RF Exposure / MPE Calculation

No.	15450284S
Customer	Japan Radio Co., Ltd.
Description of EUT	X-band SOLID-STATE TRANSMITTER / RECEIVER
Model Number of EUT	NTG-560
FCC ID	CKENTG560

Japan Radio Co., Ltd. declares that Model: NTG-560 complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “NTG-560“ as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

$$S = \frac{P \times G}{4 \times \pi \times r^2}$$

Where

P = 25.601 W (Maximum average output power)

☑ Time average was used for the above value in consideration of 6-minutes time-averaging

☐ Burst power average was used for the above value in consideration of worst condition.

G = 1995.262 Numerical Antenna gain; equal to 33 dBi (= antenna gain 34 [dBi] - cable loss 1 [dB])

r = 2020 cm (Separation distance (This distance is based on customer's documants (*1)))

(*1) This is based on "05_(Short-term Confidencial)STC_User Manual_Installation.pdf"

Power Density Result S = **0.99619 mW/cm^2**