

EXHIBIT 14. MPE CALCULATIONS

The following MPE calculations are based on a 1.8 centimeter inverted-F printed circuit board trace antenna, at 2440 MHz, with a measured ERP of 110.9 dB μ V/m, at 3 meters, and conducted RF power of +8.23 dBm as presented to the antenna. The calculated gain of this antenna, based on the ERP measurements is 7.5 dB.

Prediction MPE limit at a given distance

Reference equation from page 18 OET Bulletin 65, Edition 97-01

Maximum peak output power at antenna input terminal: 8.23(dBm)
Maximum peak output power at antenna input terminal: 6.653 (mW)
Antenna Gain (typical): 7.5 (dBi)
Maximum Antenna Gain: 5.623(numeric)
Prediction Distance: 20 (cm)
Prediction Frequency: 2440 (MHz)
MPE Limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)

Power density at prediction frequency: 0.007443
Maximum allowable antenna gain: 28.8 (dBi)
Margin of Compliance at 20 cm = 21.3 dB

Prepared For: LS Research, LLC	Model #: MTX10	LS Research, LLC
EUT: Matrix 10mW	Serial #: n/a	Template: 15.247 DTS TX (V2 9-06-06)
Report #: 306503 TX	Customer FCC ID #: TFB-MATRIXL	Page 40 of 42