

MPE Evaluation

Applicant: Guangzhou Yuandong Smart Sports Technology Co., Ltd.

FCC ID: 2BR3S-PH260

Model: PH260ProZ1-G1, PH260A1G2, PH260A2G2, PH260A3G2, PH260A4G2, PH260A5G2;
PH260ProA1G2, PH260ProA2G2, PH260ProA3G2, PH260ProA4G2, PH260ProA5G2; PH260MaxA1G2,
PH260MaxA2G2, PH260MaxA3G2, PH260MaxA4G2, PH260MaxA5G2

MPE Evaluation

RF Exposure Compliance Requirement

Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 and FCC 1.1310 Radio frequency 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

Remark: This device couldn't support 2.4&5G WIFI simultaneous transmission.

For 2.4G WIFI

The Max Output Power is 19.595 dBm in 2.452 GHz;

Antenna gain: 3.62 dBi, gain of antenna in linear scale: 2.3

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

$$P_d = PG / (4\pi R^2) = 0.0417 \text{ mW/cm}^2 < 1 (\text{limits}) \text{ mW/cm}^2$$

For 5G WIFI Band I

The Max Output Power is 9.73 dBm in 5.230 GHz;

Antenna gain: 3.87 dBi, gain of antenna in linear scale: 2.44

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

$$P_d = PG / (4\pi R^2) = 0.0045 \text{ mW/cm}^2 < 1 (\text{limits}) \text{ mW/cm}^2$$

For 5G WIFI Band II

The Max Output Power is 9.77 dBm in 5.310 GHz;

Antenna gain: 3.87 dBi, gain of antenna in linear scale: 2.44

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

$$P_d = PG / (4\pi R^2) = 0.0046 \text{ mW/cm}^2 < 1 (\text{limits}) \text{ mW/cm}^2$$

For 5G WIFI Band III

The Max Output Power is 13.98 dBm in 5.670 GHz;

Antenna gain: 3.87dBi, gain of antenna in linear scale: 2.44

R=20cm

$P_d = PG/(4\pi R^2) = 0.012 \text{ mW/cm}^2 < 1 \text{ (limits) mW/cm}^2$

For 5G WIFI Band IV

The Max Output Power is 13.63 dBm in 5.745 GHz;

Antenna gain: 3.87dBi, gain of antenna in linear scale: 2.44

R=20cm

$P_d = PG/(4\pi R^2) = 0.011 \text{ mW/cm}^2 < 1 \text{ (limits) mW/cm}^2$

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