Maximum Human Exposure Calculation

The equation used for calculating the power density at the surface of a parabolic aperture antenna is as follows:

$$S = 4P/A$$

where: S = maximum power density at the antenna surface
P = power fed to the antenna
A = physical area of the aperture antenna

This Application:

$P = 21.1\text{dBm} = 128.8\text{mW}$
$A = \text{pi}*r^2 = \text{pi}*(12.7\text{cm})^2 = 506.7\text{cm}^2$

$S = 4(128.8\text{mW})/506.7\text{cm}^2 = \mathbf{1.017mW/cm^2}$

Since the surface power density of this product is close to the limit of $1\text{mW/cm}^2$, then at 2m separation distance for a fixed installation the product is expected to meet FCC's RF radiation exposure limit for general population.