

RF Exposure / SAR Statement (Reference)

No. : 10762865S-A/B

Applicant : **PIONEER CORPORATION**
Type of Equipment : **Car Audio with Bluetooth / WLAN**
Model No. : **PVH-5558**
FCC ID : **AJDK091**

PIONEER CORPORATION declares that Model : PVH-5558
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-5558" 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 = 1.97 mW (Maximum average output power) *1)
P2 = 32.43 mW (Maximum average output power) *2)
G1 = 0.63 Numerical Antenna gain; equal to -1.98 dBi
G2 = 0.92 Numerical Antenna gain; equal to -0.38 dBi
r = 20.0 cm

For: PVH-5558

$$S = 0.00618 \text{ mW/cm}^2$$

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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