**3GPP TSG-RAN WG4 Meeting # 111 R4-2410552**

**Fukuoka Meeting, May 20th – May 24th, 2024**

**Title: TP to TR 38.850 to add HP-NRCA n3-n78**

**Source: Nokia, BT plc**

**Agenda item: 6.18.2**

**Document for: Approval**

# 1 Introduction

This contribution is a text proposal for TR38.850 for adding PC2 of n3 in CA\_n3A-n78(2A).

This contribution is a text proposal to introduce PC2 n3 for DL CA\_n3A-n78(2A).

There is no cross-band isolation MSD for PC3 n3 for DL CA\_n3A-n78(2A) and the uplink harmonic MSD is already specified for the fallback for PC3 n3 for DL CA\_n3A-n78A.

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5.x CA\_n3-n78

5.x.1 UE maximum output power

**Table 5.5A.3.1-1: NR CA configurations and bandwidth combinations sets defined for inter-band CA (two bands)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NR CA configuration** | **Uplink CA configuration or single uplink carrier10** | **NR Band** | **Channel bandwidth (MHz)** | **Bandwidth combination set** |
| CA\_n3A-n78(2A) | n38CA\_n3A-n78ACA\_n78(2A) | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  |  | n78 | CA\_n78(2A)\_BCS0 |  |
|  |  | n3 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  |  | n78 | CA\_n78(2A)\_BCS2 |  |
|  |  | n3 | See n3 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  |  | n78 | CA\_n78(2A)\_BCS4 and 5 |  |
| NOTE 8: Minimum requirements for Power Class 2 are applicable for this uplink combination with 1Tx antenna connector in each band or single uplink carrier with up to 2Tx antenna connectors in this downlink/uplink combinationNOTE 10: Only single uplink carriers with power class other than PC3 are listed. |

5.x.2 REFSENS requirements

Analysis of REFSENS exceptions or MSD requirements is needed due to higher power uplink.

#### 5.x.2.0 General

For PC3, CA\_n3A-n78(2A) has no cross-band isolation MSD for UL n3.

For PC3, CA\_n3A-n78(2A) the harmonic uplink interference of n3 falls into Rx frequencies of n78, and requirements are captured in CA\_n3A-n78A PC2 fallback.

#### 5.x.2.1 Reference sensitivity requirements with PC2 on n3 without TxD

For CA\_ n1A-n3A, this would follow already specified reference sensitivity requirements.

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