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.

Calculated Result and Limit (WORSE CASE IS AS BELOW)
WIFI:

Directional AntennaGain (Numeric)	Peak Output Power (mW)	Power Density (S)(mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
1.122 （0.5dBi）	19.4536 （12.89dBm@2437MHz）	0.00434	1	Compiles

Zigbee：
Field strength =104.61dBuV/m @3m
So $EIRP=\{ [10^{(104.61/20)}/10^6 \times 3]^2/30 \}x1000$ mW = 8.672mW

EIRP (mW)	Power Density (S)(mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
8.672	0.00173	1	Compiles

Conclusion:
0.00434+0.00173=0.00607<1