# TYPE ACCEPTANCE CRITERIA FOR 5G NEW RADIO BASE STATION EQUIPMENT OPERATING BELOW 6 GHz BAND



### 1. SCOPE

This document sets out the criteria for type acceptance of 5G New Radio ("NR") base station equipment operating in frequency bands below 6 GHz band (hereafter referred to as "the equipment").

# 2. OPERATING FREQUENCIES

The equipment shall operate in the following frequency bands:

<b>Band Arrangement</b>	Downlink	Uplink
	(Base Station Transmit)	(Base Station Receive)
	925 – 960 MHz	880 – 915 MHz
	1805 – 1880 MHz	1710 – 1785 MHz
Paired Band	2110 – 2170 MHz	1920 – 1980 MHz
	2620 – 2690 MHz	2500 – 2570 MHz
	2300 – 2390 MHz	
	3300 – 3400 MHz	
Unpaired Band	3400 – 3600 MHz	
	4840 – 49	920 MHz

# 3. TECHNICAL REQUIREMENTS

The equipment shall meet the technical requirements as stipulated in the latest version of specification TS 38.141-1 titled "3rd Generation Partnership Project; Technical Specification Group RAN; NR; Base Station (BS) Conformance Testing, Part 1: Conducted Conformance Testing (Release 15)" published by the Third Generation Partnership Project (3GPP) in respect of the following:

## **Transmitter**

Item	Transmitter Characteristics	Relevant Clause in 3GPP TS
		38.141-1
(i)	Base station output power	Clause 6.2
(ii)	Unwanted emissions	Clause 6.6 excluding Clause 6.6.2 on occupied bandwidth and Clause 6.6.5.5.1.4 on colocation with other base stations
(iii)	Transmitter intermodulation	Clause 6.7

## Receiver

Item	Receiver Characteristics	Relevant Clause in 3GPP TS 38.141-1
(i)	In-band selectivity and blocking	Clause 7.4
(ii)	Out-of-band blocking	Clause 7.5 excluding Clause 7.5.5.2 on co-location
		requirements

(iii)	Receiver spurious emissions	Clause 7.6
(iv)	Receiver intermodulation	Clause 7.7

## 3.2 Additional Spurious Emissions Requirements

The spurious emissions falling onto the 3.7 - 4.2 GHz band shall not exceed -52 dBm/MHz.

### 4. EVALUATION METHOD

Compliance of the equipment with the technical requirements shall be evaluated in accordance with the procedures specified in the corresponding 3GPP specification as given in clause 3.1 above.

### 5. REFERENCE

3GPP TS 38.104 - Third Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Base Station (BS) radio transmission and reception (Release 15)

3GPP TS 38.141-1 – Third Generation Partnership Project; Technical Specification Group RAN; NR; Base Station (BS) conformance testing, Part 1: Conducted conformance testing (Release 15)