## Shenzhen Toby Technology Co., Ltd.

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# RF Exposure Evaluation FCC ID: 2ACUS-2756

## 1. Client Information

: Shenzhen ShengHeDa Electronic Technology Co., Ltd **Applicant** 

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

Shenzhen, Guangdong, China

Manufacturer Shenzhen ShengHeDa Electronic Technology Co., Ltd

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

Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name	:	Bluetooth Speaker					
Models No.	:	2756					
Model Difference	:	N/A					
		Operation Frequency: Bluetooth:2402~2480MHz					
Product Description	:	Number of Channel:	Bluetooth:79 Channels				
		Max Peak Output Power:	GFSK: 0.238 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 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.

TB-RF-074-1. 0

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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	0.238	0	1.056	5	0.327	3.0				
2.441	0.019	0	1.004	5	0.314	3.0				
2.480	-0.466	0	0.898	5	0.283	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	-0.097	0	0.978	5	0.303	3.0				
2.441	-0.342	0	0.924	5	0.289	3.0				
2.480	-0.587	0	0.874	5	0.275	3.0				

So standalone SAR measurements are not required.