



Statement of compliance to Maximum Permissible Exposure (MPE)

Equipment : Wireless Powered Subwoofer
 Type/Model : CS-700SUB
 Applicant : Klipsch L.L.C.
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Definition of EUT : **Mobile device**
 Portable device

Here assuming a worst-case prediction of power density (100% reflection), then
 $S = 4PG / (4\pi R^2) = PG / (\pi R^2)$.

Where S = power density in mW/cm²
P = transmit power in mW
G = numeric gain of transmit antenna
R = distance (cm)

As we can see from the test report SH08030942-002:
The maximum P = 12.48dBm = 17.70mW
G = 1.8dBi = 1.51

As the **mobile device** is defined as that separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structures and the body of the user or nearby persons, here R is chosen to be 20cm

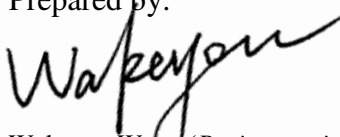
$$S = PG / (\pi R^2) = 17.70 * 1.51 / (3.14 * 20 * 20) = 0.02mW/cm^2$$

This level is below the 1 mW/cm² MPE for General Population / Uncontrolled Exposure as stated in OET BULLETIN 65 Edition 97-01.

Conclusion: this EUT fulfills 47CFR Part 15.247(i) (2007) with the precautions are outlined in the User's Manual to prevent exposure to high levels of RF energy. (See appendix I)

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Appendix I

Precautions below must be outlined in the User Manual to prevent exposure to high levels of RF energy:

The radiated output power of this device is below the FCC radio frequency exposure limits based on that human proximity to the antenna shall not be less than 20cm during normal operation.