

## **RF Exposure / SAR Statement**

**No. : 31EE0037-SH-01-A**

**Applicant :** PIONEER CORPORATION  
**Type of Equipment :** FLASH MEMORY MULTIMEDIA AV NAVIGATION RECEIVER  
**Model No. :** AVIC-Z130BT  
**FCC ID :** AJDK037

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PIONEER CORPORATION declares that Model : FLASH MEMORY MULTIMEDIA AV NAVIGATION RECEIVER complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091.

The "AVIC-Z130BT" has 1.72 mW of conducted Peak Output power and 2.49 mW of EIRP.

This equipment is considered as a mobile device so that SAR testing is excluded.

The Following calculation is the reference data for 20cm distance.

### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the "AVIC-Z130BT" 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/cm<sup>2</sup> uncontrolled exposure limit. The Friis formula used was:

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

Where

**P = 1.72 mW (Maximum peak output power)**  
**G = 1.45 Numerical Antenna gain; equal 1.60 dBi**  
**r = 20.0 cm**

**For: AVIC-Z130BT**

$$S = 0.00050 \text{ mW/cm}^2$$

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