

MPE Evaluation

Applicant: Lautsprecher Teufel GmbH

FCC ID: 2ADQS-107001336

Model: ROCKSTER AIR 2, FENDER x TEUFEL ROCKSTER AIR 2

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

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

P_d = power density in mW/cm²

P = output power to antenna in mW

G = gain of antenna in linear scale

$$\pi \approx 3.14$$

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

Bluetooth (BLE mode):

The Max Output Power is 1.865 dBm in 2.402GHz;

Antenna gain: 2.44dBi, gain of antenna in linear scale: 1.75

$R=20\text{cm}$

$$P_d = \frac{P}{(4 \pi R^2)} = 0.00054 \text{ mW/cm}^2 < 1 (\text{limits}) \text{mW/cm}^2$$

Bluetooth (Classic mode):

The Max Output Power is 3.063 dBm Normal mode 2.441GHz;

Antenna gain: 2.44dBi, gain of antenna in linear scale: 1.75

$R=20\text{cm}$

$$P_d = \frac{P}{(4 \pi R^2)} = 0.00071 \text{ mW/cm}^2 < 1 (\text{limits}) \text{mW/cm}^2$$

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