

RF Exposure / MPE Calculation

No. : LIN-0575 Applicant : Sony Corporation
Type of Equipment : Wi-Fi / Bluetooth Module
Model No. : FL-N01-WBM FCC ID : AK8FLN01WBM

We, Sony Corp., hereby declare that Wireless Module, model: FL-N01-WBM (FCC ID: AK8FLN01WBM) is exempt from RF exposure SAR evaluation as its output power meets the exclusion limits stated in FCC Part 2 §2.1093.

KDB 447498 D01 has the following exclusion for portable devices:

The 1g and 10g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances $\leq 50\text{mm}$ are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]$

$\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 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
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is $\leq 50\text{ mm}$ and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is $< 5\text{ mm}$, a distance of 5 mm is applied to determine SAR test exclusion.

This device has $f = 2.48\text{ GHz}$ and distance = 5 mm (minimum separation distance: 5mm was used in the calculation) and the maximum Average Output Power with tolerance was 7.94 mW (Output power of Theory of Operation)

• Clause 6.3 Low transmission duty factor devices of KDB447498 D01 was applied to this product due to its specification.

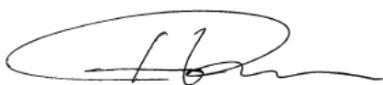
So for this device:

$7.94\text{mW}[\text{maximum Average Output Power with tolerance}] / 5\text{mm}[\text{minimum separation distance}] * \sqrt{2.48} = 2.50$

*This is less than 3.0 so no SAR is required.

Thank you for your attention to this matter

Hideo. Nomura



Sony Global Manufacturing & Operations Corporation