**3GPP TSG-RAN WG4 Meeting #112bis R4-2417090**

Hefei, Anhui, China, 14th – 18th October, 2024

**Agenda item: 6.3.4**

**Source:** LG Electronics

**Title:** WF on sidelink intra-band CA part 2

**Document for:** Approval

# Introduction

This WF captures agreements for NR SL intra-band contiguous CA.

# WF agreements

**Sub-topic 1-1 : Tx UE RF requirements for PC2 SL intra-band contiguous CA**

**MPR requirements for PC2 SL intra-band contiguous CA**

* Define MPR requirements of PSSCH, PSFCH, and S-SSB for following cases
  + 1x26dBm+1LO
  + 2x23dBm+1LO

**Issue 1-1: PSSCH MPR for contiguous RB allocations**

* MPR for 1x26dBm+1LO

|  |  |  |  |
| --- | --- | --- | --- |
| Modulation | | MPR for bandwidth class B(dB) | |
|  | | Inner | outer |
| CP-OFDM | QPSK | ≤ 2.5 | ≤ 5.5 |
|  | 16QAM | ≤ 3.0 | ≤ 5.5 |
|  | 64QAM | ≤ 4.0 | ≤ 5.5 |
|  | 256QAM | ≤ 7.0 | ≤ 7.0 |

* MPR for 2x23dBm+1LO

|  |  |  |  |
| --- | --- | --- | --- |
| Modulation | | MPR for bandwidth class B(dB) | |
|  | | Inner | outer |
| CP-OFDM | QPSK | ≤ 3.5 | ≤ 7.0 |
|  | 16QAM | ≤ 3.5 | ≤ 7.0 |
|  | 64QAM | ≤ 4.5 | ≤ 7.0 |
|  | 256QAM | ≤ 7.5 | ≤ 8.0 |

**Issue 1-2: PSSCH MPR for non-contiguous RB allocations**

* MPR for 1x26dBm+1LO

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Modulation | | MPR for bandwidth class B(dB) | | |
|  | | Inner | Outer1 | Outer2 |
| CP-OFDM | QPSK | ≤ 3.5 | ≤ 7.0 | ≤ 10.0 |
|  | 16QAM | ≤ 4.0 | ≤ 7.0 | ≤ 10.0 |
|  | 64QAM | ≤ 5.5 | ≤ 7.0 | ≤ 10.0 |
|  | 256QAM | ≤ 8.0 | ≤ 8.0 | ≤ 10.0 |

* MPR for 2x23dBm+1LO

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Modulation | | MPR for bandwidth class B(dB) | | |
|  | | inner | Outer1 | Outer2 |
| CP-OFDM | QPSK | ≤ 4.5 | ≤ 8.5 | ≤ 11.5 |
|  | 16QAM | ≤ 4.5 | ≤ 8.5 | ≤ 11.5 |
|  | 64QAM | ≤ 7.0 | ≤ 8.5 | ≤ 11.5 |
|  | 256QAM | ≤ 9.5 | ≤ 9.5 | ≤ 11.5 |

**Issue 1-3: PSFCH MPR**

* Further discussion in next meeting.

**Issue 1-4: S-SSB MPR**

* Further discussion in next meeting.