

## Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202204-0402-232

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# FCC Part 15B Test Report

FCC ID:2AXQX-4001360

Report No. TBR-C-202204-0402-232

**Applicant** Marpac, LLC

**Equipment Under Test (EUT)** 

**EUT Name** Hushh Dreamseeker, Hushh+

Model(s) 4001360

Series Model No.

**Brand Name** : Yogasleep

202204-0402-01-1#&202204-0402-01-2# Sample ID

**Receipt Date** 2022-07-11

**Test Date** 2022-07-11 to 2022-07-28

**Issue Date** 2022-08-01

FCC 47 CFR Part 15 Subpart B **Standards** 

**Conclusions PASS** 

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

The EUT technically complies with the FCC requirements

**Test/Witness Engineer** 

: Lux SV : Luy Lai. **Engineer Supervisor** 

**Engineer Manager** 

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-3. 0



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## **Revision History**

Report No.	Version	Description	Issued Date
TBR-C-202204-0402-232	Rev.01	Initial issue of report	2022-08-01
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### 1. General Information

#### 1.1 Client Information

Applicant		Marpac, LLC
Address	:	2015 Capital Drive, Wilmington, NC 28405
Manufacturer	).	Shen zhen Hi-FiD Electronics Tech Co., Ltd
Address		4F~ 5F B7 & 3F B17, Hengfeng Industrial Town, Zhoushi Road, Bao'an District, Shenzhen City, China. 518126.

### 1.2 General Description of EUT (Equipment Under Test)

<b>EUT Name</b>	•	Hushh Dreamseeker, Hushh+
Model(s)		4001360
Model Difference	-	
Brand Name		Yogasleep
Fx	:	2.4G
Power Supply	1	Input: 5V, 1A
		DC 3.7V by 1800mAh Rechargeable Li-ion battery
Equipment	e:	☐ Class A ⊠ Class B

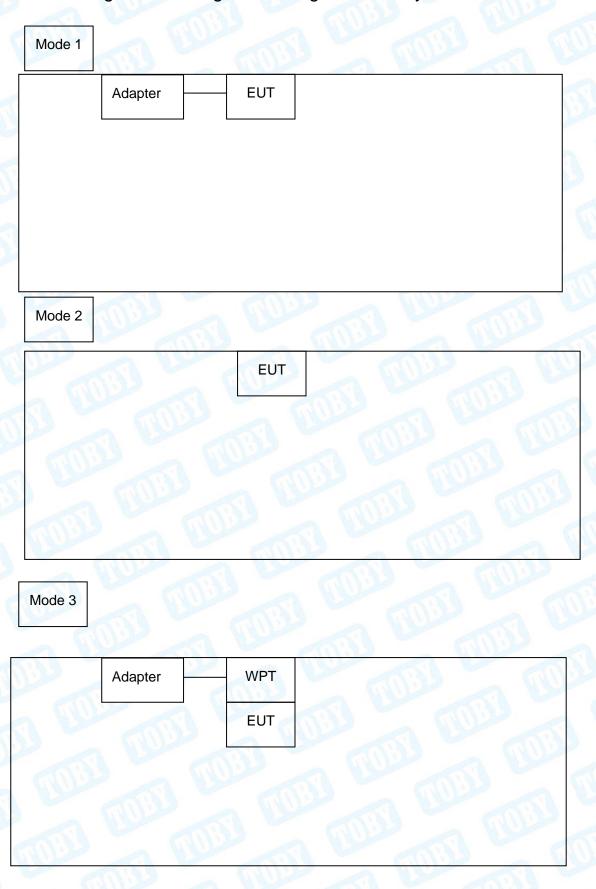
**Class A Equipment:** the Equipment is not intended primarily for use in a residential environment.

Class B Equipment: the Equipment is intended primarily for use in a residential environment.  $\mathbf{F}\mathbf{x}$  is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.



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### 1.3 Block Diagram Showing The Configuration of System Tested





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### 1.4 Description of Support Units

Name	Model	S/N	Manufacturer	Used "√'
Adapter		COMP.	HUAWEI	<b>√</b>
	Ca	able Information		
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	Yes	NO	1.05M	Accessory



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### 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

Pretest Mode	Description
Mode 1	charging Mode (Adapter)
Mode 2	charging Mode (WPT)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For Conducted Test			
Final Test Mode	Description		
Mode 1	charging Mode (Adapter)		
	For Radiated Test		
Final Test Mode	Description		
Mode 1	charging Mode (Adapter)		
Mode 2	charging Mode (WPT)		



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#### 1.6 Test standards

The objective is to determine compliance with FCC Part 15, Subpart B, and section 15.107, 15.109 rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

#### 1.7 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong,, China. At the time of testing, the following bodies accredited the Laboratory:

#### CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

#### A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01. FCC Accredited Test Site Number: 854351.

#### IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A.



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### 1.8 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

1 45 45			
Test	Parameters	Expanded Uncertainty (U <sub>Lab</sub> )	Expanded Uncertainty (U <sub>Cispr</sub> )
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	$\pm$ 3.50 dB $\pm$ 3.10 dB	$\pm 4.0~\mathrm{dB}$ $\pm 3.6~\mathrm{dB}$
Radiated Emission	Level Accuracy: Above 1000MHz	$\pm$ 4.50 dB	N/A
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.40 dB	±5.2 dB

### 2. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE

### 3. Test Summary

Test Items	Test Requirement	Test Method	Result
Conducted Emission	FCC 47 CFR Part 15 Section 15.107	ANSI C63.4-2014	Pass
Radiated Emission	FCC 47 CFR Part 15 Section 15.109	ANSI C63.4-2014	Pass



## 4. Test Equipment Used

Conducted E	Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date	
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 23, 2022	Jun. 22, 2023	
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jun. 23, 2022	Jun. 22, 2023	
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 22, 2022	Jun. 21, 2023	
LISN	Rohde & Schwarz	ENV216	101131	Jun. 22, 2022	Jun. 21, 2023	
Radiation En	nission Test (A	A Site)				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date	
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 23, 2022	Jun. 22, 2023	
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jun. 23, 2022	Jun. 22, 2023	
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Feb. 27, 2022	Feb.26, 2024	
Horn Antenna	ETS-LINDGREN	3117	00143207	Feb. 26, 2022	Feb.25, 2024	
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 26, 2022	Feb.25, 2024	
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Feb. 26, 2022	Feb.25, 2024	
Pre-amplifier	SONOMA	310N	185903	Feb. 26, 2022	Feb.25, 2023	
Pre-amplifier	HP	8449B	3008A00849	Feb. 26, 2022	Feb.25, 2023	
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Sep. 03, 2021	Sep. 02, 2022	
Radiation En	nission Test (E	3 Site)				
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 03, 2021	Sep. 02, 2022	
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 23, 2022	Jun. 22, 2023	
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 26, 2022	Feb.25, 2023	
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Dec. 05, 2021	Dec. 04, 2023	
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Feb. 26, 2022	Feb.25, 2024	
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Jun. 26, 2022	Jun.25, 2024	
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 26, 2022	Jun.25, 2024	
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Sep. 03, 2021	Sep. 02, 2022	
HF Amplifier	Tonscend	TAP051845	AP21C806141	Sep. 03, 2021	Sep. 02, 2022	
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Sep. 03, 2021	Sep. 02, 2022	



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### 5. Label Requirements & Statement Requirements

#### **Label Requirements**

Class B digital device subject to certification by the FCC shall carry a warning label which includes the following statement:

#### \* \* \* W A R N I N G \* \* \*

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Class A

#### **Statement Requirements**

The operator's manual for a Class A digital device shall contain the following statements or their equivalent:

#### \* \* \* W A R N I N G \* \* \*

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment This equipment generates, uses, and can radiate radio frequency energy and, if not installed and uses in accordance with the instruction manual, may cause harmful interference to radio communications Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equivalent.

\* \* \* \* \* \* \* \* \*

If the EUT was tested with special shielded cables the operator's manual for such product shall also contain the following statements or their equivalent:

Shielded interface cables and/or AC power cord, if any, must be used in order to comply with the emission limits.



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### 6. Conducted Emission Test

#### 6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.107

#### 6.1.2. Test Limit

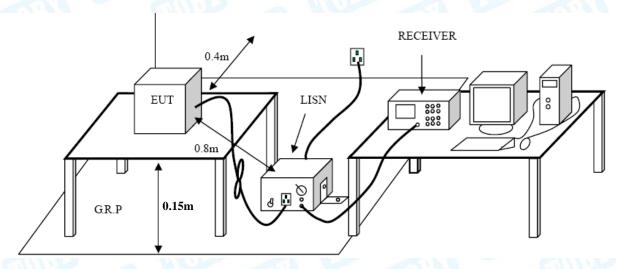
### Conducted Emission Test Limit (Class A)

Frequency	Maximum RF Line	e Voltage (dBμV)
(MHz)	Quasi-peak Level	Average Level
0.15~0.50	79	66
0.50~30	73	60

#### **Conducted Emission Test Limit (Class B)**

Frequency	Maximum RF Line Voltage (dBμV)			
(MHz)	Quasi-peak Level	Average Level		
0.15~0.5	66 ~ 56 *	56 ~ 46 *		
0.50~5	56	46		
5~30	60	50		

### 6.2 Test Setup





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#### 6.3 Test Procedure

The EUT was placed 0.15 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

The cables shall be insulated (by up to 15 cm) from the horizontal ground reference plane, and shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

6.4 Deviation From Test Standard
No deviation

#### 6.5 Test Data

Please refer to the Attachment A.



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### 7. Radiated Emission Test

### 7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.109

### 7.1.2 Test Limit

Frequency MHz	Field Strengths Limits dB(μV/m)
30 ~ 88	49.0
88 ~ 216	53.5
216 ~ 960	56.4
Above 960	59.5
Radiated Emissic Frequency MHz	on Test Limit (Class B)  Field Strengths Limits  dB(μV/m)
30 ~ 88	40.0
88 ~ 216	43.5
216 ~ 960	46.0

Francisco (MILA)	Class A Radiated Limit (dBµV/m)- Distance of 3 metres			
Frequency (MHz)	Linear Average Detector	Peak Detector		
>1000	59.5	79.5		
F	Class B Radiated Limit (dBµV/	m)-Distance of 3 metres		
Frequency (MHz)	Linear Average Detector	Peak Detector		
>1000	54	74		
Note:	THE PARTY OF THE P			

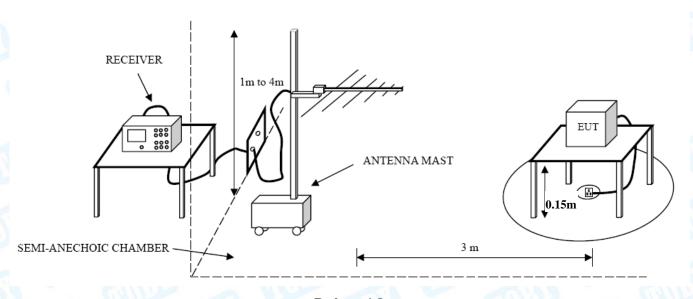


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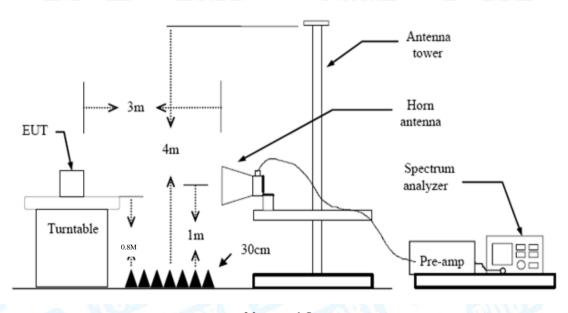
Highest Frequency Generated	Upper Frequency of
or Used in Device	Radiated Measurement
Below 1.705 MHz	No radiated testing required
1.705 MHz – 108 MHz	1 GHz
108 MHz – 500 MHz	2 GHz
500 MHz – 1 GHz	5 GHz
Above 1 GHz	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is
	lower.



7.2 Test Setup



Below 1G



**Above 1G** 



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#### 7.3 Test Procedure

The EUT was placed on the top of a rotating table which is 0.8 meters above the ground. EUT is set 3.0 meters away from the receiving antenna that mounted on a antenna tower. The table was rotated 360 degrees to determine the position of the highest radiation, the antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

Measurements shall be made with a quasi-peak measuring receiver in the frequency range 30MHz to 1000MHz. If the Peak Mode measured value compliance with and lower than quasi-peak mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. Measurements shall be made with a Peak and AVG measuring receiver in the frequency range Above 1000MHz.

# 7.4 Deviation From Test Standard No deviation

#### 7.5 Test Data

Please refer to the Attachment B.



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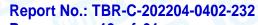
### 8. Photographs - Constructional Details

### **Photo 1 Appearance of EUT**



**Photo 2 Appearance of EUT** 







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**Photo 3 Appearance of EUT** 



**Photo 4 Appearance of EUT** 







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**Photo 5 Appearance of EUT** 



**Photo 6 Appearance of EUT** 

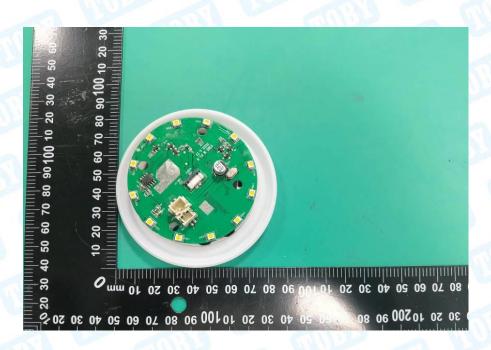






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**Photo 7 Internal of EUT** 



**Photo 8 Appearance of PCB** 

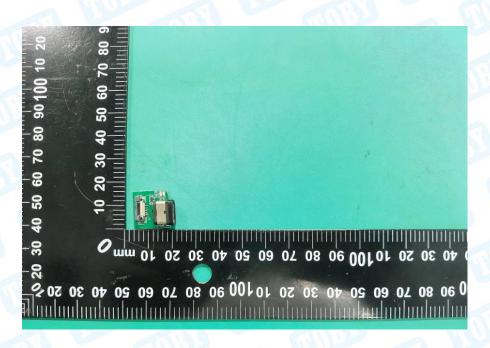






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**Photo 9 Appearance of PCB** 



**Photo 10 Appearance of PCB** 





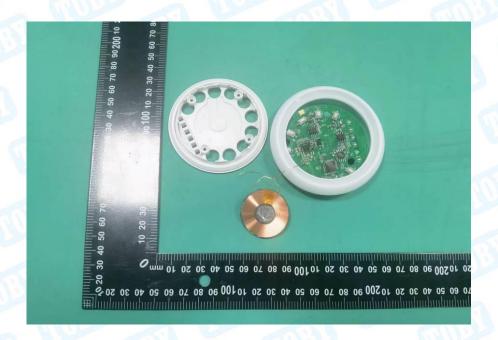


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**Photo 11 Battery parameters** 



**Photo 12 Appearance of PCB** 



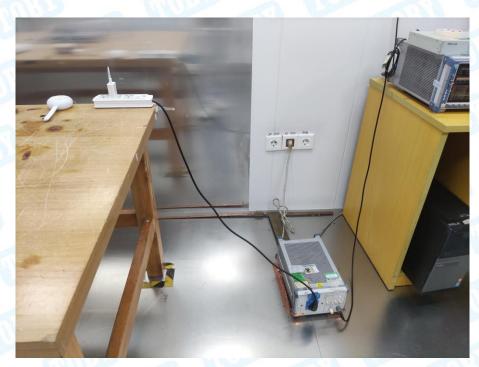




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## 9. Photographs - Test Setup

### **Conducted Emission Test Setup**



Radiated Emission Test Setup-Below 1GHz





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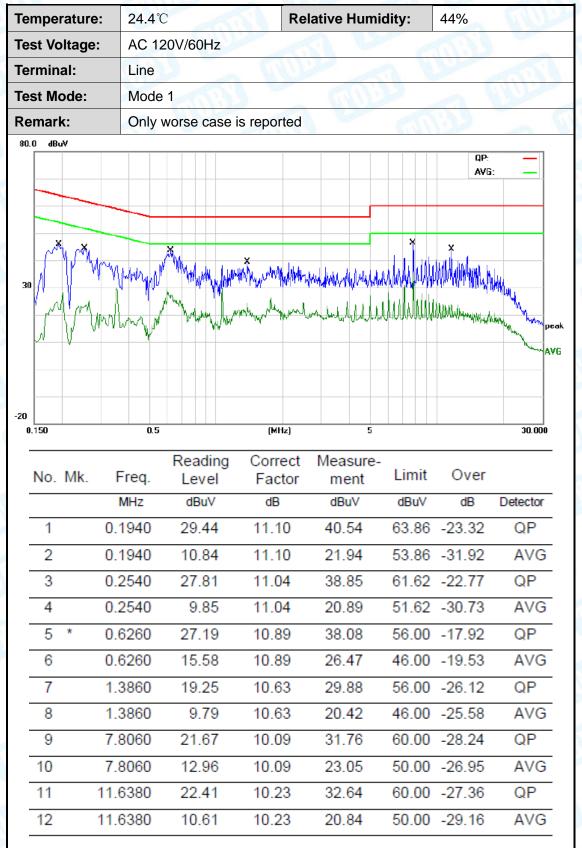
### Radiated Emission Test Setup(Below 1G)





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### **Attachment A--Conducted Emission Test Data**



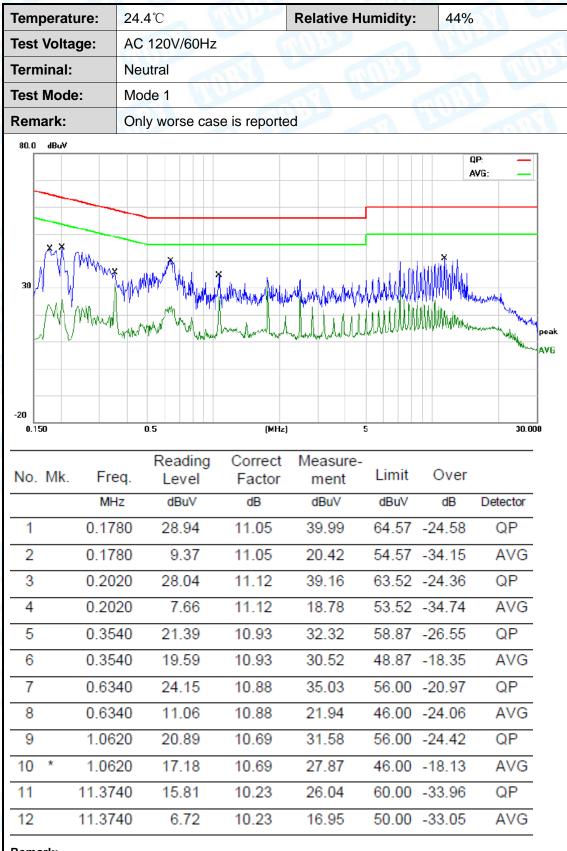
#### Remark

- 1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)





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#### Remark

- 1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)



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## **Attachment B--Radiated Emission Test Data**

#### ----Below 1G

Tempera	ature:	<b>24.3</b> ℃			Relative	<b>Humidity:</b>	45%	3	
est Vol	tage:	AC 12	20V/60H	łz					
Ant. Pol		Horizo	ontal	13		11.33		Alla	
Test Mo	de:	Mode	1	100	M P	630			
Remark	:	Only s	showed	test data o	f the worst	mode.			
80.0 dBu\	V/m								
70									
60							FCC 15B 3M I	Radiation	_
50							Margin -6 dB		Ħ
10						4			Ц
					3	\$ <sub>5</sub>			<u> </u>
30						X III		1 3	<sub>uu</sub> peal
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20 ////////////////////////////////////		60.00 Re	eading	Factor (dB/m)	Hz)		Margin (dB)	and the second s	000.00
20 ////////////////////////////////////	Frequence	60.00 Re (c	eading	Factor	Hz)	300.00 Limit	_	and the second s	000.00
20 ////////////////////////////////////	Frequence (MHz)	60.00 Re (c	eading	Factor (dB/m)	Level (dBuV/m)	300.00 Limit (dBuV/m)	(dB)	1 Detector	000.00
20 //// 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequence (MHz) 57.7962	60.00 Re (c)	eading dBuV)	Factor (dB/m) -23.38	Level (dBuV/m)	300.00 Limit (dBuV/m) 40.00	(dB) -24.14	Detector	P/F
20 ////////////////////////////////////	Frequenc (MHz) 57.7962 119.855	60.00 Re (c) 2 3 6 4 5 5	eading dBuV) 39.24 41.10	Factor (dB/m) -23.38 -23.29	Level (dBuV/m) 15.86 17.81	300.00 Limit (dBuV/m) 40.00 43.50	(dB) -24.14 -25.69	Detector peak peak	P/F
20 //m/\ww/\ww/\ww/\ww/\ww/\ww/\ww/\ww/\ww/	Frequence (MHz) 57.7962 119.8556 180.016	60.00 Re (c) 3 6 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	eading dBuV) 39.24 41.10 56.15	Factor (dB/m) -23.38 -23.29 -23.13	Level (dBuV/m) 15.86 17.81 33.02	300.00 Limit (dBuV/m) 40.00 43.50 43.50	(dB) -24.14 -25.69 -10.48	Detector peak peak peak	P/F P P

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
   QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dB $\mu$ V/m)-Limit QPK(dB $\mu$ V/m)



Temperature:
24.3 °C

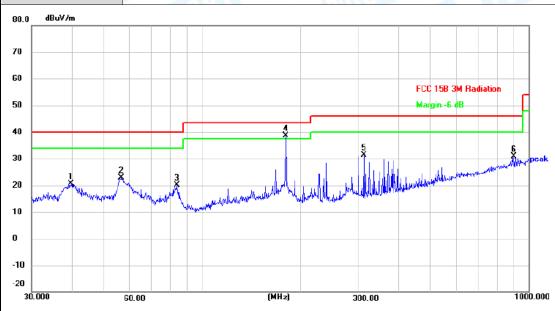
Relative Humidity:
45%

Test Voltage:
AC 120V/60Hz

Ant. Pol.
Vertical

Test Mode:
Mode 1

**Remark:** Only showed test data of the worst mode.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	39.7146	43.62	-23.03	20.59	40.00	-19.41	peak	Р
2	56.5929	46.12	-23.25	22.87	40.00	-17.13	peak	Р
3	83.5222	46.63	-26.62	20.01	40.00	-19.99	peak	Р
4 *	180.0165	61.76	-23.13	38.63	43.50	-4.87	peak	Р
5	312.1794	51.99	-20.51	31.48	46.00	-14.52	peak	Р
6	900.1474	39.37	-8.55	30.82	46.00	-15.18	peak	Р

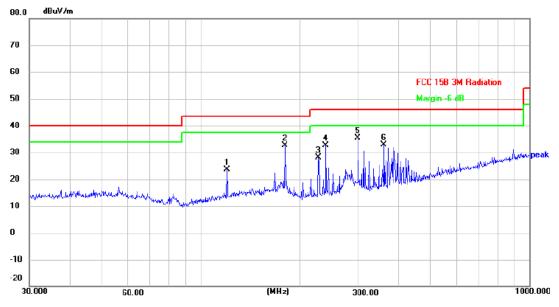
#### Remark

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dB $\mu$ V/m)-Limit QPK(dB $\mu$ V/m)



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Temperature:	24.3℃	Relative Humidity:	45%
Test Voltage:	AC 120V/60Hz	1000	All Indian
Ant. Pol.	Horizontal		The state of the s
Test Mode:	Mode 2		
Remark:	Only showed test of	lata of the worst mode.	
80.0 dBuV/m			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	119.8556	47.00	-23.29	23.71	43.50	-19.79	peak	Р
2	180.0165	55.87	-23.13	32.74	43.50	-10.76	peak	Р
3	227.6906	51.29	-23.12	28.17	46.00	-17.83	peak	Р
4	239.9874	55.17	-22.53	32.64	46.00	-13.36	peak	Р
5 *	300.3672	56.07	-20.64	35.43	46.00	-10.57	peak	Р
6	360.4476	52.31	-19.41	32.90	46.00	-13.10	peak	Р

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
   QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dB $\mu$ V/m)-Limit QPK(dB $\mu$ V/m)



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	ature:	24.	30		Relative	Humidity:	45%		
est Vo	ltage:	AC	120V/60H	Z	China Control			M	
nt. Po	l.	Vei	tical	11919		HO		J B	100
est Mo	de:	Мо	de 2	FU	11.32				
emark	:	On	ly showed	test data o	f the worst	mode.		CIII)	
30.0 dB	JV/m								
70									
50							FCC 15B 3M	1 Radiation	
50							Margin -6 dl	В	$\blacksquare$
10					3				Щ
					Î	4 5 X		6	
20 mm/link	Mids (	I.	Z .	washing the property and			Jegodyn oddfae mae	ynapadadahandil	(I) <sub>W</sub> pe
	Mids (	I Mark	Museum	harden or see hearing	had bed all his bear		Jupania	Mary Market Sugary.	W <sub>hv</sub> v pe
20 mmhul	Mids (	I A	Museum Marian	harafan o saidean a saidean a			have when	reason to the second	W <sub>pVV</sub> pea
20 HAWILIA	Mids (	60.00	No. 100 May Land		Hz)		have a land		1000.0
20	Mids (	Many	and American		Hz)	LA MALLE	Headen all be seve		
20	Mids (	60.00 Cy	Reading (dBuV)		Level	LA MALLE	Margin		
20 mm/luni 0 0 10 20 30.000	Frequen	60.00 Cy	Reading	Factor	Level	300.00 Limit	Margin		1000.0
20 Julius 10 20 30.000 No.	Frequen (MHz)	60.00 Cy	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	300.00 Limit (dBuV/m)	Margin (dB)	Detector	1000.0
20 100 100 20 30.000 No.	Frequen (MHz) 56.197	60.00 Cy 4	Reading (dBuV)	Factor (dB/m) -23.20	Level (dBuV/m) 23.60	300.00 Limit (dBuV/m) 40.00	Margin (dB)	Detector	1000.00 P/F
20 20 30.000 No.	Frequen (MHz) 56.197 83.229	cy 44 88 65	Reading (dBuV) 46.80 47.24	Factor (dB/m) -23.20 -26.64	Level (dBuV/m) 23.60 20.60	300.00 Limit (dBuV/m) 40.00 40.00	Margin (dB) -16.40	Detector peak peak	1000.00 P/F P
20 10 10 20 30.000 No. 1 2 3 *	Frequen (MHz) 56.197 83.229 180.016	cy 44 8 655 72	Reading (dBuV) 46.80 47.24 59.29	Factor (dB/m) -23.20 -26.64 -23.13	Level (dBuV/m) 23.60 20.60 36.16	300.00 Limit (dBuV/m) 40.00 40.00 43.50	Margin (dB) -16.40 -19.40 -7.34	Detector peak peak peak	1000.00 P/F P

#### Remark:

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- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
  2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dB $\mu$ V/m)-Limit QPK(dB $\mu$ V/m)

END OF REPORT-