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RF Exposure Evaluation FCC ID: 2AZWI-3290LEQI

1. Client Information

Applicant	:	Shenzhen Leqi Network Technology Co., LTD		
Address: Room 101, Building 9 & Room 401, Building 12, Yazhou In Park, Bantian, Longgang, Shenzhen, Guangdong, China		Room 101, Building 9 & Room 401, Building 12, Yazhou Industrial Park, Bantian, Longgang, Shenzhen, Guangdong, China		
Manufacturer	Manufacturer : Shenzhen Leqi Network Technology Co., LTD			
Address : F		Room 101, Building 9 & Room 401, Building 12, Yazhou Industrial Park, Bantian, Longgang, Shenzhen, Guangdong, China		

2. General Description of EUT

EUT Name	:	RM75 RGBWW Video Light			
Model(s)	:	RM75, RM75 Lite, RM75 Pro, RM75 Max, RM75 Plus, RM75 Kit I, RM75 Kit II, RM75 Kit III			
Model Difference	7.13	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.			
Product Description		Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz		
		Number of Channel:	Bluetooth 5.0(BLE): 40 channels		
		RF Output Power:	2.31 dBm (Max)		
		Antenna Gain:	2.3 dBi PCB Antenna		
		Modulation Type:	GFSK		
		Bit Rate of Transmitter:	1Mbps&2Mbps		
Power Rating	1	Input: DC 5V2A, 9V2A DC 3.7V by 4000mAh Rechargeable Li-ion Battery			
Software Version	:	V1			
Hardware Version		V1			
Connecting I/O Port(S)	·	Please refer to the User's Manual			

Remark: The antenna gain provided by the applicant, 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.

TB-RF-074-1. 0

Tel: +86 75526509301 Fax: +86 75526509195



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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)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

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



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2. Calculation:

Test separation: 5mm								
BLE Mode (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	1.17	1±1	2	1.585	0.491	3.0		
2.440	1.67	1±1	2	1.585	0.495	3.0		
2.480	2.22	2±1	3	1.995	0.628	3.0		

Test separation: 5mm								
BLE Mode (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	1.15	1±1	2	1.585	0.491	3.0		
2.440	1.67	1±1	2	1.585	0.495	3.0		
2.480	2.31	2±1	3	1.995	0.628	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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