

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

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/cm² 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 mW/cm²

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