**3GPP TSG- Meeting # *R5-253536***

**Malta, Malta, 19th May 2025 - 23rd May 2025**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.903** | **CR** | **0997** | **rev** | **1** | **Current version:** | **18.6.0** |  |
|  | | | | | | | | |
| *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 |  | Core Network |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | FR2 MU - PC3 update for OBW UL MIMO test in 38.903 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Keysight Technologies | | | | | | | | | |
| ***Source to TSG:*** | R5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI15\_Test, 5GS\_NR\_LTE-UEConTest | | | | |  | ***Date:*** | | | 2025-05-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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 can be 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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Certain progress has been made for PC3 MU and TT analysis in discussion R5-253527. Impacted test cases should be updated accordingly. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Updated OBW UL MIMO test MUs for PC3. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Test specification will remain incomplete for PC3. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | B.15 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS/TR 38.903 CR 0996 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Revision 1:  -Set new values in [] for UL MIMO when MBW is different than used for SISO.  -Reverted declaration from non-tetable to TBD for FR2c 400MHz. | | | | | | | | |

## <<< START OF CHANGES >>>

# B.15 Occupied bandwidth

Following tables summarize the MU threshold for EIRP measurements for Occupied bandwidth. The origin MU values for different test setups can be found in following subclauses.

Table B.15-1: MU threshold for beam peak measurement for Occupied bandwidth (SISO)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Power Class | Frequency | | Power | BW | MBW/BW | Threshold MU value (NOTE1)  [%CBW] |
| PC3, PC1 | 23.45 GHz ≤ f ≤ 32.125 GHz | | P = Max Output Power | 50 MHz | 1.5 | ±0.4 |
| 100 MHz | 1.5 | ±0.4 |
| 200 MHz | 1.5 | ±1.2 |
| 400 MHz | 1.5 | ±1.2 |
| 32.125 GHz < f ≤ 40.8 GHz | | P = Max Output Power | 50 MHz | 1.5 | ±0.4 |
| 100 MHz | 1.5 | ±0.4 |
| 200 MHz | 1.5 | ±1.3 |
| 400 MHz | 1.5 | ±1.3 |
| PC3 | 40.8GHz < f <= 44.3GHz | | P = Max Output Power | 50 MHz | 1.5 | ±0.65 |
|  |  | |  | 100 MHz | 1.5 | ±0.65 |
|  |  | |  | 200 MHz | 1.5 | ±1.3 |
|  |  | |  | 400 MHz | 1.3 | ±1.5 |
| PC5, PC6 | 23.45 GHz ≤ f ≤ 32.125 GHz | | P = Max Output Power | 50 MHz | 1.5 | ±0.4 |
|  |  | |  | 100 MHz | 1.5 | ±0.4 |
|  |  | |  | 200 MHz | 1.5 | ±1.2 |
|  |  | |  | 400 MHz | 1.5 | ±1.2 |
|  | | NOTE 1: Total Expanded MU for IFF for Quiet Zone size ≤ 30cm. | | | | |

Table B.15-2: MU threshold for beam peak measurement for Occupied bandwidth (MIMO)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Power Class | Frequency | | Power | BW | MBW/BW | Threshold MU value (NOTE1)  [%CBW] |
| PC3 | 23.45 GHz ≤ f ≤ 32.125 GHz | | P = Max Output Power | 50 MHz | 1.5 | ±0.4 |
| 100 MHz | 1.5 | ±0.4 |
| 200 MHz | 1.5 | ±1.2 |
| 400 MHz | 1.5 | ±1.3 |
| 32.125 GHz < f ≤ 40.8 GHz | | P = Max Output Power | 50 MHz | 1.5 | ±0.4 |
| 100 MHz | 1.5 | ±0.4 |
| 200 MHz | 1.5 | ±1.3 |
| 400 MHz | [1.3] | ±[1.7] |
|  | 40.8GHz < f <= 44.3GHz | | P = Max Output Power | 50 MHz | 1.5 | ±0.65 |
|  |  | |  | 100 MHz | 1.5 | ±0.65 |
|  |  | |  | 200 MHz | [1.3] | ±[1.3] |
|  |  | |  | 400 MHz | TBD | TBD |
|  | | NOTE 1: Total Expanded MU for IFF for Quiet Zone size ≤ 30cm. | | | | |

## B.15.1 Uncertainty budget format and assessment for DFF

FFS

- The uncertainty assessment has been derived for the case of D = [5 cm], f = {23.45 GHz, 32.125 GHz, 40.8 GHz, 44.3 GHz }, P = [Maximum output power].

## B.15.2 Uncertainty budget format and assessment for IFF

FFS

- The uncertainty assessment has been derived for the case of Quiet Zone size ≤ 30 cm, f = {23.45GHz, 32.125GHz, 40.8GHz, 44.3 GHz }, P = Maximum output power.

## <<< END OF CHANGES >>>