

MPE Evaluation

Applicant: Guangzhou Hypnus Healthcare Co., Ltd.

FCC ID: 2A9TZ-VEN8M

Model: ST830M

MPE 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

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

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

Bluetooth (BLE mode):

The Max Output Power is 0.626 dBm in Middle channel (2.480GHz);

Antenna gain: 1.5 dBi, gain of antenna in linear scale: 1.41

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

$$P_d = P_G / (4 \pi R^2) = 0.00033 \text{ mW/cm}^2 < 1 \text{ (limits) mW/cm}^2$$

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