Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2ALLD-SB1017HC

1. Client Information

Applicant	:	Synergy Technologies Limited		
Address	•	Units 18D-18E, Hanking Centre, 23 Deng Liang Road, Nanshan District, Shenzhen, Guangdong 518054, China		
Manufacturer	:	Synergy Technologies Limited		
Address	Ŀ	Units 18D-18E, Hanking Centre, 23 Deng Liang Road, Nanshan District, Shenzhen, Guangdong 518054, China		

2. General Description of EUT

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EUT Name	:	Smart Bracelet			
Models No.		SB1017HC, SB1017H, NOXUO			
Model Difference		All these models are identical in the same PCB, layout and electrical circuit, the only difference is sales to different customers.			
Product Description	:	Operation Frequency:	Bluetooth 4.0(BT): 2402MHz~2480MHz		
		RF Output Power:	BLE:-5.101dBm		
		Antenna Gain:	2dBi Ceramic Antenna		
Power Supply	ė	DC Voltage Supply from USB Port. DC Voltage supplied by Li-ion battery.			
Power Rating	1	DC 5.0V by USB cable DC 3.7V by 900mAh Li-ion battery			
Software Version	Ñ	N/A			
Hardware Version		N/A			
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
 - 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 (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	-5.420	-5±1	-4	0.398	0.123	3.0			
2.442	-5.101	-5±1	-4	0.398	0.124	3.0			
2.480	-5.296	-5±1	-4	0.398	0.125	3.0			

Test separation: 5mm					
The worst RF Exposure Evaluation					
Worst Calculation Value	Threshold Value				
0.125	3.0				

The worst RF Exposure Evaluation is 0.125 / cm2 < limit 3.0, So standalone SAR measurements are not required.

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