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)	
2.34	63.24	0.03	1	Compiles
(3.7dBi)	(18.01dBm@2437MHz)			
1.014	3.9446	0.0008	1	Compiles
(0.06dBi)	(5.96dBm@2442MHz)			

Calculated Result and Limit (WORSE CASE IS AS BELOW)