

RESEARCH, DEVELOPMENT AND TESTING NATIONAL INSTITUTE FOR ELECTRICAL ENGINEERING



ICMET Headquarter

Wireless Equipment Test Laboratory - LIEW

- ICMET Craiova has testing/calibration laboratories accredited by:
- RENAR for High Voltage Testing, High Power Testing, Electromagnetic Compatibility and Low Voltage Testing
 - DKD (German Calibration Service) for High Force Calibration, High Voltage Calibration and Electromagnetic Fields Calibration
 - DATech for Dielectric Tests of High Voltage Electrical Appliances and Components, High Power Tests for High Voltage Equipment and Components and Low Voltage Equipment and Electromagnetic Compatibility..



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LIEW laboratory performs tests for wireless equipment
IEEE 802.11b/g, HomeRF, Bluetooth.

Services

2.4 GHz wireless equipment testing according to R&TTE Directive, article 3.2 "essential requirements for the use of spectrum"

Testing standard: SR ETSI EN 300 328

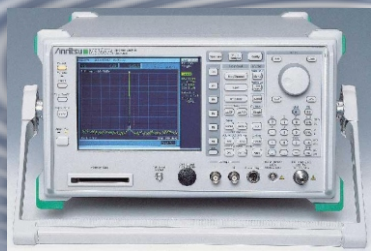
Essential tests performed

- Equivalent isotropic radiated power;
- Maximum spectral power density;
- Frequency range;
- Transmitter spurious emissions;
- Receiver spurious emissions.

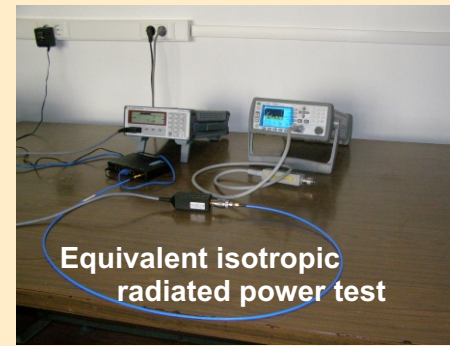
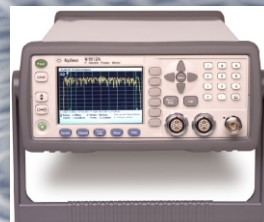
Laboratory equipment

- Spectrum analyzer: 9 kHz to 30 GHz
- Power meter: -35 dBm to 20 dBm, 50 MHz to 18 GHz
- Average power meter: -30 dBm to 20 dBm, DC to 18 GHz
- Signal generator: 250 kHz to 6 GHz
- Preamplifier: 23 dB, 2 to 50 GHz
- Power amplifier: 30 W, 6 GHz
- E&H meter: Electric field: 0,2 to 320 V/m (CW), 100 kHz to 3 GHz
0,7 to 400 V/m (CW), 100 MHz to 60 GHz
Magnetic field: $0,018 \div 16$ A/m (CW), 27 MHz to 1 GHz
- Antenna set: 30 MHz to 40 GHz
- AC/DC power supply
- Climatic chamber

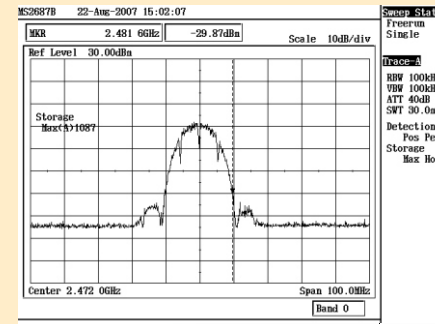
Spectrum analyser



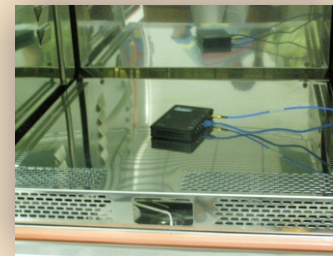
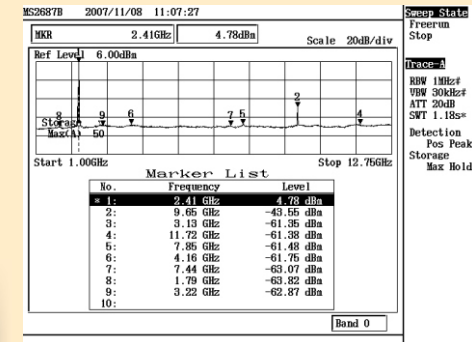
Peak power meter



Frequency range test



Spurious emission tests



Extreme conditions test in the climatic chamber

The testing laboratory is equipped with the latest, state-of-the-art equipment and performs tests in accordance with international standards.

Digital RF signal generator



Broadband microwave amplifier

