RF Exposure / MPE Calculation

No.	:	14178608S-A
Applicant	:	TOPCON CORPORATION
Type of Equipment	:	Bluetooth Module
Model No.	:	CYBT-333047-02
FCC ID	:	H5P-333047

TOPCON CORPORATION declares that Model: CYBT-333047-02 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 "CYBT-333047-02" 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

re P = 8.47 mW (Maximum average output power) \square Time average was used for the above value in consideration of 6-minutes time-ave \square Burst power average was used for the above value in consideration of worst condit G = 1.637 Numerical Antenna gain; equal to 2.14dBi r = 20 cm (Separation distance)

Power Density Result $S = 0.00276 \text{ mW/cm}^2$