SAR evaluation

FCC ID: 2BCSK3WWDZ-U60B

MPE Calculation Method

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

Power Density: $Pd\ (W/m2) = E^2/377$

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 Result and Limit

Antenna Gain (Numeric)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm2)	Test Result
4.28	6.90	0.006	1	Compiles

Note:

Antenna Gain: 3.30dBi

Directional Gain: 6.31dBi

Directional Gain (Numeric): 4.28