RF Exposure Statement: 12029438 002

Client:	**Fujitsu Limited** Shiodome City Center, 1-5-2 Higashi-Shimbashi, Minato-ku, Tokyo 105-7123, Japan
Test item:	**Communication Module**
Identification:	**WR-2012-00a-MM**

FCC Requirement

According to FCC 2.1091, mobile equipment must comply with the following applicable limit for maximum permissible exposure (MPE) specified in FCC 1.1310:

Equipment Use	Frequency Range	Power Density [mW/cm^2]	Average Time [min]
General Population / Uncontrolled Exposure	1.5 – 100GHz	1	30

IC Requirement

According to RSS-102 (Issue 4), clause 2.5.2, no routine RF exposure evaluation is required if the transmitter has a minimum separation distance to the user greater than 20cm and has an output power (e.i.r.p.) below the following threshold:

Frequency Range	RF Exp. Evaluation Threshold [W]
Above 1.5GHz	5

Measurement Result

The maximum measured transmitter power is given in the following table:

Conducted Output Power P_{out} [mW]	Maximum Antenna Gain [dBi]	EIRP Output Power [mW]	Power Density at 20cm [mW/cm^2]
191.87	2.9	374.11	0.074

Note:

The power density S in mW/cm^2 is calculated according to the Friis formula: $S = (P_{out} \cdot G) / (4\pi \cdot D^2)$, where
P_{out} = antenna conducted output power in mW,
G = antenna gain in linear scale (here: 2.9dBi = 1.95 linear),
D = distance between observation point and radiating structure in cm (here: 20cm).

Conclusion

The device complies with the FCC and IC RF exposure requirements since the maximum transmitter power density is below the FCC limit and the e.i.r.p. output power is below the IC RF exposure evaluation exemption threshold.

Refer to test report 12029438 001 for more details.