**3GPP TSG-RAN WG4 Meeting #** **95-e Draft R4-2008730**

**Electronic Meeting, 25 May – 5 June, 2020**

**Source:** Ericsson

**Title:** TP to TR 38.809 on IAB EMC Emissions

**Agenda item:** 6.5.4

**Document for:** Approval

# Introduction

This document proposes a text on IAB EMC Emissions to be included in TR 38.809 [1].

# Text Proposal

# 12 IAB EMC requirements

## 12.1 IAB EMC Emission requirements

EMC emissions testing covers both conducted and radiated emissions. . Test methods and levels for conducted emissions, harmonic and voltage fluctuations and flicker testing defined by IEC/CISPR are independent of the product (IAB) characteristics and features, including the operating frequency or the Radio Access Technology (RAT). It is agreed that the applicable requirements for EMC conducted emissions of IAB nodes are the ones defined for NR BS in TS 38.113.

EMC radiated emissions test involves measuring the electromagnetic field strength of the emissions that are unintentionally generated by a product (an IAB node in this case). Emissions are inherent to the switching voltages and currents within any digital circuit. In this case, the radiated emission requirements as well as the test methods that apply are defined by IEC and CISPR subcommittee in the Standard CISPR 32 [X]. Testing and limits of emissions intentionally generated by the BS are covered by ITU-R recommendations SM.329 [X] and SM.1539 [X].



# Conclusion

In this contribution we present a TP to TR 38.809 [1] on IAB EMC Emissions. We propose to approve this text.

# References

1. 3GPP TR 38.809. “Background for Integrated access and backhaul radio transmission and reception (Release 16)”.