

## **RF Exposure / SAR Statement**

**No. : 28IE0091-YK-A**

**Applicant : Pioneer Corporation**  
**Type of Equipment : CAR AUDIO with built in Bluetooth**  
**Model No. : 86120-48G30**  
**FCC ID : AJDK021**

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Pioneer Corporation declares that Model : CAR AUDIO with built in Bluetooth complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091. The "86120-48G30" has 2.47 mW of conducted Peak Output power and 3.92 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 "86120-48G30" 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 = 2.47 mW (Maximum peak output power)**  
**G = 1.58 Numerical Antenna gain; equal 2.00 dBi**  
**r = 20.0 cm**

**For: 86120-48G30**

$$S = 0.00078 \text{ mW/cm}^2$$

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***UL Japan, Inc.***

***YAMAKITA EMC LAB.***

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011 Facsimile: +81 465 77 2112