

FCC Part 15C Test Report

FCC ID: 2AFK9KT-LR-U01B

Product Name:	LED Strip Remote Controller
Trademark:	N/A
Model Name :	KT-LR-U01B KT-LR-UXXY, 'XX' is 2 digit numbers which represents the software version, for example, 01 represents the software version 0.1. 'Y' is 1 character which represents the color of product, for example 'B' represents black.
Prepared For :	KingTing Tech. Corporation
Address :	17165 Von Karman Avenue, Suite 105, Irvine CA, US
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
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Test Date:	Sep. 12 - Sep. 17, 2015
Date of Report :	Sep. 17, 2015
Report No.:	BCTC-15090267



TEST RESULT CERTIFICATION

Report No.: BCTC-15090267

Applicant's name:	KingTing Tech. Corporation
Address:	17165 Von Karman Avenue, Suite 105, Irvine CA, US
Manufacture's Name:	Guangdong KingTing Technology Co., Ltd.
Address::	2B-2101 Hecheng century, Bantian Street, Longgang District, Shenzhen City, China
Product description	
Product name:	LED Strip Remote Controller
Model and/or type reference :	KT-LR-U01B
Serial Model:	KT-LR-UXXY, 'XX' is 2 digit numbers which represents the software version, for example, 01 represents the software version 0.1. 'Y' is 1 character which represents the color of product, for example 'B' represents black.
Standards:	FCC Part15.249
Test procedure	. ANSI C63.10-2013
	is been tested by BCTC, and the test results show that the

This device described above has been tested by BCTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.249) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.249 (a)(2)	20dB Bandwidth	PASS		
15.249	Fundamental &Radiated Spurious Emission Measurement	PASS		
15.205	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.: No.101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registered No.: 187086

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 % \circ

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	LED Strip Remote Controller		
Trade Name	N/A		
Model Name	KT-LR-U01B		
Serial Model	KT-LC-UXXY('XX' is 2 digit numbers which represents the software version, for example, 01 represents the software version 0.1. 'Y' is 1 character which represents the color of product, for example 'B' represents black.)		
Model Difference	All the model are the same circuit and RF module, except color and software version. The EUT is a LED Strip Remote Controller		
	Operation Frequency:	915MHz	
Product Description	Modulation Type:	FSK	
	Number Of Channel	1CH	
	Antenna Designation:	Please see Note 3.	
	Antenna Gain (dBi)	0dbi	
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Channel List	Please refer to the Note 2.		
Power	N/A		
Battery	CR2032 DC 3V		
Connecting I/O Port(s)	Please refer to the User's	s Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	Iinternal Antenna	N/A	0	

FCC Report Tel: 400-788-9558 0755-33019988



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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Pretest Mode	Description
Mode 1	TX Mode
Mode 2	Link Mode

For Conducted Emission		
Final Test Mode	Description	
Mode 2	Link Mode	

For Radiated Emission		
Final Test Mode	Description	
Mode 1	TX Mode	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

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2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Nadialed Opullous Ellission	Radiated Spurious Emission	ı rest
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E-1 EUT

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	LED Strip				
E-1	Remote	N/A	KT-LR-U01B	N/A	EUT
	Controller				

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conduction Test equipment

Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibratio
пеш	Equipment	rer	туре тчо.	Serial No.	calibration	until	n period
1	Test Receiver	R&S	ESCI	1166.5950K 03-101165- ha	2015.06.05	2016.06.05	1 year
2	LISN	R&S	NSLK81 26	812646 6	2015.08.24	2016.08.23	1 year
3	LISN	R&S	NSLK81 26	812648 7	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2015.06.05	2016.06.05	1 year
5	RF cables	R&S	R204	R20X	2015.06.05	2016.06.05	1 year

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY4510957 2	2015.08.25	2016.08.24	1 year
2	Test Receiver	R&S	ESPI	101396	2015.08.25	2016.08.24	1 year
3	Bilog Antenna	SCHWARZB ECK	VULB9160	VULB9160- 3369	2015.08.25	2016.08.24	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	SCHWARZB ECK	9120D	9120D-1275	2015.08.25	2016.08.24	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	SCHWARZBE CK	BBV9718	9718-270	2015.08.25	2016.08.24	1 year
9	Amplifier	SCHWARZBE CK	BBV9743	9743-119	2015.08.25	2016.08.24	1 year
10	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
11	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
12	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year
13	RF cables	R&S	N/A	N/A	2015.07.06	2016.07.05	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
FREQUENCT (IVITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

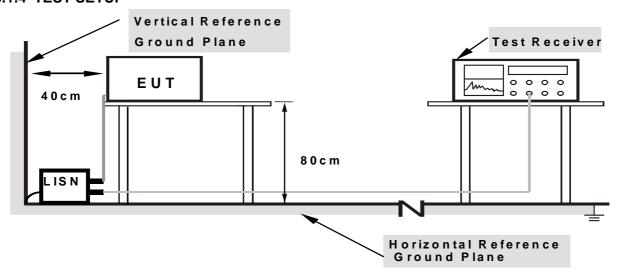
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation



3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



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3.1.6 TEST RESULTS

EUT:	LED Strip Remote Controller	Model Name. :	KT-LR-U01B
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC120V/60Hz	Test Mode:	Mode 1

NOTE: This EUT is powered by the battery only, this test item is not applicable.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDECLIENCY (MH-)	Class A (dBu	ıV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted	1 MHz / 1 MHz for Dook, 1 MHz / 10Hz for Average
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

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- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

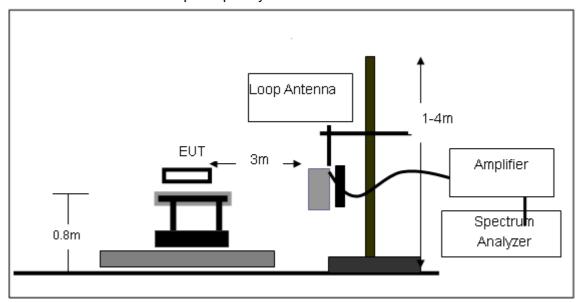
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

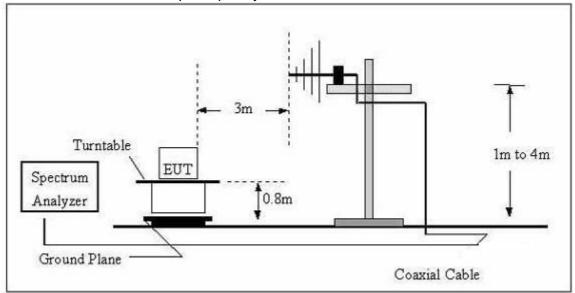


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



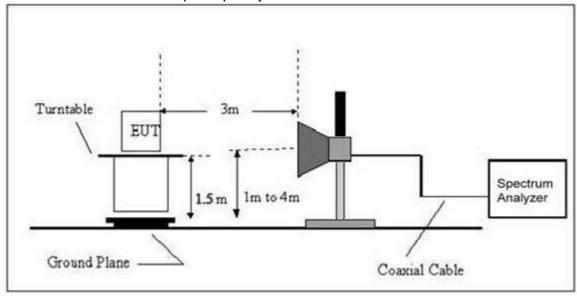
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

EUT:	LED Strip Remote Controller	Model Name. :	KT-LR-U01B
Temperature:	20℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC3V
Test Mode:	TX	Polarization:	

Shenzhen BCTC Technology Co., Ltd.

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	LED Strip Remote Controller	Model Name :	KT-LR-U01B
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization:	Horizontal
Test Voltage :	DC3V		
Test Mode :	TX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
53.8817	32.04	-10.93	21.11	40.00	-18.89	QP
155.3643	37.60	-12.87	24.73	43.50	-18.77	QP
189.0742	40.43	-15.46	24.97	43.50	-18.53	QP
202.8103	42.46	-16.12	26.34	43.50	-17.16	QP
215.2677	41.83	-15.77	26.06	43.50	-17.44	QP
241.6762	44.06	-14.43	29.63	46.00	-16.37	QP
915.0000	102.76	-3.16	99.6	114	-14.4	PK
915.0000	93.13	-3.16	89.97	94	-4.03	AV

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier. All interfaces was connected, and TX mode was link.

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Tel: 400-788-9558 0755-33019988

Web:Http//www.bctc-lab.com



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EUT:	LED Strip Remote Controller	Model Name :	KT-LR-U01B
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization:	Vertical
Test Voltage :	DC3V		
Test Mode :	TX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
39.7147	27.84	-8.83	19.01	40.00	-20.99	QP
92.7871	31.99	-17.23	14.76	43.50	-28.74	QP
170.1947	29.93	-13.47	16.46	43.50	-27.04	QP
182.5592	31.97	-14.65	17.32	43.50	-26.18	QP
207.8500	34.32	-15.98	18.34	43.50	-25.16	QP
240.8303	36.20	-14.47	21.73	46.00	-24.27	QP
915.0000	103.06	-3.17	99.89	114	-14.11	PK
915.0000	93.34	-3.17	90.17	94	-3.83	AV

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier. All interfaces was connected, and TX mode was link.



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

Normal Voltage

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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
V	1830.00	64.42	-3.57	60.85	74	-13.15	Pk
V	1830.00	55.55	-3.57	51.98	54	-2.02	AV
V	2745.00	62.65	-3.84	58.81	74	-15.19	Pk
V	2745.00	54.53	-3.84	50.69	54	-3.31	AV
V	3660.00	61.87	-4.59	57.28	74	-16.72	Pk
V	3660.00	53.66	-4.59	49.07	54	-4.93	AV
Н	1830.00	64.54	-3.62	60.92	74	-13.08	Pk
Н	1830.00	53.68	-3.62	50.06	54	-3.94	AV
Н	2745.00	62.75	-3.93	58.82	74	-15.18	Pk
Н	2745.00	54.34	-3.93	50.41	54	-3.59	AV
Н	3660.00	61.91	-4.62	57.29	74	-16.71	Pk
Н	3660.00	53.63	-4.62	49.01	54	-4.99	AV

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level



4. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 1.5 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. For the radiated emission test above 1GHz:
 - Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
 - The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



4.1 DEVIATION FROM STANDARD

No deviation.

4.2 TEST SETUP

4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.4 TEST RESULTS

EUT:	Balight	Model Name :	KT-LR-U01B
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC3V
Test Mode :	TX Mode		

Frequency	Antenna polarization	Emission	Limit	Result
(MHz)	(H/V)	(dBuV/m)	(dBuV/m)	Pass
902	Н	39.75	46.00	Pass
902	V	40.05	46.00	Pass
928	Н	40.11	46.00	Pass
928	V	39.92	46.00	Pass

If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.249) , Subpart C				
Section Test Item Frequency Range (MHz) Result				
15.249	Bandwidth	900~928	PASS	

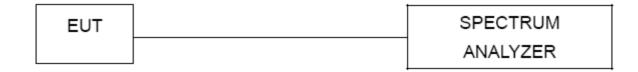
5.1.1 TEST PROCEDURE

- 1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

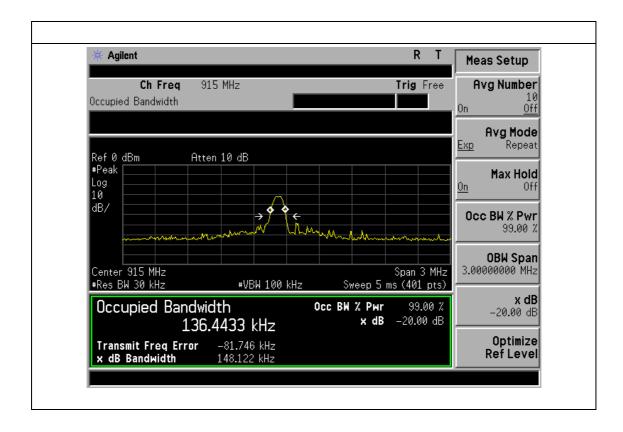
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.1.5 TEST RESULTS

EUT:	LED Strip Remote Controller	Model Name :	KT-LR-U01B
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC3V
Test Mode :	TX Mode		

	Channel	Frequency (MHz)	20dB bandwidth (MHz)
ĺ	1	915	0.148





6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

6.2 EUT ANTENNA

The EUT antenna is Integrated antenna. It comply with the standard requirement.

FCC Report Tel: 400-788-9558 0755-33019988

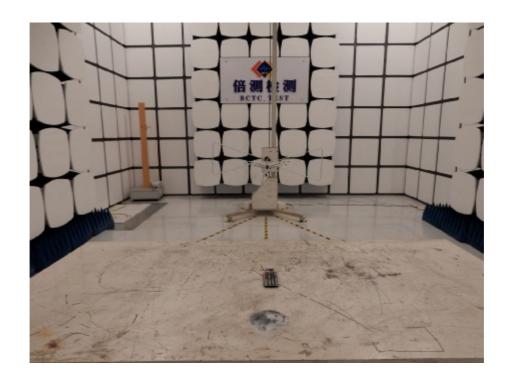
Web:Http//www.bctc-lab.com

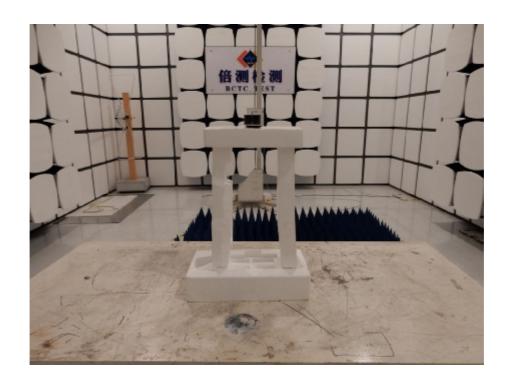
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7. EUT TEST PHOTO

RΕ







8. PHOTO OF THE EUT



