

RF exposure information

Product information from applicant

Applicant	:	DFree Inc.
Applicant address	:	2-10-9, Akasaka, Minato-ku, Tokyo, 107-0052, Japan
FCC ID	:	2APWD-U5
Model	:	DU2P-BL
Operating frequency range	:	2402 - 2480 MHz
Peak output power (Measured)	:	5.32dBm @2402MHz, 5.23dBm @2440MHz, 5.09dBm @2480MHz
Rated RF output power (Declared by the applicant)	:	0.0039 W
Antenna gain (Declared by the applicant)	:	0.5 dBi

Analysis for portable use

[For FCC]

Standalone SAR test exclusion considerations are specified in KDB 447498 D01 General RF Exposure Guidance v06, Section 4.3.1.

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g SAR test exclusion thresholds are determined by the following:

$$\left[\frac{(\text{max. power of channel, including tuneup tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$$

where

$f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

(When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied)

The result is rounded to one decimal place for comparison

Using max. power of channel as 4 mW (rounded value of rated RF output power), min. separation distance as 5 mm and f as 2.48 (GHz), the result of the above equation is calculated to be 1.2, which is less than the numeric threshold 3.0.

Therefore, the product meets the SAR test exclusion criteria with 0 mm separation distance, and no further evaluation is required.