Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2ABHA-RM89855

1. Client Information

Applicant: NINGBO CSTAR IMP&EXP CO., LTD

Address : 8 Floor, Hengyuan Building, No.568 Tiantong South Rd, Yinzhou,

Ningbo, China

Manufacturer : SHENZHEN HERITEK ELECTRONIC MANUFACTORY CO.,

LIMITED

Address : 2ND FLOOR, 11 BUILDING, HUAFENG INDUSTRIAL ZONE,

XIAWEIYUAN, GUSHU VILLAGE, XIXIANG TOWN, BAOAN

DISTRICT, SHENZHEN, China

2. General Description of EUT

EUT Name	:	Executive bluetooth speaker				
Models No.	:	RM89855				
Model Difference	:	N/A.				
		Operation Frequency: Bluetooth:2402~2480MHz				
Product Description	:	Number of Channel:	Bluetooth:79 Channels			
		Max Peak Output Power:	GFSK:-3.088 dBm (Conducted Power)			
		Antenna Gain:	0 dBi PIFA Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps)			
Power Supply	:	DC Voltage supplied from Host System by USB cable 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	-5.485	0	0.283	5	0.087	3.0				
2.441	-3.088	0	0.491	5	0.154	3.0				
2.480	-4.264	0	0.375	5	0.118	3.0				

So standalone SAR measurements are not required.