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RF Exposure Calculation

Exposure of Humans to RF Fields Requirements

Applicant	: Sony Computer Entertainment Inc.
Type of Equipment	: PSP Development Tool (IEEE802.11b WLAN)
Model No.	: DTP-T1000
FCC ID	: AK8DTPT1001
IC	: 409B-DTPT1001

Regulations Applied : CFR 47 FCC 15.247(b)(5)

References Documents : CFR 47 FCC 1.1307(b), 1.1310, 2.1093 and
OET65 Supplement C

RF Exposure Calculations :

The following power density, calculated at 20cm from the radiated element, is in accordance with FCC OET65 Appendix B Table(B) "Limit for General Population / Uncontrolled Exposure". The maximum permissible exposure level is defined with 1mW/cm^2.

The power density can be calculated as below:

$$S = P * G / 4\pi R^2$$

Where:

R = 20 cm
P = 2.25 mW(3.52dBm)(Max. conducted output power at antenna terminal)
G = 3.16(numeric gain) = 5.0 dBi(Max. antenna Gain)
S = calculated exposure level at 20 cm

Then maximum power density generated at 20 cm is 0.0016 mW/cm^2

Summary:

The EUT complies with the RF exposure requirement of the above regulation.

Masaaki Takahashi
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