RF Exposure / MPE Calculation

No.: 10017505H

Applicant : Sony Computer Entertainment Inc.

 $Type\ of\ Equipment\ :\qquad Development\ Kit\ (for\ PlayStation@4)\ \ *WLAN/Bluetooth(LE)\ part$

Model No. : DUH-D1000AA FCC ID : AK8DUTD1000

Sony Computer Entertainment Inc. declares that Model: DUH-D1000AA 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 "DUH-D1000AA" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

 $S = (P * G) / (4* \pi * r^2)$

Where

P = 248.54 mW (Maximum peak output power)

G = 3.16 Numerical Antenna gain; equal to 5.00 dBi *1

r = 20.0 cm

For: DUH-D1000AA $S = 0.15636 \text{ mW/cm}^2$

*1: Antenna gain was calculated as follows based on KDB662911D01; Directional antenna gain = G_{ANT} + 10 log (N) dBi

Where: G_{ANT} is individual antenna gain, N is number of tansmit antenna

^{*}Bluetooth antenna also transmit simultaneously with WLAN antennas, but there is no correlation between WLAN antennas and Bluetooth antenna.