Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2ACUS-IT200

1. Client Information

Applicant: Shenzhen ShengHeDa Electronic Technology Co., Ltd

Address : 2nd Floor, Bada Industrial, Heping, Fuyong, Baoan District,

Shenzhen, Guangdong, China

Manufacturer : Heritek Electronic Manufactory Co., Limited

Address: 2nd Floor, 11th Building, Huafeng Industrial Zone, Xiaweiyuan,

Gushu Village, Xixiang Town, Bao'an District, Shenzhen City,

China

2. General Description of EUT

EUT Name	:	Bluetooth Speaker							
Models No.	:	IT200							
Model	:	N/A							
Difference									
		Operation Frequency: Bluetooth:2402~2480MHz							
Product Description	:	Number of Channel:	Bluetooth:79 Channels						
		Max Peak Output Power:	GFSK:-2.043 dBm						
		Antenna Gain:	0 dBi PIFA Antenna						
		Modulation Type:	GFSK 1Mbps(1 Mbps)						
			π /4-DQPSK(2 Mbps)						
			8-DPSK(3 Mbps)						
Power Supply	:								
		DC power by Li-ion Battery	/						
Power Rating	: DC 5.0V by USB cable.								
		DC 3.7V Li-ion Battery							
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:

Bluetooth Mode (GFSK)										
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value				
2.402	-2.043	0	0.625	5	0.194	3.0				
2.441	-2.275	0	0.592	5	0.185	3.0				
2.480	-2.971	0	0.505	5	0.159	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	-2.064	0	0.622	5	0.193	3.0				
2.441	-2.275	0	0.592	5	0.185	3.0				
2.480	-3.049	0	0.496	5	0.156	3.0				

So standalone SAR measurements are not required.