SAR evaluation

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MPE Calculation Method

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

Power Density: Pd (W/m2) = E<sup>2</sup>/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.
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Calculated Result and Limit (WORSE CASE IS AS BELOW)

Directional	Peak Output	Power Density	Limit of Power	Test
AntennaGain	Power (mW)	(S) (mW/cm2)	Density (S)	Result
(Numeric)			(mW/cm2)	
(1.2dBi)	52.24	0.0137	1	Compiles
	(17.18dBm@2412MHz)			