RP-030029

Title CRs (R'99 and Rel-4/Rel-5/Rel-6 Category A) to TS 25.104 & TS 25.141 on

"Protection of FDD BS receiver"

Source TSG RAN WG4

Agenda Item 8.4.3

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-020293	25.104	169	1	F	R99	3.11.0	Protection of the FDD BS receiver	TEI
R4-020294	25.104	170	1	Α	Rel-4	4.6.0	Protection of the FDD BS receiver	TEI
R4-020295	25.104	171	1	Α	Rel-5	5.5.0	Protection of the FDD BS receiver	TEI
R4-020296	25.104	172	1	Α	Rel-6	6.0.0	Protection of the FDD BS receiver	TEI
R4-020314	25.141	270	1	F	R99	3.12.0	Protection of the FDD BS receiver	TEI
R4-020315	25.141	271	1	Α	Rel-4	4.7.0	Protection of the FDD BS receiver	TEI
R4-020316	25.141	272	1	Α	Rel-5	5.5.0	Protection of the FDD BS receiver	TEI
R4-020317	25.141	273	1	Α	Rel-6	6.0.0	Protection of the FDD BS receiver	TEI

R4-030293

### Madrid, Spain 17 - 22 February, 2003

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CHANGE REQUEST										
*		25.104	CR	169	<b>≋rev</b>	1	$\mathfrak{H}$	Current version:	3.11.0	) #
For <u>HELP</u>	on u	sing this for	m, see	bottom of this	s page or	look	at th	e pop-up text ove	r the	mbols.
Proposed char	ige a	affects: \	JICC a	npps#	ME	Rac	A oib	ccess Network X	Core No	etwork
Title:	$\mathfrak{H}$	Protection	of the	FDD BS rece	eiver					
Source:	¥	RAN WG	4							

Work item code: ₩	TEI	Date: ₩	05/03/2003
Category:	F Use one of the following categories: F (correction) A (corresponds to a correction in a B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above cate be found in 3GPP TR 21.900.	an earlier release) R96 R97 R98 R99	R99 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)

Reason for change:	$\mathfrak{R}$	Requirements to protect FDD BS receiver (UL band) in case where several FDD
		networks are deployed are missing. Up to now there is only one sufficient but
		optional requirement which may be applied in order to prevent the receiver of the
		BS being desensitised by emissions from its own BS transmitter. It is possible
		and allowed to build a FDD BS with spurious emissions up to -30dBm in 1MHz
		inside parts of the UL band. This kind of BS could disturb all other FDD networks.

# Summary of change: # Requirements for FDD to protect FDD BS receiver in case of Co-located BSs are introduced as mandatory requirement. This requirement cover also the case of deployment in the Same Geographic Area.

Requirements of -96dBm /100kHz for colocation between different BSs are derived from the already existing requirement of –96dBm/100kHz, for protection of the own BS receiver. This requirement and the new co-location requirement between different BSs are based on 30dB MCL between FDD transmitter and FDD receiver.

### Consequences if not approved:

#### **Isolated Impact Analysis:**

UTRA FDD network performance could be affected by to high FDD Spurious Emission if this CR is not approved.

Approval of this CR would not affect FDD implementation behaving like indicated in the CR.

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Other specs affected:	ж	Y N X X	Other core specifications # Test specifications O&M Specifications	TS 25.141
Other comments:	$\mathfrak{H}$		valent CRs in other Releases: CR A to 25.104 v5.5.0, CR172r1 cat. /	170r1 cat. A to 25.104 v4.6.0, CR171r1 A to 25.104 v6.0.0

#### How to create CRs using this form:

- 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

#### 6.6.3.2 Protection of the BS receiver of own or different BS

This requirement <u>may shall</u> be applied in order to prevent the receivers of the BSs being desensitised by emissions from the aBS transmitter, which are coupled between the antennas of the BS. This is measured at the transmit antenna port.

#### 6.6.3.2.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.10: BS Spurious emissions limits for protection of the BS receiver

Band	Maximum Level	Measurement Bandwidth	Note
1920 - 1980MHz For operation in Frequency Bands defined in sub-clause 5.2(a)	-96 dBm	100-kHz	
1850-1910 MHz For operation in Frequency Bands defined in sub-clause 5.2(b)	-96 dBm	100kHz	

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CHANGE REQUEST										
*		25.104	CR	170	жrev	1	Ħ	Current version	4.6.0	H
For <u>HELP</u> or Proposed change		-		e bottom of this	s page or	_		e pop-up text ove	_	
Title:	$\mathfrak{H}$	Protection	of the	FDD BS rece	eiver					
Source:	¥	RAN WG	4							
004/00/	00	10 10	•							
Work item code.	<b>:</b> #	TEI						Date: 第 0	5/03/2003	

Category:	¥	Α		Release: #	Rel-4
category.	<b>6</b> 0	Use	one of the following categories:  F (correction)  A (corresponds to a correction in an earlier release)  B (addition of feature),  C (functional modification of feature)  D (editorial modification)  iled explanations of the above categories can	Use <u>one</u> of 2 R96 R97 R98 R99	the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4)
			und in 3GPP <u>TR 21.900</u> .	Rel-5	(Release 5) (Release 6)

Reason for change:	$\mathfrak{R}$	Requirements to protect FDD BS receiver (UL band) in case where several FDD
		networks are deployed are missing. Up to now there is only one sufficient but
		optional requirement which may be applied in order to prevent the receiver of the
		BS being desensitised by emissions from its own BS transmitter. It is possible
		and allowed to build a FDD BS with spurious emissions up to -30dBm in 1MHz
		inside parts of the UL band. This kind of BS could disturb all other FDD networks.

#### Summary of change: ₩ Requirements for FDD to protect FDD BS receiver in case of Co-located BSs are introduced as mandatory requirement. This requirement cover also the case of deployment in the Same Geographic Area.

Requirements of -96dBm /100kHz for colocation between different BSs are derived from the already existing requirement of -96dBm/100kHz, for protection of the own BS receiver. This requirement and the new co-location requirement between different BSs are based on 30dB MCL between FDD transmitter and FDD receiver.

#### Consequences if not approved:

 ★ Co-existence of different FDD can not be guaranteed based on the requirements in 3GPP specifications.

#### **Isolated Impact Analysis:**

UTRA FDD network performance could be affected by to high FDD Spurious Emission if this CR is not approved.

Approval of this CR would not affect FDD implementation behaving like indicated in the CR.

Other specs affected:	¥	Y N X X	Other core specifications # Test specifications O&M Specifications	TS 25.141
Other comments:	$\mathfrak{H}$		ivalent CRs in other Releases: CR A to 25.104 v5.5.0, CR172r1 cat. A	169r1 cat. F to 25.104 v3.11.0, CR171r1 A to 25.104 v6.0.0

#### How to create CRs using this form:

- 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

#### 6.6.3.2 Protection of the BS receiver of own or different BS

This requirement <u>may shall</u> be applied in order to prevent the receivers of the BSs being desensitised by emissions from the aBS transmitter, which are coupled between the antennas of the BS. This is measured at the transmit antenna port.

#### 6.6.3.2.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.10: BS Spurious emissions limits for protection of the BS receiver

Band	Maximum Level	Measurement Bandwidth	Note
1920 - 1980MHz For operation in Frequency Bands defined in sub-clause 5.2(a)	-96 dBm	100-kHz	
1850-1910 MHz For operation in Frequency Bands defined in sub-clause 5.2(b)	-96 dBm	100kHz	

R4-030295

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æ	25	104	CR <mark>171</mark>		≆rev	1	ж	Curren	t vers	ion:	5.5.0	¥
For <u>HELP</u> on l	_		_	of this	_							
Proposed change			IICC appsЖ∟		ME	Ra	idio A	ccess N	etwor	k X	Core Ne	etwork
Title:	€ Pro	tection	of the FDD B	S recei	ver							
Source: }	e RΔ	N WG4										
Source.	o IVA	14 77 04										
Work item code: 3	€ TE							Da	te: ૠ	05/	03/2003	
Category: ३	Use Deta	F (corre A (corre B (adda C (fund D (edited led exp	he following carection) esponds to a contion of feature) etional modification modification modification and the series of the se	orrection , tion of fe on) above (	in an e eature)			2 e) R9 R9 R9 R6 R6	one of a 96 97 98 99 el-4 el-5	the fo (GSN (Rele (Rele (Rele (Rele (Rele (Rele	I-5 bllowing rele A Phase 2) ease 1996) ease 1997) ease 1998) ease 4) ease 5) ease 6)	eases:
Doggen for observe	. 90	Dogu	iromonto to s	roto ot C	DD BC	roos:	vor /!	II bord	inco	.00.11	boro ocur	rol EDD
Reason for chang	<b>е:</b> ж	•	irements to proceed				•					

optional requirement which may be applied in order to prevent the receiver of the BS being desensitised by emissions from its own BS transmitter. It is possible and allowed to build a FDD BS with spurious emissions up to -30dBm in 1MHz inside parts of the UL band. This kind of BS could disturb all other FDD networks.

#### Summary of change: ₩

Requirements for FDD to protect FDD BS receiver in case of Co-located BSs are introduced as mandatory requirement. This requirement cover also the case of deployment in the Same Geographic Area.

Requirements of -96dBm /100kHz for colocation between different BSs are derived from the already existing requirement of –96dBm/100kHz, for protection of the own BS receiver. This requirement and the new co-location requirement between different BSs are based on 30dB MCL between FDD transmitter and FDD receiver.

#### Consequences if not approved:

 ★ Co-existence of different FDD can not be guaranteed based on the requirements in 3GPP specifications.

#### **Isolated Impact Analysis:**

UTRA FDD network performance could be affected by to high FDD Spurious Emission if this CR is not approved.

Approval of this CR would not affect FDD implementation behaving like indicated in the CR.

Clauses affected: 第 6.6.3.2

Other specs affected:	¥	Y N X X	Other core specifications # Test specifications O&M Specifications	TS 25.141
Other comments:	¥		ivalent CRs in other Releases: CR A to 25.104 v4.6.0, CR172r1 cat. A	169r1 cat. F to 25.104 v3.11.0, CR170r1 A to 25.104 v6.0.0

#### How to create CRs using this form:

- 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

#### 6.6.3.2 Protection of the BS receiver of own or different BS

This requirement <u>may shall</u> be applied in order to prevent the receivers of the BSs being desensitised by emissions from the aBS transmitter, which are coupled between the antennas of the BS. This is measured at the transmit antenna port.

#### 6.6.3.2.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.10: BS Spurious emissions limits for protection of the BS receiver

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
I	1920 - 1980MHz	-96 dBm	100-kHz	
II	18501910 MHz	-96 dBm	100kHz	
III	17101785 MHz	-96 dBm	100kHz	

R4-030296

(Release 6)

### Madrid, Spain 17 - 22 February, 2003

CHANGE REQUEST								CR-Form-v
*	25.104	CR 172	⊭rev	1	¥	Current version:	6.0.0	¥
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Proposed chang	e affects: UICC apps器 ME Radio Ad	cess Netwo	rk X Core Network
Title:	第 Protection of the FDD BS receiver		
Source:	₩ RAN WG4		
147 1 12	00 TEL	<b>5</b> 4 00	05/00/0000
Work item code	ボ IEI	Date: #	05/03/2003
Cotogowy	<b>₩ A</b>	Dologo w	Dale
Category:		Release: %	1101 0
	Use <u>one</u> of the following categories:		the following releases:
	F (correction)	2	(GSM Phase 2)
	A (corresponds to a correction in an earlier release	,	(Release 1996)
	<b>B</b> (addition of feature),	R97	(Release 1997)
	<b>C</b> (functional modification of feature)	R98	(Release 1998)
	<b>D</b> (editorial modification)	R99	(Release 1999)
	Detailed explanations of the above categories can	Rel-4	(Release 4)
	be found in 3GPP TR 21.900.	Rel-5	(Release 5)

Reason for change: #	Requirements to protect FDD BS receiver (UL band) in case where several FDD networks are deployed are missing. Up to now there is only one sufficient but optional requirement which may be applied in order to prevent the receiver of the BS being desensitised by emissions from its own BS transmitter. It is possible and allowed to build a FDD BS with spurious emissions up to –30dBm in 1MHz inside parts of the UL band. This kind of BS could disturb all other FDD networks.
Summary of change: ₩	Requirements for FDD to protect FDD BS receiver in case of Co-located BSs are introduced as mandatory requirement. This requirement cover also the case of deployment in the Same Geographic Area.
	Requirements of -96dBm /100kHz for colocation between different BSs are derived from the already existing requirement of –96dBm/100kHz, for protection

derived from the already existing requirement of –96dBm/100kHz, for protection of the own BS receiver. This requirement and the new co-location requirement between different BSs are based on 30dB MCL between FDD transmitter and FDD receiver.

## Consequences if not approved:

**Co-existence of different FDD can not be guaranteed based on the requirements** in 3GPP specifications.

#### **Isolated Impact Analysis:**

UTRA FDD network performance could be affected by to high FDD Spurious Emission if this CR is not approved.

Approval of this CR would not affect FDD implementation behaving like indicated in the CR.

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Other specs affected:	¥	Y N	Other core specifications # Test specifications O&M Specifications	TS 25.141
Other comments:	¥		uivalent CRs in other Releases: CR A to 25.104 v4.6.0, CR171r1 cat.	169r1 cat. F to 25.104 v3.11.0, CR170r1 A to 25.104 v5.5.0

#### How to create CRs using this form:

- 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

#### 6.6.3.2 Protection of the BS receiver of own or different BS

This requirement <u>may shall</u> be applied in order to prevent the receivers of the BSs being desensitised by emissions from the aBS transmitter, which are coupled between the antennas of the BS. This is measured at the transmit antenna port.

#### 6.6.3.2.1 Minimum Requirement

The power of any spurious emission shall not exceed:

Table 6.10: BS Spurious emissions limits for protection of the BS receiver

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
I	1920 - 1980MHz	-96 dBm	100-kHz	
II	18501910 MHz	-96 dBm	100kHz	
III	17101785 MHz	-96 dBm	100kHz	

R4-030314

Madrid, Spain 17 - 22 February, 2003

CHANGE REQUEST							
<sup>#</sup> 25.141	CR 270 ж	rev 1 # Cur	rent version: 3.12.0 <sup>₩</sup>				
For <u>HELP</u> on using t	this form, see bottom of this pa	ge or look at the pop	o-up text over the ℁ symbols.				
Proposed change affect	<i>ts:</i> UICC appsℋ <mark></mark> N	∕IE Radio Acces	s Network X Core Network				
Title: 第 UTI	RA-FDD BS Receiver protection	n					
Source: # RAN	WG4						
Work item code:			Date:     8 05/03/2003				
Detai	one of the following categories:  F (correction)  A (corresponds to a correction in  B (addition of feature),  C (functional modification of feature)  D (editorial modification)  iled explanations of the above cate  und in 3GPP TR 21.900.	Us an earlier release) re)	Rease: # R99 se one of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)				
Reason for change: 第	networks are deployed are moptional requirement which makes being desensitised by emand allowed to build a FDD B	issing. Up to now the ay be applied in ordinary issions from the san S with spurious emi	and) in case where several FDD ere is only one sufficient but der to prevent the receiver of the me BS transmitter. It is possible assions up to -30dBm in 1MHz d disturb all other FDD networks.				
Summary of change: 第	-96 dBm/100 kHz as as man	datory requirement, r for three cases : a o-located BS of othe					
Consequences if # not approved:	The protection BS receiver do BS or co-existed BS can not		o the emissions from the same ne actual specification.				
	Isolated Impact Analysis: Changing this requirement as	mandatory may ha	ve some impact on BS testing.				
Clauses affected: #	6.5.3.4.3, 6.5.3.7.3		, <u></u>				
[	Y N X Other core specification X Test specifications	ns	4				
anected:	X Test specifications X O&M Specifications						

Other comments:

 $\mathfrak{R}$ 

Equivalent CRs in other Releases: CR271r1 cat. A to 25.141 v4.7.0, CR272r1 cat. A to 25.141 v5.5.0, CR273r1 cat. A to 25.141 v6.0.0

#### How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

#### 6.5.3.4.3 Protection of the BS receiver of own or different BS

This requirement <u>shallmay</u> be applied in order to prevent the receivers of the BSs being desensitised by emissions from the a BS transmitter. which are coupled between the antennas of the BS. This is measured at the transmit antenna port for any type of BS which has common or separate Tx/Rx antenna ports.

This requirement assumes the scenario described in [2]. For different scenarios, the manufacturer may declare a different requirement.

This requirement is not applicable to antenna ports which are used for both transmission and reception (e.g. which have an internal duplexer).

NOTE: In this case, the measurement of Reference Sensitivity will directly show any desensitization of the receiver.

#### 6.5.3.4.3.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.26: BS Spurious emissions limits for protection of the BS receiver

Band	Maximum Level	Measurement Bandwidth	Note
1 920 MHz to 1 980 MHz For operation in Frequency Bands defined in subclause 3.4.1(a)	-96 dBm	100 kHz	
1 850 MHz to 1 910 MHz For operation in Frequency Bands defined in subclause 3.4.1(b)	-96 dBm	100_kHz	

#### 6.5.3.7.3 Protection of the BS receiver of own or different BS

Table 6.37: BS Spurious emissions limits for protection of the BS receiver

Band	Maximum Level	Measurement Bandwidth	Note
1 920 MHz to 1 980 MHz For operation in Frequency Bands defined in subclause 3.4.1(a)	-96 dBm	100 kHz	
1 850 MHz to 1 910 MHz For operation in Frequency Bands defined in subclause 3.4.1(b)	-96 dBm	100_kHz	

R4-030315

Madrid, Spain 17 - 22 February, 2003

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<sup>#</sup> 25.1	41 CR	271 × re	ev <mark>1</mark> ³	€ Current versi	on: <b>4.7.0</b> #
For <u>HELP</u> on usi	ng this form, see	bottom of this pag	e or look at	the pop-up text	over the 光 symbols.
Proposed change af	<b>fects:</b> UICC ap	ps# M	E Radio	Access Networl	k X Core Network
Title: 第	UTRA-FDD BS R	eceiver protection			
Source: # F	RAN WG4				
Work item code:	TEI			Date: ∺	05/03/2003
D	Ise one of the follow F (correction) A (correspond: B (addition of t C (functional m D (editorial mo	s to a correction in a eature), nodification of feature dification) s of the above cates	e)	2 ase) R96 R97 R98 R99 Rel-4 Rel-5	Rel-4 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)
Reason for change:	networks are optional requests being de and allowed	e deployed are mis uirement which ma sensitised by emis to build a FDD BS	ssing. Up to by be applie ssions from with spurio	now there is only d in order to pre- the same BS tra bus emissions up	y one sufficient but vent the receiver of the nsmitter. It is possible to to -30dBm in 1MHz all other FDD networks.
Summary of change	-96 dBm/10 protection of BS; b) The E	0 kHz as as mand FDD BS receiver	atory requir for three ca located BS	rement, this char ases : a) The BS of other FDD op	e of BS are changed to age allow to cover the receivers of the same perator; c) The BS
Consequences if not approved:		on BS receiver des sted BS can not b			ssions from the same specification.
		pact Analysis: s requirement as	mandatory	may have some	impact on BS testing.
Clauses affected:	第 6.5.3.4.3, 6.	5.3.7.3			
Other specs affected:	X Test s	core specifications pecifications Specifications	s ж т	S25.104	

Other comments:

 $\mathfrak{R}$ 

Equivalent CRs in other Releases: CR270r1 cat. F to 25.141 v3.12.0, CR272r1 cat. A to 25.141 v5.5.0, CR273r1 cat. A to 25.141 v6.0.0

#### How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

#### 6.5.3.4.3 Protection of the BS receiver of own or different BS

This requirement <u>shallmay</u> be applied in order to prevent the receivers of the BSs being desensitised by emissions from the a BS transmitter. which are coupled between the antennas of the BS. This is measured at the transmit antenna port for any type of BS which has common or separate Tx/Rx antenna ports.

This requirement assumes the scenario described in [2]. For different scenarios, the manufacturer may declare a different requirement.

This requirement is not applicable to antenna ports which are used for both transmission and reception (e.g. which have an internal duplexer).

NOTE: In this case, the measurement of Reference Sensitivity will directly show any desensitization of the receiver.

#### 6.5.3.4.3.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.26: BS Spurious emissions limits for protection of the BS receiver

Band	Maximum Level	Measurement Bandwidth	Note
1 920 MHz to 1 980 MHz For operation in Frequency Bands defined in subclause 3.4.1(a)	-96 dBm	100 kHz	
1 850 MHz to 1 910 MHz For operation in Frequency Bands defined in subclause 3.4.1(b)	-96 dBm	100_kHz	

#### 6.5.3.7.3 Protection of the BS receiver of own or different BS

Table 6.37: BS Spurious emissions limits for protection of the BS receiver

Band	Maximum	Measurement	Note
	Level	Bandwidth	
1 920 MHz to 1 980 MHz	-96 dBm	100 kHz	
For operation in Frequency Bands defined			
in subclause 3.4.1(a)			
1 850 MHz to 1 910 MHz	-96 dBm	100_kHz	
For operation in Frequency Bands defined		_	
in subclause 3.4.1(b)			

R4-030316

Madrid, Spain 17 - 22 February, 2003

		CHANGE	REQU	JEST	•		CR-Form-v7
<sup>#</sup> 25.1	41 CR	272	жrev	<b>1</b> **	Current versi	5.5.0	*
For <u>HELP</u> on usi	ing this form, se	e bottom of thi	s page or l	ook at th	e pop-up text	over the	mbols.
Proposed change at	ffects: UICC	appsЖ	ME	Radio A	ccess Networ	k X Core Ne	etwork
Title: Ж	UTRA-FDD BS	Receiver prote	ection				
Source: # F	RAN WG4						
Work item code:	TEI				<i>Date:</i> ∺	05/03/2003	
[	Jse <u>one</u> of the fole <b>F</b> (correction <b>A</b> (correspon <b>B</b> (addition of	nds to a correction of feature), I modification of modification) ons of the above	on in an earl feature)		2 e) R96 R97 R98 R99 Rel-4 Rel-5	Rel-5 the following rele (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)	eases:
Reason for change:	networks a optional real BS being and allower	ents to protect are deployed a equirement whi desensitised by ed to build a FE as of the UL ba	re missing. ch may be y emissions DD BS with	Up to no applied is from the spurious	ow there is only n order to pre e same BS tra s emissions up	ly one sufficier vent the receiv insmitter. It is p to –30dBm in	er of the cossible 1MHz
Summary of change	-96 dBm/ protection BS; b) The	ous emissions of 100 kHz as as of FDD BS receivers of other FDD n	mandatory ceiver for th of co-locate	requiren ree case ed BS of	nent, this char es : a) The BS other FDD op	nge allow to co receivers of th	ver the le same
Consequences if not approved:		ction BS receiv existed BS can					same
		mpact Analys this requireme		latory ma	ay have some	impact on BS	testing.
Clauses affected:	<b>第</b> 6.5.3.4.3,	6.5.3.7.3					
Other specs affected:	X Test	er core specific specifications I Specifications		ж TS2	5.104		

Other comments:

 $\mathfrak{R}$ 

Equivalent CRs in other Releases: CR270r1 cat. F to 25.141 v3.12.0, CR271r1 cat. A to 25.141 v4.7.0, CR273r1 cat. A to 25.141 v6.0.0

#### How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

#### 6.5.3.4.3 Protection of the BS receiver of own or different BS

This requirement shallmay be applied in order to prevent the receivers of the BSs being desensitised by emissions from the a BS transmitter, which are coupled between the antennas of the BS. This is measured at the transmit antenna port for any type of BS which has common or separate Tx/Rx antenna ports.

This requirement assumes the scenario described in [2]. For different scenarios, the manufacturer may declare a different requirement.

This requirement is not applicable to antenna ports which are used for both transmission and reception (e.g. which have an internal duplexer).

NOTE: In this case, the measurement of Reference Sensitivity will directly show any desensitization of the receiver.

#### 6.5.3.4.3.1 Minimum Requirement

The power of any spurious emission shall not exceed.

Table 6.26: BS Spurious emissions limits for protection of the BS receiver

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
I	1920 - 1980MHz	-96 dBm	100 kHz	
II	18501910 MHz	-96 dBm	100_kHz	
III	17101785 MHz	-96 dBm	100_kHz	

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#### 6.5.3.7.3 Protection of the BS receiver of own or different BS

Table 6.37: BS Spurious emissions limits for protection of the BS receiver

Operating Band	Band	Maximum Level	Measurement Bandwidth	Note
I	1920 1980MHz	-96 dBm	100 kHz	
II	18501910 MHz	-96dBm	100_kHz	
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R4-030317

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For <u>HELP</u> on usi	ing this form, s	ee bottom of th	is page or l	ook at th	e pop-up text	over the 光 syn	nbols.
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Title: Ж	UTRA-FDD B	S Receiver prot	ection				
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Clauses affected:	<b>第</b> 6.5.3.4.3	6.5.3.7.3					
Other specs affected:	X Tes	er core specific t specifications M Specification		₩ TS2	5.104		

Other comments:

 $\mathfrak{R}$ 

Equivalent CRs in other Releases: CR270r1 cat. F to 25.141 v3.12.0, CR271r1 cat. A to 25.141 v4.7.0, CR272r1 cat. A to 25.141 v5.5.0

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II	18501910 MHz	-96_dBm	100_kHz	
III	1710 - 1785 MHz	-96 dBm	100 kHz	