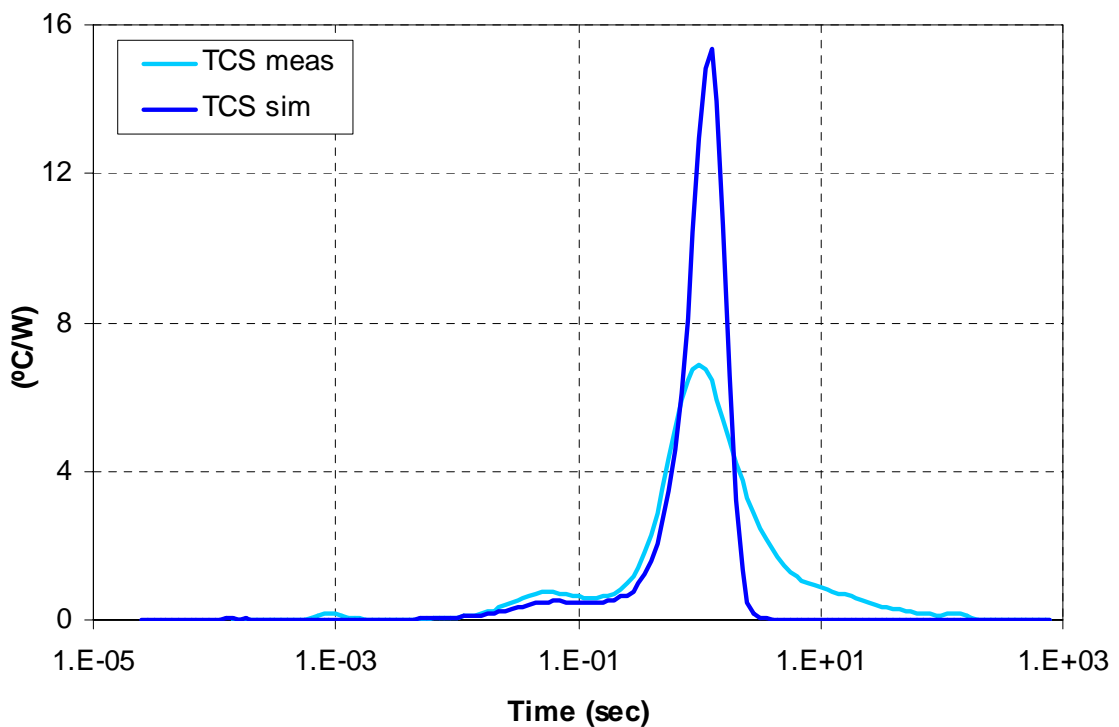


Fig.3.2: DCP4 – LFBGA 12x12 168: Time Constant Spectra

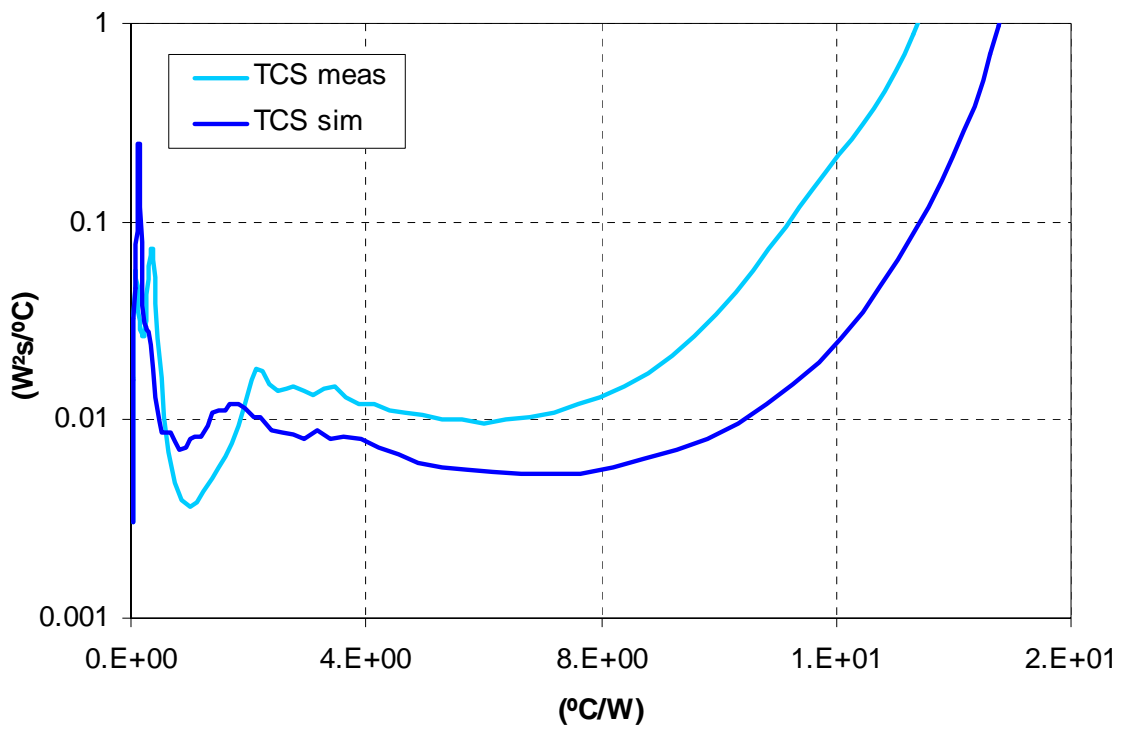


Fig. 3.3: DCP – LFBGA 12x12 168: Structure Functions

2.4 Measurements & Simulations: Error Calculations

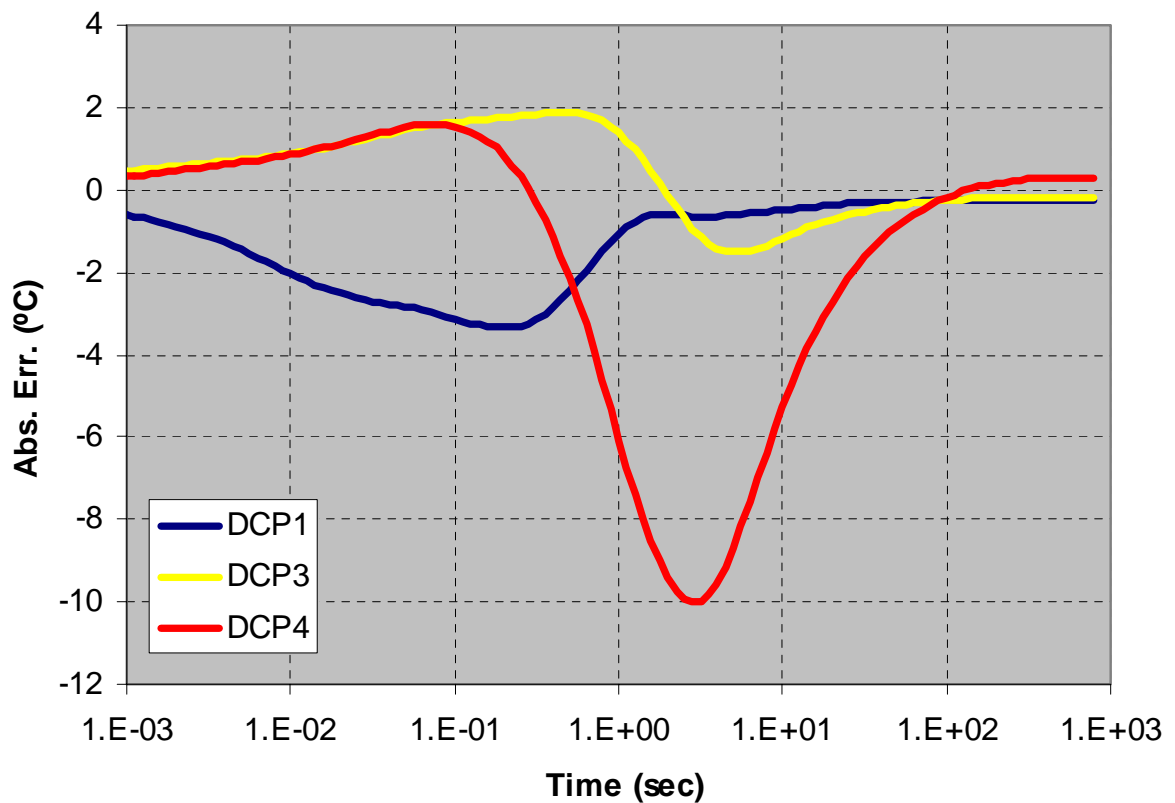


Fig. 4.1: LFBGA 12x12 168: Absolute error

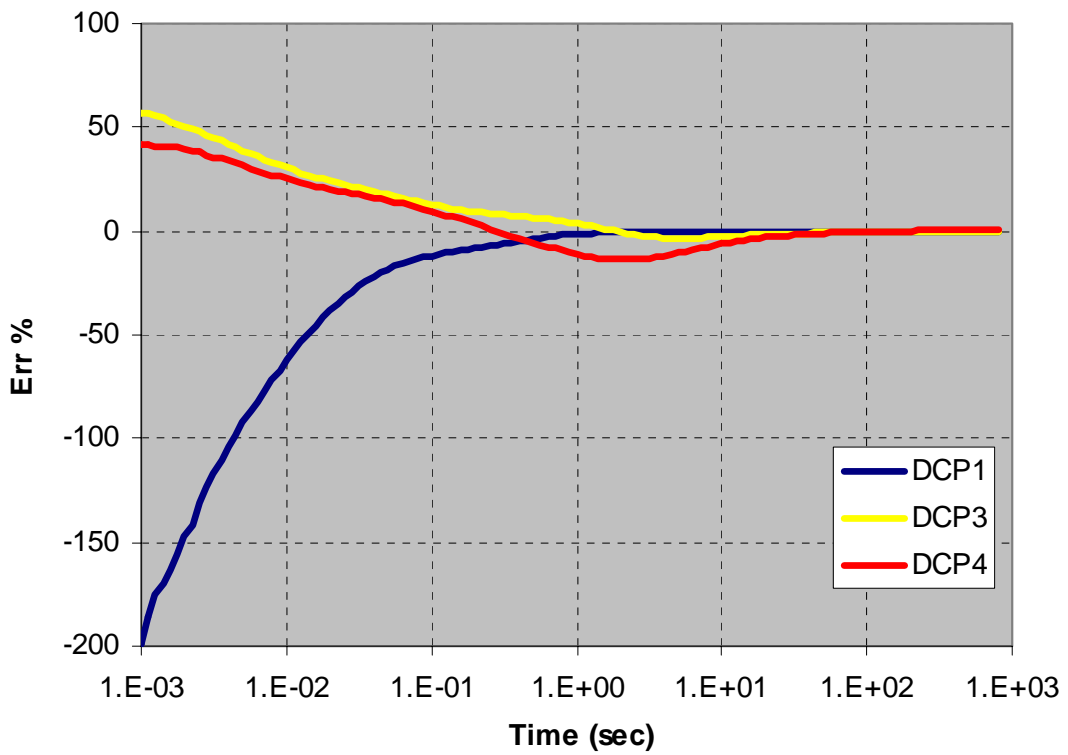


Fig. 4.2: LFBGA 12x12 168: Error (%)

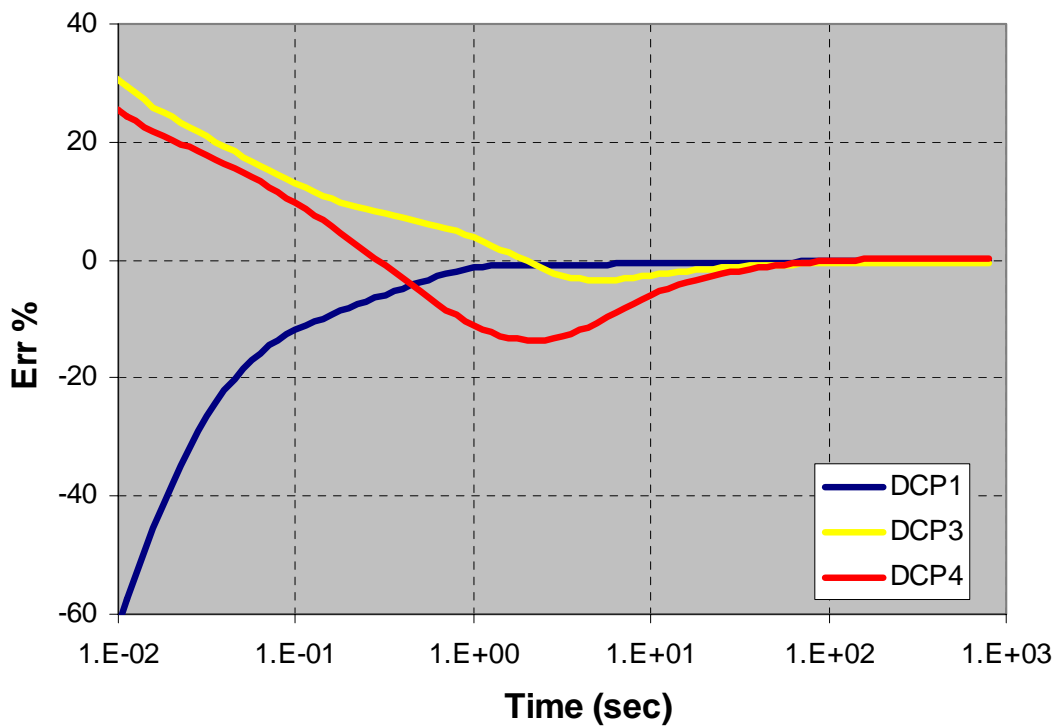


Figure 4.3: LFBGA 12x12 168: Rescaling fig. 5.2 starting from 10 msec