

**FCC ID: 2AHCK-WD40FT2108 RF Exposure Report**

Test Requirement: FCC Part 1.1307

Evaluation Method: FCC Part 2.1091 &amp; KDB 447498 D01 General RF Exposure Guidance v06

**Requirements**

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 0.2 m normally can be maintained between the user and the device.

**The procedures / limit****(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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; \*Plane-wave equivalent power density

**MPE Calculation Method**

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = output power to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator,  
the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

From the peak EUT RF output power, the minimum mobile separation distance, R=20cm, as well as the gain of the used antenna, the RF power density can be obtained

**ANTA**

Antenna Gain (dBi)	Antenna Gain (numeric)	Maximum conducted (average) output power (dBm)	Maximum conducted (average)output power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
2.00	1.585	15.54	35.81	0.0113	1	Compliance

**ANTB**

Antenna Gain (dBi)	Antenna Gain (numeric)	Maximum conducted (average) output power (dBm)	Maximum conducted (average)output power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
2.00	1.585	15.58	36.14	0.0114	1	Compliance

**ANTA+ANTB**

Antenna Gain (dBi)	Antenna Gain (numeric)	Maximum conducted (average) output power (dBm)	Maximum conducted (average)output power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
2.00	1.585	14.93	31.12	0.0098	1	Compliance