

RF Exposure / SAR Statement (Reference)

No. : 10622710S-A/-E

Applicant	:	Murata Manufacturing Co., Ltd.
Type of Equipment	:	Communication Module
Model No.	:	Type1DR
FCC ID	:	VPYLB1DR

Murata Manufacturing Co., Ltd. declares that Model : Type1DR
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 "Type1DR" 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:

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

Where

P1 =	27.73	mW (Maximum average output power) *1)
P2 =	7.36	mW (Maximum average output power) *2)
G1 =	1.07	Numerical Antenna gain; equal to 0.28 dBi
G2 =	0.78	Numerical Antenna gain; equal to -1.10 dBi
r =	20.0	cm

For: Type1DR

$$S = 0.00702 \text{ mW/cm}^2$$

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

*1) Wireless LAN value

*2) Bluetooth value

This calculation was made to show that the EUT complies with the limit in simultaneous transmitting

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