

TSG RAN Meeting #19
Birmingham, United Kingdom, 11 - 14 March, 2003

RP-030043

Title CR (Rel-5) to TS 34.124
Source TSG RAN WG4
Agenda Item 8.4.5

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-020041	34.124	012		F	Rel-5	5.2.0	Correction to radiated spurious emission measurement bandwidth	TEI5

Madrid, Spain 17 - 22 February, 2003

CR-Form-v7

CHANGE REQUEST

⌘ **34.124 CR 012** ⌘ rev ⌘ Current version: **5.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Correction to radiated spurious emission measurement bandwidth		
Source:	⌘ RAN WG4		
Work item code:	⌘ TEI5	Date:	⌘ 05/03/2003
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	⌘ The measurement bandwidth for radiated spurious emissions above 1GHz is not in line with ITU-R SM 329.
Summary of change:	⌘ The measurement bandwidth is corrected. Reference to core specification is also corrected
Consequences if not approved:	⌘ The specification will be in conflict to international regulatory requirements.

Clauses affected:	⌘ 8.2.3.1; 8.2.3.2										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	⌘ <input type="text"/>
	Y	N									
	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
		Test specifications	⌘ <input type="text"/>								
		O&M Specifications	⌘ <input type="text"/>								
Other comments:	⌘ <input type="text"/>										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.2.3 Limits

The references for these requirements are ITU-R SM 329-9 [Error! Reference source not found.], SM.1539 [28] and TS 25.101 subclauses 6.6.3.1. and 7.9.1. [Error! Reference source not found.] and TS 25.102 subclauses 6.6.3 and 7.9 [13] respectively.

8.2.3.1 FDD and 3,84 Mcps TDD option

The frequency boundary and reference bandwidths for the detailed transitions of the limits between the requirements for out of band emissions and spurious emissions are based on ITU-R SM 329-9 [Error! Reference source not found.].

These requirements are only applicable for frequencies in the spurious domain.

Table 3: Radiated Spurious emissions requirements

Frequency	Minimum requirement (e.r.p.)/ Reference Bandwidth Idle mode	Minimum requirement (e.r.p.) / Reference Bandwidth Traffic mode
$30 \text{ MHz} \leq f < 1000 \text{ MHz}$	-57dBm / 100 kHz	-36 dBm / 100 kHz
$1 \text{ GHz} \leq f < 12.75 \text{ GHz}$	-47dBm / 1MHz	-30 dBm / 100 kHz 1MHz
$f_c - 12.5 \text{ MHz} < f < f_c + 12.5 \text{ MHz}$	Not defined	Not defined

NOTE: f_c is the centre frequency of the TCH. The frequency range $f_c \pm 12.5 \text{ MHz}$ are covered by the "Out of Band" emission requirements of TS 34.121 [Error! Reference source not found.] and TS 34.122 [Error! Reference source not found.].

8.2.3.2 1,28 Mcps TDD option

The frequency boundary and reference bandwidths for the detailed transitions of the limits between the requirements for out of band emissions and spurious emissions are based on ITU-R SM 329-9 [Error! Reference source not found.].

These requirements are only applicable for frequencies, which are greater than 4 MHz away from the UE centre carrier frequency

Table 3.1: Radiated Spurious emissions requirements

Frequency	Minimum requirement (e.r.p.)/ Reference Bandwidth Idle mode	Minimum requirement (e.r.p.) / Reference Bandwidth Traffic mode
$30 \text{ MHz} \leq f < 1000 \text{ MHz}$	-57dBm / 100 kHz	-36 dBm / 100 kHz
$1 \text{ GHz} \leq f < 12.75 \text{ GHz}$ $f_c - 4 \text{ MHz} < f < f_c + 4 \text{ MHz}$	-47dBm / 1MHz Not defined	-30 dBm / 1 MHz Not defined

NOTE: f_c is the centre frequency of the TCH. The frequency range $f_c \pm 4 \text{ MHz}$ are covered by the "Out of Band" emission requirements of ~~TS 34.121[2]~~ and TS 34.122 [Error! Reference source not found.].