

US Tech Test Report:
FCC ID:
Test Report Number:
Issue Date:
Customer:
Model:

FCC Part 15 Certification/ RSS 247
2AMOW-AR002HLR
17-0276
October 2, 2017
Sanitag Technologies Corp
AR-002-HLR

Maximum Public Exposure to RF (MPE) CFR 15.247 (i), CFR 1.1310 (e)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Peak Power (dBm) = 21.75 dBm
Peak Power (Watts) = 0.150 W
Gain of Transmit Antenna = 2.0 dBi = 1.58, numeric
d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = EIRP / 4A = 0.150(1.58) / 4 * \pi * 0.2^2 \\ &= 0.2370 / 0.5030 = 0.4712 \text{ w/m}^2 \\ &= (0.4712 \text{ W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.04712 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1 mW/cm²