

TEST REPORT

FCC MPE Test for W0C-0430

FCC:ClassII PermissiveChange

APPLICANT
JVCKENWOOD Corporation

REPORT NO.
HCT-RF-2510-FC042

DATE OF ISSUE
October 24, 2025

Tested by
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Applicant

JVCKENWOOD Corporation

3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

Product Name

Communication Module

Model Name

W0C-0430

FCC ID

K44515050

Date of Test

August 18, 2025 ~ October 23, 2025

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing

(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

Test Standard Used

FCC Rule Part(s): § 1.1310, § 2.1091

Test Results

PASS

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	October 24, 2025	Initial Release

Notice

Content

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

RF Exposure Statement

1. LIMITS

According to § 1.1310, § 2.1091 RF exposure is calculated.

(i) Limits for Occupational/Controlled Exposure

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3 - 3.00.....	614	1.63	^(a) (100)	6
3.00 - 30.....	8242/f	4.89/f	^(a) (900/ f ²)	6
30 - 300.....	61.4	0.163	1.0	6
300 - 1500.....			f/300	6
1500 - 100.000.....			5	6

(ii) Limits for General Population/Uncontrolled Exposure

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3 - 1.34.....	614	1.63	^(a) (100)	30
1.34 - 30.....	824/f	2.19/f	^(a) (180/ f ²)	30
30 - 300.....	27.5	0.073	0.2	30
300 - 1500.....			f/1500	30
1500 - 100.000.....			1.0	30

F = frequency in MHz

^(a) = Plane-wave equivalent power density

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

3. Result (Limits for devices used by the general public)

3-1. Bluetooth

Maximum output Power at antenna input terminal	6.00	dBm
Maximum output Power at antenna input terminal	3.98	mW
Prediction distance	20.00	cm
Prediction frequency	2402 – 2480	MHz
Antenna Gain(typical)	0.40	dBi
Antenna Gain(numeric)	1.096	-
Power density at prediction frequency(S)	0.0009	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

3-2. BT LE

Maximum output Power at antenna input terminal	6.00	dBm
Maximum output Power at antenna input terminal	3.98	mW
Prediction distance	20.00	cm
Prediction frequency	2402 – 2480	MHz
Antenna Gain(typical)	0.40	dBi
Antenna Gain(numeric)	1.096	-
Power density at prediction frequency(S)	0.0009	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

3-3. DTS

Maximum output Power at antenna input terminal	18.50	dBm
Maximum output Power at antenna input terminal	70.79	mW
Prediction distance	20.00	cm
Prediction frequency	2412 – 2462	MHz
Antenna Gain(typical)	0.40	dBi
Antenna Gain(numeric)	1.096	-
Power density at prediction frequency(S)	0.0154	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

3-4. UNII

Maximum output Power at antenna input terminal	16.00	dBm
Maximum output Power at antenna input terminal	39.81	mW
Prediction distance	20.00	cm
Prediction frequency	5500 – 5825	MHz
Antenna Gain(typical)	1.90	dBi
Antenna Gain(numeric)	1.549	-
Power density at prediction frequency(S)	0.0123	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

3-5. Simultaneous transmission operations

$$\sum_{i=1}^n \frac{\text{Power density } i}{\text{Limit } i} < 1$$

->Simultaneous MPE is

$$\text{UNII}(20 \text{ cm}) + \text{Bluetooth}(20 \text{ cm}) = 0.01314 < 1$$

$$\text{DTS}(20 \text{ cm}) + \text{Bluetooth}(20 \text{ cm}) = 0.01631 < 1$$

4. FCC Result (Limits for controlled-use devices)

4-1. Bluetooth

Maximum output Power at antenna input terminal	6.00	dBm
Maximum output Power at antenna input terminal	3.98	mW
Prediction distance	20.00	cm
Prediction frequency	2402 – 2480	MHz
Antenna Gain(typical)	0.40	dBi
Antenna Gain(numeric)	1.096	-
Power density at prediction frequency(S)	0.0009	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	5.0000	mW/cm ²

4-2. BT LE

Maximum output Power at antenna input terminal	6.00	dBm
Maximum output Power at antenna input terminal	3.98	mW
Prediction distance	20.00	cm
Prediction frequency	2402 – 2480	MHz
Antenna Gain(typical)	0.40	dBi
Antenna Gain(numeric)	1.096	-
Power density at prediction frequency(S)	0.0009	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	5.0000	mW/cm ²

4-3. DTS

Maximum output Power at antenna input terminal	18.50	dBm
Maximum output Power at antenna input terminal	70.79	mW
Prediction distance	20.00	cm
Prediction frequency	2412 – 2462	MHz
Antenna Gain(typical)	0.40	dBi
Antenna Gain(numeric)	1.096	-
Power density at prediction frequency(S)	0.0154	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	5.0000	mW/cm ²

4-4. UNII

Maximum output Power at antenna input terminal	16.00	dBm
Maximum output Power at antenna input terminal	39.81	mW
Prediction distance	20.00	cm
Prediction frequency	5500 – 5825	MHz
Antenna Gain(typical)	1.90	dBi
Antenna Gain(numeric)	1.549	-
Power density at prediction frequency(S)	0.0123	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	5.0000	mW/cm ²

4-5. Simultaneous transmission operations

$$\sum_{i=1}^n \frac{\text{Power density } i}{\text{Limit } i} < 1$$

->Simultaneous MPE is

$$\text{UNII}(20 \text{ cm}) + \text{Bluetooth}(20 \text{ cm}) = 0.00263 < 1$$

$$\text{DTS}(20 \text{ cm}) + \text{Bluetooth}(20 \text{ cm}) = 0.00326 < 1$$