

U.S. Tech Test Report:

FCC ID:

Report Number:

Issue Date:

Customer:

Model:

FCC Part 90 Certification

Z7B-MOBILE49

11-0222

November 3, 2011

Novarum, Inc.

Novarum Mobile 49

### **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/cm<sup>2</sup> at a distance, **d**, of 20 cm from the EUT.

Therefore, for:

#### **Highest Gain Antenna= 6 dBi**

Peak Power (Watts) = 0.195 (from Table 9 of Test Report)

Gain of Transmit Antenna = 6 dB<sub>i</sub> = 3.981, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} \mathbf{S} &= (PG / 4\pi d^2) = EIRP/4A = 0.195(3.981)/4\pi \cdot 0.2^2 \\ &= 0.7763/0.503 = 1.543 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.1543 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1 mW/cm<sup>2</sup>