

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AVZT-Q8

1. Client Information

Applicant	Yin gege Musical Instrument Co., Ltd.				
Address	: B501, Tingwei 33, Chuanggu 33, Huale Road, Henggang Street, Longgang District, Shenzhen, Guangdong, China				
Manufacturer	: Dongguan Baorui Silicone Products Co., Ltd.				
Address	: No.16 Building, Shundi Industrial Zone, Dongfeng Management Zone, Humen Town, Dongguan City, Guangdong Province, China				

2. General Description of EUT

EUT Name	:	Hand roll piano				
Models No.	:	Q8,Q1,Q2,Q3,Q5,Q6,Q7,Q9,Q10,Q11,S1,S2,S3,S5,S6				
Model Difference	:	All these models are in the same PCB, layout and electrical circuit, the only difference is color.				
Product Description	9	Operation Frequency:	Bluetooth V4.2: 2402~2480 MHz			
		Antenna Gain:	0dBi PCB Antenna			
Power Supply		DC Voltage Supply from AC/DC Adapter DC Voltage supplied by Li-ion battery.				
Power Rating		Input: DC 5V DC 3.7V 2000mAh by Li-ion battery				
Software Version	-	N/A				
Hardware Version		N/A				
Connecting I/OPort(S)		Please refer to the User's Manual				
Remark	6	The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.				

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

TOBY

- 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)]*[$\sqrt{f_{(GHz)}}$] \leqslant 7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm										
Bluetooth 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	Threshol d Value				
2.402	-1.292	-1±1	0	1.00	0.30997	3.0				
2.441	-0.913	-1±1	0	1.00	0.31247	3.0				
2.480	-1.205	-1±1	0	1.00	0.31496	3.0				

So the worst RF Exposure Evaluation is calculated as 0.315< limit 3.0. The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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