

**FCC ID** : 2AD2W-LOWSC5711FABI  
**Test Standard** : KDB447498D04 General RF Exposure  
Guidance v01

## SAR evaluation

MPE Calculation Method

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

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

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

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

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 Result and Limit (WORSE CASE IS AS BELOW)

Directional antennaGain (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
0.5dBi(1.122)	17.047 (802.11b 2412)	0.1131	1	Compiles