

## **RF Exposure / SAR Statement (Reference)**

**No. : 13004393S**

**Applicant** : **Murata Manufacturing Co., Ltd.**  
**Type of Equipment** : **Communication Module**  
**Model No.** : **Type1VY**  
**FCC ID** : **VPYLB1VY**

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Murata Manufacturing Co., Ltd. declares that Model : Type1VY complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091(for mobile). Type1VY 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 "Type1VY" 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 = 9.33 mW (Maximum average output power) \*1)**  
**P2 = 27.93 mW (Maximum average output power) \*2)**  
**G1 = 1.24 Numerical Antenna gain; equal to 0.93 dBi \*1)**  
**G2 = 1.58 Numerical Antenna gain; equal to 1.98 dBi \*2)**  
**r = 20.0 cm**

**For: Type1VY (Bluetooth and Wireless LAN) S = 0.01107 mW/cm<sup>2</sup>**

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

\*1) Bluetooth value

\*2) Wireless LAN (5 GHz band\*) value, Antenna gain=Directional gain

\* Higher value in 2.4 GHz band and 5 GHz band

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

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**UL Japan, Inc.**

**Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401