

## Calibrated Measurements and Nonlinearity Compensation of Narrowband Amplifiers

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A vectorial nonlinear-network analyzer (VNNA) is absolutely calibrated in amplitude and phase for narrowband measurements of nonlinearities. Calibration is performed with a reference generator, characterized with a calibrated sampling oscilloscope. The reference signal, consisting of an unconverted baseband signal, is optimized for high signal-to-noise ratio measurements. Using the calibrated VNNA, narrowband amplifiers can be measured, enabling compensation of intermodulation and crossmodulation.

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