Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE164748

1 of 3 Page:

RF Exposure Evaluation FCC ID: 2ASTK-S10

1. Client Information

Applicant	1	Shenzhen Kangmingrui Technology Co., Ltd.		
Address	•	F5, Building 2, Shanghe Nanchang Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, China		
Manufacturer	:	Shenzhen Kangmingrui Technology Co., Ltd.		
Address	ddress : F5, Building 2, Shanghe Nanchang Industrial Park, Gushu, Xixiang Baoan District, Shenzhen, China			

General Description of FUT

Z. General i	ノロ	Scription of Eur			
EUT Name		Mini Speaker			
Models No.		S10, C6, Q50, 053040			
Model Difference		All these models are the same PCB, layout and electrical circuit, the only difference is appearance.			
Product Description	:	Operation Frequency:	Bluetooth 5.0(BT): 2402MHz~2480MHz		
		RF Output Power:	GFSK:4.670dBm π /4-DQPSK:5.392dBm		
		Antenna Gain:	-0.58dBi PCB Antenna		
Power Supply	:	DC Voltage Supply from Adapter DC Voltage supplied by Li-ion battery.			
Power Rating	:	Iutput: DC 5.0V 0.35A by adapter DC 3.7V by 350mAh Li-ion battery			
Software Version		V1			
Hardware Version		V2			
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.

Tel: +86 75526509301



Report No.: TB-MPE164748

Page: 2 of 3

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

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



Report No.: TB-MPE164748

Page: 3 of 3

2. Calculation:

rest separ	ration: 5mm	6.41			1	1010
		В	luetooth 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	Threshold Value
2.402	4.646	4±1	5	3.162	0.980	3.0
2.441	4.670	4±1	5	3.162	0.988	3.0
2.480	4.167	4±1	5	3.162	0.996	3.0
1		Blue	tooth Mode (π/4-DQPS	K)	600	112
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	Threshold Value
2.402	5.379	5±1	6	3.981	1.234	3.0
2.441	5.392	5±1	6	3.981	1.244	3.0
2.480	4.957	5±1	6	3.981	1.254	3.0

Test separation: 5mm							
The worst RF Exposure Evaluation							
Worst Calculation Value	Total Calculation	Threshold Value					
Bluetooth Mode	Value						
4.054	4.054						
1.254	1.254	3.0					

The worst RF Exposure Evaluation is calculated as 1.254 / cm2 < limit 3.0, So standalone SAR measurements are not required.

----END OF REPORT----