**3GPP TSG-RAN WG4 Meeting # 113 *R4-24***

**Orlando, US, 18th – 22nd November, 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **37.145-1** | **CR** | 0340 | **rev** | **1** | **Current version:** | **17.11.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network |  |

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|  |
| ***Title:***  | (TEI17) CR to TS 37.145-1 - BS spurious receiver protection note [MSR\_BSRF\_RX] |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | TEI17 |  | ***Date:*** | 2024-11-21 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | For BS capable of multi-band operation, if the BS transmit in a band is overlapping to receive frequency range of the other band, e.g. band 5 and band 8, similar as co-existence requirements and co-location requirements, a NOTE is needed to clarify that the requirement is not applied.It is noted that the same change was agreed for 38 series |
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| ***Summary of change:*** | A new NOTE is added in clause 6.6.6.5.2.4 |
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| ***Consequences if not approved:*** | The not applicable requirement exists for the specific case. |
|  |  |
| ***Clauses affected:*** | 6.6.6.5.2.4 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 37.105 |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ... |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

**<Start of Change >**

6.6.6.5.2.4 Protection of the BS receiver of own or different BS

This requirement shall be applied for FDD operation in order to prevent the receivers of Base Stations being desensitised by emissions from the transmitter *TAB connector*. It is measured at the transmit *TAB connector* for any type of *TAB connector* which has common or separate Tx/Rx antenna ports.

The basic limit of any spurious emission shall not exceed the limits in table 6.6.6.5.2.4 -1, depending on the declared Base Station class and Band Category.

Table 6.6.6.5.2.4-1: Spurious emissions *basic limits* for protection of the BS receiver

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency range | UTRA*basic limit* | E-UTRA*basic limit* | Measurement bandwidth |
| Wide Area BS | FUL\_low - FUL\_high | -96 dBm | -96 dBm | 100 kHz |
| Medium Range BS | FUL\_low - FUL\_high | -86 dBm | -91 dBm | 100 kHz |
| Local Area BS | FUL\_low - FUL\_high | -82 dBm | -88 dBm | 100 kHz |
| NOTE 1: For BS operating in regions where a Band is only partially allocated for E-UTRA/NR operations (e.g. band 28), this requirement only applies in the UL frequency range of the partial allocation.NOTE 2: For BS capable of multi-band operation, Table 6.6.6.5.2.4-1 assumes that the supported *operating bands*, where the corresponding BS transmit and receive frequency ranges in TS 37.104 [5] Table 4.5-1 or Table 4.5-2 would be overlapping, are not deployed in the same geographical area. For such a case of operation with overlapping frequency arrangements in the same geographical area, special protection requirements may apply that are not covered by the 3GPP specifications. |

**<End of Change >**