RF Exposure / MPE Calculation

No.	:	4787971961-E1V2
Applicant	:	TAIYO YUDEN CO., LTD.
Type of Equipment	:	Bluetooth Dual-mode Module
Model No.	:	EYSGCC
FCC ID	:	RYYEYSGCC

TAIYO YUDEN CO., LTD. declares that Model: EYSGCC 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 "EYSGCC" 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 = 10.00 mW (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 = 0.832 Numerical Antenna gain; equal to -0.8dBi

r = 20 cm (Separation distance)

Power Density Result $S = 0.00165 \text{ mW/cm}^2$

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

UL Korea, Ltd. Suwon Laboratory