CITC Technical Specification

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Specification for UMTS (3G) and LTE (4G) Handsets and Related Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Scope

This document applies to UMTS and LTE handsets and related terminal equipment.

All telecommunications and radio terminal equipment must comply with the relevant technical specifications established by CITC. In addition, such equipment may be subject to regulations for Declaration of Conformity or registration. See http://www.citc.gov.sa/ for details.

If more than one interface type is offered by a piece of equipment, each interface must meet the applicable technical specifications.

Entry into force

This specification shall enter into force on 15/07/2019 G

Frequency of operation

The following table is showing information on frequency bands, maximum output power and applicable specification:

<table>
<thead>
<tr>
<th>Uplink (MHz) (UE transmit)</th>
<th>Downlink (MHz) (UE receive)</th>
<th>Maximum Output Power</th>
<th>Duplex Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>703 MHz – 733 MHz</td>
<td>758 MHz – 788 MHz</td>
<td>24 dBm e.i.r.p</td>
<td>FDD</td>
</tr>
<tr>
<td>832 MHz – 862 MHz</td>
<td>791 MHz – 821 MHz</td>
<td>24 dBm e.i.r.p</td>
<td>FDD</td>
</tr>
<tr>
<td>880 MHz – 915 MHz</td>
<td>925 MHz – 960 MHz</td>
<td>24 dBm e.i.r.p</td>
<td>FDD</td>
</tr>
<tr>
<td>1710 MHz – 1785 MHz</td>
<td>1805 MHz – 1880 MHz</td>
<td>24 dBm e.i.r.p</td>
<td>FDD</td>
</tr>
<tr>
<td>1880 MHz – 1920 MHz</td>
<td>1880 MHz – 1920 MHz</td>
<td>24 dBm e.i.r.p</td>
<td>TDD</td>
</tr>
<tr>
<td>1920 MHz – 1980 MHz</td>
<td>2110 MHz – 2170 MHz</td>
<td>24 dBm e.i.r.p</td>
<td>FDD</td>
</tr>
<tr>
<td>2300 MHz – 2400 MHz</td>
<td>2300 MHz – 2400 MHz</td>
<td>24 dBm e.i.r.p</td>
<td>TDD</td>
</tr>
<tr>
<td>2500 MHz – 2690 MHz</td>
<td>2500 MHz – 2690 MHz</td>
<td>24 dBm e.i.r.p</td>
<td>TDD</td>
</tr>
<tr>
<td>3400 MHz – 3600 MHz</td>
<td>3400 MHz – 3600 MHz</td>
<td>24 dBm e.i.r.p</td>
<td>TDD</td>
</tr>
<tr>
<td>3600 MHz – 3800 MHz</td>
<td>3600 MHz – 3800 MHz</td>
<td>24 dBm e.i.r.p</td>
<td>TDD</td>
</tr>
</tbody>
</table>
Proof of compliance

It is required that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

**EN 301 908-1**
Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS) and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 1: Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of article 3.2 of the R&TTE directive.

**EN 301 908-2**

**EN 301 908-6**

**EN 301 908-13**

**EN 301 489-1**
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.

**EN 301 489-24**
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) for Mobile and Portable (UE) radio and ancillary equipment.

If no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.
In addition to meeting the above requirements, all equipment must comply with the requirements of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

**Additional requirements**

All mobile phones, tablets, Smart watches and mobile computer must contain CITC E-label. The mobile phones must comply with the Technical Requirements On Mobile Devices to Enable Cell Broadcast Service (CBS) Alert which can be found on this link. Additionally, all network based equipment (including mobile phones, tablets, Smart watches and mobile computer) must support 4G as a requirement for equipment approval and Customs clearance.

**Obtaining technical standards**

ETSI technical standards may be obtained free of charge for individual use from the ETSI website www.etsi.org.

**Network information (only for network interfaces)**

Further information on the characteristics and presentation of network interfaces can be found by visiting operator's website.

**Document history**

<table>
<thead>
<tr>
<th>Description</th>
<th>Status</th>
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