

MPE Evaluation

Applicant: STONKAM CO., LTD

FCC ID: 2ATW7- HDW143

Model: HDW700143QC

RF Exposure Evaluation

RF Exposure Compliance Requirement

Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 and FCC 1.1310
Radiofrequency radiation exposure limits for General Population/Uncontrolled Exposure.

EUT RF Exposure

$$P_d = \frac{PG}{4\pi R^2}$$

P_d = power density in mW/cm²

P = output power to antenna in mW

G = gain of antenna in linear scale

$$\pi = 3.14$$

R = distance between observation point and center of the radiator in cm

The Max Output Power is 12.777 dBm in Highest channel (2.478GHz);

Antenna gain: 3 dBi, gain of antenna in linear scale: 2

$$R = 20\text{cm}$$

$$P_d = \frac{PG}{(4\pi R^2)} = 0.008 \text{ mW/cm}^2 < 1(\text{limits}) \text{mW/cm}^2$$