

RF Exposure / SAR Statement (Reference)
No. : 10705692S-A/B

Applicant	:	Clarion Co., Ltd.
Type of Equipment	:	Navigation Unit
Model No.	:	QY-5111
FCC ID	:	AX2QY5092

Clarion Co., Ltd. declares that Model : QY-5111
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 “QY-5111” 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:

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

Where

P1 =	22.08	mW (Maximum average output power) *1)
P2 =	1.44	mW (Maximum average output power) *2)
G =	2.00	Numerical Antenna gain; equal to 3.00 dBi
r =	20.0	cm

For: QY-5111

$$S = 0.00934 \text{ mW/cm}^2$$

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 of Wireless LAN and Bluetooth.

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