

MPE Evaluation

Applicant: STONKAM CO., LTD
FCC ID: 2ATW7-HDW-MO
Model: HDW100295QDC

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

$$P_d = PG / (4 \pi R^2)$$

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 15.472 dBm in Highest channel (2.478GHz);

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

$R=20\text{cm}$

$$P_d = PG / (4 \pi R^2) = 0.014 \text{ mW/cm}^2 < 1 (\text{limits}) \text{ mW/cm}^2$$

RP-SMA Antenna gain: 4.5 dBi, gain of antenna in linear scale: 2.818 dBi

$R=20\text{cm}$

$$P_d = PG / (4 \pi R^2) = 0.0198 \text{ mW/cm}^2 < 1 (\text{limits}) \text{ mW/cm}^2$$