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**LTE;
Evolved Universal Terrestrial Radio Access (E-UTRA);
Base Station (BS)
and repeater ElectroMagnetic Compatibility (EMC)
(3GPP TS 36.113 version 13.3.0 Release 13)**



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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
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1 Scope

The present document covers the assessment of E-UTRA, E-UTRA with NB-IoT or NB-IoT base stations, repeaters and associated ancillary equipment in respect of Electromagnetic Compatibility (EMC).

The present document specifies the applicable test conditions, performance assessment and performance criteria for E-UTRA, E-UTRA with NB-IoT or NB-IoT base stations, repeaters and associated ancillary equipment in one of the following categories:

- base stations of E-UTRA, E-UTRA with NB-IoT or NB-IoT meeting the requirements of TS 36.104 [2], with conformance demonstrated by compliance to TS 36.141 [3].
- repeaters of E-UTRA meeting the requirements of TS 36.106 [4], with conformance demonstrated by compliance to TS 36.143 [5].

Technical requirements related to the antenna port of E-UTRA, E-UTRA with NB-IoT or NB-IoT base stations or repeaters are not included in the present document. These are found in the relevant product standards [2-5].

The environment classification used in the present document refers to the residential, commercial and light industrial environment classification used in IEC 61000-6-1 [6] and IEC 61000-6-3 [7].

The EMC requirements have been selected to ensure an adequate level of compatibility for apparatus at residential, commercial and light industrial environments. The levels, however, do not cover extreme cases which may occur in any location but with low probability of occurrence.

2 References

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- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TR 36.104: "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception".
- [3] 3GPP TR 36.141: "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing".
- [4] 3GPP TR 36.106: "Evolved Universal Terrestrial Radio Access (E-UTRA); Repeater radio transmission and reception".
- [5] 3GPP TR 36.143: "Evolved Universal Terrestrial Radio Access (E-UTRA); Repeater conformance testing".
- [6] IEC 61000-6-1: 2005; "Electromagnetic compatibility (EMC) - Part 6: Generic standards - Section 1: Immunity for residential, commercial and light-industrial environments".
- [7] IEC 61000-6-3:2006/AMD1:2010: "Electromagnetic compatibility (EMC) - Part 6: Generic standards - Section 3: Emission standard for residential, commercial and light industrial environments".
- [8] IEC 60050(161): "International Electrotechnical Vocabulary - Chapter 161: Electromagnetic compatibility".