

A506, Financial port building, Xin'an Sixth Road, 82th District, Bao'an,

Shenzhen, China.

Telephone: +86-755-33126608, Fax: +86-755-22639141

Report No.: EBO1704095-E313

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FCC REPORT

Applicant: SHENZHEN YIDEOU ELECTRONIC TECHNOLOGY CO., LTD

Address of Applicant: Unit A of 3/F Block 3, No.17 Sanwei Industrial Road, Xixiang

Town, Baoan District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: BLUETOOTH PARTY LIGHT

Model No.: LDY-10BAP

FCC ID: 2AF79-BPL01

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2016

Date of sample receipt: May 16, 2017

Date of Test: May 16, 2017 to June 01, 2017

Date of report issued: June 01, 2017

Test Result: PASS *

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.

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



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2 Version

Version No.	Date	Description
00	June 01, 2017	Original

Prepared by:	Jason	Date:	June 01, 2017
	Project Engineer		
Reviewed by:	Ceny	Date:	June 01, 2017



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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.

Remark: Test according to ANSI C63.4 2014 and ANSI C63.10 2013.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz ± 4.34dB		(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz ± 4.68dB		(1)
AC Power Line Conducted Emission	± 3.45dB	(1)	
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of	95%.



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5 General Information

5.1 Client Information

Applicant:	SHENZHEN YIDEOU ELECTRONIC TECHNOLOGY CO., LTD
Address of Applicant:	Unit A of 3/F Block 3, No.17 Sanwei Industrial Road, Xixiang Town, Baoan District, Shenzhen, China
Manufacturer/Factory:	SHENZHEN YIDEOU ELECTRONIC TECHNOLOGY CO., LTD
Address of Manufacturer/Factory:	Unit A of 3/F Block 3, No.17 Sanwei Industrial Road, Xixiang Town, Baoan District, Shenzhen, China

5.2 General Description of EUT

Product Name:	BLUETOOTH PARTY LIGHT
Model No.:	LDY-10BAP
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna gain:	2dBi (declare by Applicant)
Power supply:	AC 120V, 60Hz



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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



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5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

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.

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:

lı			•	
	Axis	X	Y	Z
	Field Strength(dBuV/m)	93.11	96.29	92.08

5.4 Description of Support Units

None

5.5 Test Facility

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

FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly 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

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6 Test Instruments list

Rad	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)	250	July. 03 2015	July. 02 2020	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	203	June. 29 2016	June. 28 2017	
4	BiConiLog Antenna	SCHWARZBECK MESS- ELEKTRONIK	VULB9163	214	June. 29 2016	June. 28 2017	
5	Double -ridged waveguide horn	SCHWARZBECK MESS- ELEKTRONIK	9120D-829	208	June. 29 2016	June. 28 2017	
6	Horn Antenna	ETS-LINDGREN	3160	217	June. 29 2016	June. 28 2017	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	213	June. 29 2016	June. 28 2017	
9	Coaxial Cable	GTS	N/A	211	June. 29 2016	June. 28 2017	
10	Coaxial cable	GTS	N/A	210	June. 29 2016	June. 28 2017	
11	Coaxial Cable	GTS	N/A	212	June. 29 2016	June. 28 2017	
12	Amplifier(100kHz- 3GHz)	HP	8347A	204	June. 29 2016	June. 28 2017	
13	Amplifier(2GHz- 20GHz)	HP	8349B	206	June. 29 2016	June. 28 2017	
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	218	June. 29 2016	June. 28 2017	
15	Band filter	Amindeon	82346	219	June. 29 2016	June. 28 2017	
16	Constant temperature and humidity box	Oregon Scientific	BA-888	248	June. 29 2016	June. 28 2017	
17	D.C. Power Supply	Instek	PS-3030	232	June. 29 2016	June. 28 2017	
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	588	June. 29 2016	June. 28 2017	
19	Splitter	Agilent	11636B	237	June. 29 2016	June. 28 2017	



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Distu	Disturbance voltages:						
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)	252	Jul. 06 2016	Jul. 05 2017	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	223	Jul. 06 2016	Jul. 05 2017	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	224	Jul. 06 2016	Jul. 05 2017	
4	Coaxial Switch	ANRITSU CORP	MP59B	225	Jul. 06 2016	Jul. 05 2017	
5	5 LISN SCHWARZBECK MESS-ELEKTRONIK	NSLK8127	226	Jul. 06 2016	Jul. 05 2017		
6	Coaxial Cable	GTS	N/A	227	Jul. 06 2016	Jul. 05 2017	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Thermo meter	KTJ	TA328	233	Jul. 06 2016	Jul. 05 2017	



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7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna is Ceramic antenna, the best case gain of the antenna is 2dBi



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7.2 Conducted Emissions

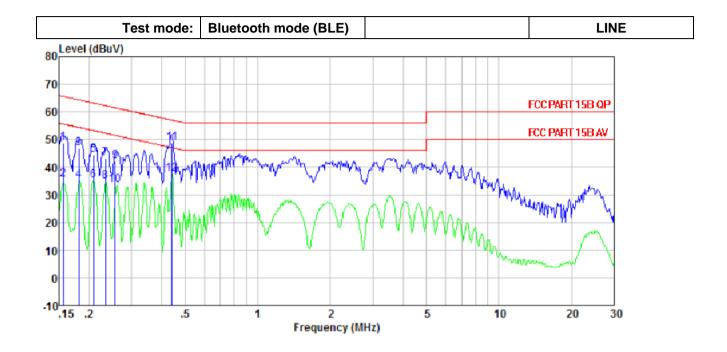
Test Requirement:	FCC Part15 C Section 15.207							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	150KHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto						
Limit:	[[[]]] [[] [] [] [] [] [] [Limit (c	lBuV)					
	Frequency range (MHz)	Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30	60	50					
Table 24 a	* Decreases with the logarithm of the frequency.							
Test setup:	Reference Plane							
Toot procedures	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m							
Test procedure:	 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 positions of equipment and according to ANSI C63.10:	all of the interface cab	oles must be changed					
Test Instruments:	Refer to section 6.0 for details	3						
Test mode:	Refer to section 5.3 for details	3						
Test results:	Pass							

Measurement data:



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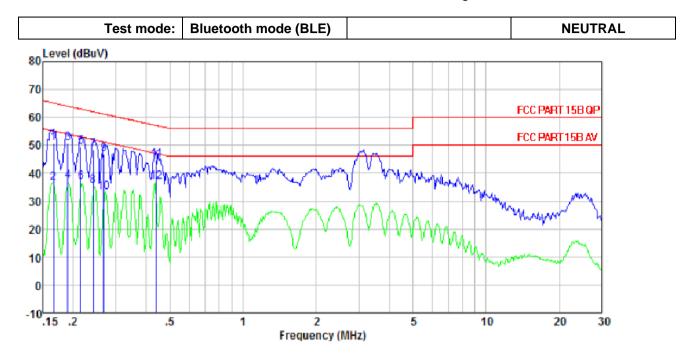


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7.3 Radiated Emission Method

FCC Part15 C S	Section 15.20	9			
ANSI C63.10:20	013				
30MHz to 25GH	ŀz				
Measurement D	Distance: 3m				
Frequency	Detector	RBW	VBW	Remark	
30MHz- 1GHz			300KHz	Quasi-peak Value	
Above 4015	Peak	1MHz	3MHz	Peak Value	
Above 1GHz	Peak	1MHz	10Hz	Average Value	
Freque	ency	Limit (dBuV	/m @3m)	Remark	
2400MHz-24	2400MHz-2483.5MHz 94.00 Av				
Freque	ency	Limit (dBuV	/m @3m)	Remark	
				Quasi-peak Value	
	88MHz-216MHz			Quasi-peak Value	
				Quasi-peak Value	
960MHz-	·1GHz			Quasi-peak Value Average Value	
Above 1	IGHz			Peak Value	
harmonics, sha fundamental or	II be attenuat to the genera	ed by at least al radiated em	50 dB belov	w the level of the	
EUT	4m		Anten Sea Ante RF Test Receiver	enna	
	ANSI C63.10:20 30MHz to 25GH Measurement E Frequency 30MHz- 1GHz Above 1GHz Freque 2400MHz-24 Freque 30MHz-9 960MHz- Above 1 Emissions radia harmonics, sha fundamental or whichever is the Below 1GHz EUT Turn Table Turn Table Ground Plane	ANSI C63.10:2013 30MHz to 25GHz Measurement Distance: 3m Frequency Detector 30MHz- 1GHz Peak Peak Frequency 2400MHz-2483.5MHz Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Emissions radiated outside of harmonics, shall be attenuat fundamental or to the general whichever is the lesser attention of the series and the series of the series attention	Measurement Distance: 3m Frequency Detector RBW 30MHz- Quasi-peak 120KHz 1GHz Above 1GHz Peak 1MHz Peak 1MHz Peak 1MHz Peak 1MHz Peak 1MHz Frequency Limit (dBuV) 2400MHz-2483.5MHz 94.0 Frequency Limit (dBuV) 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz 74.0 Emissions radiated outside of the specified harmonics, shall be attenuated by at least fundamental or to the general radiated em whichever is the lesser attenuation. Below 1GHz	ANSI C63.10:2013 30MHz to 25GHz Measurement Distance: 3m Frequency Detector RBW VBW 30MHz- Quasi-peak 120KHz 300KHz 1GHz Above 1GHz Peak 1MHz 3MHz Peak 1MHz 10Hz Frequency Limit (dBuV/m @3m) 2400MHz-2483.5MHz 94.00 Frequency Limit (dBuV/m @3m) 30MHz-88MHz 40.00 88MHz-216MHz 43.50 216MHz-960MHz 46.00 960MHz-1GHz 54.00 Above 1GHz 74.00 Emissions radiated outside of the specified frequency harmonics, shall be attenuated by at least 50 dB belof fundamental or to the general radiated emission limits whichever is the lesser attenuation. Below 1GHz Anten Ground Plane	



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	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier					
Test Procedure:	The EUT was placed on the top of a rotating table 0.8m/1.5m 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.					
	 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.					
	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.					
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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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	93.50	27.58	5.39	30.18	96.29	114.00	-17.71	Vertical
2402.00	89.80	27.58	5.39	30.18	92.59	114.00	-21.41	Horizontal
2440.00	92.06	27.55	5.43	30.06	94.98	114.00	-19.02	Vertical
2440.00	88.86	27.55	5.43	30.06	91.78	114.00	-22.22	Horizontal
2480.00	90.79	27.52	5.47	29.93	93.85	114.00	-20.16	Vertical
2480.00	87.48	27.52	5.47	29.93	90.54	114.00	-23.46	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	82.07	27.58	5.39	30.18	84.86	94.00	-9.14	Vertical
2402.00	79.30	27.58	5.39	30.18	82.09	94.00	-11.91	Horizontal
2440.00	80.23	27.55	5.43	30.06	83.15	94.00	-10.85	Vertical
2440.00	76.92	27.55	5.43	30.06	79.84	94.00	-14.16	Horizontal
2480.00	82.51	27.52	5.47	29.93	85.57	94.00	-8.43	Vertical
2480.00	79.12	27.52	5.47	29.93	82.18	94.00	-11.82	Horizontal

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



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7.3.2 Spurious emissions

■ 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
30.85	45.65	14.32	0.56	32.06	28.47	40.00	-11.53	Vertical
47.66	45.46	15.39	0.75	31.98	29.62	40.00	-10.38	Vertical
76.24	40.47	10.03	1.00	31.81	19.69	40.00	-20.31	Vertical
150.54	48.95	10.29	1.57	31.98	28.83	43.50	-14.67	Vertical
287.99	38.90	14.84	2.31	32.18	23.87	46.00	-22.13	Vertical
537.59	37.33	19.36	3.47	31.35	28.81	46.00	-17.19	Vertical
30.21	37.55	14.33	0.55	32.06	20.37	40.00	-19.63	Horizontal
60.28	38.21	14.69	0.86	31.94	21.82	40.00	-18.18	Horizontal
89.91	46.33	13.90	1.11	31.72	29.62	43.50	-13.88	Horizontal
139.85	42.06	10.19	1.50	31.94	21.81	43.50	-21.69	Horizontal
245.95	39.77	14.08	2.10	32.16	23.79	46.00	-22.21	Horizontal
599.32	36.61	20.45	3.72	31.04	29.74	46.00	-16.26	Horizontal



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■ Above 1GHz

Test channe	l:	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			
4804.00	39.14	31.78	8.60	32.09	47.43	74.00	-26.57	Vertical			
7206.00	33.05	36.15	11.65	32.00	48.85	74.00	-25.15	Vertical			
9608.00	32.55	37.95	14.14	31.62	53.02	74.00	-20.98	Vertical			
12010.00	*					74.00		Vertical			
14412.00	*					74.00		Vertical			
4804.00	43.80	31.78	8.60	32.09	52.09	74.00	-21.91	Horizontal			
7206.00	34.96	36.15	11.65	32.00	50.76	74.00	-23.24	Horizontal			
9608.00	32.15	37.95	14.14	31.62	52.62	74.00	-21.38	Horizontal			
12010.00	*					74.00		Horizontal			
14412.00	*					74.00		Horizontal			
A.,											

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	27.61	31.78	8.60	32.09	35.90	54.00	-18.10	Vertical
7206.00	21.53	36.15	11.65	32.00	37.33	54.00	-16.67	Vertical
9608.00	20.49	37.95	14.14	31.62	40.96	54.00	-13.04	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	32.04	31.78	8.60	32.09	40.33	54.00	-13.67	Horizontal
7206.00	23.82	36.15	11.65	32.00	39.62	54.00	-14.38	Horizontal
9608.00	20.37	37.95	14.14	31.62	40.84	54.00	-13.16	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. "*", means this data is the too weak instrument of signal is unable to test.

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Vertical

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

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54.00

54.00

54.00

54.00

54.00

54.00

-15.60

-15.34

-13.91

Test channe	Test channel: Middle								
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	36.92	31.85	8.67	32.12	45.32	74.00	-28.68	Vertical	
7320.00	31.57	36.37	11.72	31.89	47.77	74.00	-26.23	Vertical	
9760.00	31.24	38.35	14.25	31.62	52.22	74.00	-21.78	Vertical	
12200.00	*					74.00		Vertical	
14640.00	*					74.00		Vertical	
4880.00	41.13	31.85	8.67	32.12	49.53	74.00	-24.47	Horizontal	
7320.00	33.30	36.37	11.72	31.89	49.50	74.00	-24.50	Horizontal	
9760.00	30.63	38.35	14.25	31.62	51.61	74.00	-22.39	Horizontal	
12200.00	*					74.00		Horizontal	
14640.00	*					74.00		Horizontal	
Average val	ue:		•				•		
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	25.82	31.85	8.67	32.12	34.22	54.00	-19.78	Vertical	
7320.00	20.31	36.37	11.72	31.89	36.51	54.00	-17.49	Vertical	
9760.00	19.41	38.35	14.25	31.62	40.39	54.00	-13.61	Vertical	
12200.00	*					54.00		Vertical	

32.12

31.89

31.62

38.40

38.66

40.09

Remark:

14640.00

4880.00

7320.00

9760.00

12200.00

14640.00

30.00

22.46

19.11

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

8.67

11.72

14.25

2. "*", means this data is the too weak instrument of signal is unable to test.

31.85

36.37

38.35

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Test channel:	Highest
Peak value:	

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	33.80	31.93	8.73	32.16	42.30	74.00	-31.70	Vertical
7440.00	29.51	36.59	11.79	31.78	46.11	74.00	-27.89	Vertical
9920.00	29.40	38.81	14.38	31.88	50.71	74.00	-23.29	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	37.37	31.93	8.73	32.16	45.87	74.00	-28.13	Horizontal
7440.00	30.95	36.59	11.79	31.78	47.55	74.00	-26.45	Horizontal
9920.00	28.49	38.81	14.38	31.88	49.80	74.00	-24.20	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	23.26	31.93	8.73	32.16	31.76	54.00	-22.24	Vertical
7440.00	18.57	36.59	11.79	31.78	35.17	54.00	-18.83	Vertical
9920.00	17.87	38.81	14.38	31.88	39.18	54.00	-14.82	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	27.09	31.93	8.73	32.16	35.59	54.00	-18.41	Horizontal
7440.00	20.51	36.59	11.79	31.78	37.11	54.00	-16.89	Horizontal
9920.00	17.31	38.81	14.38	31.88	38.62	54.00	-15.38	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. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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Shenzhen EBO Testing Center

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74.00

-20.35

Vertical

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	48.14	27.59	5.38	30.18	50.93	74.00	-23.07	Horizontal
2400.00	65.68	27.58	5.39	30.18	68.47	74.00	-5.53	Horizontal
2390.00	49.19	27.59	5.38	30.18	51.98	74.00	-22.02	Vertical
2400.00	68.28	27.58	5.39	30.18	71.07	74.00	-2.93	Vertical
Average va	lue:							
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	37.50	27.59	5.38	30.18	40.29	54.00	-13.71	Horizontal
2400.00	39.78	27.58	5.39	30.18	42.57	54.00	-11.43	Horizontal
2390.00	37.82	27.59	5.38	30.18	40.61	54.00	-13.39	Vertical
2400.00	42.09	27.58	5.39	30.18	44.88	54.00	-9.12	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	50.87	27.53	5.47	29.93	53.94	74.00	-20.06	Horizontal
2500.00	49.04	27.55	5.49	29.93	52.15	74.00	-21.85	Horizontal
2483.50	52.59	27.53	5.47	29.93	55.66	74.00	-18.34	Vertical

Average value:

50.54

2500.00

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	40.39	27.53	5.47	29.93	43.46	54.00	-10.54	Horizontal
2500.00	37.64	27.55	5.49	29.93	40.75	54.00	-13.25	Horizontal
2483.50	42.04	27.53	5.47	29.93	45.11	54.00	-8.89	Vertical
2500.00	38.00	27.55	5.49	29.93	41.11	54.00	-12.89	Vertical

29.93

53.65

Remark:

5.49

27.55

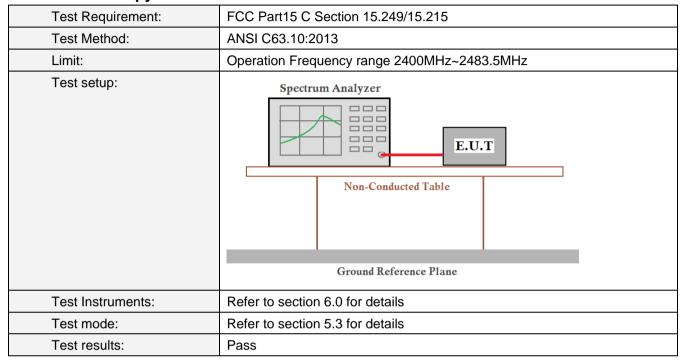
^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



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7.4 20dB Occupy Bandwidth



Measurement Data

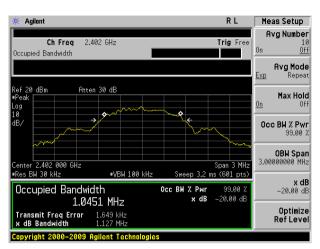
Test channel	20dB bandwidth(MHz)	Result
Lowest	1.127	Pass
Middle	1.118	Pass
Highest	1.123	Pass

Test plot as follows:

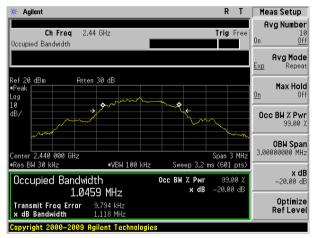
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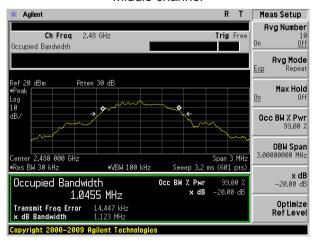
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Lowest channel



Middle channel



Highest channel

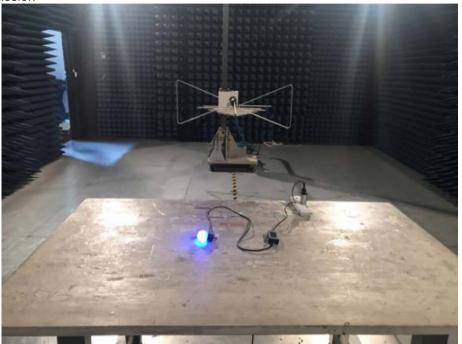


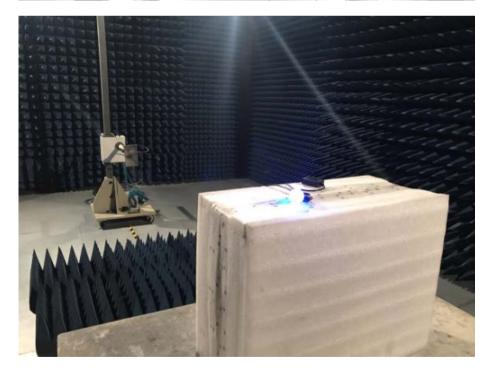
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8 Test Setup Photo

Radiated Emission







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Conducted Emission





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9 EUT Constructional Details

Reference to the test report No. EBO1704095-E312
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