

FCC RF Exposure

EUT Description: Audio system

Model No.: BPB24-G2, BPB24-DS-G2, BPB24-DS-G2-TR, BPB24-G2-OEM, BPB24-DS-G2-OEM, BPB36-G2, BPB36-G2-OEM, BPB24-G2-OEM2, BPB24-DS-G2-OEM2, BPB36-G2-OEM2, OS6-G2, OS8-G2, MT6-G2, MT8-G2

FCC ID: 2A4ZE-BPB24-G2

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 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:
$$\left[\frac{\text{max power of channel, including tune - up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1 - g SAR and ≤ 7.5 for 10 - g extremity SAR,

Where:

Result= $P/D \cdot \sqrt{F}$

F= the RF channel transmit frequency in GHz

P=Maximum turn - up power in mw

D=Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit (mW/cm ²)	SAR Test Exclusion
2441	4.4	4 ± 1	5/3.16	5	0.987	3.0	Pass
Note: PK Output power= conducted power. Conducted power see the test report HK2202220588-E , antenna gain=0dBi							

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.987 which is ≤ 3 , RF Exposure testing is not required.

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

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

Distance=5mm