

**SAR evaluation**  
**FCC ID: 2A75N-G36**

MPE Calculation Method

$$E \text{ (V/m)} = (30 * P * G)^{0.5} / d$$

$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} = E^2 / 377$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = (30 * P * G) / (377 * d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well

as the gain of the used antenna, the RF power density can be obtained.

**Calculated WIFI Result and Limit (WORSE CASE IS AS BELOW)**

Antenna Gain (Numeric)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.455 (1.63dBi)	28.97 (14.62dBm)	0.008	1	Compiles

Note:

Antenna Gain (Numeric): 1.455dBi

$$\text{ERP} = 14.62 + 1.63 - 2.15 = 14.10 \text{ dBm} (25.70 \text{ mW})$$