



## RF Exposure Calculation

### Exposure of Humans to RF Fields Requirements

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Applicant : Sony Computer Entertainment Inc.  
Type of Equipment : PSP Development Tool (IEEE802.11b WLAN)  
Model No. : DTP-T1000  
FCC ID : AK8DTPT1000  
IC : 409B-DTPT1000

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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  $1\text{mW}/\text{cm}^2$ .  
The power density can be calculated as below:

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

Where:

R = 20 cm

P = 9.40 mW(9.73dBm)(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  $0.0059 \text{ mW}/\text{cm}^2$

#### Summary:

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

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