

Reverberation chamber channel models and MIMO measurements

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Abstract:

The inherent channel model emulated by a reverberation chamber (RC) provides a basic test case for performance evaluation of MIMO devices. By combining the RC with a channel emulator (CE) it is possible to further extend the inherent channel model to support a wider range of channel properties. This allows for additional advanced testing of MIMO devices, thus capturing the sensitivity of the device performance to specific channel parameters.

The TD aims to present a number of commonly used RC channel models together with the most significant channel parameters and how they are validated in the system. It will also show measurement result repeatability in the same system, and between systems, when input phase calibration is used on the channel emulator.