TEST REPORT

Reference No	:	WTF15S0831496E
FCC ID	:	2AAPV-X620
Applicant	:	Foshan Xincode Electronics Technology Co., Ltd.
Address	:	3rd Floor, 4th Block, Yuxi Industrial Zone, Shi Hu Zhou, Sanshui District, Foshan, Guangdong, China
Manufacturer	:	The same as above.
Address	:	The same as above.
Product Name	:	wireless barcode scanner
Model No	:	X-620, X-620D, X-600, X-630A, X-988, X-4600W, X-7200W, X-9700W, GT-730W, GT-750W, X-660, X-9700B, X-620C
Standards	:	FCC CFR47 Part 15 Section 15.249: 2015
Date of Receipt sample	:	Aug. 07, 2015
Date of Test	:	Aug. 08 – Dec. 16, 2015
Date of Issue	:	Dec. 16, 2015
Test Result	:	Pass
Remarks: The results shown in this test	repo	rt refer only to the sample(s) tested, this test report cannot be

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:

Waltek Services (Shenzhen) Co., Ltd.

Address: 1/F., Fukangtai Building, West Baima Road, Songgang Street, Baoan District, Shenzhen, Guangdong, China

Tel:+86-755-83551033 Fax:+86-755-83552400

Compiled by: Approved by:

Zero Zhou / Test Engineer

Philo Zhong / Manager

Tarlo zhous

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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

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4 General Information

4.1 General Description of E.U.T.

Product Name : wireless barcode scanner

Model No. : X-620, X-620D, X-600, X-630A, X-988, X-4600W, X-7200W, X-

9700W, GT-730W, GT-750W, X-660, X-9700B, X-620C

Model Differences :All the models are the same circuit and RF module, There only

difference is product appearance and model name.

Type of Modulation : GFSK

Frequency Range : 2402-2478MHz

The Lowest Oscillator : 12MHz

Antenna installation : whip antenna

Remark :The test sample model is X-620.

4.2 Details of E.U.T.

Technical Data : DC 3.7V, 700mAh by battery

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	2402MHz	2440MHz	2478MHz

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5 Equipment Used during Test

5.1 Equipments 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(3.5 M)	-	Sep.15,2015	Sep.14,2016		
3m Sei	mi-anechoic Chaml	per for Radiation						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date		
1	EMC Analyzer	Agilent	E7405A	MY4511494 3	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	Ton	25MHz-18GHz	FW02014-7	Apr 10 2015	Apr 09 2016		

5.2 Description of Support Units

(above 1GHz)

8

Equipment	Manufacturer	Model No.
MacBook Air	Apple	A1465

Top

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
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)

25MHz-18GHz EW02014-7 Apr.10,2015

Apr.09,2016

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.

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6 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.4:2003

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit: 66-56 dB_µV between 0.15MHz & 0.5MHz

 $56 \text{ dB}_{\mu}\text{V}$ between 0.5MHz & 5MHz $60 \text{ dB}_{\mu}\text{V}$ between 5MHz & 30 MHz

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

6.1 E.U.T. Operation

Operating Environment:

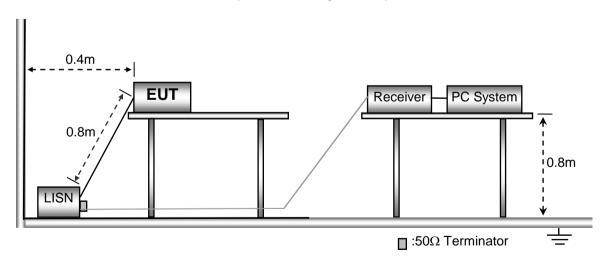
Temperature: 25.5 °C
Humidity: 51 % RH
Atmospheric Pressure: 101.2kPa

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.

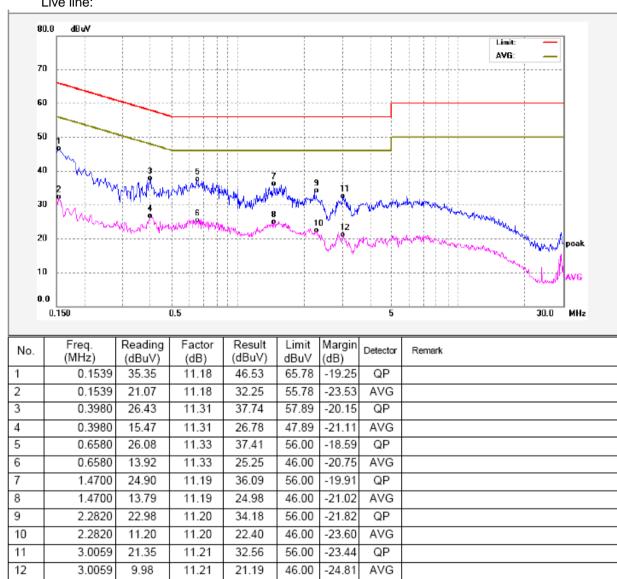


6.3 Measurement Description

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.

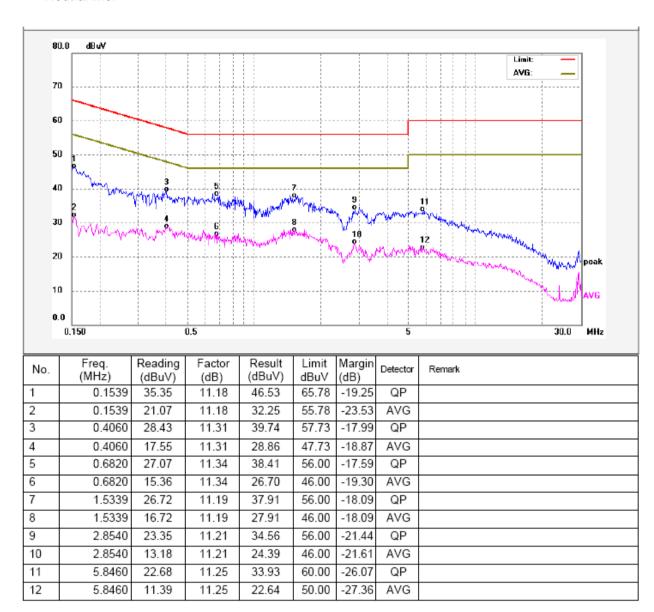
6.4 Test Result

Live line:



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Neutral line:



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7 Radiation Emission Test

Test Requirement: FCC Part15 Paragraph 15.249&15.209&15.205

Test Method: ANSI 63.4: 2003

Measurement Distance: 3m

Test Result: PASS

15.249(a)Limit:

1012 10 (0.) =					
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:

	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

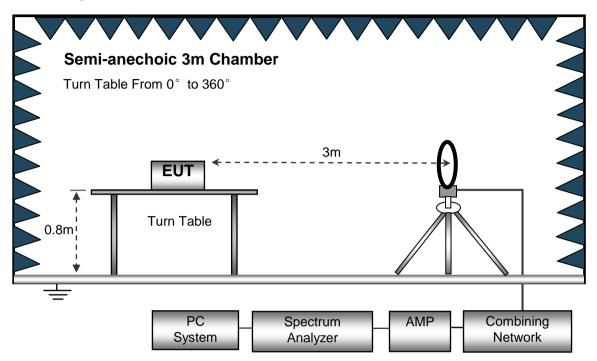
EUT Operation:

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

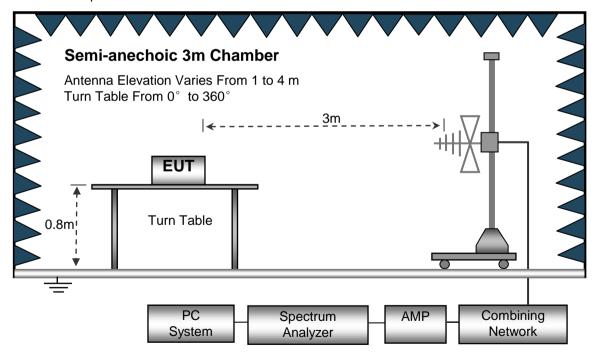
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003.

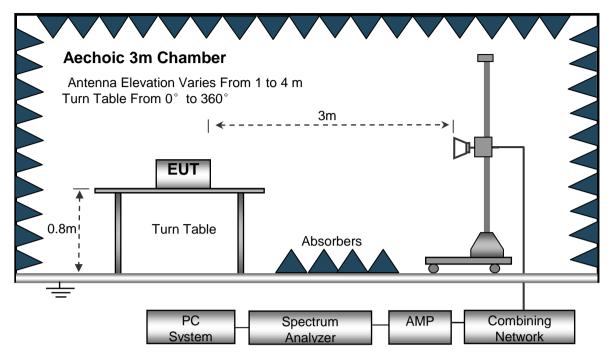
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz		
	Sweep Speed	10kHz
	Resolution Bandwidth	10kHz
30MHz ~ 1GHz	:	
	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

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7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m 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.

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7.5 Test Result

Test Frequency :12MHz~ 30MHz

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

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

	Receiver	Turn	RX An	tenna	Corrected	Corrected	FCC F 15.249/20	
Frequency	Reading (PK)	table Angle	Height	Polar	Factor	Amplitude (PK)	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2402.00	87.36	356	1.8	Н	-13.08	74.28	114.00	-39.72
2402.00	98.24	87	1.7	V	-13.08	85.16	114.00	-28.84
4804.00	51.36	89	1.9	Н	0.09	51.45	74.00	-22.55
4804.00	42.36	127	1.0	V	0.09	42.45	74.00	-31.55
7206.00	50.14	166	1.2	Н	3.01	53.15	74.00	-20.85
7206.00	46.98	127	1.6	V	3.01	49.99	74.00	-24.01
2484.37	52.65	150	1.7	Н	-13.08	39.57	74.00	-34.43
2484.37	45.41	219	1.6	V	-13.08	32.33	74.00	-41.67
2389.80	50.28	102	1.2	Н	-13.14	37.14	74.00	-36.86
2389.80	45.12	327	1.4	V	-13.14	31.98	74.00	-42.02

AV = Peak +20Log10(duty cycle) =Peak+(-13.57)[refer to section 8 for more detail]

Frequency PK		RX	Duty cycle	Calculated	FCC Part 15.249/209/205		
Frequency	PK	Antenna Polar	Factor	AV	Limit	Margin	
(MHz)	(dBµV/m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2402.00	74.28	Н	-13.57	60.71	94.00	-33.29	
2402.00	85.16	V	-13.57	71.59	94.00	-22.41	
4804.00	51.45	Н	-13.57	37.88	54.00	-16.12	
4804.00	42.45	V	-13.57	28.88	54.00	-25.12	
7206.00	53.15	Н	-13.57	39.58	54.00	-14.42	
7206.00	19.99	V	-13.57	6.42	54.00	-47.58	
2484.37	39.57	Н	-13.57	26.00	54.00	-28.00	
2484.37	32.33	V	-13.57	18.76	54.00	-35.24	
2389.80	37.14	Н	-13.57	23.57	54.00	-30.43	
2389.80	31.98	V	-13.57	18.41	54.00	-35.59	

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http://www.waltek.com.cn

Test Mode: Middle channel Transmitting

	Receiver	Turn	RX Antenna		0	0	FCC Part	
Frequency	Reading	table			Corrected	Corrected	15.249/2	09/205
	(PK)	Angle	Height	Polar	Factor	Amplitude (PK)	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2440.00	86.54	107	1.9	Н	-13.12	73.42	114.00	-40.58
2440.00	98.74	252	1.5	V	-13.12	85.62	114.00	-28.38
4880.00	50.23	170	1.2	Н	0.12	50.35	74.00	-23.65
4880.00	43.39	291	1.6	V	0.12	43.51	74.00	-30.49
7320.00	51.47	276	1.7	Н	3.06	54.53	74.00	-19.47
7320.00	46.97	158	1.1	V	3.06	50.03	74.00	-23.97
2483.75	51.25	107	1.4	Н	-13.08	38.17	74.00	-35.83
2483.75	44.17	63	1.8	V	-13.08	31.09	74.00	-42.91
2389.60	51.04	72	2.0	Н	-13.14	37.90	74.00	-36.10
2389.60	44.36	350	1.4	V	-13.14	31.22	74.00	-42.78

AV = Peak +20Log10(duty cycle) =Peak+(-13.15)[refer to section 8 for more detail]

		RX	Duty cycle	Calculated	FCC Part 15.249/209/205		
Frequency	Frequency PK		Factor	AV	Limit	Margin	
(MHz)	(dBµV/m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2440.00	73.42	Н	-13.15	60.27	94.00	-33.73	
2440.00	85.62	V	-13.15	72.47	94.00	-21.53	
4880.00	50.35	Н	-13.15	37.20	54.00	-16.80	
4880.00	43.51	V	-13.15	30.36	54.00	-23.64	
7320.00	54.53	Н	-13.15	41.38	54.00	-12.62	
7320.00	50.03	V	-13.15	36.88	54.00	-17.12	
2483.75	38.17	Н	-13.15	25.02	54.00	-28.98	
2483.75	31.09	V	-13.15	17.94	54.00	-36.06	
2389.60	37.90	Н	-13.15	24.75	54.00	-29.25	
2389.60	31.22	V	-13.15	18.07	54.00	-35.93	

Test Mode: High channel Transmitting

rest wode. Thigh 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)
2478.00	85.97	7	1.0	Н	-8.54	77.43	114.00	-36.57
2478.00	94.52	231	1.1	V	-8.54	85.98	114.00	-28.02
4956.00	51.34	104	1.9	Н	0.24	51.58	74.00	-22.42
4956.00	42.64	232	1.7	V	0.24	42.88	74.00	-31.12
7434.00	52.71	95	1.3	Н	3.13	55.84	74.00	-18.16
7434.00	45.06	291	2.0	V	3.13	48.19	74.00	-25.81
2483.79	52.28	210	1.5	Н	-13.08	39.20	74.00	-34.80
2483.79	43.67	41	1.5	V	-13.08	30.59	74.00	-43.41
2389.38	51.62	140	1.4	Н	-13.14	38.48	74.00	-35.52
2389.38	43.99	70	1.5	V	-13.14	30.85	74.00	-43.15

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

Fraguency	PK	RX	Duty cycle	Calculated	FCC Part 15.249/209/205		
Frequency	PK	Antenna Polar	Factor	AV	Limit	Margin	
(MHz)	(dBµV/m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2478.00	77.43	Н	-14.50	62.93	94.00	-31.07	
2478.00	85.98	V	-14.50	71.48	94.00	-22.52	
4956.00	51.58	Н	-14.50	37.08	54.00	-16.92	
4956.00	42.88	V	-14.50	28.38	54.00	-25.62	
7434.00	55.84	Н	-14.50	41.34	54.00	-12.66	
7434.00	48.19	V	-14.50	33.69	54.00	-20.31	
2483.79	39.20	Н	-14.50	24.70	54.00	-29.30	
2483.79	30.59	V	-14.50	16.09	54.00	-37.91	
2389.38	38.48	Н	-14.50	23.98	54.00	-30.02	
2389.38	30.85	V	-14.50	16.35	54.00	-37.65	

Test Frequency :From 18GHz to 25GHz

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

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8 Periodic Operation

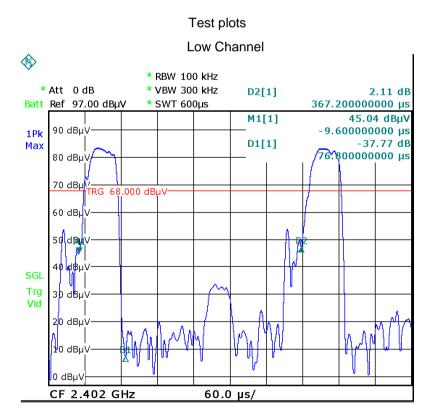
The duty cycle was determined by the following equation:

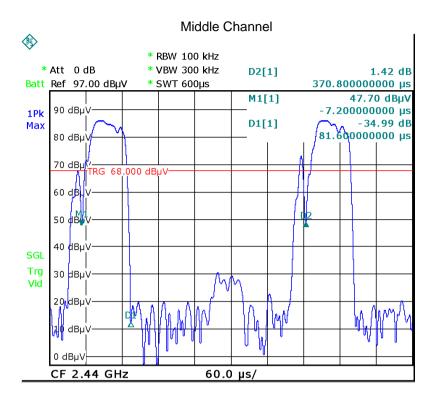
To calculate the actual field intensity, the duty cycle correction factor in decibel is needed for later use and can be obtained from following conversion

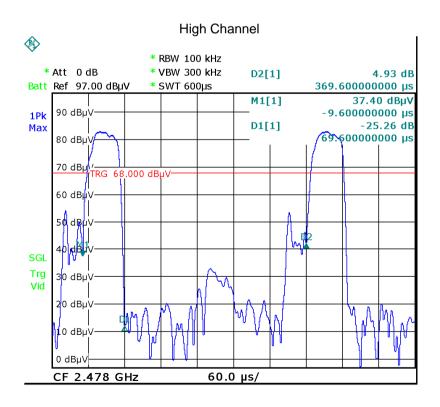
Duty Cycle(%)=Total On interval in a complete pulse train/ Length of a complete pulse train * % Duty Cycle Correction Factor(dB)=20 * Log₁₀(Duty Cycle)

Test Channel	Low	Middle	High
root onarmor	Channel	Channel	Channel
Total transmission time(us)	76.8	81.6	69.6
Length of a complete transmission period(us)	367.2	370.8	369.6
Duty Cycle(%)	20.92	22.01	18.83
Duty Cycle Correction Factor(dB)	-13.57	-13.15	-14.50

Refer to the duty cycle plot (as below)







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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 $\ensuremath{\text{dB}}$

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

Test Method: ANSI C63.4:2003

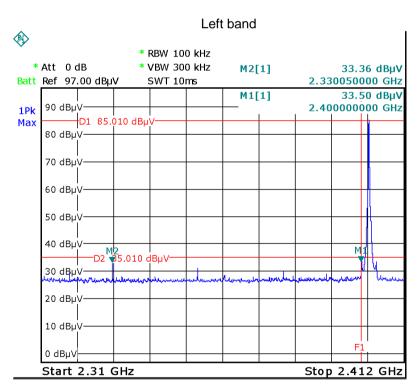
Test Mode: Transmitting

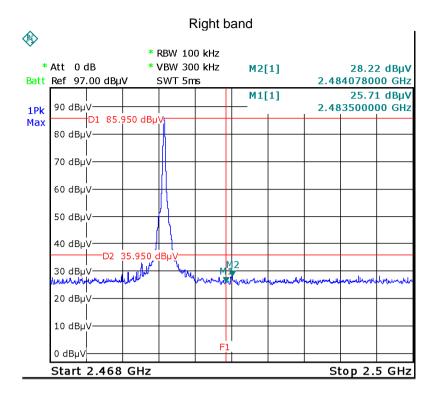
9.1 Test Procedure

Refer to section 7.4 of this test report.

9.2 Test Result

Test plots





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10 20 dB Bandwidth Measurement

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

Test Method: ANSI C63.4:2003

Test Mode: Transmitting

10.1 Test Procedure

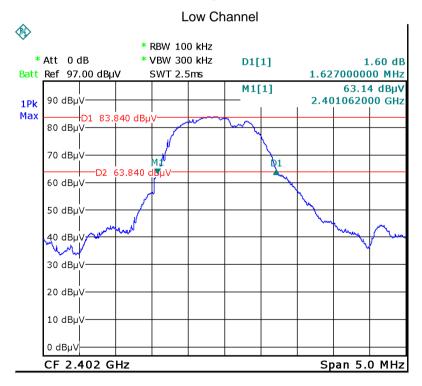
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

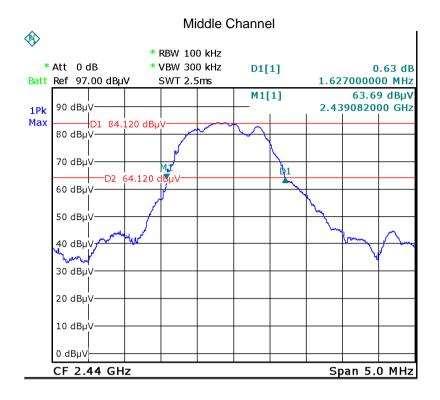
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

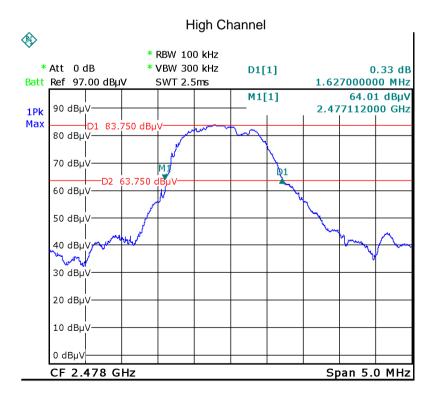
10.2 Test Result

Test Channel	Bandwidth			
low	1.627MHz			
Middle	1.627MHz			
high	1.627MHz			

Test plots







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11 Antenna Requirement

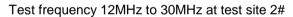
According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has a whip antenna, fulfil the requirement of this section.

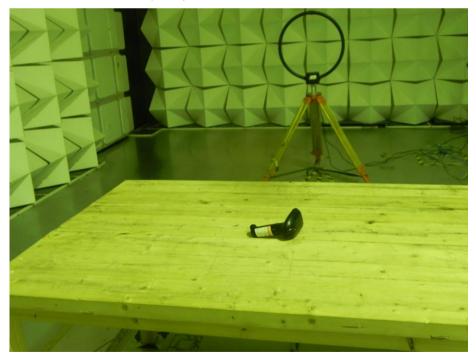
12 Photographs- Model X-620 Test Setup

12.1 Photograph - Conducted Emission Test Setup at Test Site 1#



12.2 Radiation Emission





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



Test frequency above 1GHz at test site 1#



13 Photographs - Constructional Details

13.1 Model X-620- External Photos





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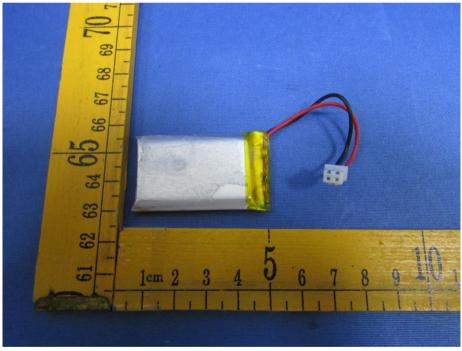
13.2 Model X-620- Internal Photos



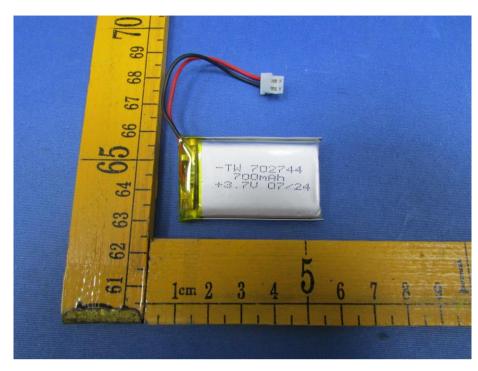


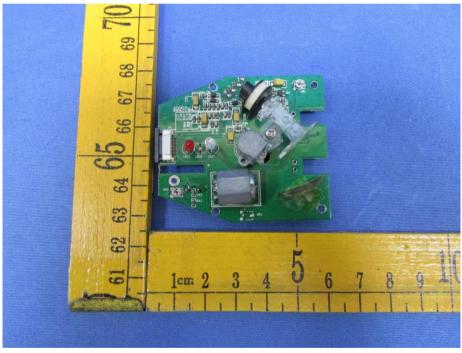
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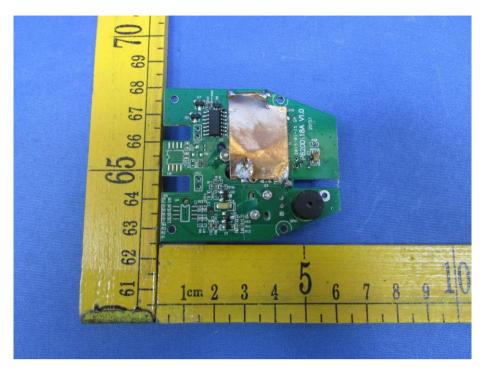


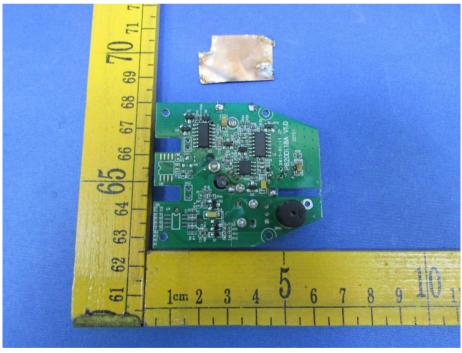
Reference No.: WTF15S0831496E Page 30 of 36



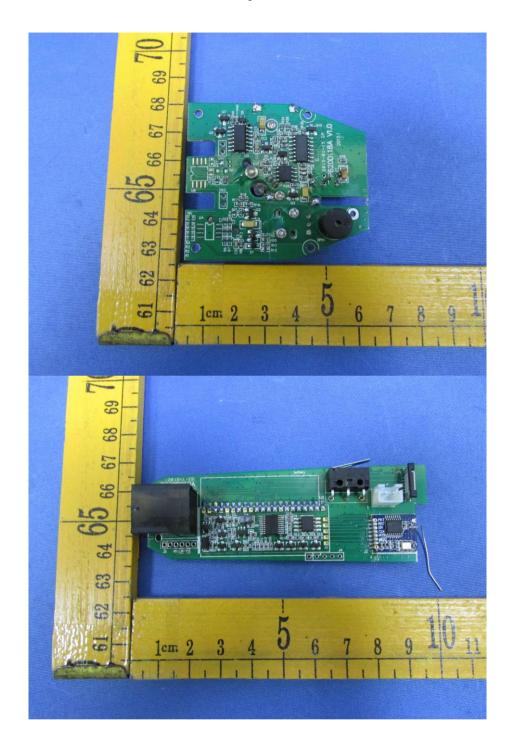


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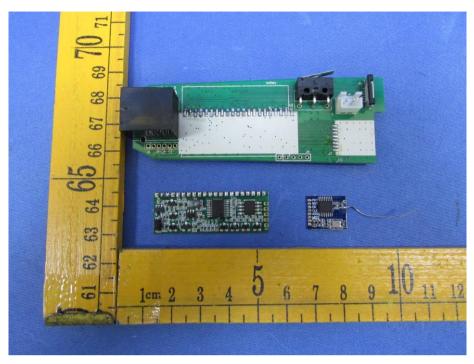


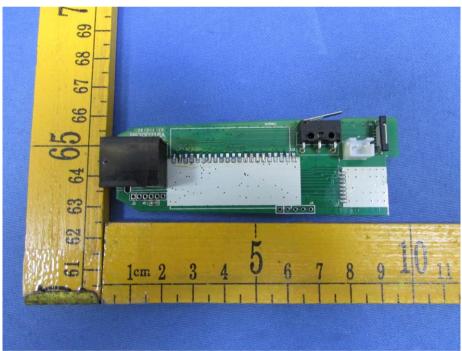


Reference No.: WTF15S0831496E Page 32 of 36

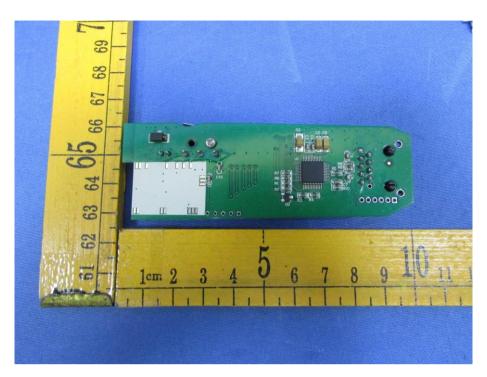


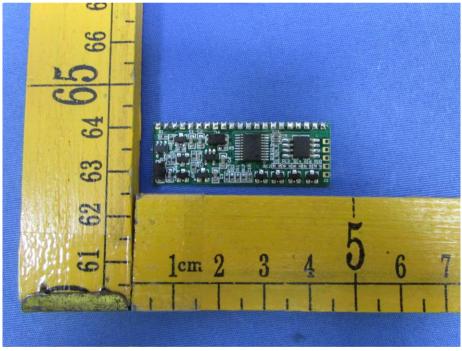
Reference No.: WTF15S0831496E Page 33 of 36



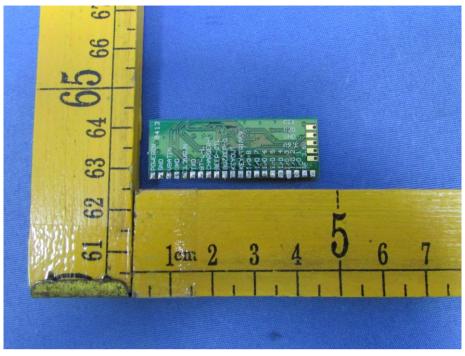


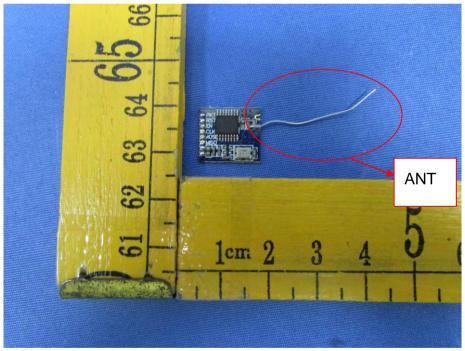
Reference No.: WTF15S0831496E Page 34 of 36



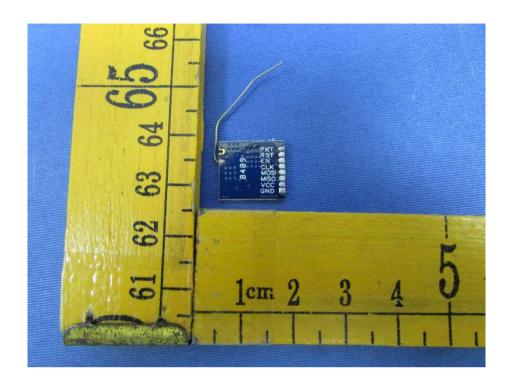


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====End of Report=====