TEST REPORT

Reference No	:	WTS16S0142003E
FCC ID	:	ZRH-20151215
Applicant	:	SHENZHEN YUXINXIN ELECTRONICS CO.,LTD
Address	:	Building 7, Xinxing Industrial Park, Fuyong Town Bao'an District, Shenzhen, China
Manufacturer	:	SHENZHEN YUXINXIN ELECTRONICS CO.,LTD.
Address	:	Building 7, Xinxing Industrial Park, Fuyong Town Bao'an District, Shenzhen, China
Product Name	:	Wireless TV Earphones
Model No	-	YU-RF1000, RF-8138, RF-8139, RF-8913, HO700(SENTRY), HO750(SENTRY)
Standards	:	FCC CFR47 Part 15 Section 15.249: 2015
Date of Receipt sample	:	Jan. 19, 2016
Date of Test	:	Jan. 22, 2016-Jan. 25, 2016
Date of Issue	:	Feb. 01, 2016
Test Result	:	Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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Compiled by: Approved by:

Zero Zhou / Test Engineer

Philo Zhong / Manager

Tarko zhous

Reference No.: WTS16S0142003E Page 2 of 34

2 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207	PASS
	15.249(a)	
Radiated Emission	15.209	PASS
	15.205(a)	
Periodic Operation	15.35(c)	PASS
	15.249	
Outside of Band Emission	15.205	PASS
	15.209	
20dB Bandwidth	15:215(c)	PASS
Antenna Requirement	15.203	PASS

3 Contents

	COVER PAGE	Page
1	EST SUMMARY	
	CONTENTS	
4 (SENERAL INFORMATION	
	4.1 GENERAL DESCRIPTION OF E.U.T4.2 DETAILS OF E.U.T4.3 TEST FACILITY4.3 TEST FACILITY	4
<i>5</i> E	QUIPMENT USED DURING TEST	
3 6	5.1 EQUIPMENT LIST	
	5.1 EQUIPMENT LIST	6 6
6 C	CONDUCTED EMISSION	
0 (6.1 E.U.T. OPERATION	
	6.2 EUT SETUP	7 7
7 F	ADIATION EMISSION TEST	10
	7.1 EUT OPERATION	
	7.2 TEST SETUP	11
	7.3 SPECTRUM ANALYZER SETUP	
	7.4 TEST PROCEDURE	
8 F	PERIODIC OPERATION	
9 (OUTSIDE OF BAND EMISSION	19
	9.1 TEST PROCEDURE	19
	9.2 TEST RESULT	19
10	20 DB BANDWIDTH MEASUREMENT	21
	10.1 TEST PROCEDURE	21
	10.2 TEST RESULT	
11	ANTENNA REQUIREMENT	23
12	PHOTOGRAPHS- YU-RF1000 TEST SETUP	24
	12.1 PHOTOGRAPH – CONDUCTED EMISSION TEST SETUP AT TEST SITE 2#	
13	PHOTOGRAPHS - CONSTRUCTIONAL DETAILS	26
	13.1 MODEL YU-RF1000- EXTERNAL PHOTOS	26
	13.2 MODEL YIL-RE1000- INTERNAL PHOTOS	30

Reference No.: WTF15S0831496E Page 4 of 34

4 General Information

4.1 General Description of E.U.T.

Product Name : Wireless TV Earphones

Model No. :YU-RF1000, RF-8138, RF-8139, RF-8913, HO700(SENTRY),

HO750(SENTRY)

Model Differences :There difference is only appearance color and model no.

Type of Modulation : GFSK

Frequency Range : 2406-2472MHz

The Lowest Oscillator : 16MHz

Antenna installation : integrated Antenna

4.2 Details of E.U.T.

Technical Data : Input: DC 5V, 500mA from adapter

(Adapter model: BLJ06W050050P1-U Input: AC 100-240V,

50/60Hz 0.2A; Output: DC 5V, 500mA)

4.3 Test Facility

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

IC – Registration No.:7760A-1

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A-1, Oct 15, 2015.

• FCC Test Site 1#- Registration No.: 880581

Waltek Services(Shenzhen) 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 880581, April 29, 2014.

• FCC Test Site 2#- Registration No.: 328995

Waltek Services(Shenzhen) 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 328995, December 3, 2014.

4.3.1 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test mode	Lower channel	Middle channel	Upper channel
Transmitting	2406MHz	2440MHz	2472MHz

5 Equipment Used during Test

5.1 Equipment List

	o. i Equipinent i	5.1 Equipment List										
Conducted Emissions Test Site 1#												
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date						
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.15,2015	Sep.14,2016						
2.	LISN	R&S	ENV216	101215	Sep.15,2015	Sep.14,2016						
3.	Cable	Тор	TYPE16(3.5M)	-	Sep.15,2015	Sep.14,2016						
Condu	cted Emissions Test \$	Site 2#										
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date						
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.15,2015	Sep.14,2016						
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.15,2015	Sep.14,2016						
3.	Limiter	York	MTS-IMP-136	261115-001- 0024	Sep.15,2015	Sep.14,2016						
4.	Cable	LARGE	RF300	-	Sep.15,2015	Sep.14,2016						
3m Ser	mi-anechoic Chamber	for Radiation Emis	sions Test site	1#								
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date						
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.15,2015	Sep.14,2016						
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.15,2015	Sep.14,2016						
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2015	Apr.18,2016						
4	Coaxial Cable (below 1GHz)	Тор	TYPE16(13M)	-	Sep.15,2015	Sep.14,2016						
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2015	Apr.18,2016						
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2015	Apr.18,2016						
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2015	Mar.16,2016						
8	Coaxial Cable (above 1GHz)	Тор	1GHz-25GHz	EW02014-7	Apr.10,2015	Apr.09,2016						
3m Ser	mi-anechoic Chamber	for Radiation Emis	sions Test site	2#								
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date						
1	Test Receiver	R&S	ESCI	101296	Sep.15,2015	Sep.14,2016						
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Sep.15,2015	Sep.14,2016						
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Sep.15,2015	Sep.14,2016						
4	Cable	HUBER+SUHNER	CBL2	525178	Sep.15,2015	Sep.14,2016						

Reference No.: WTS16S0142003E Page 6 of 34

5.2 Description of Support Units

Equipment	Manufacturer	Model No.
iPhone 5S	Apple	A1530

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 1 x 10 ⁻⁶
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
	± 5.03 dB
Radiated Spurious	(Bilog antenna 30M~1000MHz)
Emissions test	± 5.47 dB
	(Horn antenna 1000M~25000MHz)

5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

Reference No.: WTS16S0142003E Page 7 of 34

6 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.10:2013

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit: $66-56 \text{ dB}_{\mu}\text{V} \text{ between } 0.15\text{MHz } \& 0.5\text{MHz}$

56 dB_μV between 0.5MHz & 5MHz60 dB_μV between 5MHz & 30MHz

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

6.1 E.U.T. Operation

Operating Environment:

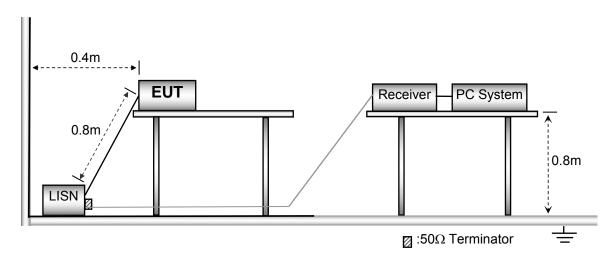
Temperature: 25.5 °C
Humidity: 51 % RH
Atmospheric Pressure: 101.2kPa

EUT Operation:

The test was performed in transmitting mode, the test data were shown in the report.

6.2 EUT Setup

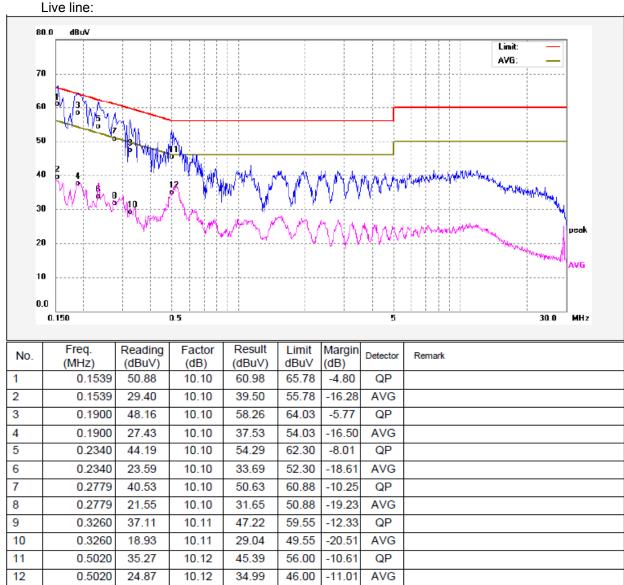
The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003.



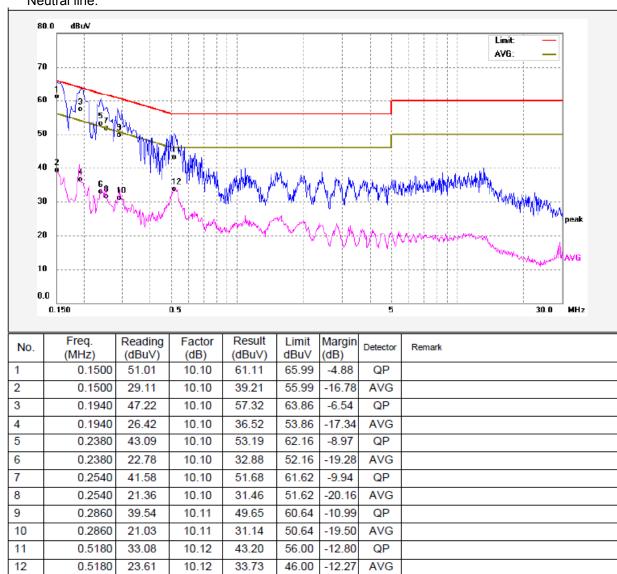
6.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.4 Test Result



Neutral line:



Reference No.: WTS16S0142003E Page 10 of 34

7 Radiation Emission Test

Test Requirement: FCC Part15 Paragraph 15.249&15.209&15.205

Test Method: ANSI 63.10: 2013

Measurement Distance: 3m

Test Result: PASS

15.249(a)Limit:

Fundamental frequency	Field strength	of fundamental	Field strength of harmonics		
	mV/m	dBuV/m	uV/m	dBuV/m	
902-928 MHz	50	94	500	54	
2400-2483.5 MHz	50	94	500	54	
5725-5875 MHz	50	94	500	54	
24.0-24.25 GHz	250	108	2500	68	

15.209 Limit:

10.200 Ellint.									
_	Field Strei	ngth	Field Strength Limit at 3m Measurement Dist						
Frequency (MHz)	uV/m	Distance (m)	uV/m	dBuV/m					
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80					
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40					
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40					
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾					
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾					
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾					
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾					

Note: RF Voltage(dBuV)=20 log₁₀ RF Voltage(uV)

7.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 51.1 % RH
Atmospheric Pressure: 101.2kPa

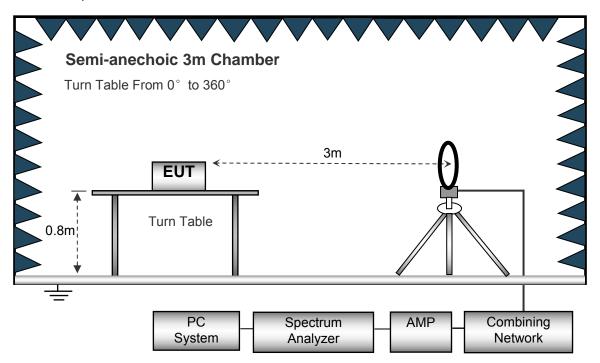
EUT Operation:

The test was performed in transmitting mode, the test data were shown in the report.

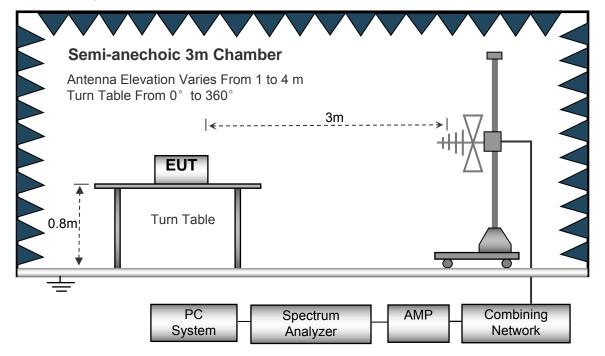
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10: 2013.

The test setup for emission measurement below 30MHz.

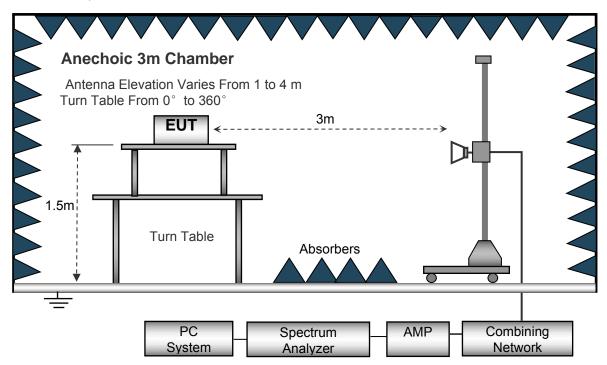


The test setup for emission measurement from 30MHz to 1GHz.



Reference No.: WTS16S0142003E Page 12 of 34

The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz		
	Sweep Speed IF Bandwidth Video Bandwidth	.10kHz
	Resolution Bandwidth	10kHz
30MHz ~ 1GH:		
JUNITZ ~ TGH.		
	Sweep Speed	. Auto
	Detector	.PK
	Resolution Bandwidth	.100kHz
	Video Bandwidth	. 300kHz
Above 1GHz		
	Sweep Speed	Auto
	Detector	.PK
	Resolution Bandwidth	.1MHz
	Video Bandwidth	.3MHz
	Detector	.Ave.
	Resolution Bandwidth	.1MHz
	Video Bandwidth	. 10Hz

Reference No.: WTS16S0142003E Page 13 of 34

7.4 Test Procedure

1. The EUT is placed on a turntable. For below 1GHz, the EUT is 0.8m above ground plane; For above1GHz, the EUT is 1.5m above ground plane.

- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.

Reference No.: WTS16S0142003E Page 14 of 34

7.5 Test Result

Test Frequency :16MHz~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 18GHz
Test Mode: Low channel Transmitting

							FCC F	Part
	Receiver	Turn	RX Antenna		Corrected	Corrected	15.249/2	09/205
Frequency	Reading (QP/PK)	table Angle	Height	Polar	Factor	Amplitude (PK)	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
351.68	41.25	180	1.8	V	-11.40	29.85	46.00	-16.15
2406.00	92.68	220	1.0	Н	-13.08	79.60	114.00	-34.40
2406.00	83.14	184	1.6	V	-13.08	70.06	114.00	-43.94
4812.00	48.36	346	1.3	Н	0.09	48.45	74.00	-25.55
4812.00	40.27	314	1.8	V	0.09	40.36	74.00	-33.64
7218.00	48.16	52	1.9	Н	3.01	51.17	74.00	-22.83
7218.00	41.94	277	1.2	V	3.01	44.95	74.00	-29.05
2389.75	58.36	153	1.5	Н	-13.14	45.22	74.00	-28.78
2389.75	54.24	325	1.5	V	-13.14	41.10	74.00	-32.90

AV = Peak +20Log10(duty cycle) =Peak+(-0.36)[refer to section 8 for more detail]

AV = 1 cak (2020g To(daty dyole) = 1 cak (-0.00)[Telef to 3cotion of this cataling								
		RX	Duty cycle	Calculated	FCC Part 15.249/209/205			
Frequency	PK	Antenn a Polar	Factor	AV	Limit	Margin		
(MHz)	(dBµV/m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
2406.00	79.60	Н	-0.36	79.24	94.00	-14.76		
2406.00	70.06	V	-0.36	69.70	94.00	-24.30		
4812.00	48.45	Н	-0.36	48.09	54.00	-5.91		
4812.00	40.36	V	-0.36	40.00	54.00	-14.00		
7218.00	51.17	Н	-0.36	50.81	54.00	-3.19		
7218.00	44.95	V	-0.36	44.59	54.00	-9.41		
2389.75	45.22	Н	-0.36	44.86	54.00	-9.14		
2389.75	41.10	V	-0.36	40.74	54.00	-13.26		

Test Mode: Middle channel Transmitting

rest wode. Middle channel transmitting								
	Receiver	Turn	RX Antenna		Corrected	Corrected	FCC Part 15.249/209/205	
Frequency	Reading	table			Factor	Amplitude		
	(PK)	Angle			1 actor	(PK)	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
351.68	41.53	99	1.8	V	-11.40	30.13	46.00	-15.87
2440.00	92.71	346	1.2	Н	-13.08	79.63	114.00	-34.37
2440.00	83.48	157	1.8	V	-13.08	70.40	114.00	-43.60
4880.00	48.62	261	1.7	Н	0.09	48.71	74.00	-25.29
4880.00	40.71	41	1.3	V	0.09	40.80	74.00	-33.20
7320.00	47.66	59	1.1	Н	3.01	50.67	74.00	-23.33
7320.00	41.47	238	1.4	V	3.01	44.48	74.00	-29.52
2484.11	59.98	16	1.6	Н	-13.08	46.90	74.00	-27.10
2484.11	55.61	316	1.8	V	-13.08	42.53	74.00	-31.47

AV = Peak +20Log10(duty cycle) =Peak+(-0.36)[refer to section 8 for more detail]

		RX	Duty ovolo	Calculated	FCC Part 15.249/209/205		
Frequency	requency PK Antenn		AV	Limit	Margin		
(MHz)	(dBµV/m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2440.00	79.63	Н	-0.36	79.27	94.00	-14.73	
2440.00	70.40	V	-0.36	70.04	94.00	-23.96	
4880.00	48.71	Н	-0.36	48.35	54.00	-5.65	
4880.00	40.80	V	-0.36	40.44	54.00	-13.56	
7320.00	50.67	Н	-0.36	50.31	54.00	-3.69	
7320.00	44.48	V	-0.36	44.12	54.00	-9.88	
2484.11	46.90	Н	-0.36	46.54	54.00	-7.46	
2484.11	42.53	V	-0.36	42.17	54.00	-11.83	

Test Mode: High channel Transmitting

	Receiver	Turn	RX Antenna		Corrected	Corrected	FCC Part 15.249/209/205	
Frequency	Reading (PK)	table Angle	Height	Polar	Factor	Amplitude (PK)	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
351.68	41.38	285	1.1	V	-11.40	29.98	46.00	-16.02
2472.00	92.32	16	1.9	Н	-13.08	79.24	114.00	-34.76
2472.00	83.85	268	1.0	V	-13.08	70.77	114.00	-43.23
4944.00	48.24	174	1.3	Н	0.09	48.33	74.00	-25.67
4944.00	40.29	50	1.7	V	0.09	40.38	74.00	-33.62
7416.00	47.34	182	1.6	Н	3.01	50.35	74.00	-23.65
7416.00	41.79	3	1.5	V	3.01	44.80	74.00	-29.20
2484.05	59.92	70	1.4	Н	-13.08	46.84	74.00	-27.16
2484.05	55.14	21	1.4	V	-13.08	42.06	74.00	-31.94

AV = Peak +20Log10(duty cycle)=Peak+(-14.50) [refer to section 8 for more detail]

		RX	Duty ovolo	Calculated	FCC Part 15.249/209/205		
Frequency	PK Antenn Duty cycle Factor a Polar		AV	Limit	Margin		
(MHz)	(dBµV/m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2472.00	79.24	Н	-0.36	78.88	94.00	-15.12	
2472.00	70.77	V	-0.36	70.41	94.00	-23.59	
4944.00	48.33	Н	-0.36	47.97	54.00	-6.03	
4944.00	40.38	V	-0.36	40.02	54.00	-13.98	
7416.00	50.35	Н	-0.36	49.99	54.00	-4.01	
7416.00	44.80	V	-0.36	44.44	54.00	-9.56	
2484.05	46.84	Н	-0.36	46.48	54.00	-7.52	
2484.05	42.06	V	-0.36	41.70	54.00	-12.30	

Test Frequency :From 18GHz to 25GHz

The measurements were more than 20 dB below the limit and not reported.

8 Periodic Operation

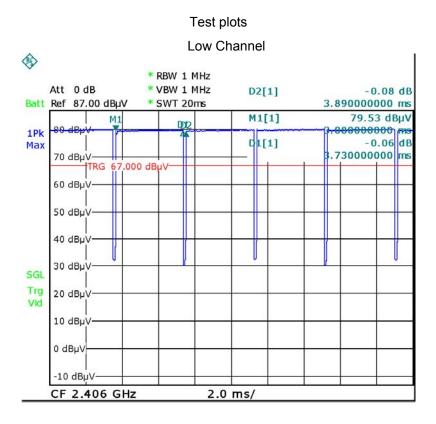
The duty cycle was determined by the following equation:

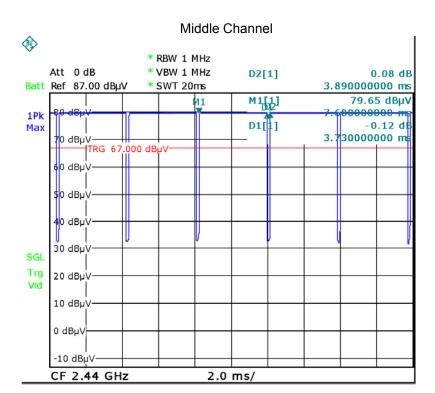
To calculate the actual field intensity,the duty cycle correction factor in decibel is needed for later use and can be obtained from following conversion

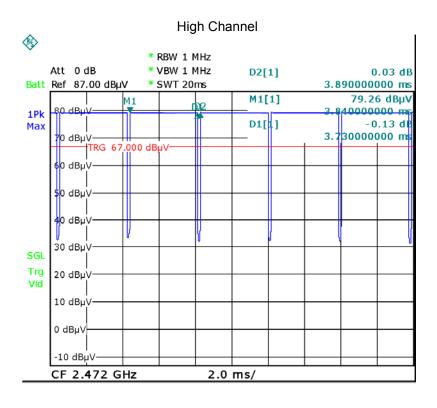
Duty Cycle(%)=Total On interval in a complete pulse train/ Length of a complete pulse train * % Duty Cycle Correction Factor(dB)=20 * Log₁₀(Duty Cycle)

Test Channel	Low Channel	Middle Channel	High Channel
Total transmission time(ms)	3.73	3.73	3.73
Length of a complete transmission period(ms)	3.89	3.89	3.89
Duty Cycle(%)	95.89	95.89	95.89
Duty Cycle Correction Factor(dB)	-0.36	-0.36	-0.36

Refer to the duty cycle plot (as below)







Reference No.: WTS16S0142003E Page 19 of 34

9 Outside of Band Emission

Test Requirement: 15.249(d):Emissions radiated outside of the specified frequency

bands, except for harmonics, shall be attenuated by at least 50 dB

below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Test Method: ANSI C63.10:2013

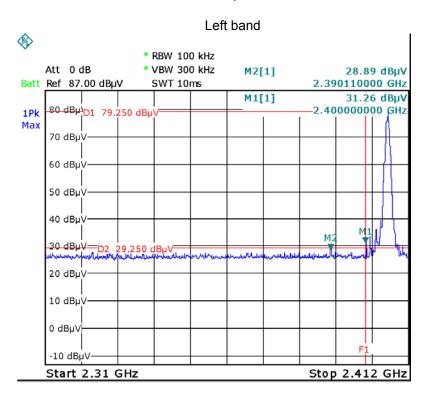
Test Mode: Transmitting

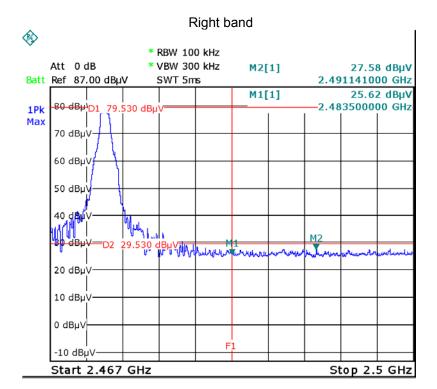
9.1 Test Procedure

Refer to section 7.4 of this test report.

9.2 Test Result

Test plots





Reference No.: WTS16S0142003E Page 21 of 34

10 20 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.215(c)

Test Method: ANSI C63.10:2013

Test Mode: Transmitting

10.1 Test Procedure

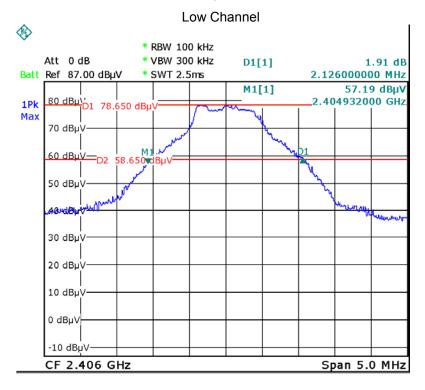
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

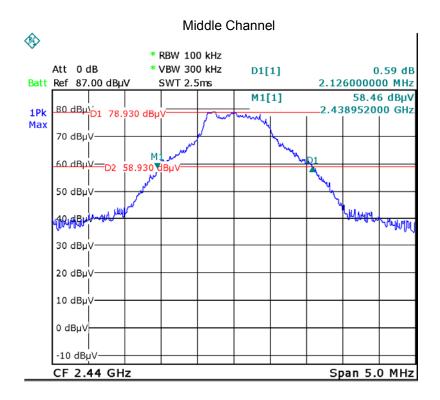
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

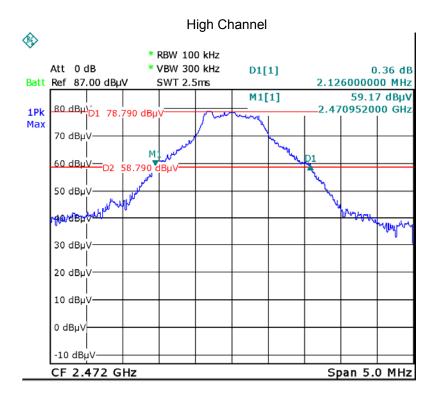
10.2 Test Result

Test Channel	Bandwidth		
low	2.126MHz		
Middle	2.126MHz		
high	2.126MHz		

Test plots







Reference No.: WTS16S0142003E Page 23 of 34

11 Antenna Requirement

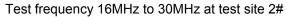
According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has a integrated Antenna, fulfil the requirement of this section.

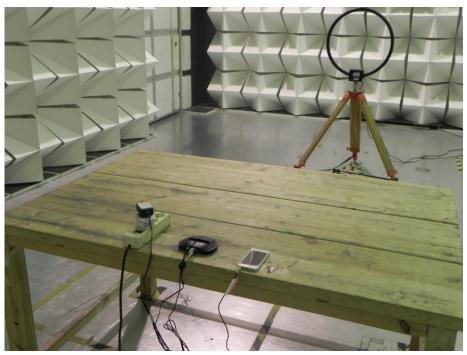
12 Photographs- YU-RF1000 Test Setup

12.1 Photograph – Conducted Emission Test Setup at Test Site 2#

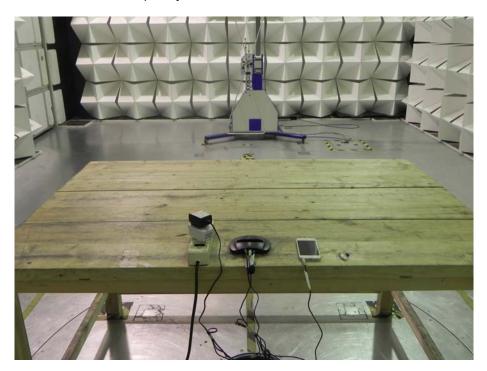


12.2 Radiation Emission





Test frequency from 30MHz to 1GHz at test site 2#



Test frequency above 1GHz to 18GHz at test site 1#



13 Photographs - Constructional Details

13.1 Model YU-RF1000- External Photos





Reference No.: WTS16S0142003E Page 27 of 34



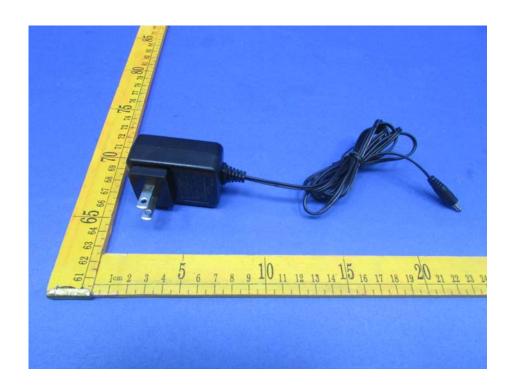


Reference No.: WTS16S0142003E Page 28 of 34





Reference No.: WTS16S0142003E Page 29 of 34

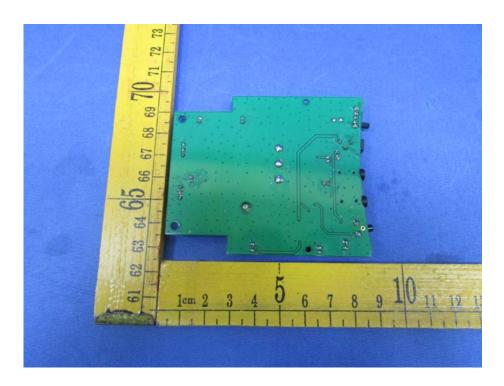




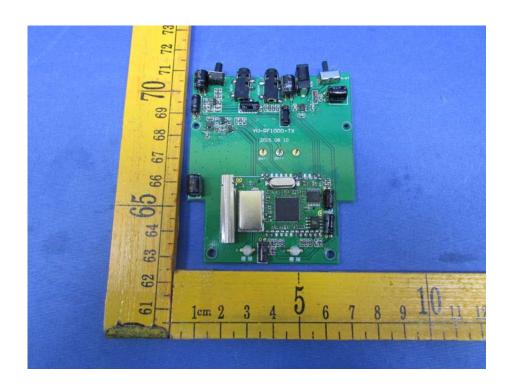
Reference No.: WTS16S0142003E Page 30 of 34

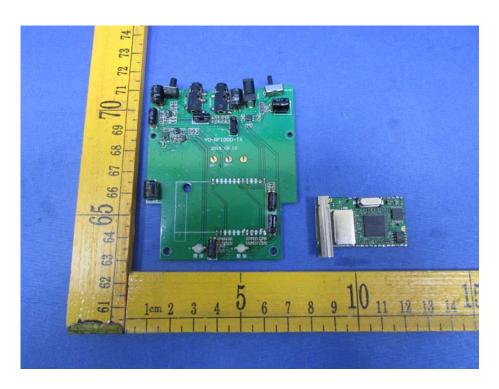
13.2 Model YU-RF1000- Internal Photos



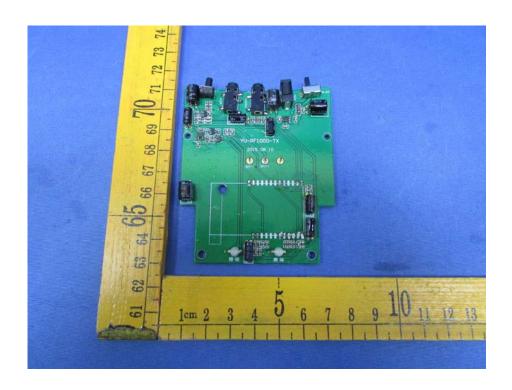


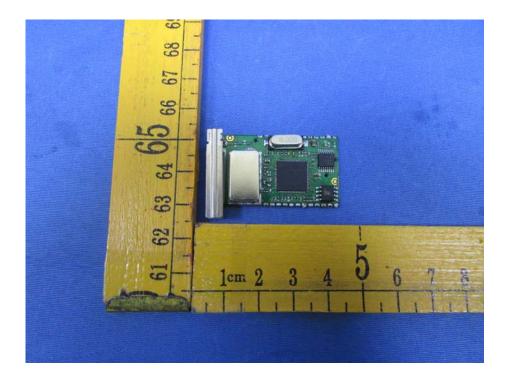
Reference No.: WTS16S0142003E Page 31 of 34



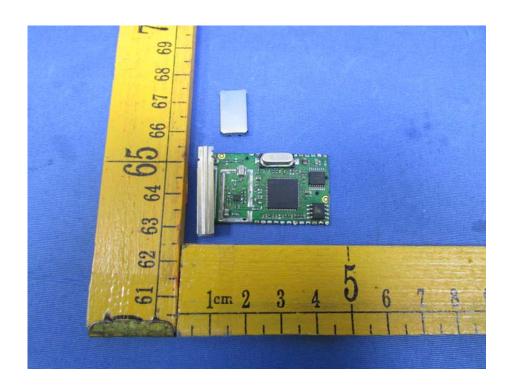


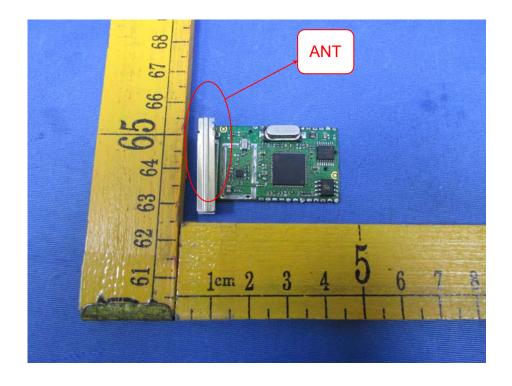
Reference No.: WTS16S0142003E Page 32 of 34



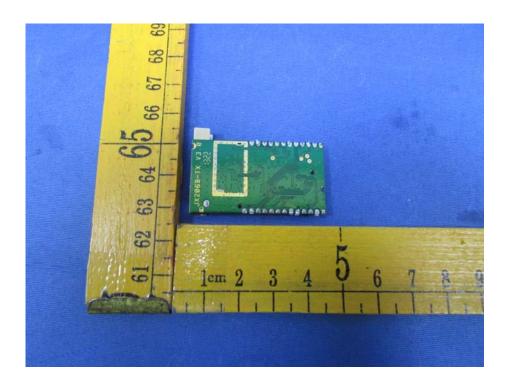


Reference No.: WTS16S0142003E Page 33 of 34





Reference No.: WTS16S0142003E Page 34 of 34



=====End of Report=====