# MPE Evaluation

**Applicant:** Guangzhou Hypnus Healthcare Co., Ltd.
**FCC ID:** 2A9TZ-VEN8P
**Model:** AU830Pro

## 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

$Pd=PG/4\pi R^2$

Pd = 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=20cm

Pd =PG/(4 $\pi$ R2)=0.00033 mW/cm2<1(limits)mW/cm$^2$

**WIFI (2.4GHz):**

The Max Output Power is 16.91 dBm in 802.11b mode Middle channel (2. 412GHz);

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

R=20cm

Pd =PG/(4 $\pi$ R$^2$)= 0.0138 mW/cm$^2$<1(limits)mW/cm$^2$

CONCLUSION: Both of the WIFI and BT can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 < 1

CPD = Calculation power density

LPD = Limit of power density

--END--