

**TYPE ACCEPTANCE CRITERIA FOR
RADIO EQUIPMENT
OPERATING IN THE 1430 – 1444 MHz BAND
FOR UNMANNED AIRCRAFT SYSTEM**

AMENDMENT TABLE

Item	Issue No.	Clause	Descriptions
1.	Issue 1 August 2025	All	First release

1. SCOPE

This document sets out the criteria for type acceptance of radio equipment operating in the 1430 – 1444 MHz band for unmanned aircraft system (hereafter referred to as “the equipment”).

2. OPERATING FREQUENCIES

The equipment shall operate in the 1430 – 1444 MHz band.

3. TECHNICAL REQUIREMENTS

3.1 Channel Arrangement

Channel bandwidth = 2 MHz

Centre frequency (MHz) = $1429 + 2n$ ($n = 1, 2, \dots, 7$)

(Notes:

1. n is the channel number.

2. Channels can be merged to cater for different capacity requirements.)

3.2 Transmitter Output Power Limit

Transmitter Power Class	Equivalent Isotropically Radiated Power (e.i.r.p) Limit (dBm / Channel)
1	42
2	35
3	23

3.3 Frequency Tolerance

Frequency Tolerance $\leq 20 \times 10^{-6}$

3.4 Transmitter Adjacent Channel Leakage Ratio

First Adjacent Channel Leakage Ratio ≥ 40 dB

Second Adjacent Channel Leakage Ratio ≥ 60 dB

(Note: For a merged channel, the requirements for a single channel above shall apply.)

3.5 Spurious Emission

Frequency Range	Limit	Measurement Bandwidth	Detection Mode
9 kHz – 150 kHz	-36 dBm	1 kHz	Root Mean Square (RMS)
150 kHz – 30 MHz	-36 dBm	10 kHz	RMS
30 MHz – 1 GHz	-36 dBm	100 kHz	RMS
above 1 GHz	-30 dBm	1 MHz	RMS

3.6 Receiver Adjacent Channel Selectivity

First Adjacent Channel Selectivity ≥ 40 dB

Second Adjacent Channel Selectivity ≥ 60 dB

(Note: For a merged channel, the requirements for a single channel above shall apply.)

4. REFERENCE

《民用无人驾驶航空器无线电管理暂行办法》工信部无〔2023〕252号 published by the Ministry of Industry and Information Technology of the People's Republic of China.

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