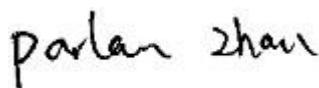


1 Cover Page**RF MPE REPORT**

Application No.: SHEM1912019578CR
FCC ID: 2AVGM-PT94248
Applicant: Ningbo Pinbo Plastic Manufactory Co., Ltd.
Address of Applicant: 6F, No. 17 Building, 639 Duantang East Rd, Ningbo, 315012, China
Manufacturer: Ningbo Pinbo Plastic Manufactory Co., Ltd.
Address of Manufacturer: 6F, No. 17 Building, 639 Duantang East Rd, Ningbo, 315012, China
Equipment Under Test (EUT):
EUT Name: Portable Mini Bluetooth Speaker
Model No.: PT94248
Add Model No.: PT94537, T94535, T94650, PT94538, T94536, PT94534, PT94533, PT94532, PT94529, PT94528, PT94526, PT94524, PT92992
Standard(s) : FCC Rules 47 CFR §2.1093
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2019-12-10
Date of Test: 2019-12-19 to 2019-12-23
Date of Issue: 2019-12-24

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Parlam Zhan
E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com



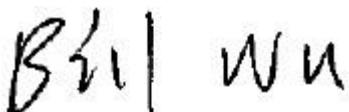
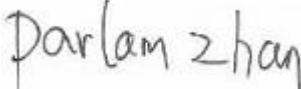
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. NO.588 West Jindu Road, Songjiang District, Shanghai, China 201612

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Revision Record			
Version	Description	Date	Remark
00	Original	2019-12-24	/

Authorized for issue by:			
	 Bill Wu	Bill Wu / Project Engineer	
	 Parlam Zhan	Parlam Zhan /Reviewer	

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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 3.7V 300mAh Rechargeable battery
Test voltage:	DC 3.7V

3.2 Technical Specifications

Antenna Gain	-6dBi
Antenna Type	PCB Antenna
Channel Spacing	1MHz
Modulation Type	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels	79
Operation Frequency	2402MHz to 2480MHz
Spectrum Spread Technology	Frequency Hopping Spread Spectrum(FHSS)

3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- NVLAP (Certificate No. 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

- FCC –Designation Number: CN5033**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

- Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

IC Registration No.: 8617A-1. CAB Identifier: CN0020.

- VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

$[(\text{max power of channel})/(\text{min test separation distance})] * [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is $<$ 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

For 2.4G band device, the limit of worse case is

$$P_{\text{max}} \leq 3 * D_{\text{min}} / \sqrt{f} = 3 * 5 / \sqrt{2.480} = 9.525 \text{ mW}$$

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM191201957801

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
GFSK	2402	-0.61	0.87
	2441	-0.59	0.87
	2480	-1.39	0.73
$\pi/4$ DQPSK	2402	0.19	1.04
	2441	0.24	1.06
	2480	-0.59	0.87
8DPSK	2402	0.84	1.21
	2441	0.89	1.23
	2480	0.04	1.01

5.2 RF Exposure Calculation

The Max Conducted Peak Output Power is 1.23mW. The best case gain of the antenna is -6dBi. -6dBi logarithmic terms convert to numeric result is nearly 0.251

According to the formula. calculate the EIRP test result:

$$\text{EIRP} = P \times G = 0.251 \text{ mW} \times 1.23 = 0.31 \text{ mW} < 9.525 \text{ mW}$$

So the SAR report is not required.

--End of the Report--