

# CENTRE OF TESTING SERVICE INTERNATIONAL

**OPERATE ACCORDING TO ISO/IEC 17025** 

# FCC ID TEST REPORT

TEST REPORT NUMBER: CNB3160825-00928-EF



CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China







TEST REPORT For FCC ID 47 CFR PART 15 OCT, 2015
, , , , , , , , , , , , , , , , , , ,
Report Reference No CNB3160825-00928-EF
Date of issue 30 August 2016
Testing Laboratory Name CENTRE OF TESTING SERVICE CO., LTD.
Address A101,No.65,Zhuji Highway,Tianhe District,Guangzhou, China
Testing location/ procedureFull application of Harmonised standards ■
Partial application of Harmonised standards $\square$
Other standard testing method $\square$
Applicant's nameNINGBO E-SHINE ELECTRIC APPLIANCE CO., LTD.
Address#1702, Jianchen Building, Southern Business District, Yizhou District Ningbo, Zhejiang, China
Test specification
Standard 47 CFR PART 15 OCT, 2015; ANSI C63.10:2013
Test Report Form NoCTSEMC-1.0
TRF OriginatorCENTRE OF TESTING SERVICE CO., LTD.
Master TRF Dated 2009-01
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Test item description: Bluetooth wireless Headpiece
Trade Mark /
Manufacturer NINGBO E-SHINE ELECTRIC APPLIANCE CO., LTD.
Model/Type reference WT6700
Ratings Battery 3.7V, DC 5V for Charging
Operating Frequency2402.0MHz ~2480.0MHz
ResultPositive

Kate zhang / Fileadministrators

Compiled by:

Duke yang / Technique principal

Supervised by:

Vincent yao / Manager

Approved by:

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# FCCID-TEST REPORT

Test Report No. : CNB3160825-00928-EF 30 August 2016 Date of issue

Type / Model	WT6700
EUT	Bluetooth wireless Headpiece
Applicant	NINGBO E-SHINE ELECTRIC APPLIANCE CO., LTD.
Address	#1702, Jianchen Building, Southern Business District, Yizhou District, Ningbo, Zhejiang, China
Telephone	+86-574-89017196
Fax	+86-574-89017196
Contact	sam
Manufacturer	NINGBO E-SHINE ELECTRIC APPLIANCE CO., LTD.
Address	#1702, Jianchen Building, Southern Business District, Yizhou District, Ningbo, Zhejiang, China
Telephone	+86-574-89017196
Fax	+86-574-89017196
Contact	sam
Factory	NINGBO E-SHINE ELECTRIC APPLIANCE CO., LTD.
Address	#1702, Jianchen Building, Southern Business District, Yizhou District, Ningbo, Zhejiang, China
Telephone	+86-574-89017196
Fax	+86-574-89017196
Contact	sam

# Test Result according to the standards on page 1: PASSED

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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# 1.TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2015
- ANSI C63.10:2013

## 2.SUMMARY

#### 2.1 GENERAL REMARKS

Date of receipt of test sample	25 August 2016	
Testing commenced on	25~30 August 2016	
Testing concluded on	30 August 2016	

#### 2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- fulfilled.
- □ **not** fulfilled.

The equipment under test

- fulfils the FCC requirements cited on page 1.
- **does not** fulfil the FCC requirements cited on page 1.

## 3.EQUIPMENT UNDER TEST

## 3.1 Power supply system utilised

Power supply voltage : Battery 3.7V, DC 5V for Charging by NoteBook NoteBook Power Supply by AC 120V,60Hz

# 3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

# 3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- ☐ TX- Y position
- ☐ TX- Z position
- TX- X position
- Charging

Operation mode 1:TX-X Position Low (2402MHz) , TX-X Position Middle (2440MHz ), TX-X Position High (2480MHz)

Operation mode 2 Charging

Note:Operation mode 1 TX -X position of EUT is the radiated test worst case; so only these test results be recorded in the test report.

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# 3.4 EUT configuration

# 3.4.1. Description of configuration (EUT)

Description		Bluetooth wireless Headpiece	
Model Number	:	WT6700	
Operation frequency	:	2402~ 2480 MHz ISM Band	
Bluetooth Version	:	BT 3.0+EDR	
Modulation Technology	:	GFSK Modulation	
Antenna	•	PCB antenna, met requirement of FCC 15.203	

# 3.4.2. Tested Supporting System Details

## 3.4.2.1. Notebook

M/N :	F83VF
S/N :	N/A
Manufacturer :	AUSU
Power Cord :	1
FCC ID :	ID

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# 4.TEST ENVIRONMENT

# 4.1 Address of the test laboratory

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

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# 4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

# IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 6, 2011.

# FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.791995, July 13,2012.

#### 4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

# 4.4 Definitions of symbols used in this test report

- The black square indicates that the listed condition, standard or equipment is applicable for this report.
- The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

#### 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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# 4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)
	1GHz~26.5GHz	±3.54dB	(1)

<sup>(1).</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

# 5. Summary of standards and results

# 5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Results	
Conducted Emission Test	FCC Part 15 § 15.207 ANSI C63.10:2013	PASSED
Radiated Emission Test	FCC Part 15 C § 15.249 FCC Part 15 § 209 ANSI C63.10:2013	PASSED
Band Edge Compliance Test	FCC Part 15 C § 15.249 ANSI C63.10:2013	PASSED
20 dB Bandwidth	FCC Part 15 C: 15.215 ANSI C63.10:2013	PASSED
N/A is an abbreviation for Not Applicable.		

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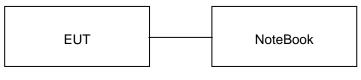


# 6. Power Line Conducted Emission Test

# **6.1.Test Equipment**

Conduc	Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2015/10	
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2015/10	
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2015/10	
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2015/10	
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2015/10	

# 6.2. Block Diagram of Test Setup



(EUT: WT6700)

#### 6.3. Power Line Conducted Emission Test Limits

Standard: FCC Part 15: 15.207, ANSI C63.10:2013

- 4					
			Maximum RF Line Voltage		
	Frequency		Quasi-Peak Level	Average Level	
			dB(μV)	dB(μV)	
	150kHz	~ 500kHz	66 ~ 56*	56 ~ 46*	
	500kHz	~ 5MHz	56	46	
	5MHz	~ 30MHz	60	50	

Notes: 1. \* Decreasing linearly with logarithm of frequency.

#### 6.4.Test Procedure

The NoteBook Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

# 6.5. Power Line Conducted Emission Test Results PASSED

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<sup>2.</sup> The lower limit shall apply at the transition frequencies.

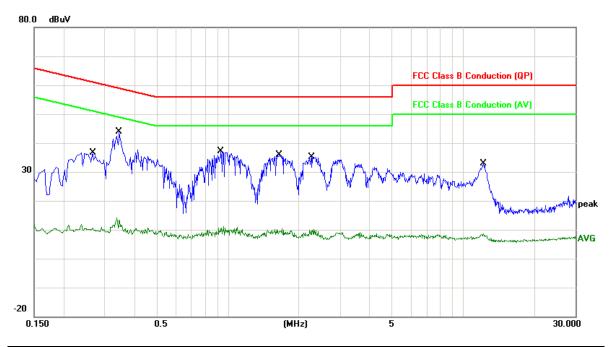




# 5.1.5 Test protocol

Test point	L	Result:	■ - passed
Operation mode	Charging		☐ - not passed
Remarks:			'

EUT	Bluetooth wireless Headpiece		
MODEL NO.	WT6700		
Operating Condition	DC 5V by Notebook Supply		
Test Condition	Ambient Temperature: 24°C Humidity: 56%		
Operator	Duke		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2660	10.85	15.89	26.74	61.24	-34.50	QP
2	0.2660	10.85	-1.72	9.13	51.24	-42.11	AVG
3	0.3460	10.87	23.86	34.73	59.06	-24.33	QP
4	0.3460	10.87	-0.13	10.74	49.06	-38.32	AVG
5	0.9340	10.90	15.61	26.51	56.00	-29.49	QP
6	0.9340	10.90	-2.60	8.30	46.00	-37.70	AVG
7	1.6580	10.93	15.28	26.21	56.00	-29.79	QP
8	1.6580	10.93	-2.81	8.12	46.00	-37.88	AVG
9	2.2660	10.95	14.86	25.81	56.00	-30.19	QP
10	2.2660	10.95	-3.66	7.29	46.00	-38.71	AVG
11	12.2420	11.12	11.34	22.46	60.00	-37.54	QP
12	12.2420	11.12	-4.55	6.57	50.00	-43.43	AVG

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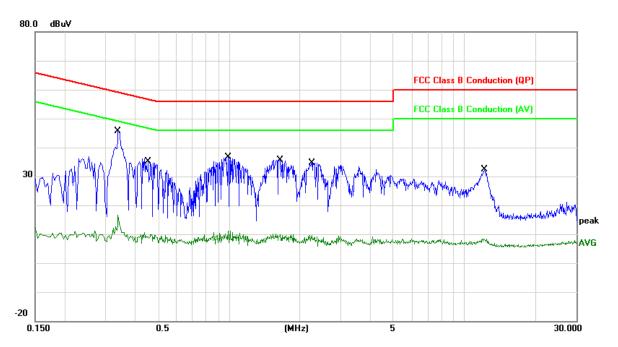
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Test point: N Result: ■ - passed □ - not passed Remarks:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3380	10.85	26.69	37.54	59.25	-21.71	QP
2	0.3380	10.85	1.49	12.34	49.25	-36.91	AVG
3	0.4540	10.89	14.78	25.67	56.80	-31.13	QP
4	0.4540	10.89	-2.40	8.49	46.80	-38.31	AVG
5	0.9980	10.89	16.97	27.86	56.00	-28.14	QP
6	0.9980	10.89	-2.48	8.41	46.00	-37.59	AVG
7	1.6460	10.92	15.31	26.23	56.00	-29.77	QP
8	1.6460	10.92	-2.90	8.02	46.00	-37.98	AVG
9	2.2540	10.94	14.68	25.62	56.00	-30.38	QP
10	2.2540	10.94	-3.64	7.30	46.00	-38.70	AVG
11	12.2340	11.09	11.07	22.16	60.00	-37.84	QP
12	12.2340	11.09	-4.57	6.52	50.00	-43.48	AVG

Note:Level=Reading+Factor. Margin= Level - Limit

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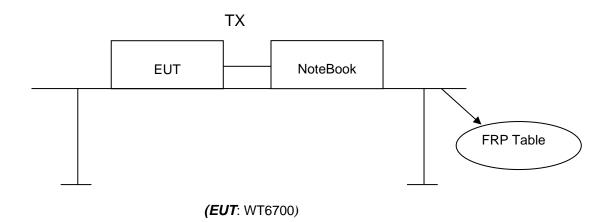
# 7. Radiated disturbance (electric field)

# 7.1.Test Equipment

Radia	Radiated disturbance (electric field)								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.				
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2015/10				
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2016/03				
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2016/03				
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03				
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03				
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2015/10				

# 7.2.Block Diagram of Test Setup

# 7.2.1 Block Diagram of connection between EUT and simulators



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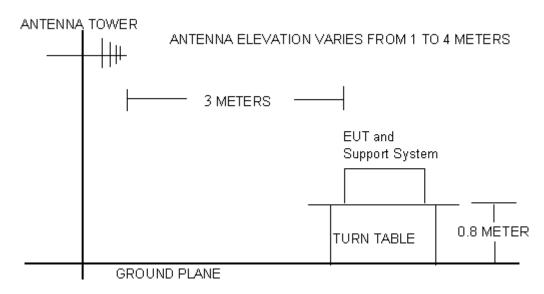
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#### 7.2.2 Anechoic Chamber Setup Diagram



#### 7.3. Radiated Emission Limit:

Standard: FCC 15.249, FCC 15.209

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (µV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

FRE	QUEN	CY	DISTANCE	FIELD STREN	GTHS LIMIT
	MHz		Meters	μV/m	dB(μV)/m
0.009	~	0.490	300	2400/F(kHz)	
0.490	~	1.705	30	24000/F(kHz)	
1.705	~	30	30	30	
30	~	88	3	100	40.0
88	~	216	3	150	43.5
216	~	960	3	200	46.0
960	~	1000	3	500	54.0
Ak	Above 1000		3	Other:74.0 dB(μ 54.0 dB(μV)/n	

Remark:

- (1) Emission level  $dB\mu V = 20 \log Emission level \mu V/m$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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#### 7.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 2MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

# 7.5. Radiated Emission Test Results

#### PASSED.

The frequency range from 9KHz~30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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Test Mode: TX –X Position Mode Result: □ - passed Frequency range: 9KHz~30MHz □ - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
Rema	Remark: The test result reading value is to low, margin all > 10dB of the limit.								

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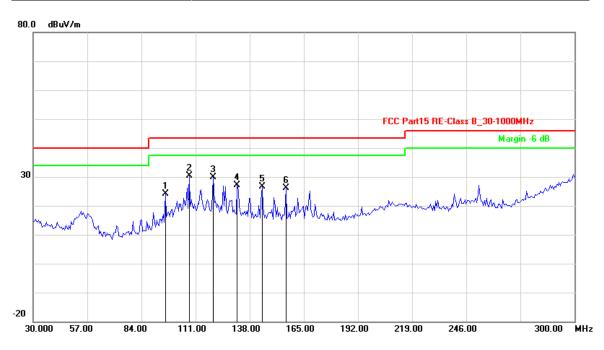




# **CENTRE OF TESTING SERVICE**

Channel:	TX –X Position	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz-1GHz		

EUT	Bluetooth wireless Headpiece
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	23~30 August 2016
Operator	Duke
MODEL NO	WT6700



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	96.0120	-18.59	42.62	24.03	43.50	-19.47	QP		
2	107.9158	-17.49	47.83	30.34	43.50	-13.16	QP		
3	119.8196	-16.73	46.57	29.84	43.50	-13.66	QP		
4	131.7234	-16.12	43.36	27.24	43.50	-16.26	QP		
5	144.1683	-16.01	42.65	26.64	43.50	-16.86	QP		
6	156.0721	-15.97	42.10	26.13	43.50	-17.37	QP		
Remark	Remark: Other frequency mini margin all >6 dB of Limit								

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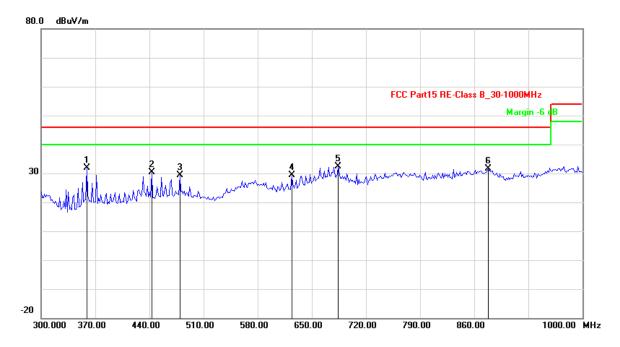
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	358.9178	-10.99	42.82	31.83	46.00	-14.17	QP		
2	443.0862	-9.14	39.63	30.49	46.00	-15.51	QP		
3	479.5591	-7.39	36.79	29.40	46.00	-16.60	QP		
4	624.0481	-5.95	35.31	29.36	46.00	-16.64	QP		
5	684.3687	-2.01	34.43	32.42	46.00	-13.58	QP		
6	877.9559	0.35	31.29	31.64	46.00	-14.36	QP		
Remark	Remark: Other frequency mini margin all >6 dB of Limit								

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Channel:	TX –X Position Low CH	Result:	■ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	7.02	78.66	85.68	114.00	-28.32	Peak
2	2402.00	7.02	74.22	81.24	94.00	-12.76	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1118.17	-1.67	43.43	41.76	74.00	-32.24	peak
2	1118.17	-1.67	28.85	27.18	54.00	-26.82	AVG
3	5089.47	6.19	38.54	44.73	74.00	-29.27	peak
4	5089.47	6.19	23.79	29.99	54.00	-24.01	AVG
Remark: Other frequency mini margin all >6 dB of Limit							

Channel:	TX –X Position Middle CH	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2440.00	7.24	78.50	85.74	114.00	-28.26	Peak
2	2440.00	7.24	74.21	81.45	94.00	-12.55	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1309.16	0.08	40.26	40.34	74.00	-33.66	peak
2	1309.16	0.08	26.17	26.24	54.00	-27.76	AVG
3	5491.82	7.38	38.18	45.56	74.00	-28.44	peak
4	5491.82	7.38	23.31	30.69	54.00	-23.31	AVG
Remark: Other frequency mini margin all >6 dB of Limit							

Channel:	TX –X Position High CH	Result: ■ - passed	
Test point:	Horizontal	□ - not passed	
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480.00	7.47	77.84	85.31	114.00	-28.69	Peak
2	2480.00	7.47	74.02	81.49	94.00	-12.51	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1321.84	0.19	40.51	40.70	74.00	-33.30	peak
2	1321.84	0.19	26.14	26.33	54.00	-27.67	AVG
3	5254.09	6.68	39.79	46.47	74.00	-27.53	peak
4	5254.09	6.68	25.47	32.15	54.00	-21.85	AVG
Remark: Other frequency mini margin all >6 dB of Limit							

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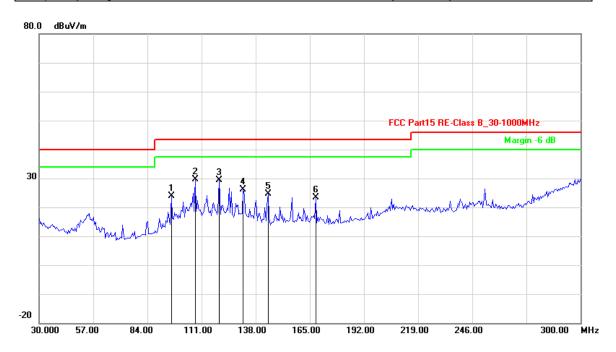
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 Channel:
 TX –X Position
 Result:
 ■ - passed

 Test point:
 Vertical
 □ - not passed

 Frequency range:
 30MHz-1GHz



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	96.0120	-18.59	42.44	23.85	43.50	-19.65	QP	
2	107.9158	-17.49	47.14	29.65	43.50	-13.85	QP	
3	119.8196	-16.73	45.99	29.26	43.50	-14.24	QP	
4	131.7234	-16.12	42.37	26.25	43.50	-17.25	QP	
5	144.1683	-16.01	40.65	24.64	43.50	-18.86	QP	
6	167.9760	-15.98	39.48	23.50	43.50	-20.00	QP	
Remark: Other frequency mini margin all >6 dB of Limit								

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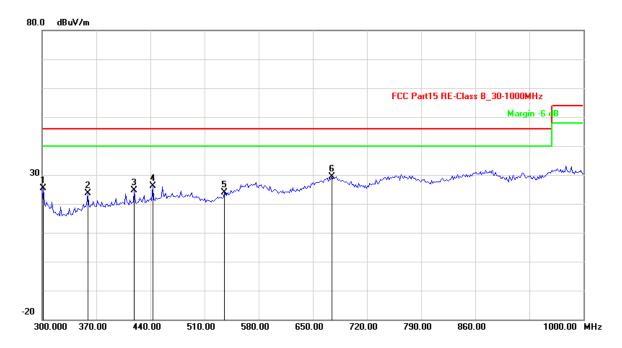
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	301.4028	-13.69	39.11	25.42	46.00	-20.58	QP
2	358.9178	-10.99	34.55	23.56	46.00	-22.44	QP
3	419.2385	-10.07	34.82	24.75	46.00	-21.25	QP
4	443.0862	-9.14	35.39	26.25	46.00	-19.75	QP
5	535.6713	-7.71	31.57	23.86	46.00	-22.14	QP
6	674.5491	-1.87	31.13	29.26	46.00	-16.74	QP
Remark: Other frequency mini margin all >6 dB of Limit							

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Channel:TX –X Position Low CHResult:■ - passedTest point:Vertical□ - not passedFrequency range:1GHz-26.5GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	7.02	76.20	83.22	114.00	-30.78	Peak
2	2402.00	7.02	72.16	79.18	94.00	-14.82	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	1901.25	4.15	38.93	43.08	74.00	-30.92	peak	
2	1901.25	4.15	24.62	28.76	54.00	-25.24	AVG	
3	5911.00	8.62	35.09	43.70	74.00	-30.30	peak	
4	5911.00	8.62	20.64	29.26	54.00	-24.74	AVG	
Remark	Remark: Other frequency mini margin all >6 dB of Limit							

Channel:TX −X Position Middle CHResult:■ - passedTest point:Vertical□ - not passedFrequency range:1GHz-26.5GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2440.00	7.24	76.18	83.42	114.00	-30.58	Peak
2	2440.00	7.24	72.42	79.66	94.00	-14.34	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	1885.88	4.06	39.07	43.12	74.00	-30.88	peak	
<u>'</u>		4.00						
2	1885.88	4.06	24.08	28.14	54.00	-25.86	AVG	
3	5088.79	6.19	39.23	45.42	74.00	-28.58	peak	
4	5088.79	6.19	24.42	30.61	54.00	-23.39	AVG	
Remark	Remark: Other frequency mini margin all >6 dB of Limit							

 Channel:
 TX –X Position High CH
 Result:
 ■ - passed

 Test point:
 Vertical
 □ - not passed

 Frequency range:
 1GHz-26.5GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480.00	7.47	75.78	83.25	114.00	-30.75	Peak
2	2480.00	7.47	71.87	79.34	94.00	-14.66	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	1369.72	0.63	42.64	43.27	74.00	-30.73	peak	
2	1369.72	0.63	28.36	28.99	54.00	-25.01	AVG	
3	5384.86	7.07	37.03	44.09	74.00	-29.91	peak	
4	5384.86	7.07	22.40	29.47	54.00	-24.53	AVG	
Remark:	Remark: Other frequency mini margin all >6 dB of Limit							

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# 8. Band Edge Compliance test

# 8.1. Test Equipment

Band Edge Compliance test							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2015/10		
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03		
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03		

#### 8.2. Test Information

EUT	Bluetooth wireless Headpiece		
Test Condition Ambient Temperature: 25°C Humidity: 56%			
Test distance 3 Meter			
Test Date:	23~30 August 2016		
Operator	Duke		
MODEL NO	WT6700		

# 8.3. Test procedure

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz; VBW=3KHz(On time/1)/ Sweep=AUTO

## 8.4. Test Results

#### PASSED.

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

Toot Mada	Channel	Test Result Highest Emission (dBuv/m)				
Test Mode	Marked Frequency	Horizontal		Vertical		
		Peak	Average	Peak	Average	
Low Channel	2390MHz	29.54	19.95	28.69	19.24	
Low Channel	2400MHz	60.79	56.81	58.54	54.46	
High Channel	2483.5MHz	50.91	43.55	49.07	41.26	
	2500MHz	28.99	19.13	29.83	18.87	

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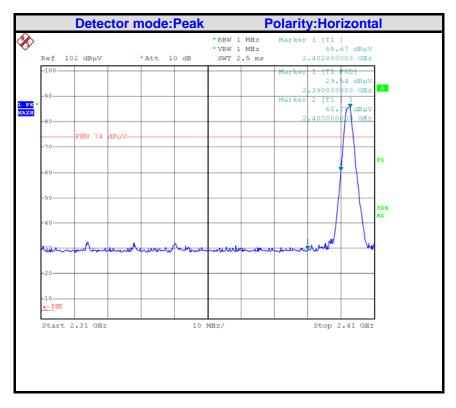
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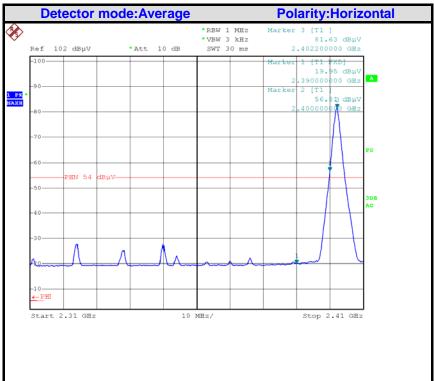
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# **Band Edges (Low)**





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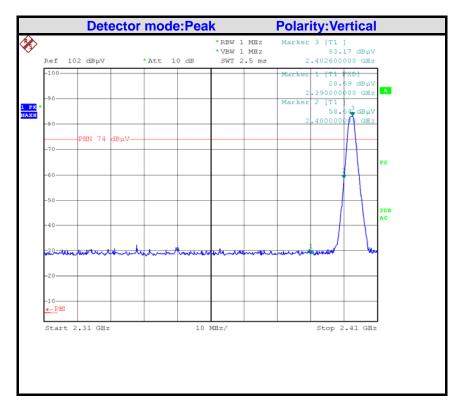
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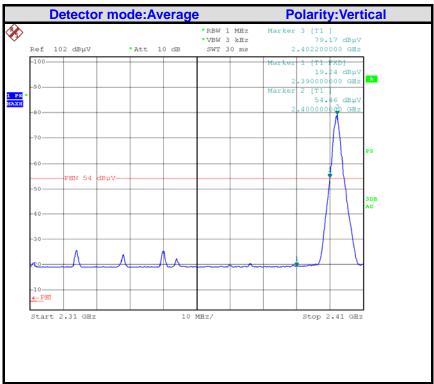
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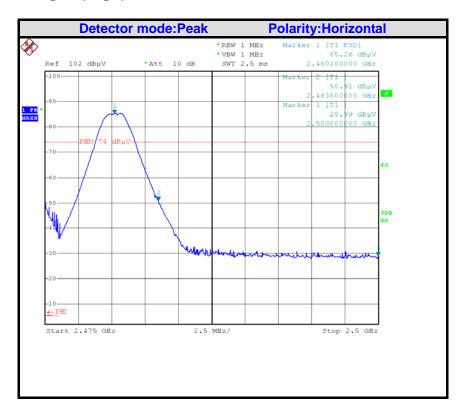
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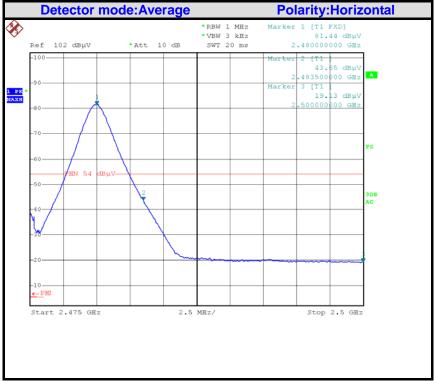
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# **Band Edges (High)**





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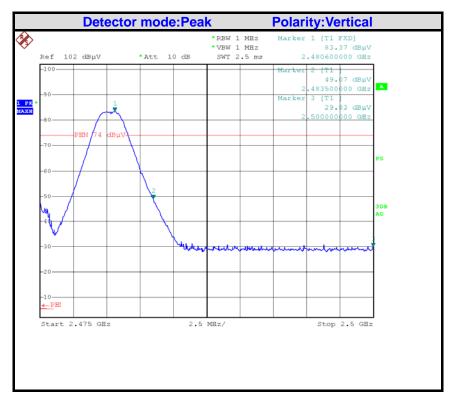
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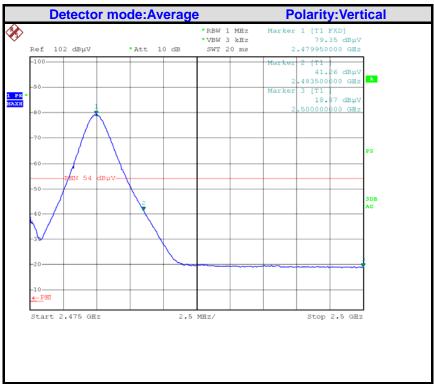
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# 9 20 dB Bandwidth test

# 9.1. Test Equipment

20 dB Bandwidth test							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2015/10		
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03		
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03		

# 9.2. Test Information

EUT	Bluetooth wireless Headpiece		
Test Condition	Ambient Temperature: 25°C Humidity: 56%		
Test distance	3 Meter		
Test Date:	23~30 August 2016		
Operator	Duke		
MODEL NO	WT6700		

## 8.3. Test Results

# PASSED.

The testing data was attached in the next pages.

Channel (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Test Result
2402	1.100		PASSED
2440	1.180		PASSED
2480	0.960		PASSED

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#### **Test Plot:**





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# 10. Deviation to test specifications

The following identical model(s):

WT6702

Belong to the tested device:

Product description: **Bluetooth wireless Headpiece**Model name: **WT6700** 

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