SAR evaluation

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.

Directional	Peak Output	Power Density	Limit of Power	Test
AntennaGain	Power (mW)	(S)(mW/cm2)	Density (S)	Result
(Numeric)			(mW/cm2)	
1.1324	26.3 (14.20	0.006	1	Compiles
(0.54dBi)	dBm@2412MHz)			

Calculated Result and Limit (WORSE CASE IS AS BELOW)