

RF Exposure / SAR Statement (Reference)

No. : 11085508M-A/B

Applicant : **PIONEER CORPORATION**
Type of Equipment : **Car Audio with Bluetooth / WLAN**
Model No. : **PVH-5248**
FCC ID : **AJDK095**

PIONEER CORPORATION declares that Model : PVH-5248 complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "PVH-5248" as calculated from FCC Part 1, §1.1310, TABLE 1 (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:

$$S = ((P1 * G1) + (P2 * G2)) / (4 * \pi * r^2)$$

Where

P1 = 2.69 mW (Maximum average output power) *1)
P2 = 22.44 mW (Maximum average output power) *2)
G1 = 0.56 Numerical Antenna gain; equal to -2.51 dBi
G2 = 0.53 Numerical Antenna gain; equal to -2.78 dBi
r = 20.0 cm

For: PVH-5248

$$S = 0.00267 \text{ mW/cm}^2$$

Even taking into account the tolerance, this device can be satisfied with the limits.

*1) Bluetooth value

*2) Wireless LAN value

This calculation was made to show that the EUT complies with the limit in simultaneous transmitting of Wireless LAN and Bluetooth.

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