

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2ADUC-TW310

1. Client Information

Applicant		TSKY CO., LTD
Address	-	21F2, No.8, Ziqiang S. Rd., Zhubei City, Hsinchu County 302, Taiwan
Manufacturer	:	TSKY CO., LTD
Address	:	21F2, No.8, Ziqiang S. Rd., Zhubei City, Hsinchu County 302, Taiwan

2. General Description of EUT

EUT Name		TW310				
Models No.		TW310HR, TW310				
Model Different	0	All these models are the same PCB, layout and electrical circuit, the only different is model.				
Product Description	1	Operation Frequency:	Bluetooth V4.0: 2402MHz~2480MHz			
	:	RF Output Power:	BLE:-4.120dBm (Max)			
		Antenna Gain:	0dBi Ceramic Antenna			
Power Supply	:	DC Voltage Supply from USB Cable. DC Voltage supplied by Li-ion battery.				
Power Rating		Input: DC 5V0.5A by USB Cable. DC 3.7V by 250mAh Li-ion battery.				
Software Version	:	V1.0				
Hardware Version	:	V1.0				
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 v06.
 - (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations

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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)]*[$\sqrt{f_{(GHz)}}$] \leqslant 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 (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value			
2.402	-4.120	-4±1	-3	0.501	0.155	3.0			
2.442	-4.766	-4±1	-3	0.501	0.157	3.0			
2.480	-4.505	-4±1	-3	0.501	0.158	3.0			

So standalone SAR measurements are not required.

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