

RF Exposure / MPE Calculation

No.	15802972M
Customer	Yoshikawakogyo RF Semicon Co., Ltd.
Description of EUT	12ch RW
Model Number of EUT	YRQLSG57
FCC ID	2BK24YRQLSG57

Yoshikawakogyo RF Semicon Co., Ltd. declares that Model: YRQLSG57 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 “YRQLSG57” 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 0.978mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = \frac{EIRP}{4\pi R^2}$$

Where

EIRP = 2.1 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.

r = 20 cm (Separation distance)

Power Density Result *S* = 0.00042 mW/cm²