**3GPP TSG-RAN WG4 Meeting #112bis R4-241709X**

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

**Agenda item: 6.3.4**

**Source: OPPO**

**Title:** WF on sidelink intra-band NCCA part 1

**Document for:** Approval

# Introduction

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

# WF agreements

### Simulation configuration

**Below WF is agreed:**

* CBW configuration:
  + Gap = max{CBW1, CBW2} is the worst case.
* Cases alignment:
  + Below case in table 1 when the LO and image fall inside the gap region, the ACLR is hard to meet.
    - Larger LO and IQ image suppression might be needed.

Table 1 Problematic Configurations of NCCA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| case | LCRB1 | RBSTART1 | LCRB2 | RBSTART2 | SCS | CBW1 | CBW2 |
| 7 | 10 | 41 | 10 | 0 | 15 | 10 | 10 |
| 23 | 10 | 41 | 20 | 2 | 15 | 10 | 20 |
| 39 | 10 | 13 | 10 | 0 | 30 | 10 | 20 |
| 43 | 12 | 11 | 25 | 0 | 30 | 10 | 20 |

### PC3/PC2 PSSCH non-contiguou CA MPR

**WF:** Companies are encouraged to provide further simulation results considering the in-gap ACLR with the agreement of issue 1.1.1

### PSFCH MPR

**WF:** Encourage comapnies to provide simulation results.

### S-SSB MPR

**WF:** Encourage comapnies to provide simulation results.

### LO and IQ suppression

**Background:**

* Current LO and IQ assumption: 34dB IQ image; 28dB LO suppression.
* NR intra-band NCCA assumption as below table 1:

Table 1 NR intra-band NCCA assumption for -13dBm/MHz

|  |  |  |
| --- | --- | --- |
| **In-gap emission limit** | **LO suppression requirement** | **IQ image suppression requirement** |
| SEM -13 dBm/MHz | 37 dB | 32 dB |

**WF:**

Together with issue 1.1.1, Use larger LO suppression IQ image as optional assumption to further check the simulation result.

### Configured output power

**WF:** It is proposed companies to provide consolidate proposals next meeting.

### TP to TR

**WF:** TP can be postponed to further check the NCCA results.

### A-MPR

**WF:** Encourage companies to further study the A-MPR regulation requirements