

# RF Exposure Evaluation

## FCC ID: 2AYLE-KSUB1GD

### 1. Client Information

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

### 2. General Description of EUT

<b>EUT Name</b>	:	Wireless Audio Dongle	
<b>Model(s) No.</b>	:	KSU-B1G, KSU-G1G, KS-B1G, KS-G1G, KS-GU1G, KS-U1G, KSU-G2G, KS-B2G, KS-G2G, KS-GU2G, KS-U2G	
<b>Model Different</b>	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is appearance color.	
<b>Sample ID</b>	:	20200924-23-01& 20200924-23-02	
<b>Product Description</b>	:	Operation Frequency:	2404MHz~2476MHz
		Number of Channel:	19 channels
		Max. Output Power:	8.901dBm
		Antenna Gain:	6.1dBi Dipole Antenna
		Modulation Type:	8FSK
		Bit Rate of Transmitter:	5Mbps
<b>Power Rating</b>	:	USB Input: DC 5V, 0.5A	
<b>Software Version</b>	:	KS-soft_DFU_V2.0.3.4	
<b>Hardware Version</b>	:	KS-GU1B-MAIN-V1.1	
<b>Remark</b>	:	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.



## 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  $\leq 5$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$  for 1-g SAR

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}] \leq 7.5.0$  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	8.901	$8 \pm 1$	9	7.943	2.462	3.0
2.440	8.009	$8 \pm 1$	9	7.943	2.482	3.0
2.476	7.846	$8 \pm 1$	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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