

## **FCC TEST REPORT**

FCC ID: YD5MT1350TRX

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this Chapter.

## Limit

Limits for general population/Uncontrolled exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)	30
1.34-30	824/f	2.19/f	$(180/f^2)$	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100 000			1.0	30

f = frequency in MHz

## MPE Prediction

Predication of MPE limit at a given distance.

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=PG/4\pi R^2$ 

Where: S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

Maximum peak output power at antenna input : 17.22 dBm (52.723 mW)

Prediction distance : 20 cm

Predication frequency : 2 410 MHz

Antenna gain(Max) : 2.0 dBi (1.58489319 numeric)

Power density at predication frequency at 20 cm : 0.01662379 mW/cm<sup>2</sup>

MPE Limit for : 1 mW/cm<sup>2</sup>

## **Test Result**

The power density level at 20 cm is 0.01662379 mW/cm<sup>2</sup> which is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 2 410 MHz

<sup>\*</sup>Plane-wave equivalent power density