



FCC REPORT

Applicant: CHINA ELECTRONIC TECHNOLOGY CO., LTD

Address of Applicant: 5F,NO.11, PINGDONG 4TH RD,NANPING HI TECH
INDUSTRIAL ZONE, ZHUHAI, GUANGDONG, CHINA

Equipment Under Test (EUT)

Product Name: Wireless SELF CAMERA MONOPOD

Model No.: NW-BS07

FCC ID: 2AED2NW-BS07

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2013

Date of sample receipt: March 11, 2015

Date of Test: March 11-19, 2015

Date of report issued: March 20, 2015

Test Result : PASS *

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

Authorized Signature:

Robinson Lo

Laboratory 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 and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	March 20, 2015	Original

Prepared By:

Sam. Gao

Date:

March 20, 2015

Project Engineer

Check By:

hank. yan

Date:

March 20, 2015

Reviewer

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	4
5 GENERAL INFORMATION	5
5.1 CLIENT INFORMATION	5
5.2 GENERAL DESCRIPTION OF EUT	5
5.3 TEST MODE	7
5.4 DESCRIPTION OF SUPPORT UNITS	7
5.5 TEST FACILITY.....	7
5.6 TEST LOCATION	7
5.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	7
6 TEST INSTRUMENTS LIST	8
7 TEST RESULTS AND MEASUREMENT DATA.....	9
7.1 ANTENNA REQUIREMENT	9
7.2 CONDUCTED EMISSIONS	10
7.3 RADIATED EMISSION METHOD	13
7.3.1 Field Strength of The Fundamental Signal	15
7.3.2 Spurious emissions.....	16
7.3.3 Bandedge emissions.....	20
7.4 20dB OCCUPY BANDWIDTH	21
8 TEST SETUP PHOTO	23
9 EUT CONSTRUCTIONAL DETAILS	25

4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.

5 General Information

5.1 Client Information

Applicant:	CHINA ELECTRONIC TECHNOLOGY CO., LTD
Address of Applicant:	5F,NO.11, PINGDONG 4TH RD,NANPING HI TECH INDUSTRIAL ZONE, ZHUHAI, GUANGDONG, CHINA
Manufacturer:	CHINA ELECTRONIC TECHNOLOGY CO., LTD
Address of Manufacturer:	5F,NO.11, PINGDONG 4TH RD,NANPING HI TECH INDUSTRIAL ZONE, ZHUHAI, GUANGDONG, CHINA

5.2 General Description of EUT

Product Name:	Wireless SELF CAMERA MONOPOD
Model No.:	NW-BS07
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK
Antenna Type:	PCB Antenna
Antenna gain:	0dBi
Power supply:	DC 3.7V

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	93.60	91.53	92.15

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup":

X axis (see the test setup photo)

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number
Emerson Network Power	USB Charger	A1299	N/A

5.5 Test Facility

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

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.7 Other Information Requested by the Customer

None.

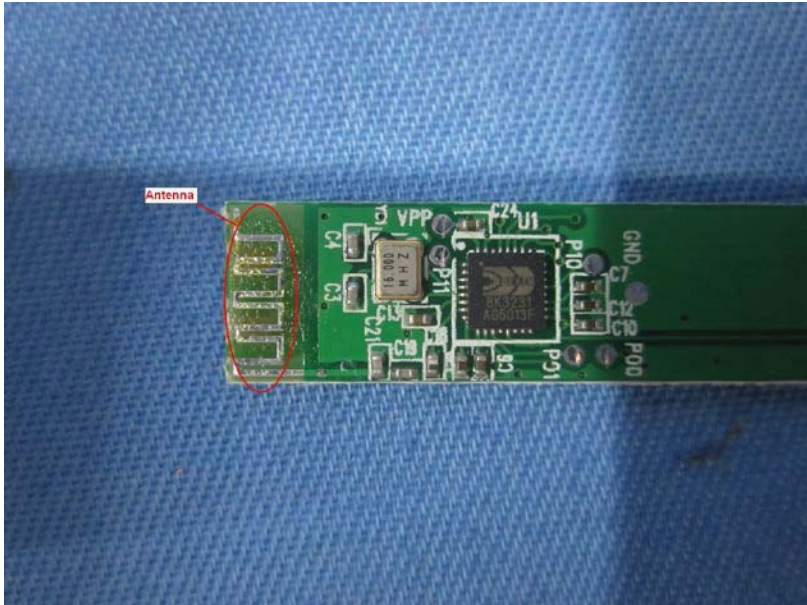
6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2014	Mar. 28 2015
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jul. 01 2014	Jun 30 2015
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 01 2014	Jun 30 2015
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jul. 01 2014	Jun 30 2015
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015
11	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 01 2014	Jun. 30, 2015
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 01 2014	Jun. 30, 2015
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015
16	Band filter	Amindeon	82346	GTS219	Mar. 29 2014	Mar. 28 2015

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	July 01 2014	June 30 2015
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

7 Test results and Measurement Data

7.1 Antenna requirement

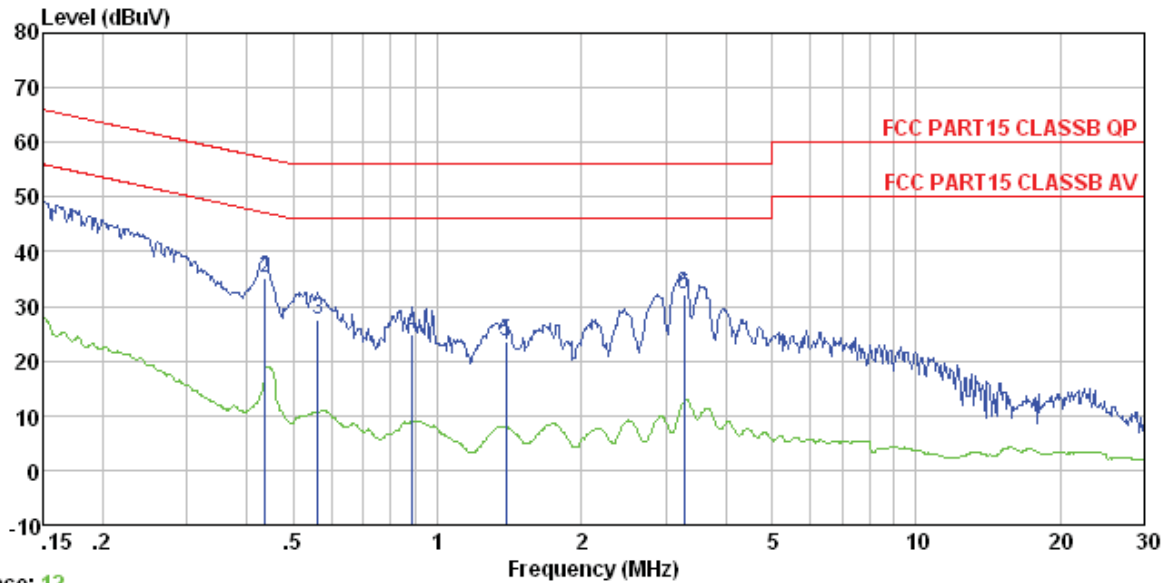
Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p>	
E.U.T Antenna:	
<p><i>The antenna is PCB Antenna, the best case gain of the antenna is 0dBi</i></p> 	

7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.4:2009																
Test Frequency Range:	150KHz to 30MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> <p>* Decreases with the logarithm of the frequency.</p>			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
Test setup:	<div><p>Reference Plane</p><p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>																
Test procedure:	<ol style="list-style-type: none">1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.																
Test Instruments:	Refer to section 6.0 for details																
Test mode:	Refer to section 5.3 for details																
Test results:	Pass																

Measurement data:

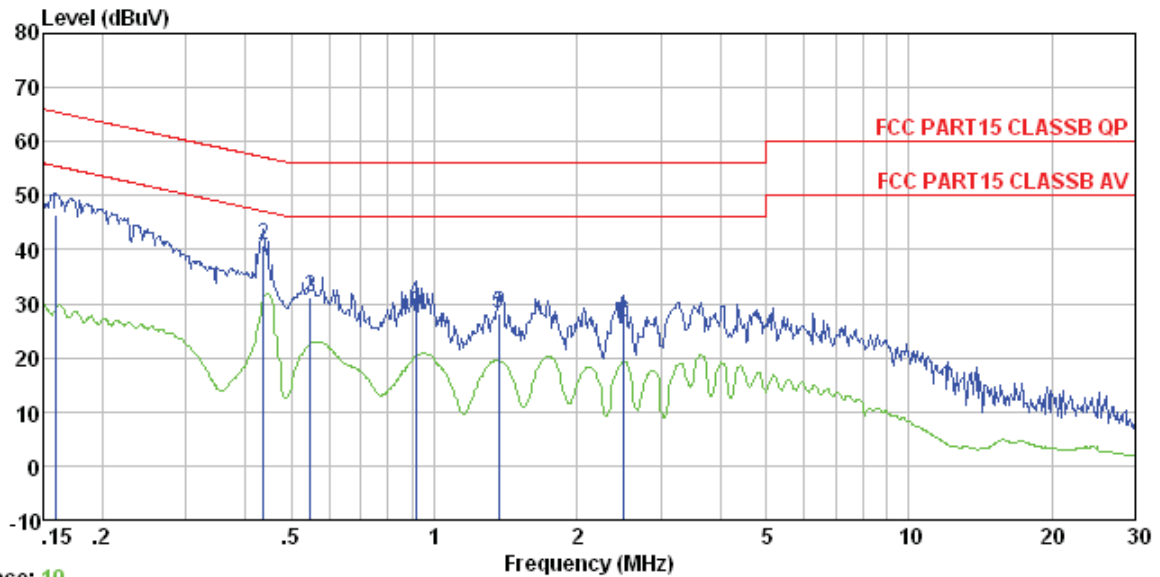
Line:



Site : Shielded room
 Condition : FCC PART15 CLASSB QP LISN-2013 LINE
 Job No. : 0238RF
 Test mode : Bluetooth mode
 Test Engineer: Mike
 Remark : Charger

	Freq	Read Level	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	44.95	0.12	45.22	66.00	-20.78	QP
2	0.437	34.82	0.11	35.05	57.11	-22.06	QP
3	0.564	27.31	0.12	27.56	56.00	-28.44	QP
4	0.885	24.61	0.13	24.88	56.00	-31.12	QP
5	1.388	23.15	0.13	23.40	56.00	-32.60	QP
6	3.276	31.70	0.15	32.02	56.00	-23.98	QP

Neutral:



Trace: 10

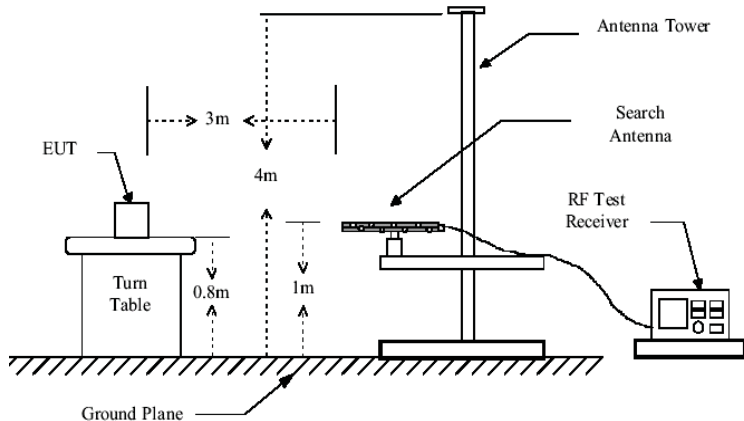
Site : Shielded room
 Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL
 Job No. : 0238RF
 Test mode : Bluetooth mode
 Test Engineer: Mike
 Remark : Charger

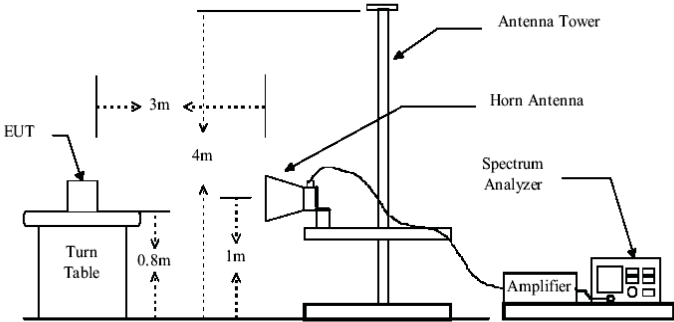
	Freq	Read Level	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.159	46.18	0.12	46.37	65.52	-19.15	QP
2	0.437	40.49	0.11	40.66	57.11	-16.45	QP
3	0.549	31.09	0.11	31.27	56.00	-24.73	QP
4	0.914	29.85	0.13	30.05	56.00	-25.95	QP
5	1.367	27.89	0.13	28.11	56.00	-27.89	QP
6	2.513	26.12	0.15	26.37	56.00	-29.63	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

7.3 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.4:2009				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	2400MHz-2483.5MHz		94.00		Average Value
			114.00		Peak Value
Limit: (Spurious Emissions)	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.00		Quasi-peak Value
	88MHz-216MHz		43.50		Quasi-peak Value
	216MHz-960MHz		46.00		Quasi-peak Value
	960MHz-1GHz		54.00		Quasi-peak Value
	Above 1GHz		54.00		Average Value
			74.00		Peak Value
Limit: (band edge)	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 Section 15.209, whichever is the lesser attenuation.				
Test setup:	Below 1GHz				
					
	Above 1GHz				

	 <p>The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a Turn Table at a height of 0.8m. The Turn Table is 3m away from the Antenna Tower. The Antenna Tower has a Horn Antenna at a height of 4m. A Spectrum Analyzer is connected to the Antenna Tower via an Amplifier. The Spectrum Analyzer is also connected to the Antenna Tower. The distance between the EUT and the Antenna Tower is 3m. The height of the Antenna Tower is 4m. The height of the Turn Table is 0.8m. The height of the Antenna is 1m.</p>
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Pass</p>

Measurement data:

7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	90.81	27.58	5.39	30.18	93.60	114.00	-20.40	Vertical
2402.00	88.44	27.58	5.39	30.18	91.23	114.00	-22.77	Horizontal
2441.00	89.24	27.55	5.43	30.06	92.16	114.00	-21.84	Vertical
2441.00	87.47	27.55	5.43	30.06	90.39	114.00	-23.62	Horizontal
2480.00	89.65	27.52	5.47	29.93	92.71	114.00	-21.29	Vertical
2480.00	88.87	27.52	5.47	29.93	91.93	114.00	-22.07	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	80.95	27.58	5.39	30.18	83.74	94.00	-10.26	Vertical
2402.00	78.45	27.58	5.39	30.18	81.24	94.00	-12.76	Horizontal
2441.00	79.10	27.55	5.43	30.06	82.02	94.00	-11.98	Vertical
2441.00	76.19	27.55	5.43	30.06	79.11	94.00	-14.89	Horizontal
2480.00	79.63	27.52	5.47	29.93	82.69	94.00	-11.31	Vertical
2480.00	78.97	27.52	5.47	29.93	82.03	94.00	-11.97	Horizontal

Remark: RBW 3MHz, VBW 10MHz , peak detector for PK value, RBW 3MHz, VBW 10MHz AV detector for AV value

7.3.2 Spurious emissions

■ Below 1GHz

Frequency (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	polarization
40.56	27.19	15.58	0.67	30.04	13.40	40.00	-26.60	Vertical
66.27	28.79	12.16	0.91	29.88	11.98	40.00	-28.02	Vertical
127.67	27.90	11.32	1.42	29.52	11.12	43.50	-32.38	Vertical
189.07	25.73	12.48	1.78	29.24	10.75	43.50	-32.75	Vertical
337.22	26.14	16.05	2.56	29.79	14.96	46.00	-31.04	Vertical
675.21	28.00	20.72	4.00	29.22	23.50	46.00	-22.50	Vertical
39.72	26.08	15.49	0.66	30.04	12.19	40.00	-27.81	Horizontal
96.10	27.97	14.90	1.16	29.72	14.31	43.50	-29.19	Horizontal
185.14	29.96	12.16	1.77	29.25	14.64	43.50	-28.86	Horizontal
487.32	24.65	18.26	3.25	29.33	16.83	46.00	-29.17	Horizontal
798.98	33.75	22.06	4.45	29.20	31.06	46.00	-14.94	Horizontal
318.82	29.54	15.33	2.46	29.89	17.44	46.00	-28.56	Horizontal

■ Above 1GHz

Test channel:	Lowest channel
---------------	----------------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	35.15	31.78	8.60	32.09	43.44	74.00	-30.56	Vertical
7206.00	30.40	36.15	11.65	32.00	46.20	74.00	-27.80	Vertical
9608.00	30.19	37.95	14.14	31.62	50.66	74.00	-23.34	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	38.99	31.78	8.60	32.09	47.28	74.00	-26.72	Horizontal
7206.00	31.96	36.15	11.65	32.00	47.76	74.00	-26.24	Horizontal
9608.00	29.41	37.95	14.14	31.62	49.88	74.00	-24.12	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	24.37	31.78	8.60	32.09	32.66	54.00	-21.34	Vertical
7206.00	19.33	36.15	11.65	32.00	35.13	54.00	-18.87	Vertical
9608.00	18.54	37.95	14.14	31.62	39.01	54.00	-14.99	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	28.36	31.78	8.60	32.09	36.65	54.00	-17.35	Horizontal
7206.00	21.36	36.15	11.65	32.00	37.16	54.00	-16.84	Horizontal
9608.00	18.09	37.95	14.14	31.62	38.56	54.00	-15.44	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.

Test channel:	Middle channel
---------------	----------------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	35.11	31.85	8.67	32.12	43.51	74.00	-30.49	Vertical
7323.00	30.37	36.37	11.72	31.89	46.57	74.00	-27.43	Vertical
9764.00	30.17	38.35	14.25	31.62	51.15	74.00	-22.85	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	38.95	31.85	8.67	32.12	47.35	74.00	-26.65	Horizontal
7323.00	31.93	36.37	11.72	31.89	48.13	74.00	-25.87	Horizontal
9764.00	29.39	38.35	14.25	31.62	50.37	74.00	-23.63	Horizontal
12205.00	*					74.00		Horizontal
14646.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	24.34	31.85	8.67	32.12	32.74	54.00	-21.26	Vertical
7323.00	19.31	36.37	11.72	31.89	35.51	54.00	-18.49	Vertical
9764.00	18.52	38.35	14.25	31.62	39.50	54.00	-14.50	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	28.33	31.85	8.67	32.12	36.73	54.00	-17.27	Horizontal
7323.00	21.34	36.37	11.72	31.89	37.54	54.00	-16.46	Horizontal
9764.00	18.07	38.35	14.25	31.62	39.05	54.00	-14.95	Horizontal
12205.00	*					54.00		Horizontal
14646.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.

Test channel:	Highest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	34.95	31.93	8.73	32.16	43.45	74.00	-30.55	Vertical
7440.00	30.27	36.59	11.79	31.78	46.87	74.00	-27.13	Vertical
9920.00	30.08	38.81	14.38	31.88	51.39	74.00	-22.61	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	38.75	31.93	8.73	32.16	47.25	74.00	-26.75	Horizontal
7440.00	31.81	36.59	11.79	31.78	48.41	74.00	-25.59	Horizontal
9920.00	29.28	38.81	14.38	31.88	50.59	74.00	-23.41	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	24.22	31.93	8.73	32.16	32.72	54.00	-21.28	Vertical
7440.00	19.23	36.59	11.79	31.78	35.83	54.00	-18.17	Vertical
9920.00	18.45	38.81	14.38	31.88	39.76	54.00	-14.24	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	28.19	31.93	8.73	32.16	36.69	54.00	-17.31	Horizontal
7440.00	21.25	36.59	11.79	31.78	37.85	54.00	-16.15	Horizontal
9920.00	17.99	38.81	14.38	31.88	39.30	54.00	-14.70	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.

7.3.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	44.33	27.59	5.38	30.18	47.12	74.00	-26.88	Horizontal
2400.00	61.32	27.58	5.39	30.18	64.11	74.00	-9.89	Horizontal
2390.00	45.01	27.59	5.38	30.18	47.80	74.00	-26.20	Vertical
2400.00	63.51	27.58	5.39	30.18	66.30	74.00	-7.70	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	34.55	27.59	5.38	30.18	37.34	54.00	-16.66	Horizontal
2400.00	45.87	27.58	5.39	30.18	48.66	54.00	-5.34	Horizontal
2390.00	34.60	27.59	5.38	30.18	37.39	54.00	-16.61	Vertical
2400.00	47.66	27.58	5.39	30.18	50.45	54.00	-3.55	Vertical

Test channel:	Highest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.60	27.53	5.47	29.93	49.67	74.00	-24.33	Horizontal
2500.00	45.50	27.55	5.49	29.93	48.61	74.00	-25.39	Horizontal
2483.50	47.69	27.53	5.47	29.93	50.76	74.00	-23.24	Vertical
2500.00	46.64	27.55	5.49	29.93	49.75	74.00	-24.25	Vertical

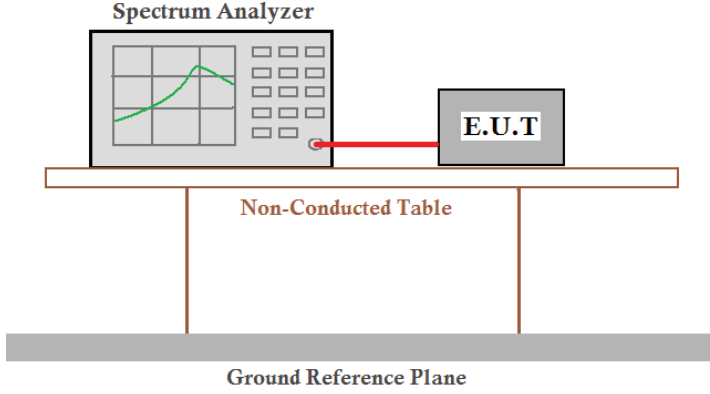
Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.39	27.53	5.47	29.93	40.46	54.00	-13.54	Horizontal
2500.00	35.19	27.55	5.49	29.93	38.30	54.00	-15.70	Horizontal
2483.50	38.73	27.53	5.47	29.93	41.80	54.00	-12.20	Vertical
2500.00	35.23	27.55	5.49	29.93	38.34	54.00	-15.66	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.4:2009
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

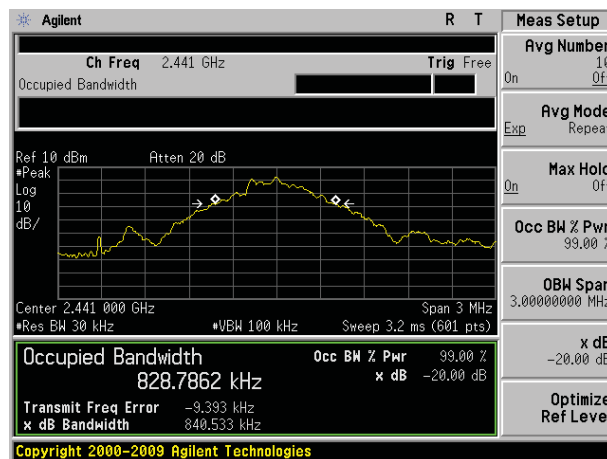
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	0.841	Pass
Middle	0.841	Pass
Highest	0.840	Pass

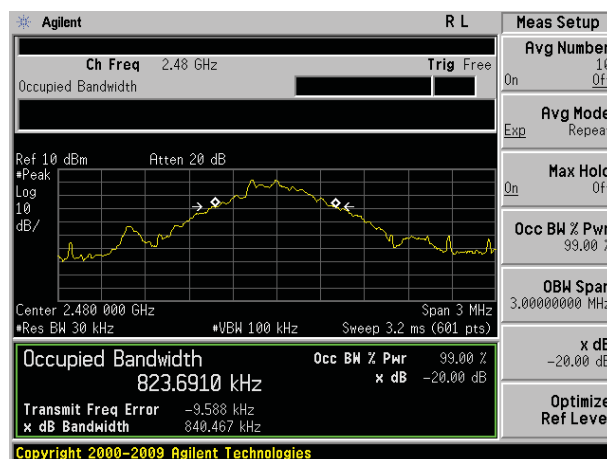
Test plot as follows:



Lowest channel



Middle channel



Highest channel

8 Test Setup Photo

Radiated Emission



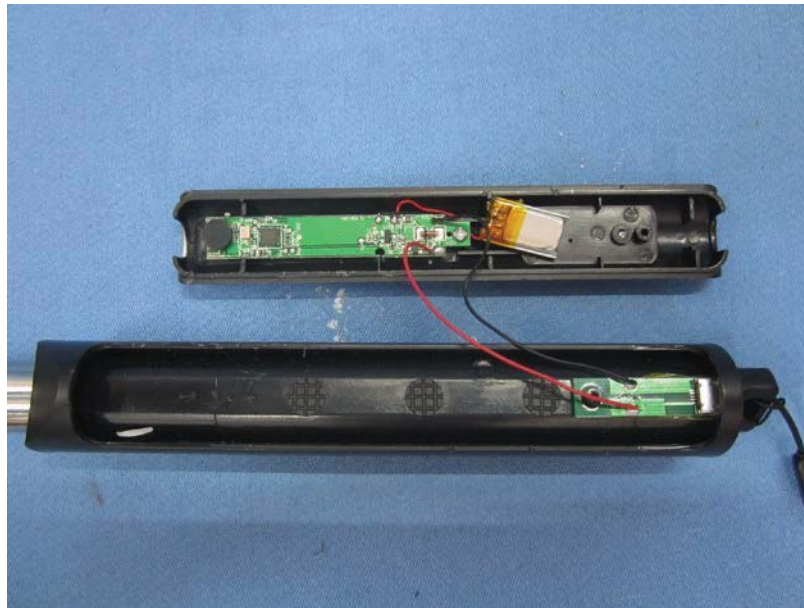
Conducted Emissions

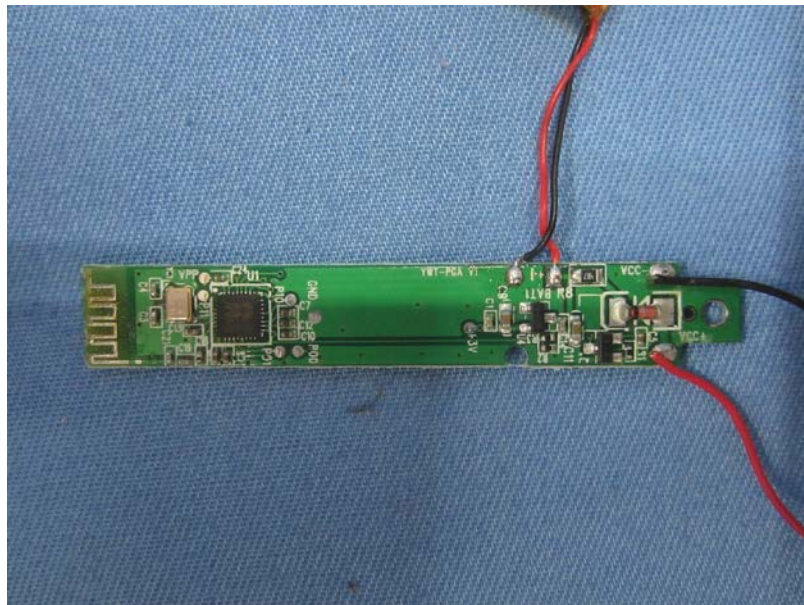
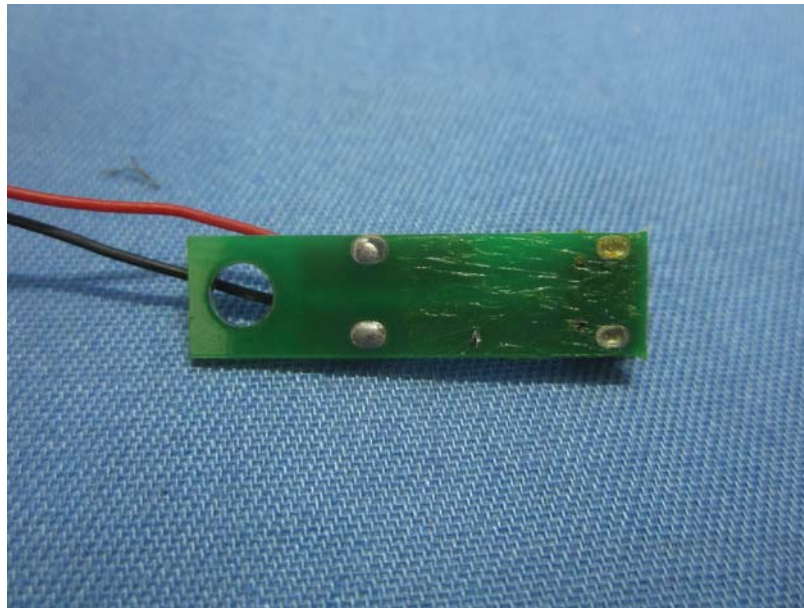


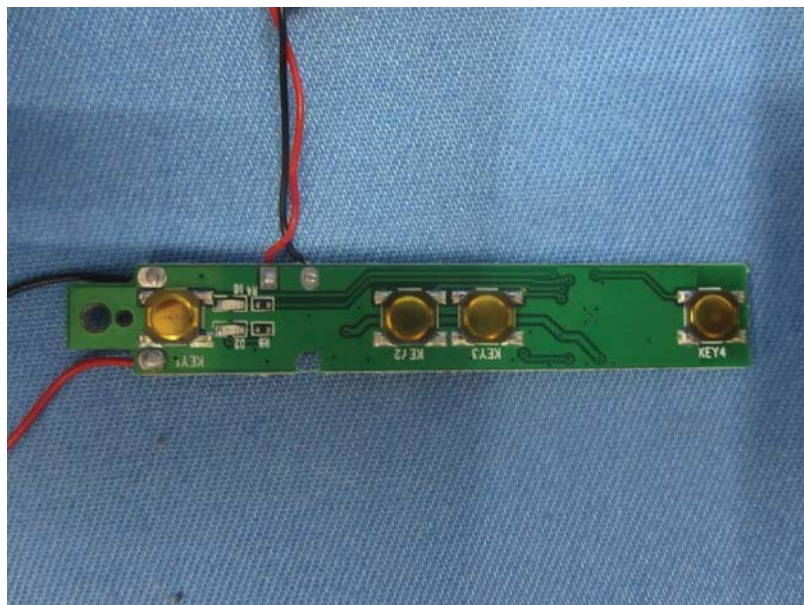
9 EUT Constructional Details

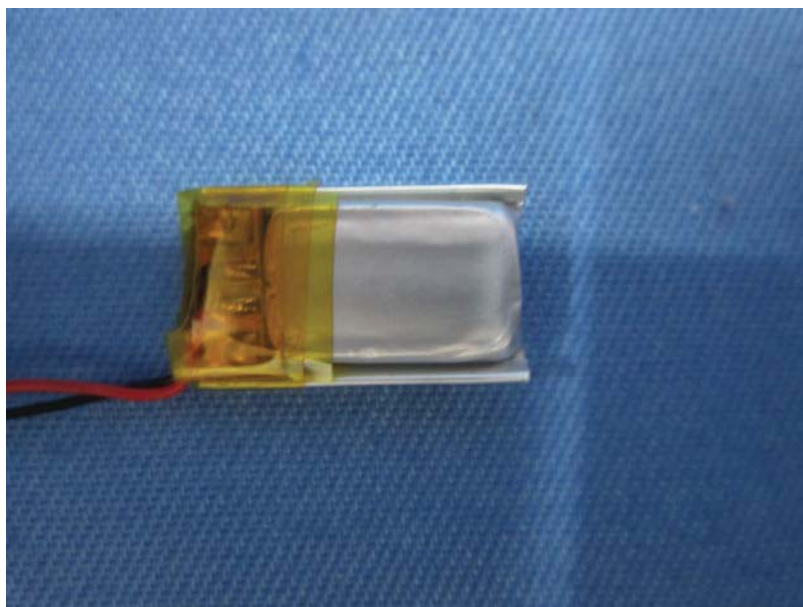












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