Maximum Permissible Exposure (MPE) Evaluation

Applicant	: Sony Corporation
Equipment	: Wireless LAN Converter
Model No.	: PCWA-DE50
FCC ID	: AK8PCWADE50

MPE Calculations
According to the OET Bulletin 65 (Edition 97-01)

$$S = \frac{PG}{4\pi R^2}$$

$$R = \sqrt{\frac{PG}{4\pi S}}$$

Where:

S=power density (in appropriate units, e.g. mW/cm^2)

P=power input to antenna (in appropriate units, e.g., mW)

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Tx Frequency=	5260	(MHz)
Maximum peak power=	16.4	(dBm)
Antenna gain=	4.0	(dBi)

S=	1	(mW/cm^2)
P=	43.65	(mW)
G=	2.51	(numeric)
R=	2.95	(cm)

The calculated minimum separation distance from antenna :   2.95   (cm)

Notice in the User manual

FCC Radio-Frequency Exposure Statement
This equipment generates and radiates radio-frequency energy. In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled environment, this equipment has to be installed and operated while maintaining a minimum body to antenna distance of 20 cm. Based on continuous exposure of 30 minutes.