

RF Exposure / MPE Calculation

No. : 10075507H

Applicant : **FUJITSU TEN LIMITED**
Type of Equipment : **Car Audio (WLAN / Bluetooth part)**
Model No. : **FT0056A**
FCC ID : **BABFT0056A**

FUJITSU TEN LIMITED declares that Model : FT0056A
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 "FT0056A" 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 = 17.26 mW (Average Output Power)
G = 0.27 Numerical Antenna gain; equal to -5.70 dBi
r = 20.0 cm

For: FT0056A (WLAN part)

$$S = 0.00092 \text{ mW/cm}^2$$

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

Where

P = 0.97 mW (Average Output Power)
G = 0.27 Numerical Antenna gain; equal to -5.70 dBi
r = 20.0 cm

For: FT0056A (Bluetooth part)

$$S = 0.00005 \text{ mW/cm}^2$$

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124