

Service : Characterisation

Purpose

Measure device parameters and determine transfer characteristics at various conditions.

(supply voltage, operating frequency, temperature etc.)

A characterisation helps designers to gain experience about the performance of the device.

Sometimes a characterisation of a defined number of samples is part of qualification flows.

Benefits

It makes sense to have characterisation options in a test program although they are not used during series test.

Example: knowing the full supply voltage range of your device is a good indicator how reliable it will work under specified conditions.

As side effect those options can serve as a means to verify stability of functional tests during test program acceptance.

Bluetest Expertise

The used functions and tools are integrated in the test program. Therefore the measurements are very fast and reproducible compared to lab setups.

They allow clear graphic display of results of test series which is useful for presentations or documentations.

Activities

Participants

Test engineer
Design, application

Requirements, Input

Test specification, inputs from design, qualification plan

Performance

The process is similar to electrical measurements (see description) but with characterisation options enabled.

Result, Output

Results, measurement data and Graphs

Image: Shmoo Plot

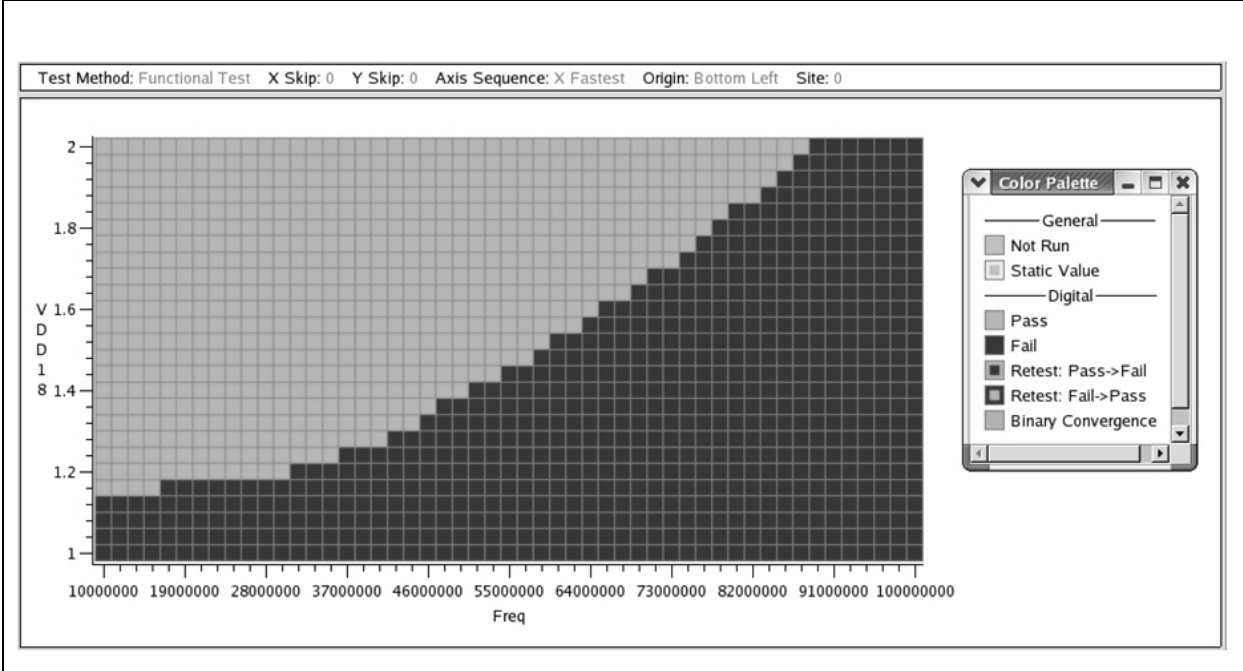
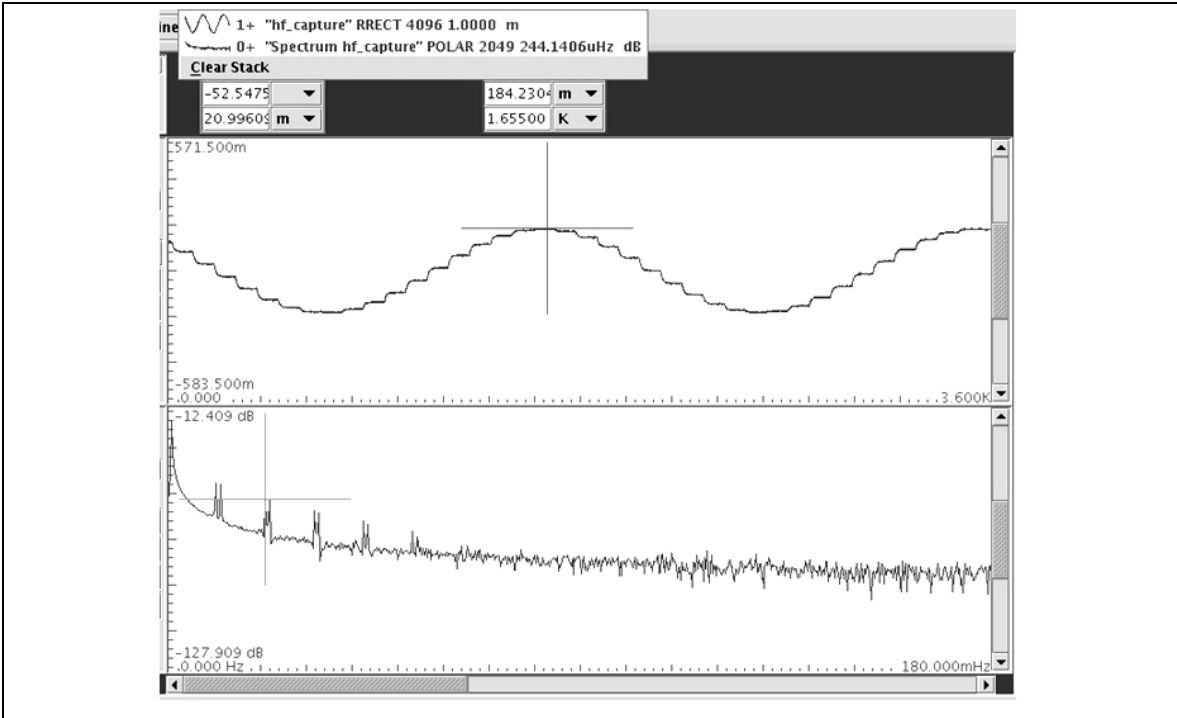


Image: digitized waveform and FFT calculation



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