



Report No.: TW2103221E File reference No.: 2021-04-07

Applicant: Shenzhen Neewer Technology Co., Ltd

Product: ADJUSTABLE LED FOLDABLE LIGHT BOX

Model No.: ZK-RY-04, ZK-RY-12, ZK-RY-15

Brand Name: NEEWER

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: April 07, 2021

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Date: 2021-04-07



Test Report Conclusion

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The report refers only to the sample tested and does not apply to the bulk.

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Shenzhen Neewer Technology Co., Ltd

Address: ROOM 1901-1903, Block A, LU SHAN BUILDING NO.3023 CHUNFENGRD LUO HU

DISTRICT, SHENZHEN, GUANGDONG, 518001, CHINA

Telephone: --Fax: --

1.3 Description of EUT

Product: ADJUSTABLE LED FOLDABLE LIGHT BOX

Manufacturer: Shenzhen Neewer Technology Co., Ltd

Address: ROOM 1901-1903, Block A, LU SHAN BUILDING NO.3023

CHUNFENGRD LUO HU DISTRICT, SHENZHEN, GUANGDONG,

518001, CHINA

Brand Name: NEEWER

Model Number: ZK-RY-04, ZK-RY-12, ZK-RY-15

Rating: Input: DC12V, 3A

Power Supply: Model: ZK-SPQ-40W; Input: 100-240V~, 50/60Hz, Output: DC12V, 3A

Modulation Type: GFSK (Bluetooth Low Energy)

Operation Frequency: 2402-2480MHz

Channel Separation: 2MHz

Antenna Designation PCB antenna with gain 2.0dBi Max (Declared by the applicant)

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2021-03-16 to 2021-04-07

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1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment	2.0 Test Equipment								
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date				
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22				
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22				
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22				
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22				
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24				
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22				
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22				
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08				
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22				
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22				
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03				
9*6*6 Anechoic			N/A	2020-07-06	2021-07-05				
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22				
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22				
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22				
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22				
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15				
RF Cable	7honadi	ZT26-NJ-NJ-8		2020-06-23	2021-06-22				
Kr Cable	Zhengdi	M/FA		2020-00-23	2021-00-22				
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22				
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22				
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22				
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22				
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05				

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209 and RSS-210	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

4.0 EUT Modification

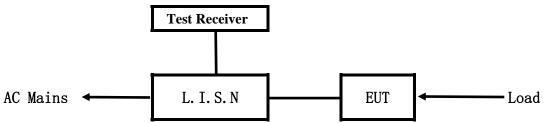
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

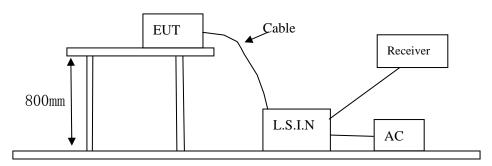


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUI	ľ
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Device	Manufacturer	Model	FCC ID
ADJUSTABLE LED	Shenzhen Neewer Technology	ZK-RY-04, ZK-RY-12,	2ANIV-ZK-RY
FOLDABLE LIGHT BOX	Co., Ltd	ZK-RY-15	ZANIV-ZK-KI

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

8 8 1						
Enagy an av (MHz)	Limits (dB μ V)					
Frequency(MHz)	Quasi-peak Level	Average Level				
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*				
$0.50 \sim 5.00$	56.0	46.0				
$5.00 \sim 30.00$	60.0	50.0				

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

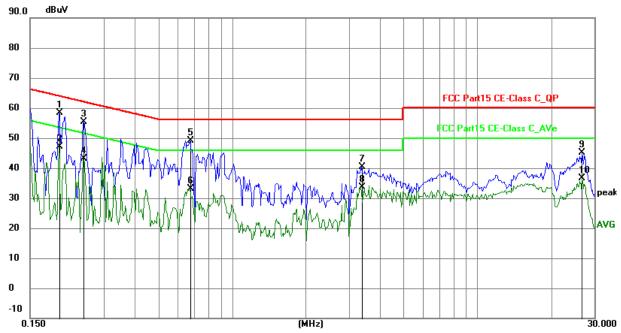
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Results: PASS

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1968	48.51	9.75	58.26	63.74	-5.48	peak	Р
2	0.1968	37.39	9.75	47.14	53.74	-6.60	AVG	Р
3	0.2474	45.63	9.75	55.38	61.84	-6.46	peak	Р
4	0.2474	33.42	9.75	43.17	51.84	-8.67	AVG	Р
5	0.6725	39.24	9.78	49.02	56.00	-6.98	peak	Р
6	0.6725	23.39	9.78	33.17	46.00	-12.83	AVG	Р
7	3.3704	30.44	9.86	40.30	56.00	-15.70	peak	Р
8	3.3704	23.77	9.86	33.63	46.00	-12.37	AVG	Р
9	26.6992	34.01	11.10	45.11	60.00	-14.89	peak	Р
10	26.6992	25.42	11.10	36.52	50.00	-13.48	AVG	Р

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

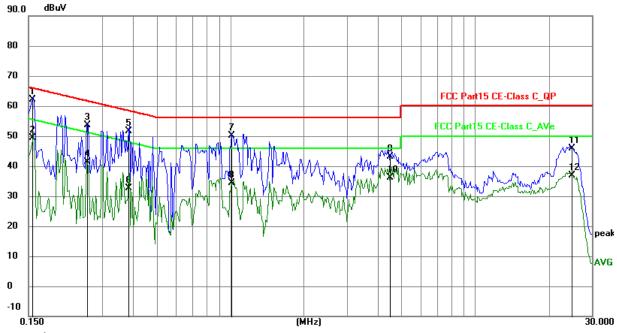
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1556	52.35	9.78	62.13	65.70	-3.57	peak	Р
2	0.1556	39.55	9.78	49.33	55.70	-6.37	AVG	Р
3	0.2615	43.88	9.75	53.63	61.38	-7.75	peak	Р
4	0.2615	31.65	9.75	41.40	51.38	-9.98	AVG	Р
5	0.3851	41.81	9.76	51.57	58.17	-6.60	peak	Р
6	0.3851	22.92	9.76	32.68	48.17	-15.49	AVG	Р
7	1.0103	40.40	9.79	50.19	56.00	-5.81	peak	Р
8	1.0103	24.68	9.79	34.47	46.00	-11.53	AVG	Р
9	4.5014	33.33	9.91	43.24	56.00	-12.76	peak	Р
10	4.5014	26.10	9.91	36.01	46.00	-9.99	AVG	Р
11	24.7904	34.93	10.98	45.91	60.00	-14.09	peak	Р
12	24.7904	25.85	10.98	36.83	50.00	-13.17	AVG	Р

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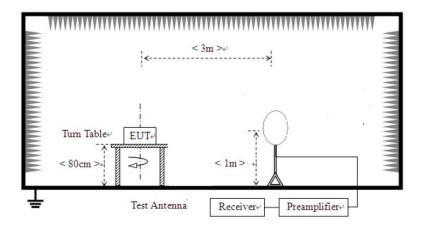


6 Radiated Emission Test

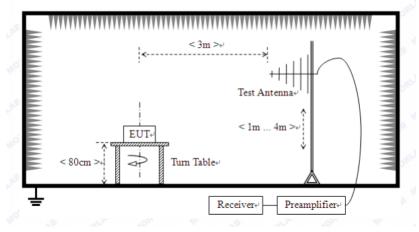
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



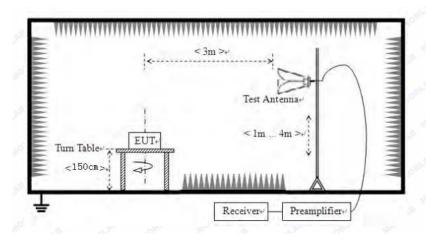
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For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field S	trength of Harmo	onics (3m)
(MHz)	mV/m	dBu	V/m	uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

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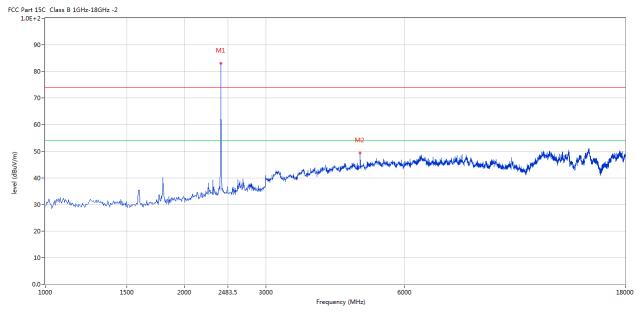


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

Horizontal



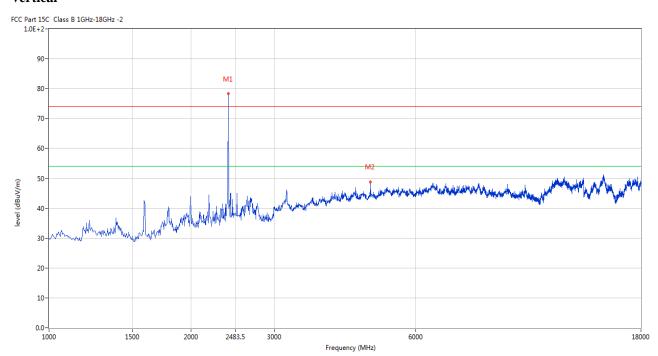
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	83.02	-3.57	114.0	-30.98	Peak	165.00	100	Horizontal	Pass
2	4803.750	49.25	3.13	74.0	-24.75	Peak	158.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	78.27	-3.57	114.0	-35.73	Peak	179.00	100	Vertical	Pass
2	4803.750	48.83	3.13	74.0	-25.17	Peak	236.00	100	Vertical	Pass

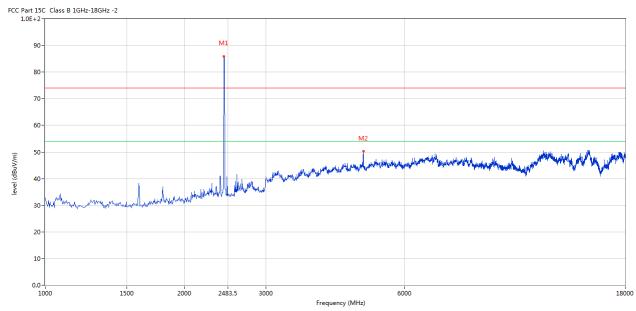
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal



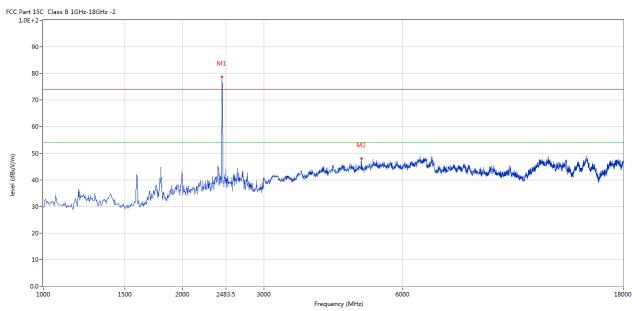
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2439.500	85.87	-3.57	114.0	-28.13	Peak	148.00	100	Horizontal	Pass
2	4880.250	50.24	3.20	74.0	-23.76	Peak	151.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2439.500	78.76	-3.57	114.0	-35.24	Peak	179.00	100	Vertical	Pass
2	4880.250	48.04	3.20	74.0	-25.96	Peak	233.00	100	Vertical	Pass

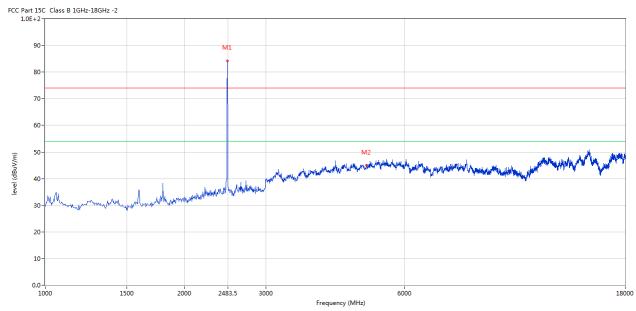
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



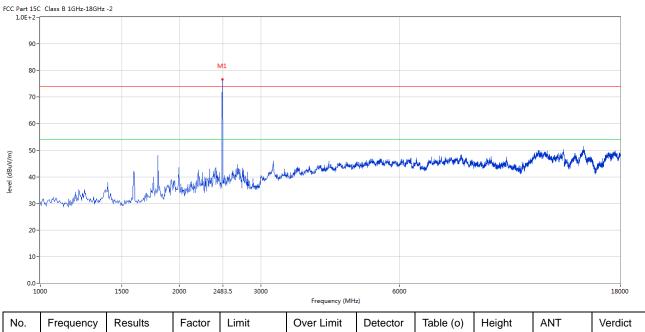
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.000	84.26	-3.57	114.0	-29.74	Peak	135.00	100	Horizontal	Pass
2	4961.000	44.96	3.36	74.0	-29.04	Peak	218.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.000	76.71	-3.57	114.0	-37.29	Peak	25.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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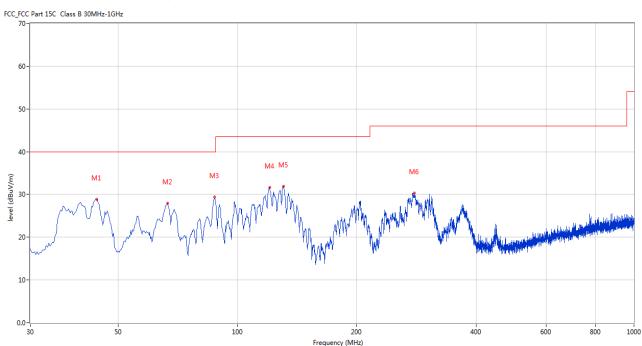


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	44.061	28.89	-11.47	40.0	-11.11	Peak	134.00	100	Vertical	Pass
2	66.608	27.96	-14.16	40.0	-12.04	Peak	259.00	100	Vertical	Pass
3	87.458	29.34	-15.72	40.0	-10.66	Peak	42.00	100	Vertical	Pass
4	120.430	31.59	-15.44	43.5	-11.91	Peak	264.00	100	Vertical	Pass
5	130.612	31.85	-16.74	43.5	-11.65	Peak	296.00	100	Vertical	Pass
6	278.985	30.36	-11.54	46.0	-15.64	Peak	319.00	100	Vertical	Pass

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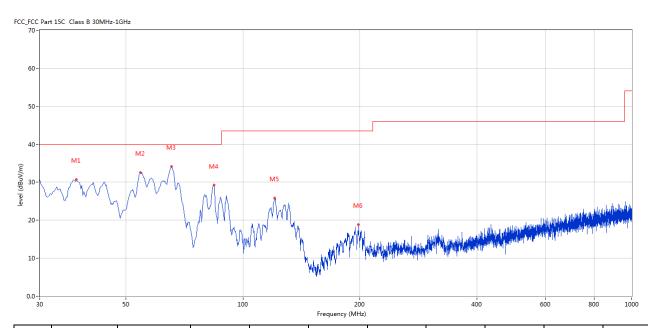


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m	Limit			(cm)		
)	(dB)					
1	37.273	30.70	-13.06	40.0	-9.30	Peak	342.00	100	Vertical	Pass
2	54.486	32.53	-11.66	40.0	-7.47	Peak	360.00	100	Vertical	Pass
3	65.396	34.18	-13.71	40.0	-5.82	Peak	360.00	100	Vertical	Pass
4	84.306	29.20	-16.67	40.0	-10.80	Peak	356.00	100	Vertical	Pass
5	120.672	25.83	-15.49	43.5	-17.67	Peak	352.00	100	Vertical	Pass
6	197.768	18.88	-13.50	43.5	-24.62	Peak	342.00	100	Vertical	Pass

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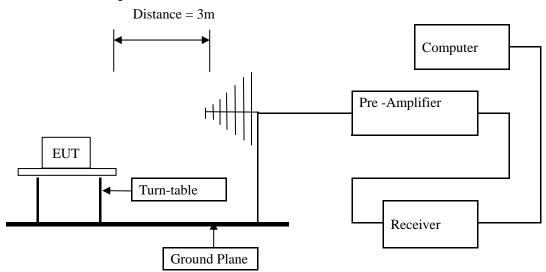


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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.

The report refers only to the sample tested and does not apply to the bulk.

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7.6 Test Result

F	Product:	ADJUST	ABLE L	ED FOLDA BOX	ABLE LIGHT	Γ Pol	arity		Horizonta	al
	Mode		Keepin	g Transmitt	ing	Test V	/oltage		DC12V	
Tei	mperature		2	4 deg. C,		Hun	nidity		56% RH	[
Te	st Result:			Pass		-				
C Part 1:	5C Class B 1GHz-18GHz	-2								
90	1-								M1	
80									M1	
70)-									
60)-							,		
									//2	
50)-						M3	L. Marie		
(E)/Appan 40)-	halado kara karadada a dalandan	wellow, where gardens had	ومرجا أخفان موارسة والفاسفوراني	nikada persebah di dengan dan balah s	Programme to the language suffer.	МЗ	A STATE OF THE STA		March
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30 20 10			A Particular and a		Frequency (MI	iz)	adio Protect Atolic Association (Control of the Associatio	Lucialet	ANT	2410
30 20 10	Frequency	Results	Factor	Limit	Frequency (MF		Table (o)	Height	ANT	2410
30 20 10 No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MF Over Limit (dB)	Detector	Table (o)	(cm)		2410 Verdict
30 20 10 10 No.	Frequency (MHz) 2399.755	Results (dBuV/m) 61.16	Factor (dB)	Limit (dBuV/m) 74.0	Frequency (MFOVER Limit (dB) -12.84	Detector Peak	Table (o)	(cm)	Horizontal	verdict Pass
30 20 10 No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MF Over Limit (dB)	Detector	Table (o)	(cm)		2410 Verdict

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3

2389.915

47.75

-3.53

74.0

]	Product:	ADJU		E LED FOL HT BOX	LDABLE	Detect	or		Vertical	
	Mode		Keeping	g Transmitti	ng	Test Vol	tage		DC12V	
Te	emperature		24	deg. C,		Humid	ity	5	56% RH	
Te	est Result:			Pass						
		-2				•				
8	80-								M1	
7	70-									
	Part 15C Class B 1GHz-18GHz -2 .0E+2- 90- 80- 70-						/ \			
6	60-							Ma		
_	50-						M3	M ₃		
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3 2 1	30 -	Results	Factor	Limit	Frequency (MH:	2) Detector	Table (o)	Height	ANT	1
5 5 4 4 3 3 2 1 1 0 0 0	30- 10- 20- 2350	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)		1	Table (o)	Height (cm)	ANT	2410 Verdict

-26.25

Peak

27.00

100

Vertical

Pass

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2

2483.387

51.61

Pr	oduct:	ADJU	DABLE	Polar	ity		Horizontal			
N	Mode		Keeping Transmitting			Test Vo	ltage		DC12V	
Tem	perature		24	4 deg. C,		Humio	lity		56% RH	
Test	t Result:			Pass						
1.0E+2-	Class B 1GHz-18GHz	-2								
90										
70-										
60-										
-00 (dBuV/m) -04 (dBuV/m)	Mary hard and all the property of the party of	A STATE OF THE PROPERTY OF THE PARTY OF THE	,		No. of the last of	ri Anglian de la grapa de la g	Hitelian by the state of the st	ilayee, walkey de de headige de l	ورواويد باور والمادية والإفرور والمادية والمادية والمادية والمادية والمادية والمادية والمادية والمادية والمادية	had the state of t
30-										
20-										
10-										
0.0- ₁ 247	70				2483.5 Frequency (MH:	:)				2500
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict

-22.39

Peak

144.00

100

Horizontal

Pass

74.0

-3.57

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I	Product: ADJUSTABLE LED FOLI LIGHT BOX				LDABLE	Detec	tor		Vertical	
Mode			Keeping Transmitting			Test Vo	ltage	DC12V		
Te	mperature		24	4 deg. C,		Humio	lity		56% RH	
Te	est Result:			Pass						
CC Part 1	.5C Class B 1GHz-18GHz 2-r	-2								
90	0-									
80	0-									
70	0-									
)						
61	0		/	\						
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(W) 50 (M) 30 (M		skylubishaplisakhanidaduri			And the state of t		i philipphenia de philip	htipildiselek kananan ka	Appellogical or his ballock of graph his	**************************************
(W) 50 (M) 30 (M		Ak, Aladak karapit saa karabida dina di			2483.5 Frequency (MH:		,tylkhlydiadirdd ydd lly	Affel black and a few and	Anne Parked at the Walter for Parked An	2500
(W) 50 (M) 30 (M		Results	Factor	Limit		Detector	Table (o)	Height	ANT	2500 Verdict
(W/Angg) 40 40 30 10 10 10 10 10 10 10 10 10 10 10 10 10	0	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MH:		Table (o)	Height (cm)	ANT	

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

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8.0 Antenna Requirement

Applicable Standard

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 shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna. The antenna gain is 2.0dBi Max. It fulfills the requirement of this section. Test Result: Pass

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9.0 20dB Bandwidt	h Measurement									
GFSK Modulation	1									
Product:	ADJUSTAI I	BLE LED F		E	Test N	Mode:		Keep tran	smitting	
Mode	Keep	ing Transm	itting		Test V	oltage/		DC1	2V	
Temperature		24 deg. C,			Hum	idity		56%	RH	
Test Result:		Pass				Detector		PI	K	
20dB Bandwidth		1.244MHz				-			-	
Ref Lvl	ndB	1 [T1 n 20. 1.244488	00 dB	VI		.00 k 300 k 5 m	Hz	F Att	20 dB	ı
0				\		$lacktriangledown_1$ ndB	[T1]		.00 dB 898 MHz	A
-10 -20 1MAX	1					∇ 1 1 2 2 3 4	T1] T1]	-23 2.40137 -23 2.40262	.24 dBm	1MA
-30							<u></u>			
-50									Lung.	
-60										
-70										
-80										
-90 Center 2. Date: 7.2		:49:34	300	kHz/				Spa	ın 3 MHz	<u> </u>

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Product:	LE LIGHT	Test Mode:]	Keep transmitting				
Mode	Ke	eping Transmitting	g	Test Voltage		DC12V		
Temperature		24 deg. C,		Humidity		56% RH		
Test Result:		Pass		Detector		PK		
OdB Bandwidth		1.238MHz						
	Mark	er 1 [T1 ndB] RI	3W 100 k	Hz RF	Att 20	dВ	
Ref Lvl	ndB	20.00						
10 dBm	BW	1.23847695	MHz SV	√T 5 m	s Uni	Lt	dBm	
				V 1	[T1] 2	-3.39 .43999699	dBm GHz	
0				ndF BW VT	1	20.00	dB MHz dBm	
-10				▽ 1		.43938377	GHz	
-20					2	.44062224	GHz 1MA	
-30					<u> </u>			
-40						May	M	
-50						,		
-60								
-70								
-80								
-90 Center 2	.44 GHz		300 kHz/			Span 3	MHz	

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Mode Keeping Transmitting Test Voltage DC12V	GFSK Modula Product:		LED FOLDABLE LIC	GHT	Test Mode:		Keen trai	nsmitting	
Temperature 24 deg. C, Humidity 56% RH Test Result: Pass Detector PK 20dB Bandwidth 1.244MHz						Keep transmitting			
Test Result: Pass		Keep							
20dB Bandwidth 1.244MHz									
Marker 1 [T1 ndB] RBW 100 kHz RF Att 20 dB vBW 300 kHz 10 dBm BW 1.24448898 MHz SWT 5 ms Unit dBm 2.48000301 GHz 2.48000301 GHz 2.48000301 GHz 2.48000301 GHz 2.47937776 GHz 2.47937776 GHz 2.47937776 GHz 2.47937776 GHz 2.48002224 GHz 2.4000301 GHz 2.47937776 GHz 2.47937776 GHz 2.48002224 GHz 2.4800224 GHz 2.48002224 GHz 2.4800224 GHz 2.4800224 GHz 2.					Detector		P.	K	
Ref Lv1 ndB 20.00 dB VBW 300 kHz 10 dBm BW 1.24448898 MHz SWT 5 ms Unit dBm 10	20dB Bandwidth	L					-	-	
10 dBm BW 1.24448898 MHz SWT 5 ms Unit dBm 10	Dof I						7 Att	20 dB	
T [T1] -4.18 dBm 2.48000301 GHz 20.00 dB BW 1.24448898 MHz 2.47937776 GHz 2.47937776 GHz 2.48062224 GHz 3.48062224 GHz 3.4806224 GHz 3.48062224 GHz 3.4806224 GHz 3.4806	10 dBm						nit	dBm	ı
-10 -10 -10 -10 -10 -10 -10 -10 -10 -10					V 1	[T1]	-4 2.48000		A
2.47937776 GHz -20 1MAX -30 -40 -50					BW	[17]	20 1.24448	898 MHz	
1MAX 7 2.48062224 GH2 :					∇ _{V2}			776 GHz	
-40 -50	1MAX	1	7			7	2.48062	224 GHz	1MA
-50									
	M_Merrilled						À	,	
-60	-50							John	
	-60								
-70	-70								
-80	-80								
-90 Center 2.48 GHz 300 kHz/ Span 3 MHz		.48 GHz	300	kHz/			Spa	ın 3 MHz	

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10.0 FCC ID Label

FCC ID: 2ANIV-ZK-RY

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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11.0 Photo of testing

11.1 Conducted test View



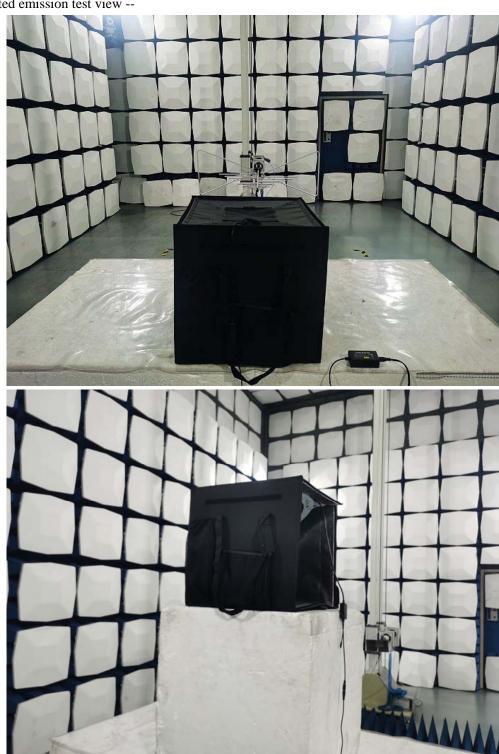
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11.2 Radiated emission test view --



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11.3 Photographs – EUT





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Photo for the EUT





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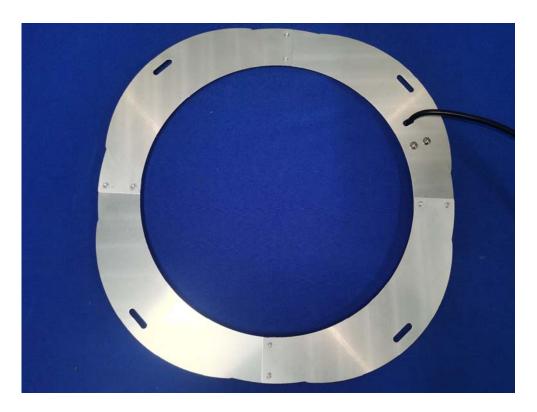
Report No.: TW2103221E

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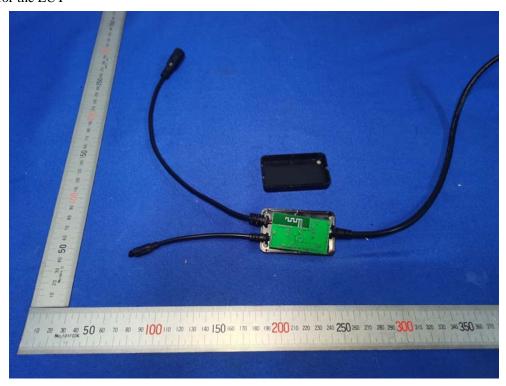
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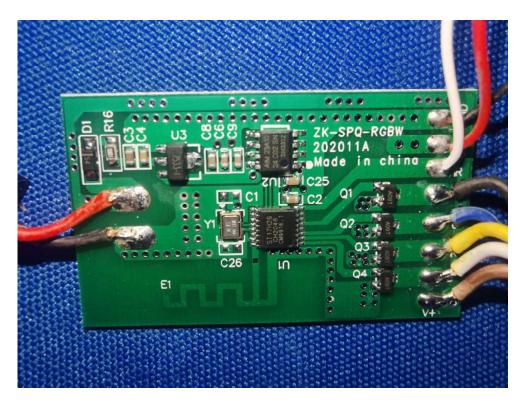
Report No.: TW2103221E

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Photo for the EUT





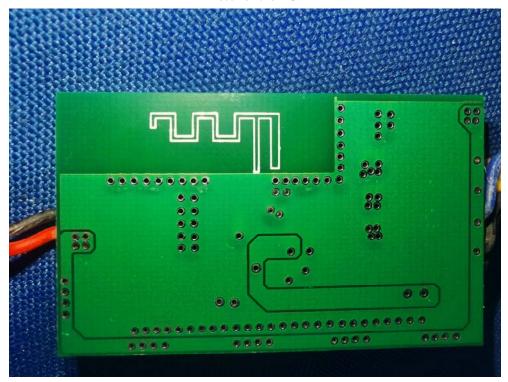
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Photo for the EUT



-- End of the report-