

RF Exposure for Mobile use

No. : 26FE0203-YK-F1

Applicant : **PIONEER CORPORATION**
Type of Equipment : **Bluetooth adapter**
Model No. : **CD-BTB100**
FCC ID : **AJDK013**

PIONEER CORPORATION declares that Model : Bluetooth adapter complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091. The "CD-BTB100" has 0.77 mW of conducted Peak Output power and 1.22 mW of EIRP. The Following calculation is the reference data for 20cm distance for mobile use.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "CD-BTB100" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. 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 = 0.77 mW (Maximum peak output power)
G = 1.58 Numerical Antenna gain; equal 2.00 dBi
r = 20.0 cm

For: CD-BTB100

$$S = 0.00024 \text{ mW/cm}^2$$