**3GPP TSG-RAN5 Meeting #99 R5-233768**

**Incheon, Korea, May 22th - 26th, 2023**

**Title: [Draft]** LS on frequencyInfo for NR SL RSRP measurements

**Release:** Rel-16

**Work Item:** 5G\_V2X\_NRSL\_eV2XARC-UEConTest

**Source:** TSG RAN WG5

**To:** TSG RAN WG2

**Contact Person:**

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**Attachments:** -

**1. Overall Description:**

RAN5 made the following observation impacting NR SL-RSRP measurement test cases in TS 38.523-1 clause 12.1.3.1, 12.1.3.2, 12.1.3.3, 12.2.5.1, 12.2.5.2 and 12.2.5.3 and message content default setting in TS 38.508-1 Table 4.6.6-16:

1. In IE *SL-MeasObject-r16* there is a mandatory field *frequencyInfoSL-r16* with IE type *ARFCN-ValueNR*. However, there is no description for this field in TS 38.331. Hence exact meaning of the field is unclear.

One interpretation is, this field is not the indication of the central frequency of measurement resources since NR SL-RSRP measurement is based on PSSCH-DMRS. It’s impossible for SL UE to keep sending PSSCH-DMRS in a fixed frequency location, especially in SL transmission mode 2.

Another interpretation is, this field seems to be the indication of the carrier on which SL-RSRP measurement is performed. However, there is still ambiguity about the interpretation of this field. For example, this field may be interpreted as the indication to the central/lower edge/upper edge of carrier/SL-BWP/resource pool, etc. This ambiguity can lead to unpredictable UE behaviour during testing.

RAN2 clarification of the meaning of frequencyInfoSL-r16 in SL-MeasObject-r16 is essential for RAN5 to complete test definition of the NR SL-RSRP measurement test cases mentioned above.

**2. Actions:**

**To RAN2 group.**

**ACTION:**

RAN5 respectfully asks RAN2 to provide clarification of the meaning of frequencyInfoSL-r16 in SL-MeasObject-r16.

**3. Date of Next TSG-RAN WG5 Meetings:**

TSG-RAN5 Meeting#100 21st – 25th August 2023 Toulouse, France

TSG-RAN5 Meeting#101 13nd – 17th November 2023 Chicago, United States

**4. Reference:**

[1] R5-232496 - Discussion on frequencyInfo for NR SL RSRP measurements