Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AK5Q-VKL-001-3M

1. Client Information

Applicant: SHENZHEN MSD SCIENCE & TECHNOLOGY CO., LTD

Address : R3009, BLOCK C, SUNNY NEW GANXIAN, GONGMEN S RD, LO

WU, SHENZHEN, CHINA

Manufacturer: SHENZHEN MSD SCIENCE & TECHNOLOGY CO., LTD

Address: R3009, BLOCK C, SUNNY NEW GANXIAN, GONGMEN S RD, LO

WU, SHENZHEN, CHINA

2. General Description of EUT

EUT Name	:	BLE LED STRIP LIGHT				
Models No.	:	VKL-001-3M				
Product Description	0	Operation Frequency:	BLE: 2402~2480MHz			
		Number of Channel:	BLE: 40 Channels			
		Max Peak Output Power:	GFSK: 3.209 dBm			
		Antenna Gain:	2 dBi PCB Antenna			
		Modulation Type:	1Mbps(GFSK)			
Power Supply	:	DC Voltage Supply From The AC Adapter				
Power Rating	:	AC Input: 100~240V 50/60Hz				
Connecting I/O Port(S)	Ġ	Please refer to the User's Manual				

Note:

More test information about the EUT please refer to 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)]*[$\sqrt{f_{(GHz)}}$] \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									
Bluetooth Mode (GFSK)									
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	Threshol d Value			
2.402	2.601	3±0.5	3.5	2.239	0.694	3.0			
2.441	3.158	3±0.5	3.5	2.239	0.700	3.0			
2.480	3.209	3±0.5	3.5	2.239	0.705	3.0			

So standalone SAR measurements are not required.

----END OF REPORT----