9.2 MPE calculation

$$S = PG/4\pi R^2$$

where S = power density (in appropriate units, e.g. mW/cm^2)
P = power input to the antenna (in appropriate units e.g. mW)
G = power gain of the antenna in the direction of interest relative to the isotropic radiator
R = distance to the centre of radiation of the antenna (appropriate units e.g. cm)

Or

$$S = EIRP/4\pi R^2$$

where EIRP = equivalent isotropically radiated power

Calculation:

The manufacturer declared a maximal EIRP of 24.5 dBm

EIRP: 24.5 dBm (282 mW)

Calculated power density S:

S= 282 mW / (4π * 20 cm * 20 cm) = 0.056 mW / cm^2

Limit:

1 mW / cm^2 is the reference level for general public exposure according to: FCC OET Bulletin 65, Edition 97-01 Table 1 IC Safety Code 6

Result: The measurement is passed.