

MPE Calculations

The device is classified as being either portable, mobile device or a fixed mounted device.

FCC part 1.1310, Table 1 limits the power density for uncontrolled exposure. The power density, P_d (mW/cm^2) calculated from the maximum EIRP, P_t (mW) and the distance, d (m), between the transmitting antenna and the closest person, can be calculated using:

$$P_d = P_t / (4 \pi d^2)$$

Frequency	MPE Limit (mW/cm^2)	EIRP (mW)	P_d at 20cm (mW/cm^2)	Distance where P_d = limit (cm)
2405 to 2480 MHz	1.00	4.0	0.0008	0.6

Since the radiated power is less than the low threshold of 60/2.48 or 24mW, it may be used anywhere, as SAR tests are not required, so long as it is not co-located with other transmitters.