Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2ACVA-BT02B150

1. Client Information

Applicant: HUIZHOU GAOSHENGDA TECHNOLOGY CO., LTD

Address : HUA YU RD., NO.75, ZHONGKAI HIGH-TECH DEVELOPMENT

AREA, HUIZHOU, CHINA

Manufacturer : HUIZHOU GAOSHENGDA TECHNOLOGY CO., LTD

Address: HUA YU RD., NO.75, ZHONGKAI HIGH-TECH DEVELOPMENT

AREA, HUIZHOU, CHINA

2. General Description of EUT

EUT Name	:	Bluetooth Module					
Models No.	:	BT02B150					
Model Difference	:	N/A					
		Operation Frequency: Bluetooth with BLE: 2402MHz~2480MHz					
Product	:	Number of Channel:	Bluetooth:79 Channels Bluetooth (BLE): 40 Channels				
Description		Max Peak Output Power:	Bluetooth: 1.915 dBm BLE(GFSK): 3.305 dBm				
		Antenna Gain:	3 dBi PIFA Antenna				
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps) BLE (GFSK)				
Power Supply	:	DC Voltage supplied from PC System.					
Power Rating	:	DC 5V by USB adapter from PC System.					
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 v05r02.

- (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≤50 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:

		Blue	tooth Mode (GF	SK)					
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value			
2.402	-0.87	3	1.633	5	0.506	3.0			
2.441	-1.604	3	1.379	5	0.431	3.0			
2.480	-2.587	3	5.728	5	0.346	3.0			
Bluetooth Mode (8-DPSK)									
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value			
2.402	1.915	3	3.101	5	0.961	3.0			
2.441	1.116	3	4.699	5	0.806	3.0			
2.480	-0.044	3	4.699	5	0.622	3.0			
		Blue	etooth Mode (BL	E)					
Frequency (GHz)	Power		TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value			
2.402	3.305	3	4.271	5	1.324	3.0			
2.442	2.550	3	2.596	5	0.811	3.0			
2.480	1.143	3	2.596	5	0.818	3.0			

So standalone SAR measurements are not required.