RF Exposure Evaluation

FCC ID: 2AIGWYU-01

1. Client Information

Applicant	:	Shenzhen Kairuixiang Electronics Co.,Ltd.
Address	:	Room 8029, F8, Saige Square, Huaqiang North, Futian District, Shenzhen City, China
Manufacturer	:	Shenzhen Kairuixiang Electronics Co.,Ltd.
Address	:	Room 8029, F8, Saige Square, Huaqiang North, Futian District, Shenzhen City, China

2. General Description of EUT

EUT Name	:	Anti lost of Bluetooth	
Models No.	:	YU-01, YU-02, YU-03, YU-05, YU-06, YU-07, YU-08, YU-09	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.	
Product Description	:	Operation Frequency: BLE:2402~2480MHz	
		Number of Channel:	BLE:40 Channels
		Max Peak Output Power:	GFSK:-0.816 dBm
		Antenna Gain:	-1 dBi PCB Antenna
		Modulation Type:	1Mbps(GFSK)
Power Supply	:	DC power by Lithium battery.	
Power Rating	:	DC 3V by Lithium battery.	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

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 v05r02.**
   (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					
BLE Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.816	±0.5	0.930	0.288	**3.0**
2.442	-1.384	±0.5	0.816	0.255	**3.0**
2.480	-2.011	±0.5	0.706	0.222	**3.0**

So standalone SAR measurements are not required.