TAIYO YUDEN

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August 6, 2019

Atten: Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
Phone: 888-CALL-FCC (225-5322)

Re: RF Exposure Technical Brief for FCC

To Whom It May Concern:

We, TAIYO YUDEN CO., LTD., hereby declare that the following device complies with MPE limits set forth in FCC Part 1, section 1.1310, Table 1 "(B) Limits for General Population/Uncontrolled Exposure."

Applicant: TAIYO YUDEN CO., LTD.
Product Description: CPU Embedded Wireless LAN Module
Model Name: WYSACVLAY
FCC ID: RYYWYSACVLAY
FRN Number: 0008738361

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1. Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Power density (mW/cm^2)	Averaging time (minutes)
1,500-100,000	**1.0**	30

2. RF Exposure Calculations

$S = (P * G) / (4 * \pi * r^2)$

Where

P = 28.25 mW (Maximum average output power in mW)

G = 0.51 (Numerical Antenna gain which is equal to -2.90 dBi)

r = 20.0 cm (Distance in cm)

The power density of this model can be calculated as follows:

$S = (28.25*0.51)/(4*pi*20^2) =$ **0.00288 mW/cm²**

3. Conclusions

0.00288 mW/cm² < 1.0 mW/cm²

As the power density, 0.00288 mW/cm², is lower than the MPE limit, 1.0 mW/cm², we conclude that this device is satisfied with the MPE limits.

Sincerely,

M. Naganuma

Masaki Naganuma

Deputy manager