

MPE Evaluation

Applicant: Ark Vision Systems GmbH & Co. KG

FCC ID: 2A7WJ-3050031

Model: 3050031

RF Exposure 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

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

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

The Max Output Power is 14.498 dBm in Highest channel (2.445GHz);

Antenna gain: 3 dBi, gain of antenna in linear scale: 2 dBi

$R=20\text{cm}$

$$P_d = \frac{P_G}{(4 \pi R^2)} = 0.0112 \text{ mW/cm}^2 < 1 (\text{limits}) \text{ mW/cm}^2$$