



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

3.6 Automatic Discontinuation of transmission, FCC 15.407 (c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

This function will be declared by manufacturer.

3.7 Reserved, FCC 15.407 (d)

3.8 Indoor Operation Restriction, FCC 15.407 (e)

Within the 5.15–5.25 GHz band, U- NII devices will be restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations. This equipment has to be declared by manufacturer of the final product as content of the user manual.

3.9 Equivalent isotropic radiated power, FCC 15.407 (f)

FCC Rule: 15.407(b)(3)

Band 1

$EIRP = \text{max. conducted output power} + \text{antenna gain}$

$EIRP = 17.86 \text{ dBm} + (9.02 \text{ dBi} [\text{antenna gain claimed by manufacturer}]) = 26.88 \text{ dBm} = 487.53 \text{ mW}$

NII-2A

$EIRP = \text{max. conducted output power} + \text{antenna gain}$

$EIRP = 15.56 \text{ dBm} + (9.02 \text{ dBi} [\text{antenna gain claimed by manufacturer}]) = 24.58 \text{ dBm} = 287.08 \text{ mW}$

NII-2C

$EIRP = \text{max. conducted output power} + \text{antenna gain}$

$EIRP = 15.77 \text{ dBm} + (9.02 \text{ dBi} [\text{antenna gain claimed by manufacturer}]) = 24.79 \text{ dBm} = 301.30 \text{ mW}$

NII-3

$EIRP = \text{max. conducted output power} + \text{antenna gain}$

$EIRP = 19.79 \text{ dBm} + (9.02 \text{ dBi} [\text{antenna gain claimed by manufacturer}]) = 28.81 \text{ dBm} = 760.33 \text{ mW}$

Test equipment used: ETSTW-RE 055



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3.10 Exemption Limits for Routine Evaluation according to 47 CFR FCC Part 2 Subpart J, section 2.1091

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20 cm normally can be maintained between the user and the device.

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(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

*Plane-wave equivalent power density

E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to mW/m².

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$



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Established separation distance is 20 cm.

Operating frequency band: Band 1: 5.150 GHz-5.250 GHz, NII-2A: 5.250 GHz-5.350 GHz

NII-2C: 5.470 GHz-5.725 GHz, NII-3: 5.725 GHz-5.850 GHz

The product meets RF exposure requirement.

Because the power density of 0.1513 mW/cm² at 5745 MHz is below the power density limit of 1 mW/cm².

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1.0

Explanation: Use KDB 447498 D01 v06 is being applied.