

# RF Exposure / SAR Statement

## No. : 13385909S

**Applicant** : **Panasonic Corporation**  
**Type of EUT** : **Car Navigation**  
**Model Number of EUT** : **AT2103**  
**FCC ID** : **ACJ932AT2103**

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Panasonic Corporation declares that Model : AT2103 complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091(for mobile). AT2103 is intended to be used Bluetooth and Wireless LAN simultaneously within 20 cm.

### RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "AT2103" 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/cm<sup>2</sup> uncontrolled exposure limit. The Friis formula used was:

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

#### Where

**P1 = 4.51 mW (Maximum average output power) \*1)**  
**P2 = 20.75 mW (Maximum average output power) \*2)**

**G1 = 1.82 Numerical Antenna gain; equal to 2.59 dBi \*1)**  
**G2 = 2.54 Numerical Antenna gain; equal to 4.04 dBi \*2)**

**r = 20.0 cm**

For: AT2103 ( Wireless LAN 5 GHz and Wireless LAN 2.4 GHz)

$$S = 0.01212 \text{ mW/cm}^2$$

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

\*1) Wireless LAN (5 GHz band) value

\*2) Wireless LAN (2.4 GHz band) value

This calculation was made to show that the EUT complies with the limit in simultaneous transmitting of Wireless LAN 5 GHz and Wireless LAN 2.4 GHz.

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