



Statement of compliance to Maximum Permissible Exposure (MPE)

Equipment : Sound Blaster Wireless Touch Controller
Type/Model : SB1250
Applicant : Creative Labs Inc
1901 McCarthy Blvd, Milpitas, California, 95035, USA

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 SH10010189-002:

The maximum P = 15.95dBm = 39.36mW

G = 1.00dBi = 1

Here R is chosen to be 20cm,

$$S = PG / (\pi R^2) = 39.36 * 1 / (3.14 * 20 * 20) = 0.03\text{mW/cm}^2$$

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 definition outlined in the User's Manual. (See appendix I)

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Prepared by:

Wakeyou Wang (Project engineer)

Reviewed by:

Daniel Zhao (Reviewer)



Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.