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RF Exposure Evaluation FCC ID:2A7GQ-WH7XXX

1. Client Information

Applicant		Wuxi Weida Intelligent Electronics Co.,Ltd.			
Address	R	3/F, Building A, Sensor High-end Manufacturing Base 789 South Lake Avenue, Wuxi, Jiangsu Province, China			
Manufacturer	: Wuxi Weida Intelligent Electronics Co.,Ltd.				
Address	: 3/F, Building A, Sensor High-end Manufacturing Base 789 South Lake Avenue, Wuxi, Jiangsu Province, China				

2. General Description of EUT

EUT Name		Remote Control				
HVIN/Model(s)		WH-6749_BLE, WH-7XXX				
Model Different		All these models are identical in the same PCB, layout and electrical circuit, The only difference is appearance silkscreen.				
	75	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz			
anBy		Number of Channel:	Bluetooth 5.0 (BLE): 40 channels			
Product		RF Output Power:	BLE: 3.4dBm (Max)			
Description	1	Antenna Gain:	1.92 dBi PCB Antenna			
anus -		Modulation Type:	GFSK			
REAL		Bit Rate of Transmitter:	1/2Mbps			
Power Supply		DC 3.0V by AAA battery*2				
Software Version	:	V0003				
Hardware Version		V1.0				
Remark: The antenna	a g	ain provided by the app	blicant, the adapter and verified for the RF			

conduction test and adapter 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

TOBY

- 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)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR
 - [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[\surd f(GHz)] \leqslant 7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm											
BLE 1Mbps											
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					
2.402	2.67	3±1	4	2.512	0.779	3.0					
2.440	2.92	3±1	4	2.512	0.785	3.0					
2.480	3.38	3±1	4	2.512	0.779	3.0					
BLE 2Mbps											
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					
2.402	2.68	3±1	4	2.512	0.779	3.0					
2.440	2.94	3±1	4	2.512	0.785	3.0					
2.480	3.4	3±1	4	2.512	0.791	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.

-----END OF REPORT-----