RF Exposure Evaluation
FCC ID: 2AYLE-KS-WM1B

1. Client Information

Applicant	:	Shenzhen Oneking Technologies co., Ltd.
Address	:	F5, Bldg7, YuSheng Industrial Park, Gushu Xixiang 107 National Road Baoan, Shenzhen, China
Manufacturer	:	Shenzhen Oneking Technologies co., Ltd.
Address	:	F5, Bldg7, YuSheng Industrial Park, Gushu Xixiang 107 National Road Baoan, Shenzhen, China

2. General Description of EUT

EUT Name	:	Wireless Expansion Microphone	
Model(s) No.	:	KS-WM1B, KS-WM1S	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is appearance color.	
Sample ID	:	20210310-21-01 & 20210310-21-02	
Product Description	:	Operation Frequency:	2404MHz~2476MHz
		Number of Channel:	19 channels
		Max. Output Power:	8.343dBm
		Antenna Gain:	3.3dBi PCB Antenna
		Modulation Type:	8FSK
		Bit Rate of Transmitter:	5Mbps
Power Rating	:	DC 5V from adapter: Input: 100-240V~50/60Hz 0.3A Output: DC 5V2A Or DC 3.7V by 800mAh Li-ion Battery	
Software Version	:	Wireless_Speaker_Down_2021_01_14	
Hardware Version	:	PinBan_Mic-Wireless-Speaker_V2.5	
Remark	:	The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.	

Note: More test information about the EUT please refer the RF Test Report.

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SAR Test Exclusion Calculations

1. **FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.**
   (1) Clause 4.3: General SAR test reduction and exclusion guidance
   Sub clause 4.31: Standalone SAR test exclusion considerations
   1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

2. **Calculation:**

Test separation: 5mm						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.404	6.323	6±1	7	5.012	1.554	**3.0**
2.440	4.450	4±1	5	3.162	0.988	**3.0**
2.476	8.343	8±1	9	7.943	2.502	**3.0**

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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