

Agenda Item:

Source: Ericsson

Title: Text proposal for chapter 4.13.2 Duplexers in TS25.104

Document for: Approval

1. Introduction

Chapter 4.13.2 in [1] specifies the test requirements with or without a duplexer fitted in the BS. This document discusses the topic and presents a text proposal.

2. Comments on BTS configurations (chapter duplexers)

Concerning the interference situation due co-existence with other systems (second or third generation systems), in some scenarios there would be a need for additional filtering (i.e. by notch filters or etc) of the interferers, therefore we propose to rename the chapter to *Filters* which even includes duplex filters instead of duplexers and adapt the text. Since note1 and note2 are defined as guidelines rather than requirements, we propose to remove them.

3. Text proposal

4.13.2 Filters

The requirements of this TS shall be met at Rx and Tx antenna interfaces, if an additional filter is supplied as part of the BS. If the additional filter is supplied as an option by the manufacturer, sufficient tests should be repeated with and without the filter fitted to verify that the BS meets the requirements of this TS in both cases.

The following tests should be performed with the additional filter fitted, and without it fitted if this is an option:

- 1) Subclause 6.2.1, Base station maximum output power, for the highest static power step only, if this is measured at the antenna connector.
- 2) Subclause 6.7.2, Out of band emission.
- 3) Subclause 6.7.3, Spurious emission.
- 4) Subclause 6.8, Transmit intermodulation.

The remaining tests may be performed with or without the filter fitted.

4. References

- [1] Base station conformance testing (FDD), TS25.141, v2.0.2