RF Exposure Evaluation

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

Maximum EIRP = 23.8dBm + 34.6dBi = 58.4dBm = 691,831mW

The limit for General Population/Uncontrolled Exposure is

 $S [mW/cm^{2}] = 1.0$

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

R=SQRT(EIRP/4 π S)

R=SQRT(691,831 / $(4\pi \times 1.0)$) = 234.6cm

RESULTS

The minimum distance from the antenna at which the power density is below the limit for General Population/Uncontrolled Exposure is 234.6cm.