

# **RF Exposure Evaluation**

**Test Report  
On Behalf of  
Fuzhou Chen Shuo Imp.&Exp.Co.,Ltd.  
For  
BE KIND. AIRPOD  
Model No.: BT5.0**

**FCC ID: 2AWWJ-AIRPODBT5**

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**Date of Report:** Jul. 13, 2020

## 1 General Description of EUT

Product Name:	BE KIND. AIRPOD
Model/Type reference:	BT5.0
Serial Model:	N/A
Trade Mark	N/A
FCC ID	2AWWJ-AIRPODBT5
Hardware Version:	V03
Software Version:	V1.5
Version:	Supported EDR/BDR
Modulation:	GFSK, $\pi/4$ DQPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79CH
Channel separation:	1MHz
Antenna type:	PCB Antenna
Antenna gain:	0 dBi
Power supply:	DC3.7V from battery

Note: 1. For more details, refer to the user's manual of the EUT.

2. The Bluetooth headset has two parts (left and right headphones), but the principle diagram of the left and right parts of the headset, PCB, etc. are the same, so only the left earphone was tested

## 2 RF Exposure Compliance Requirement

### 2.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

#### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 2.2 Limits

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

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

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

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

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

distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

### 3 EUT RF Exposure

GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	0.273	0±1	1	1.259	0.390	3.0
Middle (2441MHz)	0.275	0±1	1	1.259	0.393	
Highest (2480MHz)	0.077	0±1	1	1.259	0.397	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

π/4DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	1.484	1±1	2	1.585	0.491	3.0
Middle (2441MHz)	1.497	1±1	2	1.585	0.495	
Highest (2480MHz)	1.231	1±1	2	1.585	0.499	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: HK2007101725-E