

## MPE Evaluation

**Applicant:** JB-Tag Solutions BV

**FCC ID:** 2BK73-TAGLAMP

**Model:** JB-Tag Light spots

## 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

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

Pd = power density in mW/cm<sup>2</sup>

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 2.299 dBm in 2.402GHz;

Antenna gain: 3.44 dBi, gain of antenna in linear scale: 2.21

R=20cm

$$Pd = PG/(4 \pi R^2) = 0.0007 \text{ mW/cm}^2 < 1 \text{ (limits)} \text{ mW/cm}^2$$

The Max Output Power is -28.45 dBm in 13.56MHz

Antenna gain: 0 dBi, gain of antenna in linear scale: 1.0

R=20cm

$$Pd = PG/(4 \pi R^2) = 0.00000143 \text{ mW/cm}^2 < 1 \text{ (limits)} \text{ mW/cm}^2$$

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