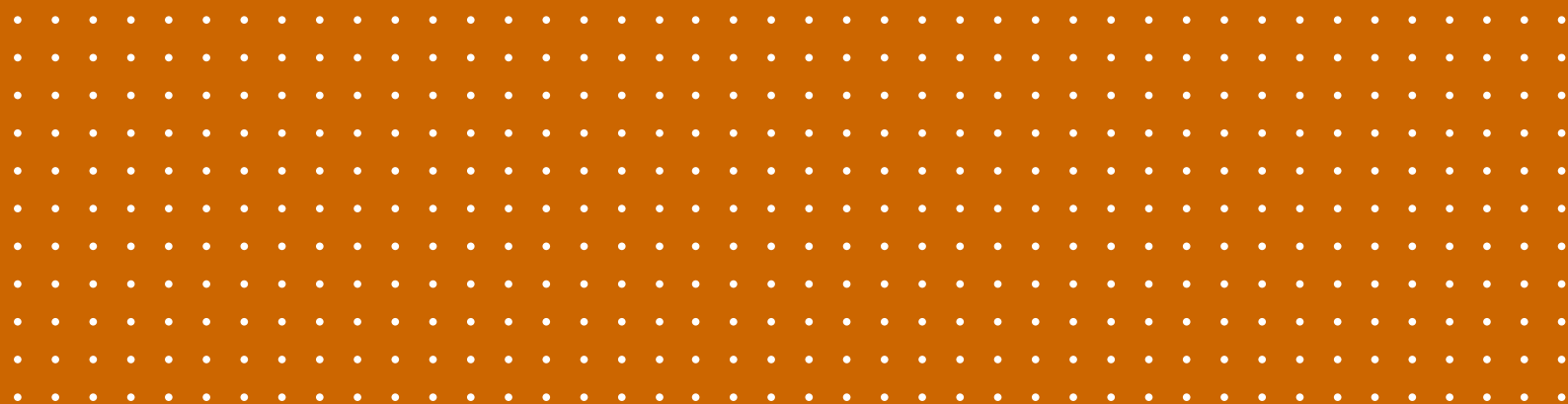


05.

Standardization, Technical
and Laboratory Activities



● Standardization

Under the terms of and in compliance with the regime set out in art. 29 of Law no. 5/2004 of 10 February, a notice in was published in *Diário da República* reporting the publication in the Official Journal of the European Union of the European Commission's Decision amending the list of harmonized standards.

● Technical support with respect to the radio and terminal equipment market

In this field, controls were carried out during 2008 of the market for radio and telecommunications terminal equipment through the performance of tests on equipment covered by Decree-Law no. 192/2000 of 18 August. Technical opinions were issued in respect of litigation proceedings.

Likewise, measures of control were taken with respect to the market and the industry in verifying the essential requirement of electromagnetic compatibility in electronic communications equipment covered by Decree-Law no. 325/2007 of 28 September. Technical opinions were also issued in litigation cases.

There was, in comparison to the previous year, a decrease in requests from police and judicial authorities for the inspection of equipment for receiving digital television via satellite and cable, under Decree-Law no. 5/2004 of 10 February, totalling 27 applications.

Due to numerous complaints related to the use of *Powerline technology*, measures were taken of technical verification of equipment with laboratory support.

● Laboratories

Keeping in mind the need to rationalize and optimize the work of laboratories, a process was initiated, aimed at changing the accreditation model of the laboratories (classic model) to the flexible accreditation model.

Therefore, steps considered essential were initiated, with the aim that the independent accreditation granted to each laboratory will be combined in a single accreditation. In June 2008, a single accreditation was granted by IPAC - *Instituto Português de Acreditação* (Portuguese Institute for Accreditation).

Electromagnetic Compatibility Laboratory (LCEM)

In 2008, 105 equipment appliances were tested, of which 22 tests were carried out at the request of outside parties and 85 for the purposes of supporting the area of market supervision (internal client - DFI).

The LCEM remains accredited by IPAC - *Instituto Português de Acreditação* (Portuguese Institute of Accreditation) according to standard NP EN ISO/IEC 17025 for performing tests.

Following up on the obligations to provide evidence of competence, arising from this accreditation, the LCEM accepted the invitation of the APLAC - Asia Pacific Laboratory Accreditation Cooperation to participate in an exercise of international inter-laboratory comparison (coordinated at national level by IPAC), in the area of electromagnetic compatibility, encompassing tests of radiation emission measurement and conducted at the power point.

In the context of the R&TTE Directive (1999/5/EC), approval was given for the acquisition of test equipment for the testing of immunity of conducted disturbances, induced by radio-frequency fields, of voice telephony terminal equipment of the PSTN network, as provided for in the harmonized standard EN55024.

Radiocommunications Equipment Laboratory (LR)

As part of the supervision of the market of radio equipment (R&TTE Directive), 135 radio equipment appliances with different applications were tested - of which 37 were encompassed by an European surveillance campaign.

Four actions were undertaken, providing expertise on radio equipment, at the request of judicial and police authorities.

The performance of studies and tests was continued, with a tendency towards the expansion of the number of features that can be subjected to laboratory verification.

All technical and auxiliary procedures which govern the laboratory activity were reviewed with a view to improvement and in view of the model of a single laboratory with flexible accreditation.

Metrology Radio Laboratory (MRL)

In 2008, the internal calibrations plan was completed, with 143 pieces of equipment calibrated. The number of calibrations performed for external clients did not change significantly over 2007, with the calibration of 132 pieces of equipment performed.

The accreditation granted by the Portuguese Institute for Accreditation (IPAC) according to standard NP EN ISO/IEC 17025, for performing calibrations with respect to the electrical field and frequency, was maintained.

In line with the obligations of this accreditation, the laboratory participated in a programme of inter-laboratory comparison organized by *Associação de Laboratórios Acreditados de Portugal* (RELACRE - Association of accredited laboratories in Portugal) on the calibration of Attenuation and VSWR (DC up to 12 GHz).