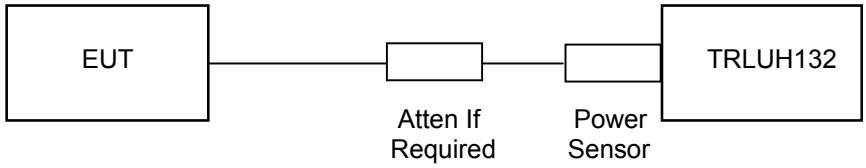
RADIO FREQUENCY RADIATION EXPOSURE

MPE calculation:

Test setup 1:



Formula:

$$\mathbf{S = EIRP / 4\pi R^2}$$

S = Power Density (mW/cm^2)
EIRP =Mean radiated power (mW)
R = distance for body (cm)

Calculation:

$$S = 9.33 / 4\ \pi\ 0.9^2\ mW/cm^2$$

$$\mathbf{S = 0.91\ mW/cm^2}$$

Notes:

1. The unit will be mounted at least 0.9 cm away from the body.
2. The mean carrier power EIRP of 9.33 mW was the worst case level measured
3. Maximum antenna Gain of 9dBi stated by manufacturer.

Limit

The limit of Power density for the General Population/ Uncontrolled Exposure is 1 mW/cm^2.

Result

The EUT meet the 1 mW/cm^2 limit.