

MPE

1 PREDICTION OF MPE LIMIT AT A GIVEN DISTANCE EQUATION FROM PAGE 18 OF OET BULLETIN 65, EDITION 97-01

2 MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

3 TEST RESULTS

EUT:	SurroundBar 6000 Instant Home Theater	Model Name :	AM1600
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH19 /CH37		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.30	2.1380	13.78	23.8781	0.01016133	1	Complies
3.30	2.1380	14.16	26.0615	0.01109048	1	Complies
3.30	2.1380	13.86	24.3220	0.01035024	1	Complies