

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

FCC Part 15 Class II Permissive Change
SQB-NIVISMOD0001
09-0189
November 9, 2009
Nivis, LLC
2.4GHZ MOD2

Maximum Public Exposure to RF (MPE) CFR 15.247 (i)

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:

Antenna 1

Peak Power (Watts) = 0.07211 (from Table 8 of Test Report)

Gain of Transmit Antenna = 5.0 dB_i = 3.162, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} \mathbf{S} &= (PG / 4\pi d^2) = \text{EIRP} / 4A = 0.07211 (3.162) / 4 * \pi * 0.2 * 0.2 \\ &= 0.2280 / 0.503 = 0.4533 \text{ w/m}^2 \\ &= (0.4533 \text{ W/m}^2) (1 \text{ m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.04533 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1 mW/cm²