No. 588 West Jindu Road, Songjiang District, Shanghai, China

Telephone: +86 (0) 21 61915666 Fax: +86 (0) 21 61915678 Report No.: SHEM120600074005

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FCC MPE REPORT

Application No.: SHEM1206000740RF

Address of Applicant: Hansong(Nanjing) Technology Ltd.

Equipment Under Test (EUT):

NOTE: The following sample(s) submitted was/were identified on behalf of the client as

EUT Name: Wireless audio and amplifier system

Brand Name: Sound Tube
Model No.: WLL-TX1

FCC ID: XCO-HSWLLT 7756A-HSWLLT

Standards: FCC Rules 47 CFR §2.1091 & FCC OET Bulletin 65 supplement C

Date of Receipt: May. 27, 2012

Date of Test: July. 28, 2012

Date of Issue: July. 31, 2012

Test Result : PASS*

* In the configuration tested, the EUT complied with the standards specified above.

E&E Section Head

SGS-CSTC(Shanghai) Co., Ltd.

E&E EMC Engineer

Zenger Zhang

SGS-CSTC(Shanghai) Co., Ltd.

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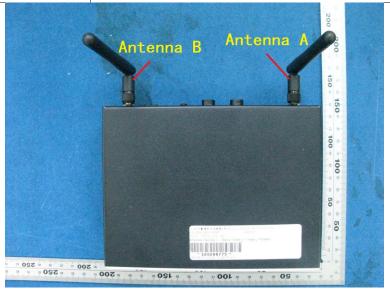
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3	General Information					
3.1	Client Info	ormation				
	Applicant :	Hansong(Nanjing) Technology Ltd.				
	Applicant Address:	8 th Kangping Road, Jiangning Economy and Technology Development Zone,Nanjing,201106,China				
	Manufacturer:	Hansong(Nanjing) Technology Ltd.				
	Manufacturer Address:	8 th Kangping Road, Jiangning Economy and Technology Development Zone,Nanjing,201106,China				

3.2 Details of E.U.T.

Technical Specifications:

reciffical opecifications.				
EUT Name:	Wireless audio and amplifier system Sound Tube			
Brand Name:				
Model No:	WLL-TX1			
Support Frequency Band:	2412-2464MHz / 3 Channels Channel of Tranmitter Frequency(MHz)			
	Lowest	2412		
	Middle	2438		
	Highest	2464		
Modulation Type:	QPSK			
Antenna Type:	Double PIFA antenna			
	Remark: the two antennas is rantennas define like below figure.	not working at the same time. The		
Antenna Gain:	2.0dBi			



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Power Supply:

Tonor Cuppiy:				
Rated Input:	5VDC 1.2A			
	Manufacturer:	Click		
	Model No.:	CPS008050120U		
Adaptor	Rated Input:	AC 100V-240V 50-60Hz		
Adapter:	Rated Output:	5.0VDC 1.2A		
	Cable length:	AC port:	2 wires	
		DC port:	150cm	

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3.3 Test Location

All tests were performed at SGS E&E EMC lab

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

Tel: +86 21 6191 5666 Fax: +86 21 6191 5655

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. Date of expiry: 2014-07-26.

FCC – Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

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-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

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4 Test Standards and Limits

The Equipment under Test (EUT) has been tested at SGS's (own or subcontracted) laboratories.

The following table summarizes the specific reference documents such as harmonized standards or test specifications which were used for testing as SGS's (own or subcontracted) laboratories.

Identity	Document Title	Version
	Evaluating Compliance with FCC Guidelines for	
FCC OET Bulletin 65 supplement C	Human Exposure to Radiofrequency	2001
	Electromagnetic Fields	2001

In the configuration tested, the EUT complied with the standards specified above.

FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time $ E ^2$, $ H ^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f*)*	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz *Plane-wave equivalent power density



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Summary of Results

For antenna A

Frequency Band	Limit (mW/cm²)	Result (mW/cm²)	Verdict
2412-2464MHz	1.0	0.034	Pass

For antenna B

Frequency Band	Limit (mW/cm²)	Result (mW/cm²)	Verdict	
2412-2464MHz	1.0	0.029	Pass	

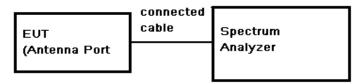
5 Measurement and Calculation

5.1 Maximum transmit power

Test Date: July 28, 2012

EUT Operation:: Test in fixing frequency operating mode at lowest, middle and highest frequency.

Test Configuration:



Test Results

For Antenna A

СН	Frequency (MHz)	Reading Peak Power (dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Output Peak Power (mW)	Peak Power Limit (dBm)	Result
LOW	2412	19.79	0.5	20.29	106.91	30	PASS
MID	2438	18.75	0.5	19.25	84.14	30	PASS
HIGH	2464	18.14	0.5	18.64	73.11	30	PASS

For Antenna B

CIIIA D		Reading	Cable	Output	Output	Peak	
СН	Frequency (MHz)	Peak Power (dBm)	Loss (dB)	Peak Power (dBm)	Peak Power (mW)	Power Limit (dBm)	Result
LOW	2412	19.17	0.5	19.67	92.68	30	PASS
MID	2438	18.93	0.5	19.43	87.70	30	PASS
HIGH	2464	18.27	0.5	18.77	75.34	30	PASS

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5.2 SAR Calculation

For Antenna A:

Test Results: MPE Limit Calculation: the EUT's operating frequencies 2412MHz to 2464MHz; the highest power is Low channel(2412MHz). The Measured maximum radiated power is 20.29 dBm(106.91mW).with maximum peak gain is 2.0dBi. Duty factor is 100%

Equation from page 18 of OET 65, Edition 97-01

 $S = PG^*$ Duty factor $/ 4\pi R^2$

P = Power Input to antenna (106.91mWatts)

G =Antenna Gain (1.585numeric)

R = distance to the center of radiation of antenna (in meter) = 20cm

 $S = (106.91 *1.585*1)/(4\pi * 20^2) = 0.034 \text{mW/cm}^2$

For Antenna B:

Test Results: MPE Limit Calculation: the EUT's operating frequencies 2412MHz to 2464MHz; the highest power is Low channel(2412MHz). The Measured maximum radiated power is 19.67 dBm(92.68mW).with maximum peak gain is 2.0dBi. Duty factor is 100%

Equation from page 18 of OET 65, Edition 97-01

 $S = PG^*$ Duty factor $/ 4\pi R^2$

P = Power Input to antenna (92.68mWatts)

G = Antenna Gain (1.585 numeric)

R = distance to the center of radiation of antenna (in meter) = 20cm

 $S = (92.68 *1.585*1)/ (4\pi *20^2) = 0.029 \text{mW/cm}^2$

MPE limit = 1.0mW/cm²

Note:

dBm

1) P (Watts)= 10^{-10} / 1000

2) G (Antenna gain in numeric) = 10[^] (Antenna gain in dBi /10)

THE END OF REPORT