RF Exposure Evaluation (node)

A calculation based on FCC's Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (Edition 97-01) appears below.

EIRP = 12.5dBm = 17.78mW

The limit for general population/uncontrolled exposure is:

$S[\frac{mW}{cm^2}] = 0.601$

The distance from the antenna at which this radiation level will be reached is:

$R = \sqrt{\frac{EIRP}{4\pi S}}$

$R = \sqrt{\frac{17.78}{4\pi * 0.601}}$

$R = 1.5cm$