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 (mW/cm2) (Numeric) 6.324 37.844 0.048 1 Compiles (8.01dBi) (15.78dBm )

Calculated Result and Limit (WORSE CASE IS AS BELOW)