

FCC RF Exposure

EUT Description: Wireless earphones
 Model No.: K3, K3 Pro, i12, inPods 12
 FCC ID: 2AWEY-K3

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:

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

Where:

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

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

2.4G

		Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit	SAR Test Exclusion
BT EDR	2441	-13.045	-14 ± 1	-13/ 0.05	5	0.015462	3.0	Pass
BLE	2440	-14.106	-15 ± 1	-14/ 0.04	5	0.012496	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2004290877-1E/2E**, antenna gain=-0.58dBi

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 0.015462 which is ≤ 3 , RF Exposure testing is not required.

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

f(GHz) is the RF channel transmit frequency in GHz

Distance=5mm