**3GPP TSG RAN WG1 #104bis-e R1-210xxxx**

**e-Meeting, April 12th – 20th, 2021**

**Title:** [Draft] Reply LS on timing of neighbor cell RSS-based measurements

**Response to:** LS on timing of neighbor cell RSS-based measurements (R1-2102299)

**Release:** Rel-16

**Work Item:** LTE\_eMTC5-Core

**Source:** Qualcomm Incorporated [RAN1]

**To:** RAN4

**Cc:** RAN2

**Contact Person:**

**Name: Alberto Rico**

**E-mail Address: albertor@qti.qualcomm.com**

**1. Overall Description:**

RAN1 would like to thank RAN4 for their LS on timing of neighbor cell RSS-based measurements.

RAN1 has discussed the issuses in the LS, and concluded the following:

- A UE is not required to acquire neighbor cell SFN for the purpose of neighbor cell RSS measurements.

- A UE can calculate the frame offset of the start of RSS transmission on neighbor cells from RRC signaling in the serving cell. The frame offset is relative to the serving cell SFN.

- A UE can assume that the start of RSS transmission on neighbor cells is within a window of +/- 5ms around the calculated frame offset. RAN1 specifications do not capture this synchronization requirement. RAN1 considers that RSS measurements for neighbor cell are only feasible for the case where the network can guarantee that the start of the neighbor cell RSS is within this time window.

**2. Actions:**

**To RAN4:**

**ACTION:** RAN1 respectfully asks RAN4 to take the above conclusion into account.

**3. Date of Next RAN1 Meetings:**

RAN1 #105-e May 10 – May 27, 2021 Online