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Tune-up procedure

Calibration equipment consists of an RF signal generator, power supply, power meter, spectrum analyzer and a radio communication test set. A mechanical fixture holds the DUT in place and is responsible for reliably mating the RF connector of the jig to the DUT. The entire fixture is enclosed in an RF shield box whose purpose is to prevent external RF signals from interfering or contributing to measurements of the DUT's RF. RF shielded cabling connecting the instrumentation to the jig is used for the same reason. All of this equipment is mounted in a rack and is known as a Calibration test station.

The Calibration process is automated, with a host PC controlling both the test equipment and EUT. The Calibration program measures individual EUT's RF power and key RF parameters and writes the proper calibration value back into EUT's internal register (proprietary and not user changeable) and re-measures RF parameters again to insure that all required parameters are within the limit. As described above, every EUT will be tested individually to make sure that the output power and RF characteristic will not exceed the level documented in the EMC/RF compliance test report(s).



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