3GPP TSG-RAN WG4 Meeting #109 RevisedR4-2318722

Chicago, US, 13– 17 Nov, 2023

Source: Huawei, HiSilicon

 Title: TP for TR 38.880: DC\_28A\_n78A with 3Tx

Agenda Item: 7.29.2

Document for: Approval

# **Introduction**

This contribution provides a text proposal on DC band combination of LTE bands B28 (1Tx) with NR band n78 (2Tx) for TR 38.880.

# Text Proposal

**----- Start of TP -----**

6.4 DC\_28\_n78

6.4.1 Operating bands for EN-DC

**Table 6.4.1-1: EN-DC band combination of band 28+n78**

|  |  |
| --- | --- |
| **EN-DC Band combination** | **Bands** |
| DC\_28A\_n78A | 28, n78 |

6.4.2 Maximum output power for inter-band EN-DC

**Table 6.4.2-1: UE Power Class for 3Tx inter-band EN-DC**

| **EN-DC configuration** | **Power class 2****(dBm)** | **Tolerance****(dB)** | **Power class 3****(dBm)** | **Tolerance****(dB)** |
| --- | --- | --- | --- | --- |
| DC\_28A\_n78A5,6 | 26 | +2/-3 | 23 | +2/-3 |
| NOTE 1: (Void in this TR)NOTE 2: (Void in this TR)NOTE 3: (Void in this TR)NOTE 4: (Void in this TR)NOTE 5: The UE supports PC3 in E-UTRA band, and supports PC2 with UL MIMO in NR bandNOTE 6: The UE supports PC3 in E-UTRA band, and supports PC3 with UL MIMO in NR band |

6.4.3 MSD scenario studies

Table 6.4.3-1 summarizes frequency ranges where harmonics mixing occur for DC\_28\_n78

 **Table 6.4.3-1: MSD scenarios for DC\_28\_n78 with total power class 2**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Aggressor Tx band** | **Victim Rx band** | **Whether 2Tx requirements exists** |
| **Harmonics** | fundamental of n78 UL | 5th harmonic of n28 DL | yes |
| **IMD** | IMD5 (fundamental of n78 UL - 4th order of band 28 UL ) | 28 Rx | yes |

6.4.4 REFSENS requirements

Reuse the existing 2Tx MSD requirements.

**----- End of TP -----**