

RF Exposure / MPE Calculation

No. : 10007808H

Applicant : **Tand D Corporation**
Type of Equipment : **Wireless LAN Thermo Recorder**
Model No. : **TR-71wf / TR-72wf**
FCC ID : **5558A-50060**

Tand D Corporation declares that Model : TR-71wf / TR-72wf complies with FCC radiation exposure requirement specified in the FCC Rules A292.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "TR-71wf / TR-72wf" as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 15.45 mW (Maximum peak output power)
G = 1.64 Numerical Antenna gain; equal to 2.14 dBi
r = 20.0 cm

For: TR-71wf / TR-72wf

$$S = 0.00503 \text{ mW/cm}^2$$