**3GPP TSG-RAN WG4 Meeting #102-e R4-2206117**

**Electronic Meeting, 21st of February – 3rd of March, 2022**

**Agenda item:** 10.13.3.3

**Source:** Inmarsat

**Title:** Draft TP for TS 38.108 Section 6.6.4 Operating band unwanted emissions

**Document for:** Approval

# Introduction

During RAN WG4 Meeting RAN4#101-bis-e, a work split has been proposed to populate *Section 6* of TS 38.108. In this document, an initial draft TP is proposed to update some of the subsections related to RF Conducted requirements.

# Discussion

In this contribution is proposed to add information with respect to *Section 6.6 Unwanted emissions* of TS 38.108 [1] based on justifications and recommendations provided in TR 38.863 [2].

**Proposal 1: To update the TS with the attached TP**

# Conclusions

In this contribution, the following proposal is made:

**Proposal 1: To update the TS with the attached TP**

# Reference

[1] TS 38.108, “NR; Satellite Node radio transmission and reception”;

[2] TR 38.863, “Solutions for NR to support non-terrestrial networks (NTN): Non-terrestrial networks (NTN) related RF and co-existence aspects”;

# Text proposals for TS 38.108

**------------------------------------------------<Start of TP>-----------------------------------------------**

### 6.6.4 Operating band unwanted emissions

#### 6.6.4.1 General

Unless otherwise stated, the operating band unwanted emission (OBUE) limits for SAN in FR1 are defined from ΔfOBUE below the lowest frequency of each supported downlink *operating band* up to ΔfOBUE above the highest frequency of each supported downlink *operating band*. The values of ΔfOBUE are defined in table 6.6.1‑1 for the NR *operating bands*.

The requirements shall apply whatever the type of transmitter considered and for all transmission modes foreseen by the manufacturer’s specification.

*Basic limits* are specified in the tables below, where:

- Δf is the separation between the *channel edge* frequency and the nominal -3dB point of the measuring filter closest to the carrier frequency.

- f\_offset is the separation between the *channel edge* frequency and the centre of the measuring filter.

- f\_offsetmax is the offset to the frequency ΔfOBUE outside the downlink *operating band*, where ΔfOBUE is defined in table 6.6.1-1.

- Δfmax is equal to f\_offsetmax minus half of the bandwidth of the measuring filter.

**------------------------------------------------<End of TP>-------------------------------------------------**