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Report No.: FCC13-RTE120701
Page 1 of 29

FCC REPORT

Applicant: QINGDAO YEELINK INFORMATION TECHNOLOGY CO., LTD

Address of Applicant: Room 1108, Building 1, 61 Haier Rd., Qingdao 266101, China

Equipment Under Test (EUT)

Product Name: YEELIGHT BLUE

Model No.: BUL0201

Trade Mark: ----

FCC ID: 2ABEUBUL27BL01

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2012

Date of sample receipt: November 22, 2013

Date of Test: November 25 - December 5, 2013

Date of report issued: December 6, 2013

Test Result : PASS *

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

Authorized Signature:

Kevin Yu
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 EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



2 Version

Version No.	Date	Description
00	December 06, 2013	Original

Prepared By:

Date:

December 06, 2013

Project Engineer

Check By:

Date:

December 06, 2013

Reviewer

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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.

N/A: not applicable.



5 General Information

5.1 Client Information

Applicant:	QINGDAO YEELINK INFORMATION TECHNOLOGY CO., LTD
Address of Applicant:	Room 1108, Building 1, 61 Haier Rd, Qingdao 266101, China
Manufacturer/Factory:	QINGDAO YEELINK INFORMATION TECHNOLOGY CO., LTD
Address of Manufacturer/Factory:	Room 1108, Building 1, 61 Haier Rd, Qingdao 266101, China

5.2 General Description of EUT

Product Name:	YEELIGHT BLUE
Model No.:	BUL0201
Bluetooth Version:	V4.0 (Bluetooth Low Energy)
Operation Frequency:	2402- 2480 MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation type:	GFSK
Antenna Type:	Integral
Antenna gain:	0dBi (declare by Applicant)
Power supply:	100~240V~,50/60Hz, 6W

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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

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	2440MHz
The Highest channel	2480MHz

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode with GFSK modulation.
<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)	96.16	94.57	92.33
Final Test Mode:			
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”: Y axis (see the test setup photo)			

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5.4 Description of Support Units

None.

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: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

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 2013	Mar. 28 2014
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	Dec. 6, 2013	Dec. 5, 2014
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 02 2013	Jul. 01 2014
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 24 2013	Feb. 23 2014
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2013	June 27 2014
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 29 2013	Mar. 28 2014
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 30 2013	Mar. 29 2014
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 30 2013	Mar. 29 2014
11	Coaxial cable	GTS	N/A	GTS210	Mar. 30 2013	Mar. 29 2014
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 30 2013	Mar. 29 2014
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 02 2013	Jul. 01 2014
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 02 2013	Jul. 01 2014
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2013	June 27 2014
16	Band filter	Amindeon	82346	GTS219	Mar. 30 2013	Mar. 29 2014

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	Sep. 07 2013	Sep. 06 2015
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 02 2013	Jul. 01 2014
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 02 2013	Jul. 01 2014
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 02 2013	Jul. 01 2014
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 02 2013	Jul. 01 2014
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 02 2013	Jul. 01 2014
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 09 2013	July 08 2014

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7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: 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.	
E.U.T Antenna: <i>The antenna is Integral Antenna, the best case gain of the antenna is 0dBi.</i>	



7.2 Conducted Emissions

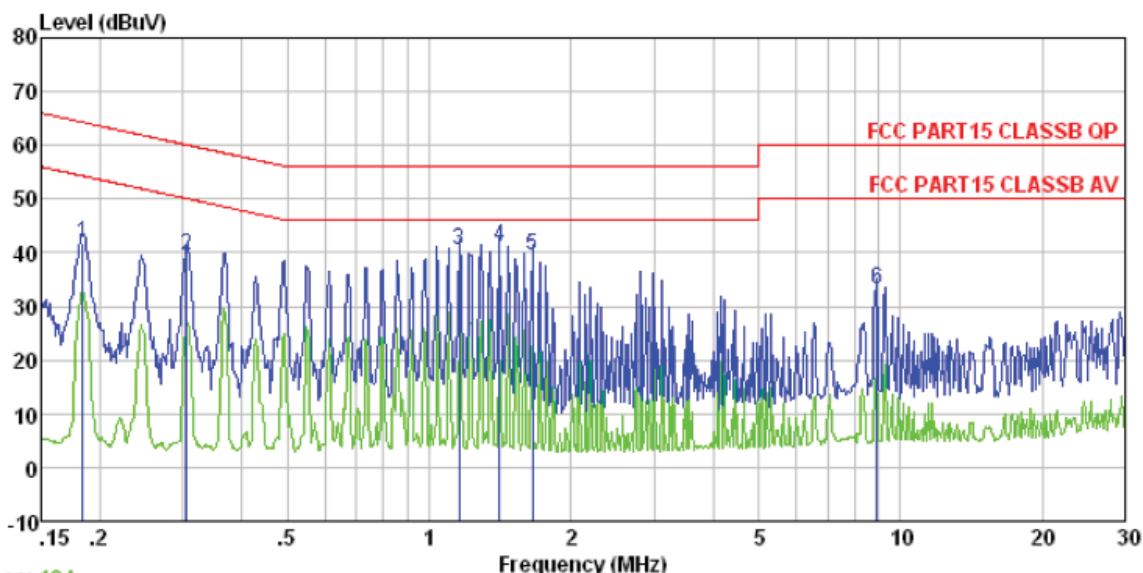
Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.4:2003														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <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> </tbody> </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:	<p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test procedure:	<ol style="list-style-type: none"> The E.U.T and simulators are 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. 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). 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: 2003 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:

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Line:



Trace: 184

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Test Mode : Bluetooth mode

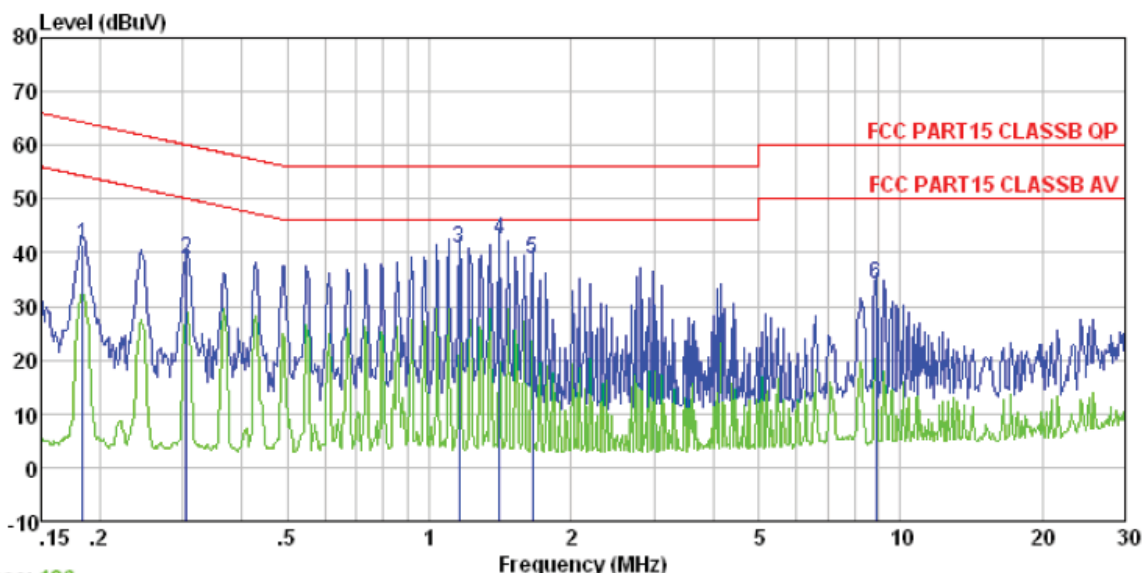
Test Engineer: Bing

	Read Freq	LISN Level	Cable Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.183	41.46	0.14	0.13	41.73	64.33	-22.60	QP
2	0.305	39.31	0.11	0.10	39.52	60.10	-20.58	QP
3	1.160	40.24	0.13	0.13	40.50	56.00	-15.50	QP
4	1.411	41.05	0.12	0.13	41.30	56.00	-14.70	QP
5	1.654	39.29	0.12	0.14	39.55	56.00	-16.45	QP
6	8.916	32.86	0.28	0.19	33.33	60.00	-26.67	QP

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Neutral



Trace: 186
 Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL
 Test Mode : Bluetooth mode
 Test Engineer: Bing

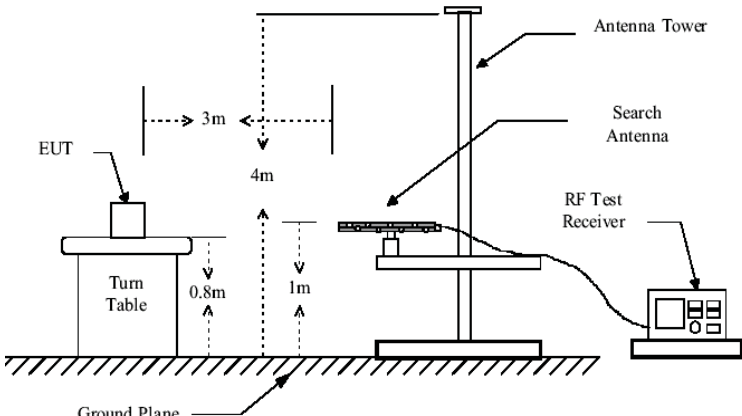
	Read Freq	LISN Level	Cable Factor	Cable Loss	Limit Level	Over Line	Remark
	MHz	dBuV	dB	dB	dBuV	dB	
1	0.183	41.13	0.07	0.13	41.33	64.33	-23.00 QP
2	0.305	38.77	0.06	0.10	38.93	60.10	-21.17 QP
3	1.160	40.60	0.08	0.13	40.81	56.00	-15.19 QP
4	1.411	42.12	0.09	0.13	42.34	56.00	-13.66 QP
5	1.654	38.46	0.09	0.14	38.69	56.00	-17.31 QP
6	8.869	33.75	0.21	0.19	34.15	60.00	-25.85 QP

Notes:

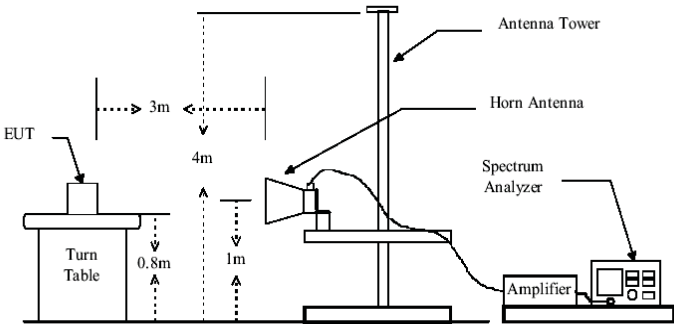
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak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

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7.3 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209			
Test Method:	ANSI C63.4:2003			
Test Frequency Range:	30MHz to 25GHz			
Test site:	Measurement Distance: 3m			
Receiver setup:	Frequency	Detector	RBW	VBW
	30MHz-1GHz	Quasi-peak	120KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
		Peak	1MHz	10Hz
For field strength test, the RBW and VBW were set to 2MHz and 6MHz.				
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	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:	<p>Below 1GHz</p>  <p>Above 1GHz</p>			

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<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:

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7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	91.96	27.58	5.39	30.18	94.75	114.00	-19.25	Vertical
2402.00	89.39	27.58	5.39	30.18	92.18	114.00	-21.82	Horizontal
2440.00	90.28	27.55	5.43	30.06	93.20	114.00	-20.80	Vertical
2440.00	88.39	27.55	5.43	30.06	91.31	114.00	-22.69	Horizontal
2480.00	93.10	27.52	5.47	29.93	96.16	114.00	-17.84	Vertical
2480.00	89.94	27.52	5.47	29.93	93.00	114.00	-21.00	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	80.98	27.58	5.39	30.18	83.77	94.00	-10.23	Vertical
2402.00	78.48	27.58	5.39	30.18	81.27	94.00	-12.73	Horizontal
2440.00	79.13	27.55	5.43	30.06	82.05	94.00	-11.95	Vertical
2440.00	76.22	27.55	5.43	30.06	79.14	94.00	-14.86	Horizontal
2480.00	82.20	27.52	5.47	29.93	85.26	94.00	-8.74	Vertical
2480.00	79.00	27.52	5.47	29.93	82.06	94.00	-11.94	Horizontal

According to the follow transmitter output power (P_t) formula:

$$P_t = (E \times d)^2 / (30 \times g_t)$$

P_t =transmitter output power in watts

g_t =numeric gain of the transmitting antenna (unitless)

E=electric field strength in V/m

d= measurement distance in meters (m).

According to the above test data, Emax=96.16dBuV/m=0.064V/m, d=3m, g_t=1

$$P_t = (E \times d)^2 / (30 \times g_t) = (0.064 \times 3)^2 / (30 \times 1) = 0.0012391W = 1.2391mW$$

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7.3.2 Spurious emissions

Measurement Data:

Below 1GHz

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
34.88	48.60	14.30	0.61	32.06	31.45	40.00	-8.55	Vertical
53.88	47.57	15.07	0.81	31.95	31.50	40.00	-8.50	Vertical
80.36	55.34	10.69	1.03	31.76	35.30	40.00	-4.70	Vertical
166.07	58.62	10.85	1.66	32.04	39.09	43.50	-4.41	Vertical
210.05	56.93	12.87	1.90	32.15	39.55	43.50	-3.95	Vertical
370.70	50.54	16.51	2.72	31.97	37.80	46.00	-8.20	Vertical
71.83	54.69	10.32	0.96	31.85	34.12	40.00	-5.88	Horizontal
78.41	53.55	10.31	1.01	31.78	33.09	40.00	-6.91	Horizontal
131.30	56.43	10.82	1.44	31.91	36.78	43.50	-6.72	Horizontal
168.41	58.62	10.92	1.68	32.05	39.17	43.50	-4.33	Horizontal
187.75	53.59	12.32	1.78	32.11	35.58	43.50	-7.92	Horizontal
390.72	54.22	16.87	2.81	31.91	41.99	46.00	-4.01	Horizontal

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■ Above 1GHz

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	36.86	31.78	8.60	32.09	45.15	74.00	-28.85	Vertical
7206.00	31.54	36.15	11.65	32.00	47.34	74.00	-26.66	Vertical
9608.00	31.21	37.95	14.14	31.62	51.68	74.00	-22.32	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	41.06	31.78	8.60	32.09	49.35	74.00	-24.65	Horizontal
7206.00	33.25	36.15	11.65	32.00	49.05	74.00	-24.95	Horizontal
9608.00	30.59	37.95	14.14	31.62	51.06	74.00	-22.94	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	25.76	31.78	8.60	32.09	34.05	54.00	-19.95	Vertical
7206.00	20.27	36.15	11.65	32.00	36.07	54.00	-17.93	Vertical
9608.00	19.38	37.95	14.14	31.62	39.85	54.00	-14.15	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	29.94	31.78	8.60	32.09	38.23	54.00	-15.77	Horizontal
7206.00	22.42	36.15	11.65	32.00	38.22	54.00	-15.78	Horizontal
9608.00	19.07	37.95	14.14	31.62	39.54	54.00	-14.46	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier 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.

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Test channel:	Middle channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	37.27	31.85	8.67	32.12	45.67	74.00	-28.33	Vertical
7320.00	31.81	36.37	11.72	31.89	48.01	74.00	-25.99	Vertical
9760.00	31.45	38.35	14.25	31.62	52.43	74.00	-21.57	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	41.55	31.85	8.67	32.12	49.95	74.00	-24.05	Horizontal
7320.00	33.56	36.37	11.72	31.89	49.76	74.00	-24.24	Horizontal
9760.00	30.87	38.35	14.25	31.62	51.85	74.00	-22.15	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	26.11	31.85	8.67	32.12	34.51	54.00	-19.49	Vertical
7320.00	20.51	36.37	11.72	31.89	36.71	54.00	-17.29	Vertical
9760.00	19.59	38.35	14.25	31.62	40.57	54.00	-13.43	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	30.33	31.85	8.67	32.12	38.73	54.00	-15.27	Horizontal
7320.00	22.68	36.37	11.72	31.89	38.88	54.00	-15.12	Horizontal
9760.00	19.31	38.35	14.25	31.62	40.29	54.00	-13.71	Horizontal
12200.00	*					54.00		Horizontal
14640.00	*					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.

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Test channel:	Highest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	36.48	31.93	8.73	32.16	44.98	74.00	-29.02	Vertical
7440.00	31.29	36.59	11.79	31.78	47.89	74.00	-26.11	Vertical
9920.00	30.98	38.81	14.38	31.88	52.29	74.00	-21.71	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	40.60	31.93	8.73	32.16	49.10	74.00	-24.90	Horizontal
7440.00	32.97	36.59	11.79	31.78	49.57	74.00	-24.43	Horizontal
9920.00	30.33	38.81	14.38	31.88	51.64	74.00	-22.36	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.52	31.93	8.73	32.16	34.02	54.00	-19.98	Vertical
7440.00	20.11	36.59	11.79	31.78	36.71	54.00	-17.29	Vertical
9920.00	19.23	38.81	14.38	31.88	40.54	54.00	-13.46	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.66	31.93	8.73	32.16	38.16	54.00	-15.84	Horizontal
7440.00	22.23	36.59	11.79	31.78	38.83	54.00	-15.17	Horizontal
9920.00	18.90	38.81	14.38	31.88	40.21	54.00	-13.79	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.

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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
---------------	----------------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	39.55	27.59	5.38	30.18	42.34	74.00	-31.66	Horizontal
2400.00	55.86	27.58	5.39	30.18	58.65	74.00	-15.35	Horizontal
2390.00	39.78	27.59	5.38	30.18	42.57	74.00	-31.43	Vertical
2400.00	57.54	27.58	5.39	30.18	60.33	74.00	-13.67	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	30.85	27.59	5.38	30.18	33.64	54.00	-20.36	Horizontal
2400.00	41.89	27.58	5.39	30.18	44.68	54.00	-9.32	Horizontal
2390.00	30.56	27.59	5.38	30.18	33.35	54.00	-20.65	Vertical
2400.00	43.22	27.58	5.39	30.18	46.01	54.00	-7.99	Vertical

Test channel:	Highest channel
---------------	-----------------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	41.25	27.53	5.47	29.93	44.32	74.00	-29.68	Horizontal
2500.00	41.06	27.55	5.49	29.93	44.17	74.00	-29.83	Horizontal
2483.50	41.54	27.53	5.47	29.93	44.61	74.00	-29.39	Vertical
2500.00	41.74	27.55	5.49	29.93	44.85	74.00	-29.15	Vertical

Average value:

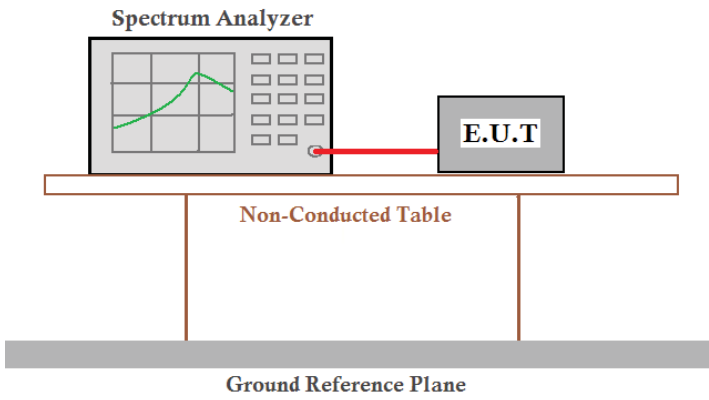
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	33.64	27.53	5.47	29.93	36.71	54.00	-17.29	Horizontal
2500.00	32.12	27.55	5.49	29.93	35.23	54.00	-18.77	Horizontal
2483.50	34.57	27.53	5.47	29.93	37.64	54.00	-16.36	Vertical
2500.00	31.76	27.55	5.49	29.93	34.87	54.00	-19.13	Vertical

Remark:

Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor

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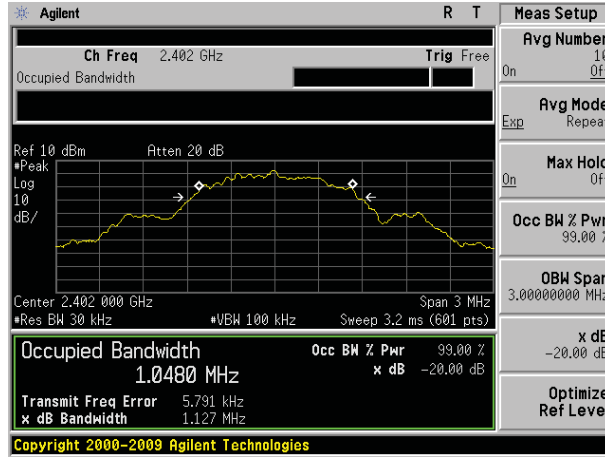
7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.4:2003
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. 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

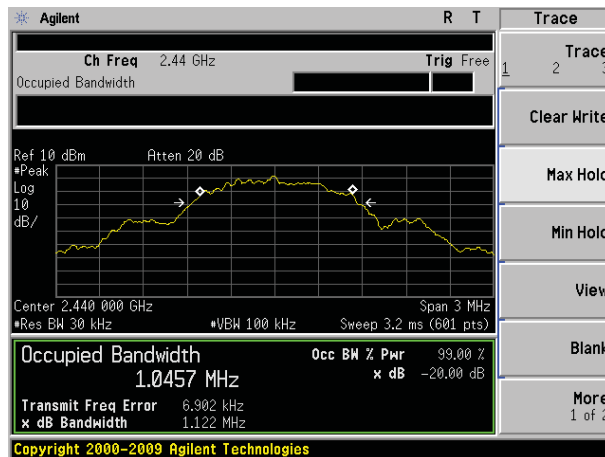
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	1.127	Pass
Middle	1.122	Pass
Highest	1.123	Pass

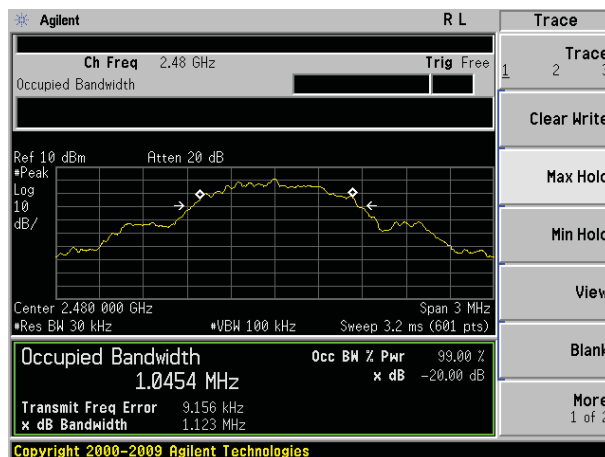
Test plot as follows:



Lowest channel



Middle channel



Highest channel

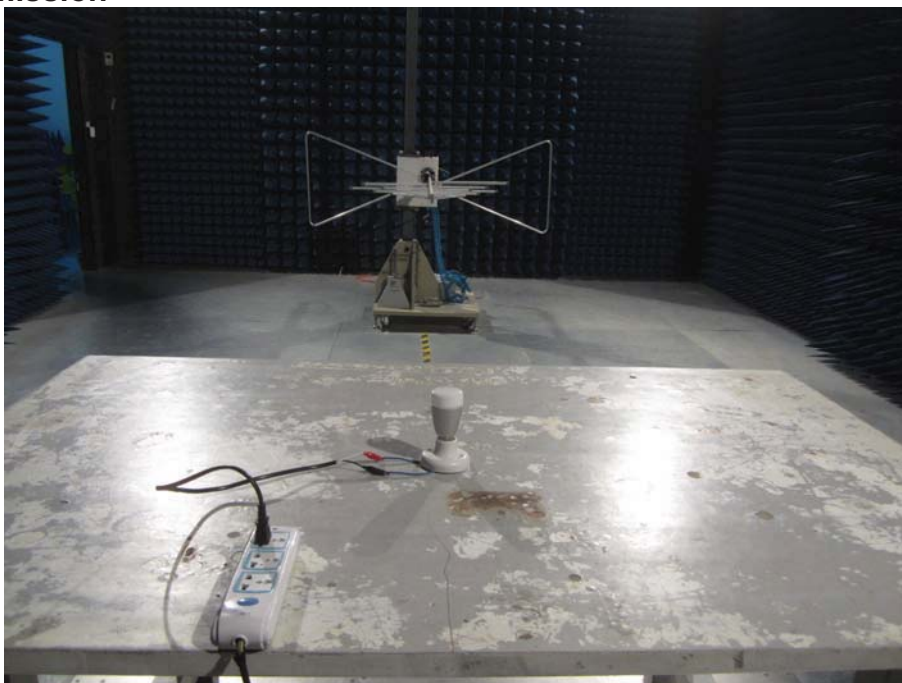
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8 Test setup photo

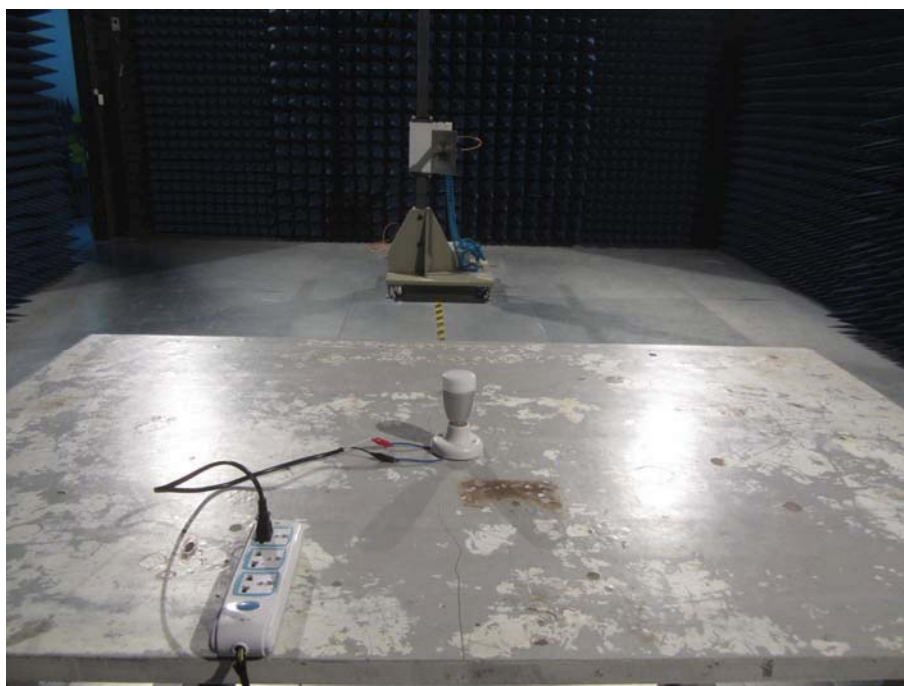
Conducted Emissions



Radiated Emission



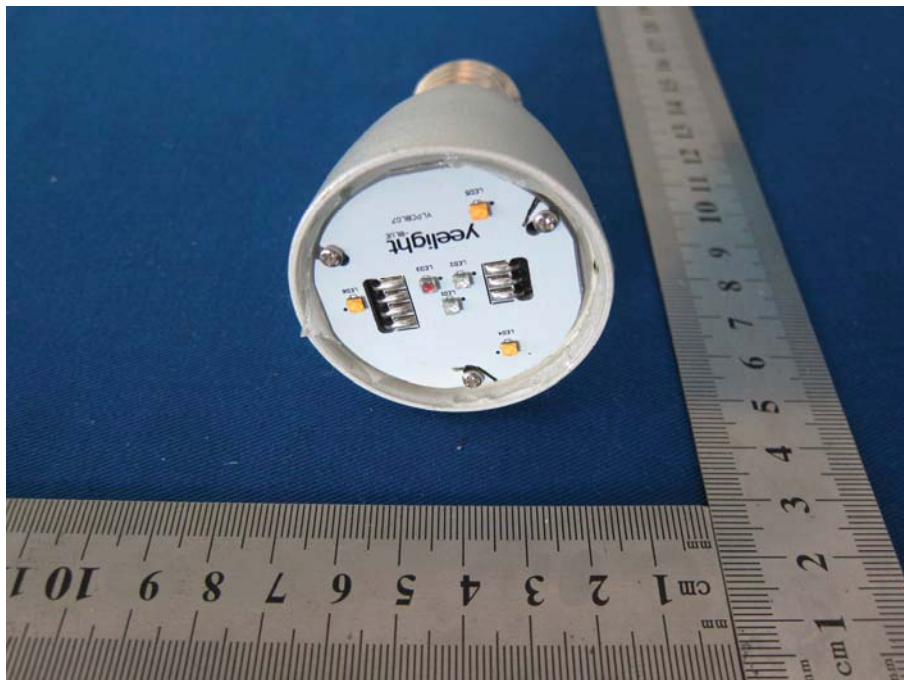
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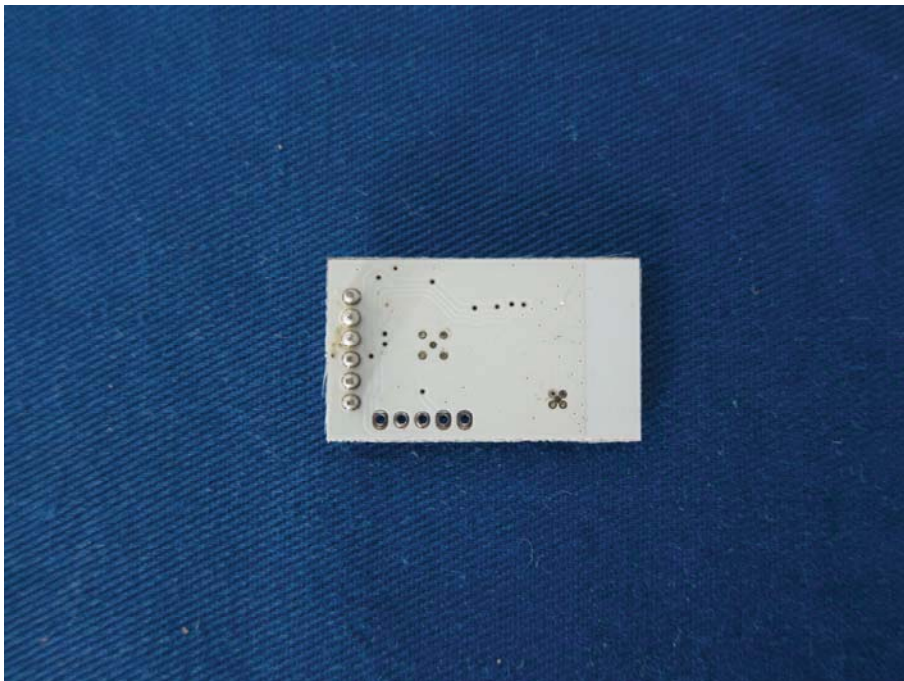
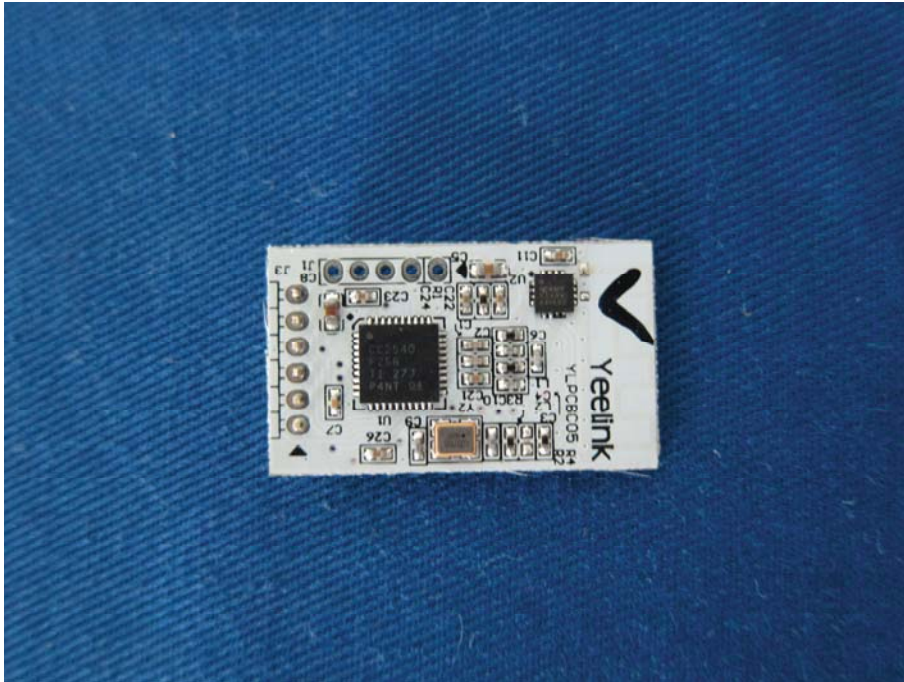
9 EUT Constructional Details



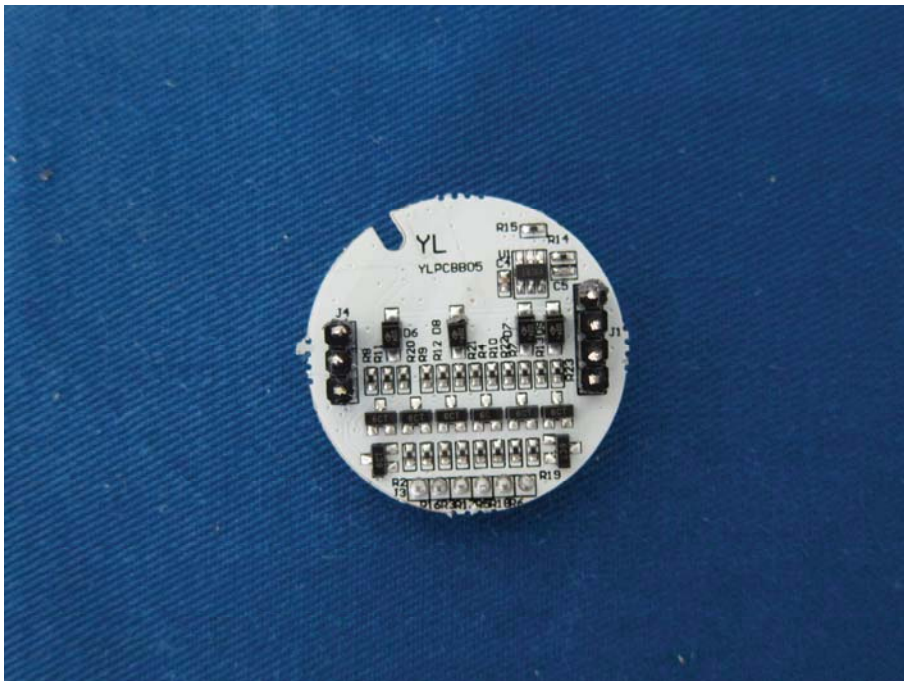
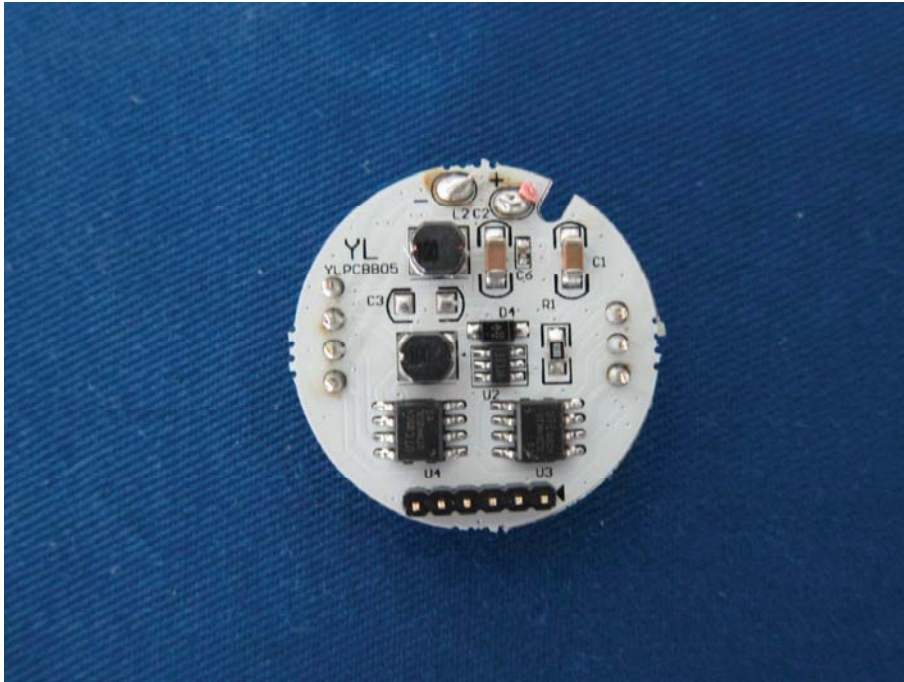
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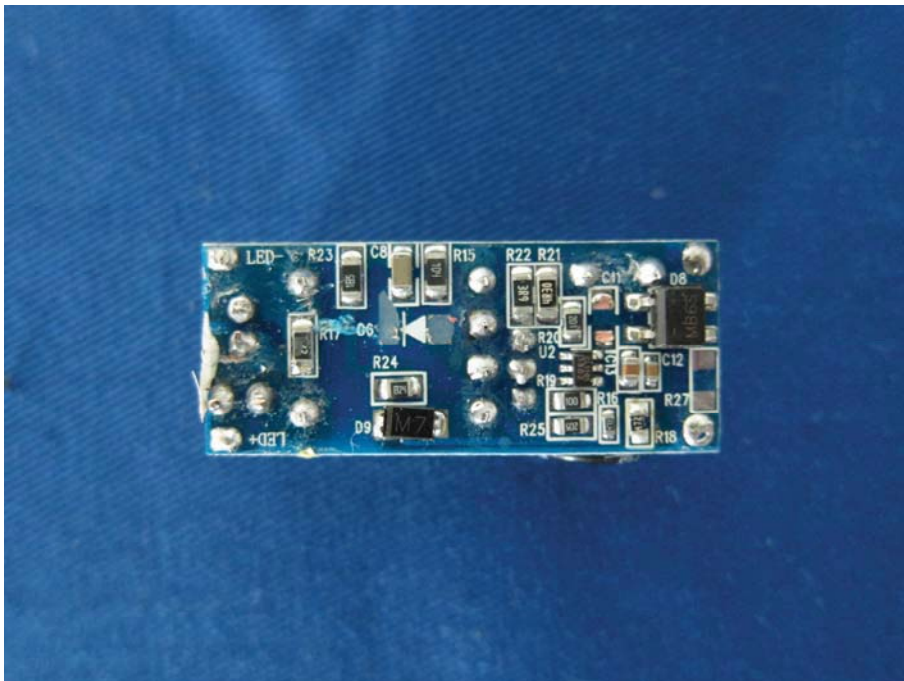
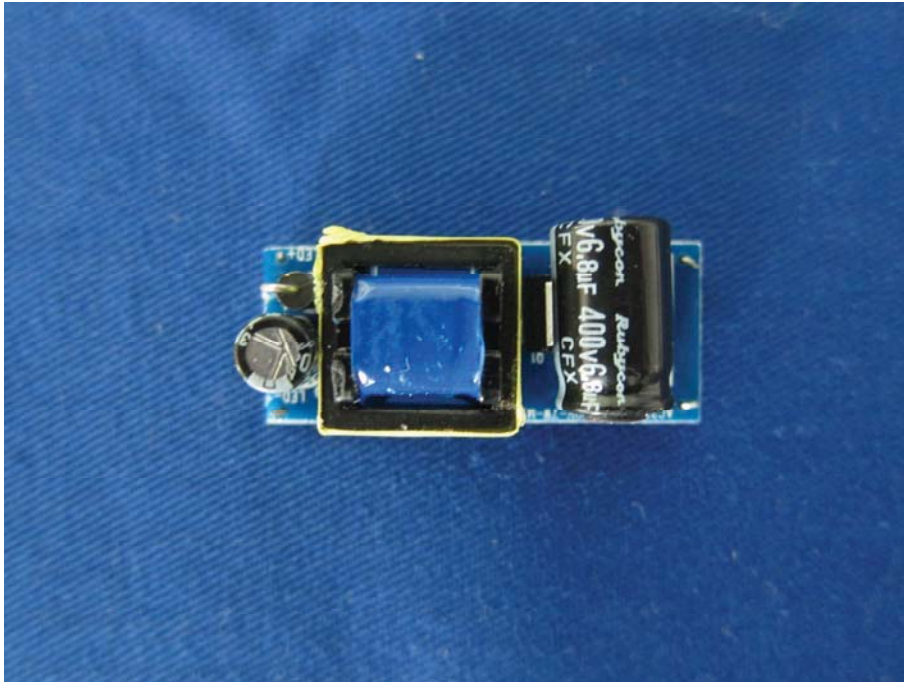
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End

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