

**TYPE ACCEPTANCE CRITERIA FOR  
5G NEW RADIO USER EQUIPMENT  
OPERATING BELOW 6 GHz BAND**



## 1. SCOPE

This document sets out the criteria for type acceptance of 5G New Radio (“NR”) user equipment operating below 6 GHz band (hereafter referred to as “the equipment”).

## 2. SAFETY REQUIREMENTS

The equipment shall comply with HKCA 2001 “Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Telecommunications Equipment” issued by the Communications Authority.

## 3. OPERATING FREQUENCIES

The equipment shall operate in the following frequency bands:

Band Arrangement	Downlink (Mobile Receive)	Uplink (Mobile Transmit)
Paired Band	925 – 960 MHz	880 – 915 MHz
	1805 – 1880 MHz	1710 – 1785 MHz
	2110 – 2170 MHz	1920 – 1980 MHz
	2620 – 2690 MHz	2500 – 2570 MHz
Unpaired Band	2300 – 2390 MHz	
	3300 – 3400 MHz	
	3400 – 3600 MHz	
	4840 – 4920 MHz	

## 4. TECHNICAL REQUIREMENTS

The equipment shall meet the technical requirements as stipulated in the latest version of specification TS 38.521-1 titled “Third Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Range 1 Standalone (Release 15)” published by the Third Generation Partnership Project (3GPP) in respect of the following:

### Transmitter

Item	Transmitter Characteristics	Relevant Clause in 3GPP TS 38.521-1
(i)	Transmitter power	Clause 6.2
(ii)	Output RF spectrum emissions	Clause 6.5

### Receiver

Item	Receiver Characteristics	Relevant Clause in 3GPP TS 38.521-1
(i)	Adjacent channel selectivity	Clause 7.5
(ii)	Blocking characteristics	Clause 7.6

(iii)	Spurious response	Clause 7.7
(iv)	Intermodulation characteristics	Clause 7.8
(v)	Spurious emissions	Clause 7.9

## **5. 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 4 above.

## **6. REFERENCE**

HKCA 2001 “Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Telecommunications Equipment” issued by the Communications Authority

3GPP TS 38.101-1 – Third Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) radio transmission and reception; Part 1: Range 1, Standalone (Release 15)

3GPP TS 38.521-1 – Third Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Range 1, Standalone (Release 15)

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