

# EMC and Radiofrequency



## Measuring radio and electromagnetic emissions

It is well known that electronic devices inevitably generate some form of unwanted interference; furthermore, all of them influence each other when interconnected or close to each other. The real challenge for manufacturers is double: first of all, to ensure that electronic devices operate properly and secondly ensure safety and health of final users and environment. Therefore, it is important to prevent unexpected situations.

A safe electronic device is that which works as intended, only emits a limited amount of interferences and is immune to a certain level of electromagnetic radiation: radiated and conducted.

DEKRA's global network of accredited testing laboratories and specialized experts, located in different regions, can support you to prepare your products for market access; helping you to meet applicable or requested EMC & RF requirements in a efficient manner.

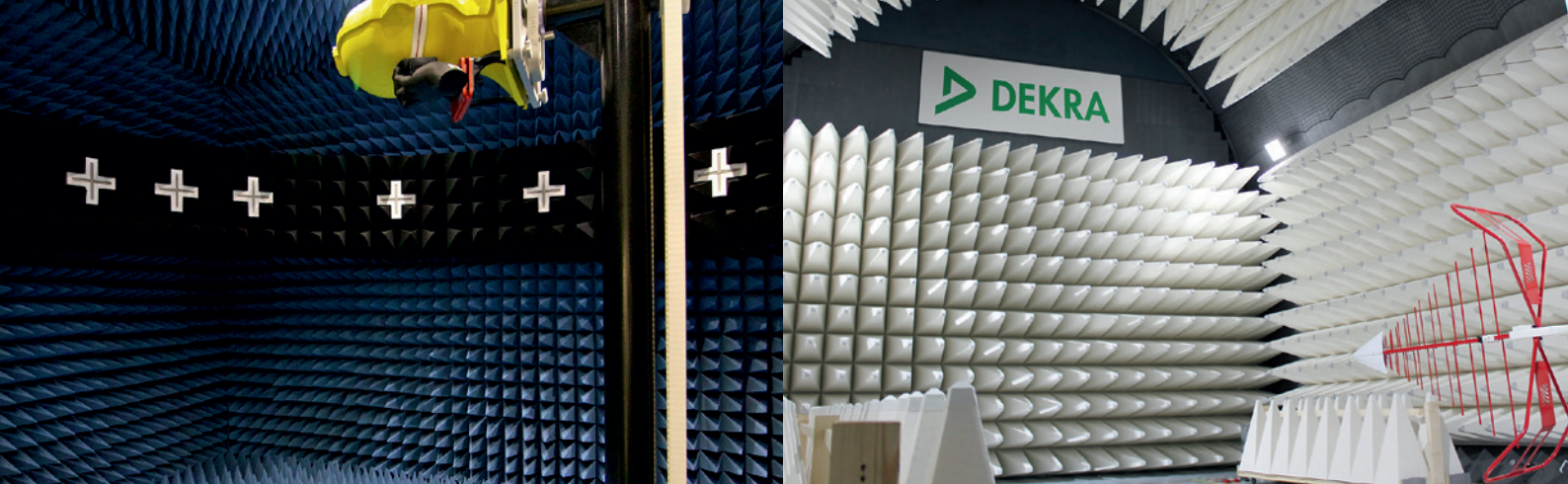
In addition, DEKRA offers a comprehensive testing scope covering the largest variety of technologies (GSM/GPRS/EDGE, WCDMA, HSPA, LTE, LPWAN, Bluetooth®, Wi-Fi®, RFID, UWB and NFC), and a wide range of electronic devices coming from different industries:

- > Electronic
- > Lighting
- > Appliances
- > Industrial Machinery
- > Air Conditioning Equipment
- > Automotive
- > Consumer Products
- > Healthcare
- > TIC
- > Military & Aerospace

### Services

Our services are applicable to equipment and components, manufacturers and importers:

- > Pre-compliance testing
- > EMC regulatory testing according to international standards (ISO, IEC, EN, etc.)
- > Emission and Immunity (radiated and conducted tests)
- > Certification testing (CE, FCC, ISSED, etc.)
- > On-site testing
- > E-mark services (UN-ECE Regulation 10.05)
- > Notified Body for EU directives (RED Directive 2014/53/EU and EMC Directive 2014/30/EU)
- > Telecommunication Certification Body (TCB) for USA and Canada
- > Training and assessment services



## Products we test

At DEKRA, we work to provide safety throughout the whole of your value chain. Here you are some examples of products that we test:

- > Electric and electronic equipment
- > Power supplies & batteries
- > Smart home devices
- > Wireless modules and devices
- > Smartphones
- > Hearing aides
- > IT products
- > Medical devices
- > Automotive electronics
- > Security Systems and alarms
- > Lighting products
- > Military and aerospace equipment
- > E-bikes, scooters

## Your benefits

- > **Access to International markets.** As Notified Body under the European Electromagnetic Compatibility directive 2014/30/EU, our experts help you gain access to EU markets and also to countries outside the European Union, such as the USA, South Africa, Japan, South Korea and Australia.
- > **Knowledge and Expertise.** Our experts have a deep knowledge and expertise as well as an active role in technical committees and industrial consortia; aware of latest standards developments and market trends.
- > **Global network of accredited laboratories.** With locations in key regions worldwide: USA, Europe, China and Taiwan, DEKRA laboratories provide you with a wide testing capacity.
- > **Full and flexible testing:** We offer full type approvals as well as flexible independent testing methods that are tailored to your specific needs.

## About DEKRA

DEKRA has been active in the field of safety for more than 90 years and is one of the world's leading expert organizations in testing, inspection and certification. Our qualified and independent experts work for safety on the road, at work and at home. Among other things, they test and certify consumer, industrial, automotive and ICT products, medical devices and equipment used in explosive atmospheres for worldwide markets. DEKRA's mission is to be the global partner for a safe world.

### Contact

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