



RF Exposure Estimation

1. Introduction

Product: 200W Fast Charging Power Bank
 Model no.: PB796
 FCC ID: 2AQI5-PB796

2. Limit and Guidelines on Exposure to Electromagnetic Fields

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 Mobile Portable RF Exposure v05r02, no SAR required if power is lower than the flowing threshold:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

- $f(\text{GHz})$ 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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz.

3. Calculation method

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

Conducted Power + tune up tolerance = 3.73dBm+0.2dB= 2.47 mW for BLE

Distance = 5 mm

$f = 2.402$ GHz

$[2.47/5] \cdot \text{SQRT}(2.402) = 0.765$

$0.765 \leq 3.0$

Therefore, excluded from SAR testing.



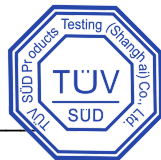
- TÜV SÜD Products Testing (Shanghai) Co., Ltd.
FCC-Registration No.: 820234 Designation Number: CN1183
ISED Company Number: 31668 CAB identifier: CN0101

Reviewed by:

Prepared by:

Tested by:

A handwritten signature in blue ink, appearing to read 'Hui Tong'.



Hui TONG
Review Engineer

Date: Aug. 28, 2026

A handwritten signature in blue ink, appearing to read 'Yong ZHANG'.

Yong ZHANG
Project Engineer

Date: Aug. 28, 2026

A handwritten signature in blue ink, appearing to read 'Mei JIANG'.

Mei JIANG
Test Engineer

Date: Aug. 28, 2026

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