

**FCC ID: 2AU6S-HGBTAMB**  
**IC :25701-HGBTAMB**

## RF EXPOSURE EVALUATION

Test standard:

CFR47 FCC Part 2.1091

RSS-102 Issue 5 March 2015

FCC KDB Publication 447498 v06

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The measured maximum conducted power of the EUT is  $3.612\text{dBm} \approx 2.30\text{ mW}$ , which is far below the SAR exclusion threshold level 96mW (Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq$ 50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

$$2.3 \times \sqrt{2.441} / 5 = 0.72 < 3$$

According to RSS-102 Issue 5 March 2015

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table .

Limits for SAR evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $1.31 \times 10^{-2} f^{0.6834} \text{ W}$  (adjusted for tune-up tolerance), where  $f$  is in MHz;

The separation distance of the EUT should be less than 5mm. The measured maximum specified e.i.r.p of the EUT is  $5.612\text{dBm} \approx 3.64\text{mW}$ , which is far below the SAR exclusion threshold level 4mW, hence the EUT is excluded from SAR evaluation according to RSS-102 Issue 5 section 2.5.1.