

Applicant: LEADER PREMIUMS LIMITED

Product: WIRELESS SPEAKER & LIGHT

Model No.: AE0146-A

Trademark: N/A

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

Turugruph 13.21) regulations for the evaluation

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: October 14, 2024

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

Report No.: TWN2409675-01E Page 2 of 44

Date: 2024-10-14



Special Statement:

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

CAB identifier: CN0033

Date: 2024-10-14



Test Report Conclusion

Content General Details..... 1.0 1.1 Test Lab Details.... 1.2 Applicant Details.... 4 1.3 Description of EUT 4 1.4 Submitted Sample.... Test Duration. 1.5 5 5 1.6 Test Uncertainty. 1.7 Test By..... 5 2.0 List of Measurement Equipment. 6 7 3.0 Technical Details..... 3.1 Summary of Test Results.... 7 3.2 7 Test Standards.... 4.0 7 EUT Modification.... 5.0 Power Line Conducted Emission Test. 8 5.1 Schematics of the Test..... 8 Test Method and Test Procedure.... 5.2 8 Configuration of the EUT..... 5.3 5.4 EUT Operating Condition.... 9 5.5 Conducted Emission Limit..... 9 5.6 Test Result. 6.0 Radiated Emission test.... 12 Test Method and Test Procedure. 12 6.1 6.2 Configuration of the EUT..... 13 EUT Operation Condition.... 6.3 13 6.4 Radiated Emission Limit.... 13 6.5 Test Result. 15 7.0 Band Edge..... 23 7.1 Test Method and Test Procedure.... 23 7.2 Radiated Test Setup. 23 7.3 Configuration of the EUT.... 23 7.4 EUT Operating Condition. 23 7.5 Band Edge Limit. 23 7.6 Band Edge Test Result. 24 8.0 Antenna Requirement 28 9.0 20dB bandwidth measurement. 29 10.0 FCC ID Label. 36 Photo of Test Setup and EUT View.... 11.0

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Date: 2024-10-14



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: LEADER PREMIUMS LIMITED

Address: ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO, CHINA

1.3 Description of EUT

Product: WIRELESS SPEAKER & LIGHT
Manufacturer: LEADER PREMIUMS LIMITED

Address: ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO,

CHINA

Trademark: N/A

Model Number: AE0146-A

Additional Model Name N/A

Rating: Input: 5Vdc, 500mA

Battery: DC3.7V, 350mAh Li-ion battery

Serial No.: N/A

Hardware Version: Bluetooth speaker-AE0146-A

Software Version: leader: 2024.11 Operation Frequency: 2402-2480MHz Modulation Type: GFSK, $\pi/4$ DQPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation PCB antenna with gain -0.58dBi maximum (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

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Date: 2024-10-14



Page 5 of 44

2024-09-30 to 2024-09-26

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

The sample tested by

Print Name: Andy Xing

Page 6 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

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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Page 7 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



3.0 Technical Details

3.1 Summary of test results

The EUT has been	n tested accordin	g to the following	specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
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	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies
FCC Part 15.215(c)	20dB bandwidth	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

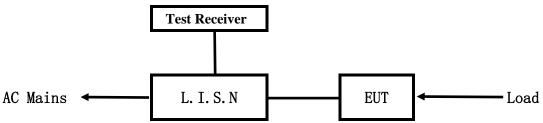
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Date: 2024-10-14



5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

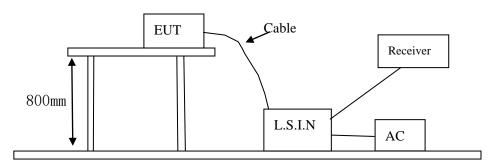


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
WIRELESS SPEAKER &	LEADER PREMIUMS	A E O 1 4 6 A	2 A DVV A E 0146 A
LIGHT	LIMITED	AE0146-A	2APYY-AE0146-A

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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Report No.: TWN2409675-01E Page 9 of 44

Date: 2024-10-14



C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- 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

Frequency	Limits (dB μ V)				
(MHz)	Quasi-peak Level	Aver ge 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 ~ 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:

Date: 2024-10-14

Report No.: TWN2409675-01E



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

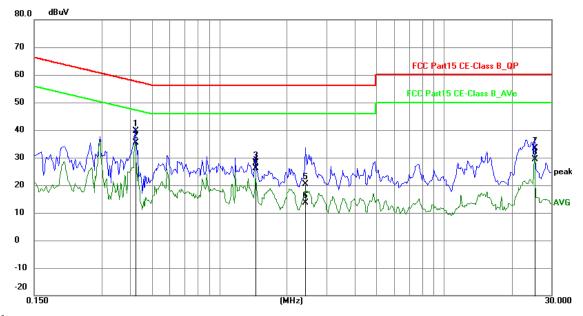
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

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	0.4230	29.85	9.76	39.61	57.39	-17.78	QP	Р
2	0.4230	25.74	9.76	35.50	47.39	-11.89	AVG	Р
3	1.4526	18.44	9.79	28.23	56.00	-27.77	QP	Р
4	1.4526	16.31	9.79	26.10	46.00	-19.90	AVG	Р
5	2.4159	10.54	9.82	20.36	56.00	-35.64	QP	Р
6	2.4159	3.85	9.82	13.67	46.00	-32.33	AVG	Р
7	25.2261	22.40	11.00	33.40	60.00	-26.60	QP Q	Р
8	25.2261	18.36	11.00	29.36	50.00	-20.64	AVG	Р

Date: 2024-10-14



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

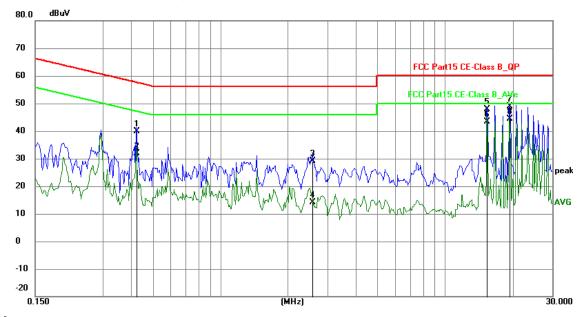
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

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	0.4230	30.01	9.76	39.77	57.39	-17.62	QP	Р
2	0.4230	22.02	9.76	31.78	47.39	-15.61	AVG	Р
3	2.5679	19.40	9.82	29.22	56.00	-26.78	QP	Р
4	2.5679	4.35	9.82	14.17	46.00	-31.83	AVG	Ъ
5	15.3708	37.52	10.40	47.92	60.00	-12.08	QP	Ъ
6	15.3708	33.08	10.40	43.48	50.00	-6.52	AVG	Ъ
7	19.3799	38.20	10.64	48.84	60.00	-11.16	QP	П
8	19.3799	33.62	10.64	44.26	50.00	-5.74	AVG	Р

Date: 2024-10-14



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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

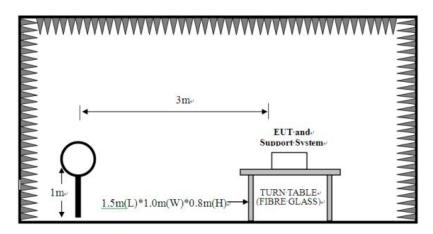
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

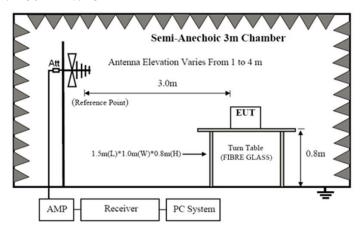
For radiated emissions from 9kHz to 30MHz



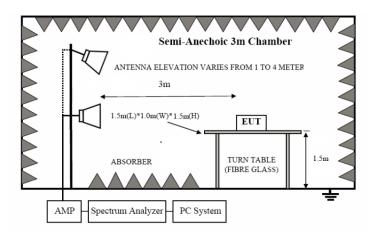
Date: 2024-10-14



For radiated emissions from 30MHz to1GHz



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 Fundamental (3m)	Field Strength of Harmonics (3m)			
(MHz) mV/m		dBuV/m	uV/m	dBuV/m		

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Report No.: TWN2409675-01E Page 14 of 44

Date: 2024-10-14



2400-2483.5 50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
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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.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	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.
- 5. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. Battery was fully charged during test

Date: 2024-10-14



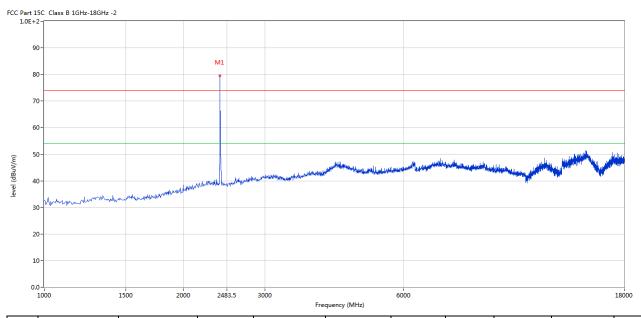
Page 15 of 44

6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



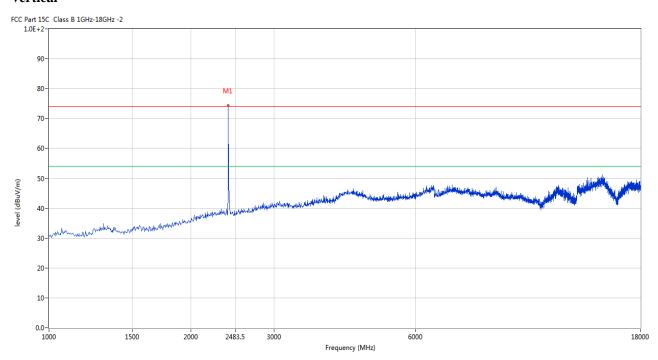
No	0.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2402	79.48	-3.57	114.0	-34.52	Peak	57.00	100	Horizontal	Pass

Report No.: TWN2409675-01E Page 16 of 44

Date: 2024-10-14



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	74.32	-3.57	114.0	-39.68	Peak	83.00	100	Vertical	Pass

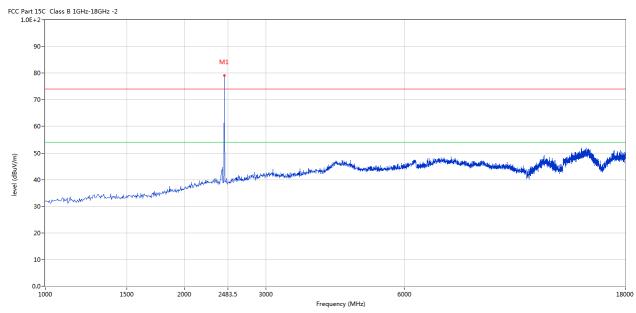
Report No.: TWN2409675-01E Page 17 of 44

Date: 2024-10-14



Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



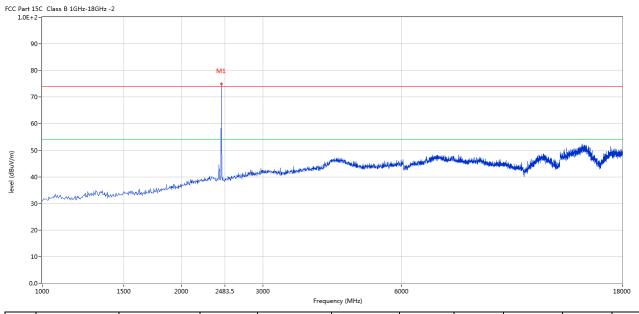
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	79.13	-3.57	114.0	-34.87	Peak	131.00	100	Horizontal	Pass

Report No.: TWN2409675-01E Page 18 of 44

Date: 2024-10-14



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	74.92	-3.57	114.0	-39.08	Peak	26.00	100	Vertical	Pass

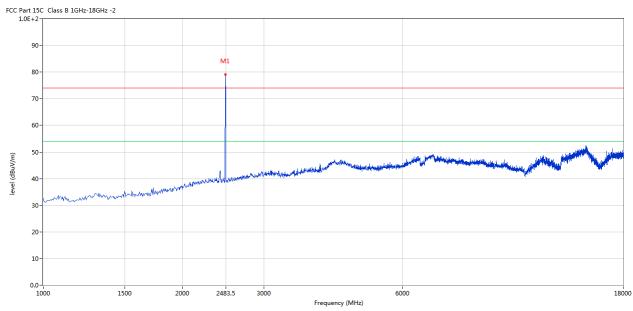
Report No.: TWN2409675-01E Page 19 of 44

Date: 2024-10-14



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

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	79.16	-3.57	114.0	-34.84	Peak	101.00	100	Horizontal	Pass

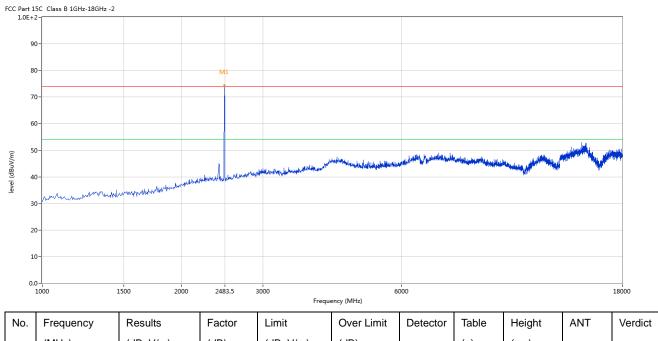
Page 20 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	74.47	-3.57	114.0	-39.53	Peak	81.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

Report No.: TWN2409675-01E Page 21 of 44

Date: 2024-10-14

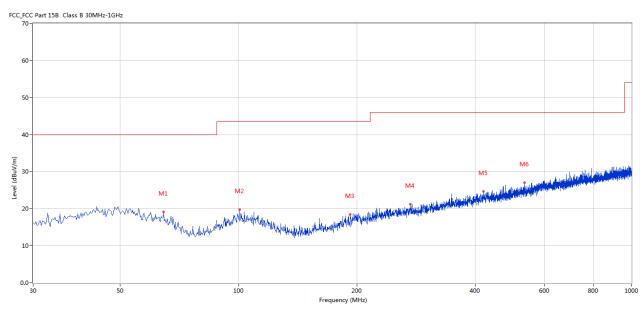


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	64.426	19.18	-13.43	40.0	20.82	Peak	285.00	100	Horizontal	Pass
2	100.550	19.83	-13.48	43.5	23.67	Peak	235.00	100	Horizontal	Pass
3	192.434	18.42	-14.00	43.5	25.08	Peak	305.00	100	Horizontal	Pass
4	273.167	21.26	-11.65	46.0	24.74	Peak	187.00	100	Horizontal	Pass
5	419.600	24.69	-8.26	46.0	21.31	Peak	26.00	100	Horizontal	Pass
6	533.789	27.05	-6.49	46.0	18.95	Peak	236.00	100	Horizontal	Pass

Report No.: TWN2409675-01E Page 22 of 44

Date: 2024-10-14

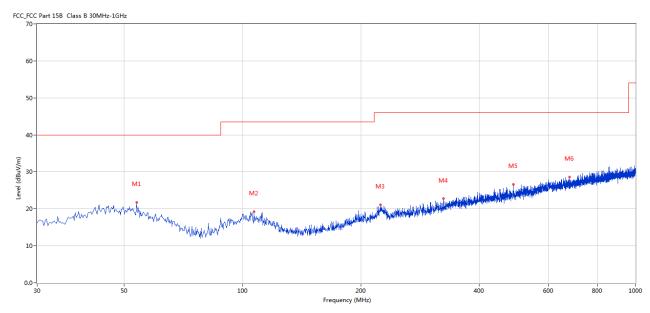


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	53.759	21.77	-11.53	40.0	18.23	Peak	131.00	100	Vertical	Pass
2	106.853	19.27	-13.38	43.5	24.23	Peak	304.00	100	Vertical	Pass
3	224.436	21.10	-13.00	46.0	24.90	Peak	196.00	100	Vertical	Pass
4	325.049	22.75	-10.41	46.0	23.25	Peak	264.00	100	Vertical	Pass
5	488.938	26.60	-7.21	46.0	19.40	Peak	5.00	100	Vertical	Pass
6	679.253	28.63	-4.46	46.0	17.37	Peak	167.00	100	Vertical	Pass

Date: 2024-10-14

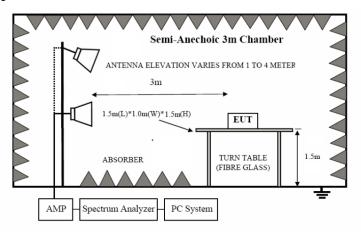


7. Band Edge

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.

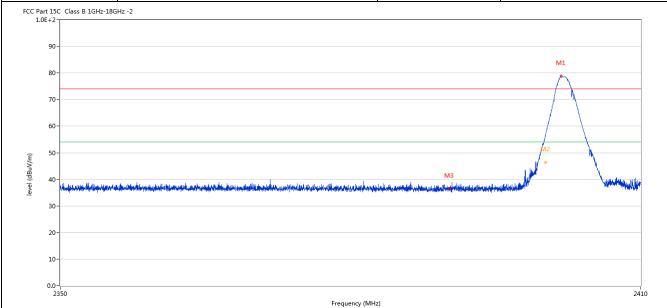
Report No.: TWN2409675-01E Page 24 of 44

Date: 2024-10-14



7.6 Test Result

Product:	WIRELESS SPEAKER & LIGHT	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No	. Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.662	78.82	-3.57	74.0	4.82	Peak	295.00	100	Horizontal	N/A
2	2400.042	56.37	-3.57	74.0	-17.63	Peak	300.00	100	Horizontal	Pass
2*	2400.042	46.31	-3.57	54.0	-7.69	AV	300.00	100	Horizontal	Pass
3	2390.055	36.62	-3.53	74.0	-37.38	Peak	320.00	100	Horizontal	Pass

Page 25 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



	Product:	WIREI	LESS SPEA	AKER & LIC	SHT	Detect	or		Vertical	
	Mode	I	Keeping Tr	ansmitting		Test Volt	age		DC3.7V	
Te	emperature		24 de	g. C,		Humid	ity		56% RH	
Te	est Result:		Pas	SS						
	rt 15C Class B 1GHz-18G	Hz -2			'		'			
	90-									
	80-								M1	
	70									
	70-							/	· V	
	60-							M2	Ì	
								†	L,	
(m/ _N	50-								\	
evel (dBuV/m)	40-	manyhada ahaafi ka sa	nicooluliste contributorio	وجر بطاري مغينه باحرانية بطاره بالمتحر عل	والمتعادية	M3	ad plant both blands	A A A A A A A A A A A A A A A A A A A	The Apple	add a principle
level (dBuV/m)	40-	Mary the real transport and the second financial section of	ale on likely to an appropriate agency.	en en skille greek en en skille gebruik en skille	the transmitted the second		olypta at town bloodsess	aller til en visible fra de	har	
level (dBuV/m)	40-	mughadi ayafi karadi sabay ahli sika c	ne and discovered the second	فالدرون والمقاول والمواجود وبالمقارس	المنافض والمتعاولة وال		والمراجع وا	A HARLEST AND A STATE OF THE ST	h had	allida y pa jalyya
level (dBuV/m)	40- 	erenderdischen für zu stehen bei eine auf der eine eine eine eine eine eine eine ei	hie vol. lish-sb-b-s-resieved	ran, ddigo adare do gressidi policio. Ai	i par jiri merunda dike paki pangan pandak		alyania di nana	aller ann an bhair ann an an bhair	han had	aggara to to popular
level (dBuV/m)	30 - 20 - 10 -	ભા રતીના હતા, ત ે કે તે મહાને કહે જ મહાને કે સ્ટેક્સ હતા છે. જ	are and light and above representative	ran diligi takin ka disendi pelika di	ing may be a second and the second		olyganis wooden as en	all the second second	^l a A _{re} igh	
level (dbuV/m)	40- 	स्वरूपेनची क्षेत्रपृष्टिक व्यवस्थित स्वरूप्य क्षेत्रीचेत्रक क्ष्या क्ष्या क्ष्या क्ष्या क्ष्या क्ष्या क्ष्या क	nice and light and minimum contempor	ran diligi takin ka disendi period. A	Frequency (MHz)		al _e yya isaabka asaa	all the second s	^l And Angel	ייף נתיקין
	30 - 20 - 0.	Results	Factor	Limit	he transferred days are an		Table	Height	ANT	241
	30 - 20 - 10 - 2350	and the control of th	make a striple of a more department of		Frequency (MHz)	den del tributo e en en en en el cultura e en e	A The state of the	Height (cm)	ip"	241
No.	30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz) Over Limit	den del tributo e en en en en el cultura e en e	Table	_	ip"	241 Verdi
(ш/\ngp) laval	30- 20- 10- 0.0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	Verdid Pass

Page 26 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



		T				T _				
	Product:	WIRE	ELESS SPI	EAKER & L	IGHT	P	olarity		Horizont	al
	Mode		Keeping 7	Γransmitting		Test	Voltage		DC3.7V	1
7	Гетреrature		24 d	leg. C,		Н	ımidity		56% RF	H
,	Test Result:		F	Pass						
	art 15C Class B 1GHz-18GHz 0E+2-r	-2						•		
	90- 80- 70- 60-									
	40-whatimmanii dhibanadh	معدراة والإستان المتعارف والمتعارفة والمتعار		M2	tanakiying desigabil kepid	મેં જીવનું કરવાનું કરી છે. જે જે કુલ કરો કર્યું અને છે. જે જે કુલ કરો કર્યું અને છે જે જે જે જે જે જે જે જે જે જે જે જ	entisyes i mesy dektriky	h ya da kalenga a pagada ka a fa da da k	att nieuwe nieuwene flishelwein ha	the landstreen me
	40-	معدر المفادة المراجعة المراجعة المراجعة المؤادة المؤادة المراجعة المؤادة المراجعة المؤادة المراجعة المؤادة الم		2483.5		ને સ્થિતિક કર્યાં કરી કરીને હતા હતું કરી છે જેમન	endas veigenpas y de de la San	iyadasidqosaybyddadi.adi.adi	att eftensor en italienna flishibunan ka	
	30 - 20 - 10 - 2470	Results	Factor		5	Detector	Table	Height	ANT	2500
No	30- 20- 10- 2470		Factor (dB)	T	; Frequency (MHz)				and the second s	

No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2480.040	78.93	-3.57	74.0	4.93	Peak	101.00	100	Horizontal	N/A
2	2483.500	43.65	-3.57	74.0	-30.35	Peak	101.00	100	Horizontal	Pass

Page 27 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



J	Product:	WIREI	LESS SPEA	AKER & LIG	HT	Detect	or		Vertical	
	Mode	F	Keeping Tra	ansmitting		Test Vol	tage		DC3.7V	
Те	emperature		24 de	g. C,		Humid	ity		56% RH	
Te	est Result:		Pas	SS						
	rt 15C Class B 1GHz-18GF DE+2-			1						
	90-									
	80-		M1							
	70-									
	60-		/							
			I	\						
(m//n	50-			M2						
.vel (dBuV/m)	50- 40-	and the second of the second o	W	M2	·····································	out the control of the second	ulyaliya daga kara	and the state of t	ir daku sih hadayed ustaya	- Mariel Aldreway
level (dBuV/m)	40	الرفاعة مورود رود رود الدراساني	W.	M2	करणानमृत्युं के के शिक्ता के के शहर विशेष के के स्व	tradychoca (o depolate all oda a depolate all	ndagodisionephiloneross	and the state of t	ir dad side foodbords district	moderal deltrobus,
level (dBuV/m)	30-	المرابعة المرابعة والدواية وا		M2	arrongipud adaktiforatika terdinikalan sebih	rudybuch bily dilik ili di danasindhi	ndy political states	o da de legal de la colonida de la c	ir dada sida had baribb islamba	and the bag
level (dBuV/m)	40- minuted historial 30- 20-	n de la companya de l		M2	annon-philosophade de philosophade a Special and a Shirt e parasita	rusię tuci je iej sięk sięk okonomienskie	ndayadayan falkar arang	uda de despitation de de despressor de	ir dada sala-kan bersil da 1964 da	- was self editor buy
level (dBuV/m)	30-	الخرافة المهدد ويعاد مدورة والمقدد المؤاهد	y de la constantina della cons	M2	armangilandi sida kishapataka ingerilanka ida pa cendah	rashina iydirdi ili da anganda	nd _{ar} ak-anyekerenan		ir dali sek haringir lettari	-Mariel Wire buy
level (dBuV/m)	40- minuted historial 30- 20-	makana da ayan		M2		rushima bilipilih ili dan mendap	ndogađenjeka eneg	, dan bertigiji ili jir eyde dekan bersend	ip daşk sekir ba ülerişti di Mada	
	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -				; Frequency (MHz)					2504
o.	30- 20- 10- 2470	Results	Factor	2483.5 Limit	Frequency (MHz) Over Limit	Detector	Table	Height	ANT	2504
	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -		Factor (dB)		; Frequency (MHz)					2500
	30- 20- 10- 2470	Results		Limit	Frequency (MHz) Over Limit		Table	Height		2500

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

2. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

Date: 2024-10-14



Page 28 of 44

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 with gain -0.58dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

Date: 2024-10-14



Page 29 of 44

9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

N/A

Page 30 of 44

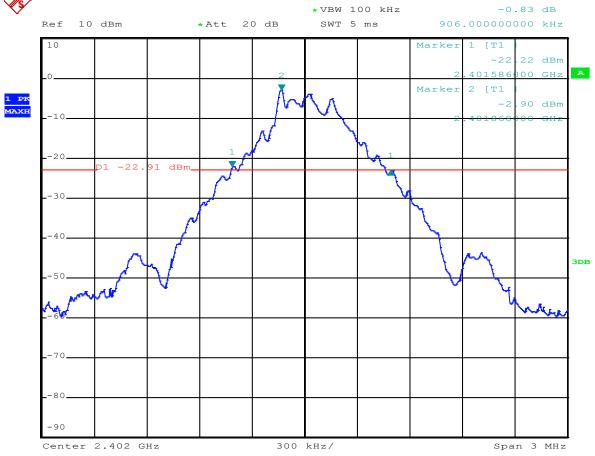
Report No.: TWN2409675-01E

Date: 2024-10-14



Test Result

GFSK			
Product:	WIRELESS SPEAKER & LIGHT	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	906kHz		
(P)	* RBW 3	30 kHz Delta 1	[T1]



Date: 10.OCT.2024 14:05:55

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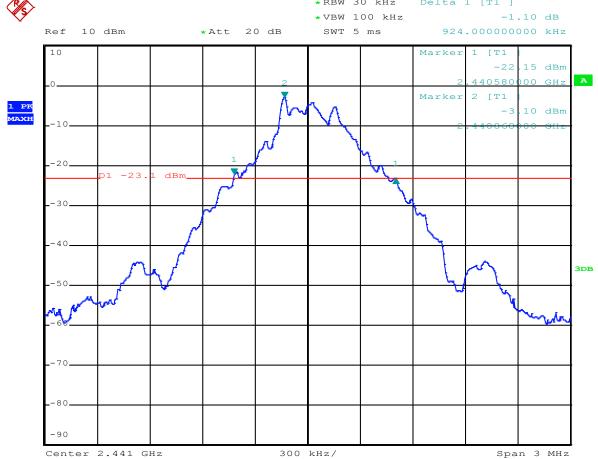
Page 31 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



GFSK			
Product:	WIRELESS SPEAKER & LIGHT	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	924kHz		
6	*RBW 3) kHz Delta 1	[TT]]



Date: 10.0CT.2024 14:26:01

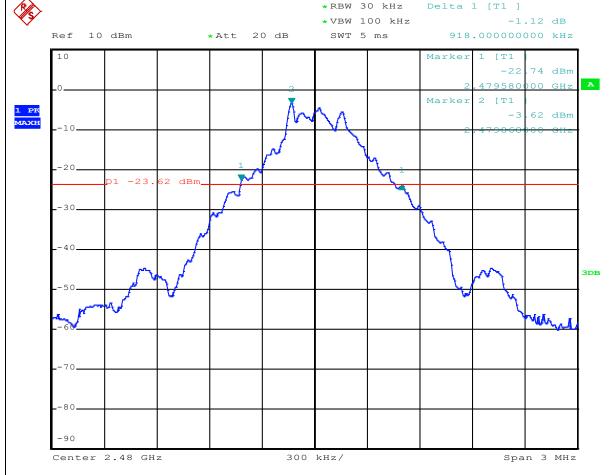
Page 32 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



GFSK			
Product:	WIRELESS SPEAKER & LIGHT	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	918kHz		
6	DDW 3) lette Delte 1	. m. 1



Date: 10.OCT.2024 14:28:42

Page 33 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



Product:	WIRELESS SPEAKER & LI	IGHT Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
OdB Bandwidth	1.260MHz		
Ref 10 dB 10 -0 -10 -20 -30 -40 -60 -70	m *Att 20 dB	*RBW 30 kHz *VBW 100 kHz SWT 5 ms ndB BW Tem Tem	-2.88 dBm 2.401868000 GHz [T1] 20.00 dB 1.260000000 MHz 0 1 [T1 nd8] -22.69 dBm 2.401400000 GHz 9.2 [T1 nd8] -22.99 dBm 2.402660000 GHz
80			
-90	02 GHz 300	kHz/	Span 3 MHz

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

Page 34 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



Product:	WIRELE	ESS SPEA	KER & L	& LIGHT Test Mode:			Keep transmitt		
Mode	Ke	eping Tra	nsmitting	smitting Te		Voltage		DC3.7V	
Temperature		24 deg	. C,		Humidity			56% RH	
Test Result:		Pass	8		Det	Detector PK			
dB Bandwidth 1.260MHz									
Ref 10 d	Зm	*Att 2	0 dB	*RBW 30 *VBW 10 SWT 5	00 kHz		1 [T1 -3	.06 dBm	
10						ndB [T	-	.00 dB 000 MHz	
_0			1			Temp 1	[T1 nd	B] A	
PK XH				\wedge		2		.84 dBm 000 GHz	
-10		M	W	\rangle \rangl	M	Temp 2	-23		
-20						2 T2	.441660	000 GHz	
30		ď							
30						Ì			
40		+				1			
50	~~					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	W.	3DB	
Vin C	V							~~~	
80									
70									
80									
-90									
Center 2.	441 GHz		300	kHz/		l	Spa	n 3 MHz	

Date: 10.0CT.2024 14:42:03

Page 35 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



Product:	WIRELE	SS SPEAKER &	& LIGHT	Test	Mode:		Keep transmi	tting	
Mode	Kee	eping Transmitti	ing	Test Y	Voltage	DC3.7V			
Temperature		24 deg. C,		Humidity			56% RH		
Test Result:		Pass		Det	ector		PK		
OdB Bandwidth		1.254MHz							
Ref 10 d	Bm	*Att 20 dB	*RBW 30 *VBW 10 SWT 5	00 kHz		.479868	.59 dBm		
-0		1			BW 1 Temp 1	.254000 [T1 nd	000 MHz		
PK LAXH 10			1	Λ.	2 Temp 2	.479400 [Tl nd	.45 dBm 000 GHz		
-20			V - V	A 47V	2 T2	-23 .480654	.51 dBm 000 GHz		
-30					$\frac{\chi}{-1}$				
40									
-50	M				<u> </u>	$\mathcal{N}_{\mathcal{N}}$	3DB		
-60							~ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
70									
80									
-90									
Center 2.	48 GHz	31	00 kHz/			Spa	n 3 MHz		

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Date: 10.0CT.2024 14:39:35

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Report No.: TWN2409675-01E Page 36 of 44

Date: 2024-10-14

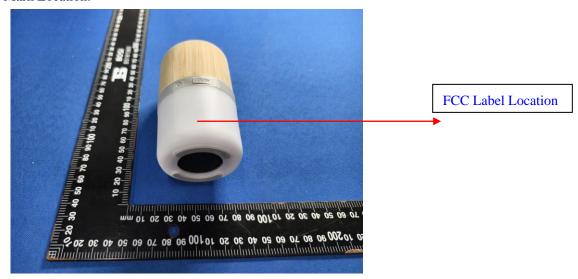


10.0 FCC ID Label

FCC ID: 2APYY-AE0146-A

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:



Page 37 of 44

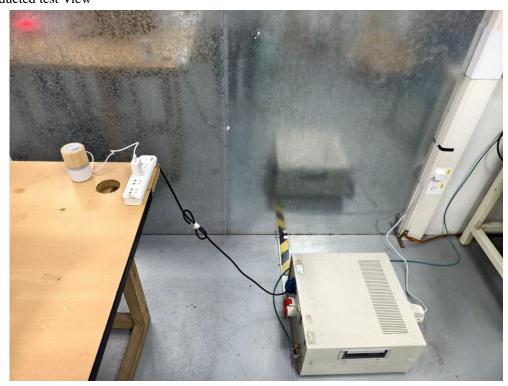
Report No.: TWN2409675-01E

Date: 2024-10-14



11.0 Photo of testing

11.1 Conducted test View



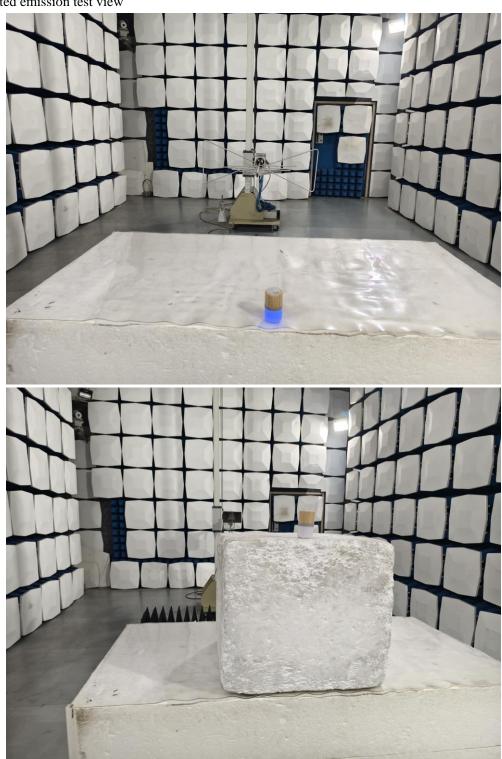
Page 38 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



Radiated emission test view



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Date: 2024-10-14



11.2 Photographs - EUT

Outside View



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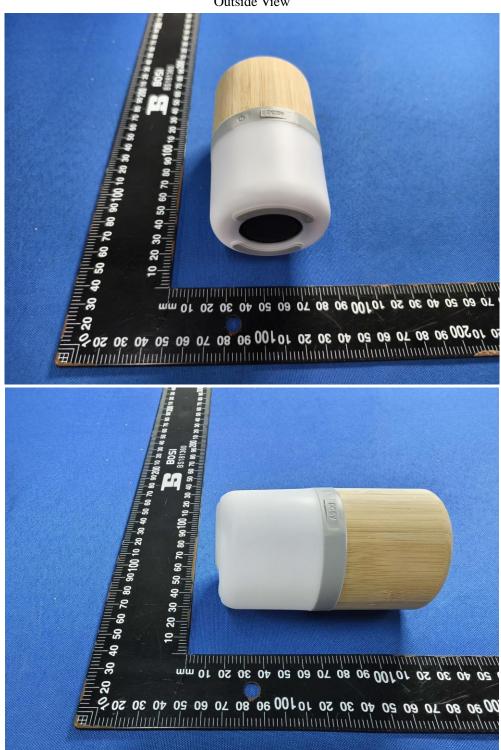
Page 40 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14



Outside View



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

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Page 41 of 44

Report No.: TWN2409675-01E

Date: 2024-10-14





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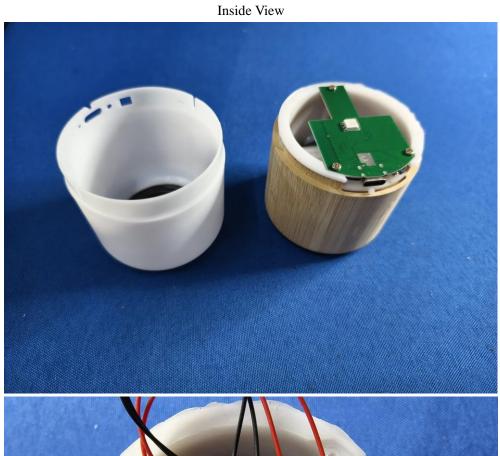
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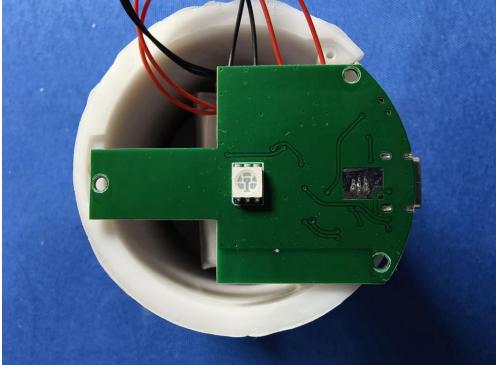
Page 42 of 44

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Page 43 of 44

Report No.: TWN2409675-01E

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Inside View



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Report No.: TWN2409675-01E Page 44 of 44

Date: 2024-10-14



Inside View



-- End of the report--