

RF Exposure / SAR Statement

No. : 10004229S-A

Applicant : OLYMPUS IMAGING CORP.
Type of Equipment : Wireless LAN Module
Model No. : S044WIFI-PCA
FCC ID : YSKWP5

OLYMPUS IMAGING CORP. declares that Model : Wireless LAN Module complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093.

The “S044WIFI-PCA“ has 2.99 mW of conducted Peak Output power and 2.17 mW of EIRP.

This kind of equipment is complied to " $(\text{maximum EIRP [mW]}) / (\text{minimum test separation [mm]})$ "

$$x(\sqrt{f} \text{ (GHz)}) \leq 3.0 \text{ (for 1g-SAR) or } \leq 7.5 \text{ (for 10g extremity SAR) (from KDB 447498, 4.3.1 1))",$$

so that SAR testing is excluded. The Following calculation is the reference data for 5mm minimum distance.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “S044WIFI-PCA“ as calculated value

from FCC KDB 447498 D01 General RF Exposure Guidance v05 clause 4.3.1 1).

This calculation is based on the highest EIRP possible from the system, considering calculation value a less than 3.0, exposure limit.

The formula used was:

[calculation]: $S = [(\text{max. power [mW]})/(\text{min. test separation distance[mm]})] \times [\sqrt{f \text{ (GHz)}}]$

Where

max. power [mW] (E.I.R.P.)	=	2.17 mW
min. separation distance [mm]	=	5 mm (less than 5mm is 5mm)
f [GHz]	=	2.475 GHz

For: S044WIFI-PCA

S= 0.7

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