**3GPP TSG-RAN WG4 Meeting #99-e R4-** **2111xxx**

Online, 19 – 27 May 2021

**Source:** Huawei, HiSilicon

**Title: A-MPR for n39 NS\_50 PC2**

**Agenda Item: 8**.34.2

**Document for:** Information

# 1 Introduction

According to the WF [1] some preliminary simulation results are provided for the discussion on n39 PC2 A-MPR. New A-MPR may be needed for PC2 UEs to meet the additional emission requirements as signalled by NS\_50 [2].

##### 6.5.3.3.16 Requirement for network signalling value "NS\_50"

When "NS\_50" is indicated in the cell, the power of any UE emission shall not exceed the levels specified in Table 6.5.3.3.16-1. This requirement also applies for the frequency ranges that are less than FOOB (MHz) in Table 6.5.3.1-1 from the edge of the channel bandwidth.

**Table 6.5.3.3.16-1: Additional requirements for "NS\_50"**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Protected band** | **Frequency range (MHz)** | **Maximum Level (dBm)** | **MBW (MHz)** | **NOTE** |
| Frequency range | 1805 | - | 1855 | -40 | 1 | 1 |
| Frequency range | 1855 | - | 1880 | -15.5 | 5 | 1, 2, 3 |
| NOTE 1: This requirement is applicable for carriers with aggregated channel bandwidths confined in 1885-1920 MHz for 25MHz and 30MHz channel BWs and confined in 1880-1920 MHz for 40MHz channel BW.NOTE 2: The requirement also applies for the frequency ranges that are less than FOOB (MHz) in Table 6.6.3.1-1 and Table 6.6.3.1A-1 from the edge of the channel bandwidth.NOTE 3: For these adjacent bands, the emission limit could imply risk of harmful interference to UE(s) operating in the protected operating band. |

# 2 Discussion

The PC2 A-MPR simulation results for NS\_50 are presented in Table 1.

Table 1: A-MPR Simulation Results for NS\_50

|  |  |  |
| --- | --- | --- |
| **Channel Bandwidth** | **DFT-s-OFDM** | **CP-OFDM** |
| 25 MHz |  |  |
| 30 MHz |  |  |
| 40 MHz |  |  |

# References

[1] R4-2105386, “WF on PC2 n34 and n39 for NR”, CMCC, 3GPP TSG RAN4#98bis-e

[2] 3GPP TS 38.101-1 v16.6.0