

RF Exposure / MPE Calculation

No. : 11051899H
Applicant : FUJITSU TEN LIMITED
Type of Equipment : Car Navigation
Model No. : FT0102A
FCC ID : BABFT0102A

FUJITSU TEN LIMITED declares that Model: FT0102A 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 "FT0102A" 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/cm² uncontrolled exposure limit. The Friis formula used was:

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

Where

$P =$ 26.79 mW (Maximum average output power)

Frame power was used for the above value in consideration of 6-minutes time-averaging

Burst power was used for the above value in consideration of worst condition.

$G =$ 0.953 Numerical Antenna gain; equal to -0.21dBi

$r =$ 20 cm (Separation distance)

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

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124