RF Exposure / MPE Calculation

No.	:	14097084H
Applicant	:	T&D Corporation
Type of Equipment	:	Bluetooth® Thermo Recorder
Model No.	:	TR43A
FCC ID	:	SRD50130

T&D Corporation declares that Model: TR43A complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "TR43A" 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 1mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

$$S = \frac{P \times G}{4 \times \pi \times r^2}$$

Where

P =1.48 mW (Maximum average output power) \Box Time average was used for the above value in consideration of 6-minutes time-ave \Box Burst power average was used for the above value in consideration of worst conditG =1.445 Numerical Antenna gain; equal to 1.6dBir =20 cm (Separation distance)

Power Density Result $S = 0.00043 \text{ mW/cm}^2$

Even taking into account the tolerance, this device can be satisfied with the limits.