## **RF Exposure / MPE Calculation**

No.	:	11274192S-A
Applicant	:	Alpine Electronics, Inc.
Type of Equipment	:	Entry Evo
Model No.	:	EE0001
FCC ID	:	A269ZUA149

Alpine Electronics, Inc. declares that Model: EE0001 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 "EE0001" 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 = 0.68 mW (Maximum average output power)

✓ Frame power was used for the above value in consideration of 6-minutes time-averaging
☐ Burst power was used for the above value in consideration of worst condition.

G = 0.501 Numerical Antenna gain; equal to -3 dBi

r = 20 cm (Separation distance)

## Power Density Result $S = 0.00007 \text{ mW/cm}^2$

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