

**TYPE ACCEPTANCE CRITERIA FOR
5G NEW RADIO USER EQUIPMENT
OPERATING IN THE 24.25 – 28.35 GHz BAND**



1. SCOPE

This document sets out the criteria for type acceptance of 5G New Radio (“NR”) user equipment operating in the 24.25 – 28.35 GHz band (hereafter referred to as “the equipment”).

2. ELECTRICAL SAFETY REQUIREMENTS

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

3. RADIO FREQUENCY SAFETY REQUIREMENTS

The equipment shall comply with the radio frequency safety requirements applicable to general public as stipulated in Code of Federal Regulations (USA); Title 47 Telecommunication; Chapter 1 Federal Communications Commission, Part 30 Upper Microwave Flexible Use Service; Subpart C – Technical Standards; Section 30.207.

4. OPERATING FREQUENCIES

The frequency bands for the equipment are as follows -

Transmit	Receive
24.25 – 28.35 GHz	24.25 – 28.35 GHz

5. TECHNICAL REQUIREMENTS

The equipment shall meet the technical requirements as stipulated in the latest version of specification TS 38.521-2 titled “Third Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2 Standalone (Release 15)” published by the Third Generation Partnership Project (3GPP) in respect of the following:

Transmitter

<i>Item</i>	<i>Transmitter Characteristics</i>	<i>Relevant Clause in 3GPP TS 38.521-2</i>
(i)	Transmit power	Clause 6.2
(ii)	Output RF spectrum emissions	Clause 6.5 excluding Clause 6.5.1 on occupied bandwidth

Receiver

<i>Item</i>	<i>Receiver Characteristics</i>	<i>Relevant Clause in 3GPP TS 38.521-2</i>
(i)	Adjacent channel selectivity	Clause 7.5
(ii)	Blocking characteristics	Clause 7.6
(iii)	Spurious responses	Clause 7.7
(iv)	Spurious emissions	Clause 7.9

6. 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 5 above.

7. REFERENCE

3GPP TS 38.101-2 – Third Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) radio transmission and reception; Part 2: Range 2, Standalone (Release 15)

3GPP TS 38.521-2 – Third Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2, Standalone (Release 15)

Code of Federal Regulations (USA); Title 47 Telecommunication; Chapter 1 Federal Communications Commission, Part 30 Upper Microwave Flexible Use Service; Subpart C – Technical Standards; Section 30.207.

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