

# Radio frequency equipment and facilities calibration

Calibration of equipment, facilities and instrumentation for EMC tests and measurements of human exposure to radio frequencies.



The equipment and facilities that measure or generate electromagnetic fields must be calibrated periodically to ensure they work properly and comply with the applicable regulations.

This calibration is a key element for ensuring the reliability of the EMC tests performed by both, laboratories and companies in their RandD+I departments. It is also a mandatory requirement for those companies with services for the prevention and measurement of human exposure to electromagnetic fields.

## Our Solution

Applus+ Laboratories offers a radio frequency calibration service for EMC testing equipment, facilities and instruments, as well as human exposure measurement.

Our service includes:

- Regulatory advising
- Calibration service
- Failure analysis and repair management
- Specifications validation for the calibration certificate

We calibrate the following equipment (ENAC accreditation):

- Electric field probes
- Magnetic field probes
- Personal radiation monitors
- Monitoring stations
- Microwave meters
- Biconical antennas
- Log-periodic antennas
- Horn antennas
- Spiral antennas
- Bilogperiodic antennas
- Hybrid antennas
- Loop antennas
- Monopole antennas

We calibrate the following facilities on-site (ENAC accreditation):

- NSA (normalized site attenuation) validation of anechoic and semi-anechoic chambers
- VSWR (voltage standing wave ratio) validation

We calibrate the following instruments:

- Cables
- RF analyzers
- RF generators
- Amplifiers
- Power meters
- Current probes
- LISN
- ESD guns
- Coupling networks
- Voltage probes
- Transient generators (ring waves)
- High-energy pulse generators (transient surges)

### **Benefits**

- Ensure the reliability of measuring equipment and facilities
- Perform the calibration of all your measuring equipment with a single supplier, Applus+.
- Avoid deviations or nonconformities in your company's quality system audits.