SGS

RF EXPOSURE ANALYSIS

Product WLAN Network Monitoring Device

FCC ID YLF-2010-08-APU2

This device is designed to be mounted on a ceiling of the room. Persons must keep a separation distance of at least 20 cm while it is in operation.

Analysis for FCC

The equipment transmits in the 2400 – 2483,5 MHz frequency range and therefore the applicable threshold is calculated as stated in FCC document KDB 447498 by using the formula $60/f$ (where f is a highest frequency in used) $60/2.4835 = 24.2mW$

Output power considerations:

Max. E.I.R.P value: 13.88 dBm = 24.43 mW
(Value is taken from the test report number: 257245-4. Value contains conducted output power and antenna gain.)

RF exposure evaluation:

$$S = \frac{P*G}{4\pi R^2} = \frac{E.I.R.P}{4\pi R^2}$$

E.I.R.P (dBm)	E.I.P.R (mW)	Evaluation distance (cm)	S – power density (mW/cm^2)
13.88	**24.43**	**20**	**0.00486**

Result:

Equipment complies with the FCC limits for maximum permissible exposure