

File reference No.: 2022-05-19

Applicant: LEADER PREMIUMS LTD.

Product: Wireless speaker

Model No.: AE0204

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

electromagnetic compatibility

Approved By

Terry Tang Manager

Dated: May 19, 2022

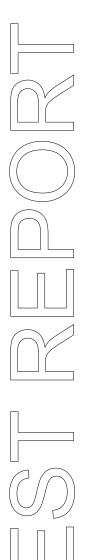
Results appearing herein relate only to the sample tested

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

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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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20dB bandwidth measurement.

FCC ID Label

Photo of Test Setup and EUT View.

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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: LEADER PREMIUMS LTD.

Address: Add:9/F., Hengfu Mansion, NO.858. Fuming Road, Ningbo, China

Telephone: -Fax: --

1.3 Description of EUT

Product: Wireless speaker

Manufacturer: LEADER PREMIUMS LTD.

Address: Add:9/F., Hengfu Mansion, NO.858. Fuming Road, Ningbo, China

Trademark: N/A
Model Number: AE0204
Additional Model Name N/A

Rating: DC5V, 0.5A

Battery: DC3.7V, 1200mAh Li-ion battery
Modulation Type: GFSK and JI/4DQPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79 Channel Separation: 1MHz

Hardware Version: Bluetooth speaker AE0204

Software Version: leader 2022 07

Serial No.: AE0204

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

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2022-05-13 to 2022-05-19

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

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2.0 Test Equipment							
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date		
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17		
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17		
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17		
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17		
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17		
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17		
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01		
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01		
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17		
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17		
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01		
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01		
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17		
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17		
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17		
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17		
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14		
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17		
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17		
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17		
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17		
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17		
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04		

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 teste	d according	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 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

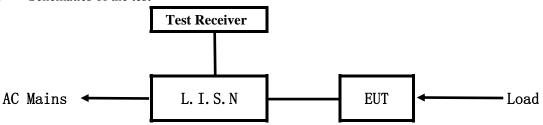
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

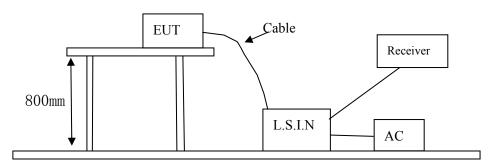


EUT: Equipment Under Test

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.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID	
Wireless speaker	LEADER PREMIUMS LTD.	AE0204	2APYY-AE0204	

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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 C63.4 -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

6 6 1							
Frequency	Limits (dB μ V)						
(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 ~ 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:

Pass

Date: 2022-05-19



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

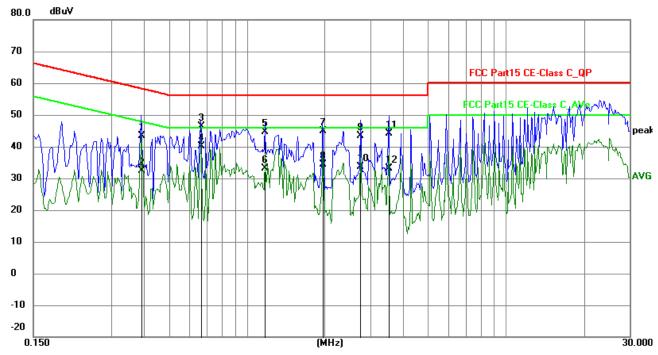
EUT Operating Environment

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 (dBu∀)	Margin (dB)	Detector	P/F
1	0.3918	33.61	9.76	43.37	58.03	-14.66	QP	Р
2	0.3918	22.55	9.76	32.31	48.03	-15.72	AVG	Р
3	0.6648	36.59	9.78	46.37	56.00	-9.63	QP	Р
4	0.6648	30.40	9.78	40.18	46.00	-5.82	AVG	Р
5	1.1756	34.73	9.79	44.52	56.00	-11.48	QP	Р
6	1.1756	23.42	9.79	33.21	46.00	-12.79	AVG	Р
7	1.9635	35.07	9.80	44.87	56.00	-11.13	QP	Р
8	1.9635	24.48	9.80	34.28	46.00	-11.72	AVG	Р
9	2.7473	33.58	9.83	43.41	56.00	-12.59	QP	Р
10	2.7473	23.82	9.83	33.65	46.00	-12.35	AVG	Р
11	3.5343	34.33	9.87	44.20	56.00	-11.80	QP	Р
12	3.5343	23.28	9.87	33.15	46.00	-12.85	AVG	Р

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

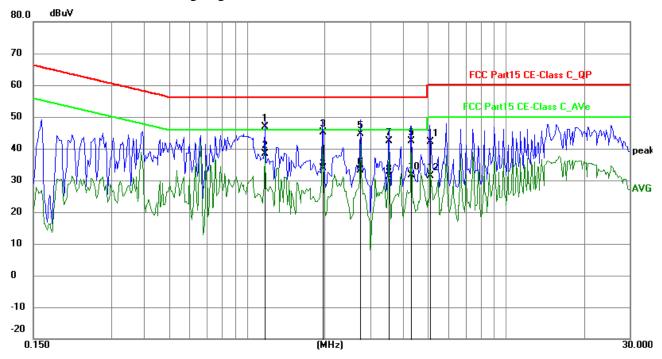
EUT Operating Environment

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	1.1756	37.17	9.79	46.96	56.00	-9.04	QP	Р
2	1.1756	28.47	9.79	38.26	46.00	-7.74	AVG	Р
3	1.9596	35.36	9.80	45.16	56.00	-10.84	QP	Р
4	1.9596	24.13	9.80	33.93	46.00	-12.07	AVG	Р
5	2.7435	34.75	9.83	44.58	56.00	-11.42	QP	Р
6	2.7435	23.26	9.83	33.09	46.00	-12.91	AVG	Р
7	3.5304	32.54	9.87	42.41	56.00	-13.59	QP	Р
8	3.5304	21.25	9.87	31.12	46.00	-14.88	AVG	Р
9	4.3143	32.49	9.90	42.39	56.00	-13.61	QP	Р
10	4.3143	21.82	9.90	31.72	46.00	-14.28	AVG	Р
11	5.0982	32.27	9.93	42.20	60.00	-17.80	QP	Р
12	5.0982	21.45	9.93	31.38	50.00	-18.62	AVG	Р

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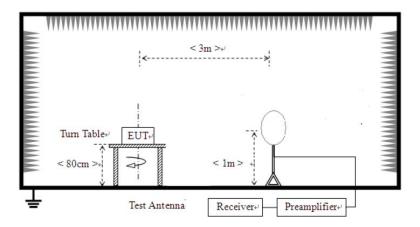


6 Radiated Emission Test

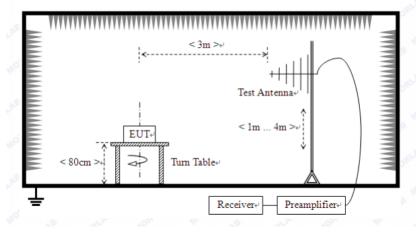
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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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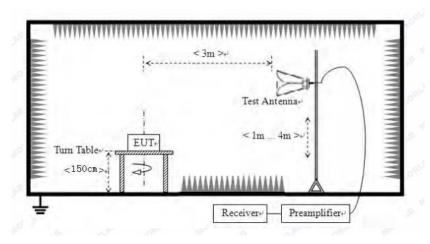
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For radiated emissions above 1GHz



- 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 Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/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 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)
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 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. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. 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.
- 6. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 7. Battery fully charged was used during the test.

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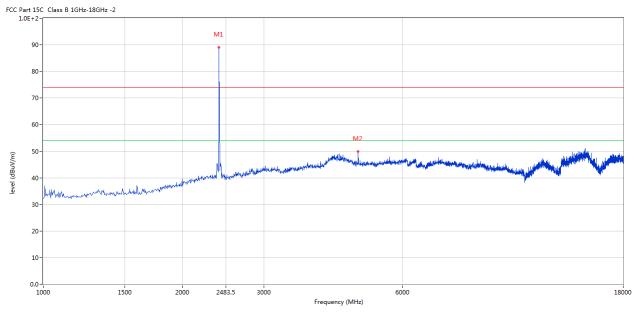


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



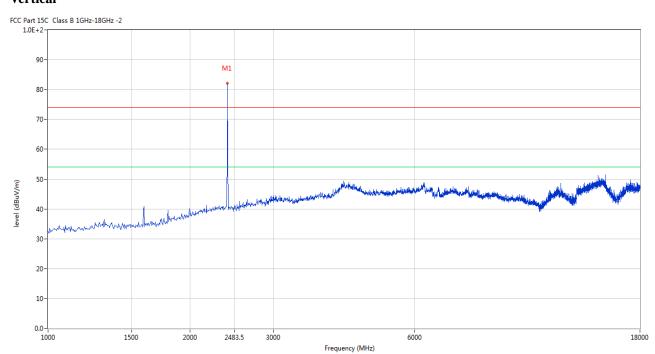
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	89.36	-3.57	114.0	-24.64	Peak	19.00	100	Horizontal	Pass
2	4802.799	49.84	3.12	74.0	-24.16	Peak	13.00	100	Horizontal	Pass

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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	82.41	-3.57	114.0	-31.59	Peak	154.00	100	Vertical	Pass

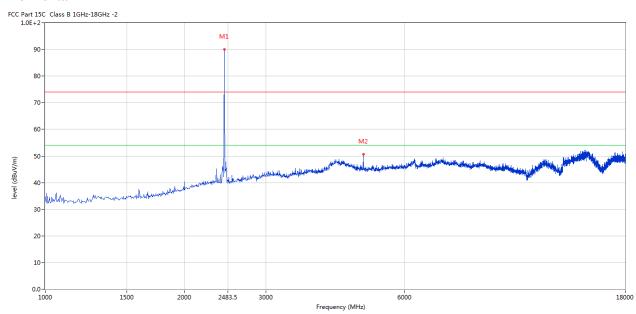
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



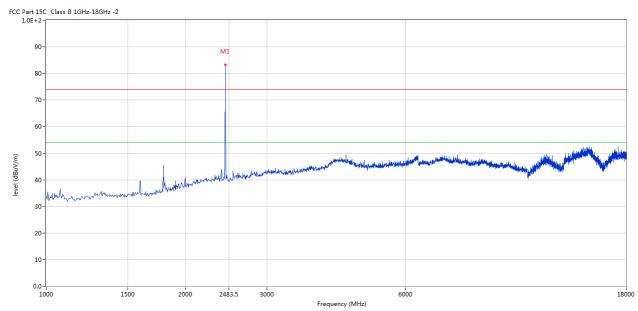
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2441	89.97	-3.57	114.0	-24.03	Peak	37.00	100	Horizontal	Pass
2	4879.280	50.57	3.20	74.0	-23.43	Peak	21.00	100	Horizontal	Pass

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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	2441	83.30	-3.57	114.0	-30.7	Peak	165.00	100	Vertical	Pass

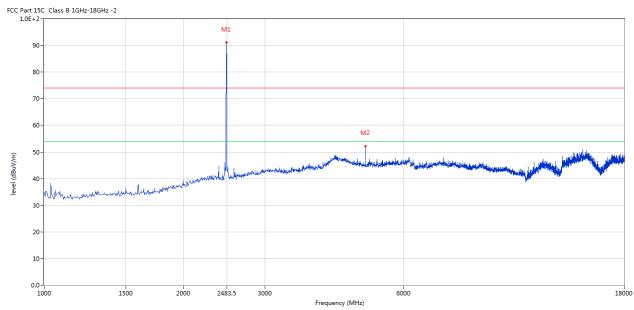
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



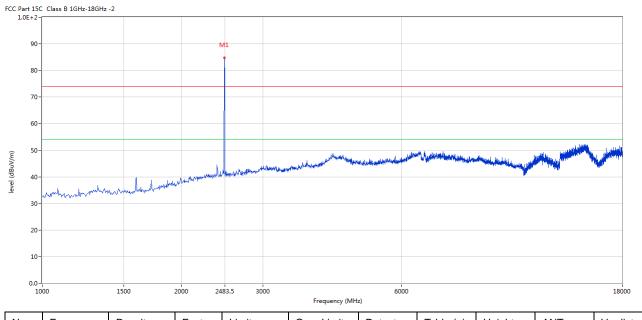
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480	91.57	-3.57	114.0	-22.43	Peak	197.00	100	Horizontal	Pass
2	4960.010	52.22	3.36	74.0	-21.78	Peak	203.00	100	Horizontal	Pass

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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	2478.630	84.78	-3.57	114.0	-29.22	Peak	182.00	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	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	142.492	30.33	-17.32	43.5	-13.17	Peak	343.00	100	Horizontal	Pass
2	171.100	33.16	-15.86	43.5	-10.34	Peak	1.00	100	Horizontal	Pass
3	195.101	38.43	-13.78	43.5	-5.07	Peak	356.00	100	Horizontal	Pass
4*	229.787	41.93	-12.68	46.0	-4.07	QP	351.00	134	Horizontal	Pass
5	257.893	40.79	-11.84	46.0	-5.21	Peak	222.00	100	Horizontal	Pass

200

Frequency (MHz)

1000

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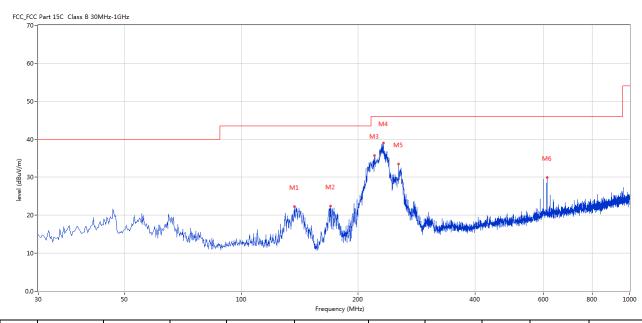


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	137.158	22.27	-17.21	43.5	-21.23	Peak	270.00	100	Vertical	Pass
2	169.645	22.36	-16.06	43.5	-21.14	Peak	288.00	100	Vertical	Pass
3	220.557	35.78	-13.30	46.0	-10.22	Peak	66.00	100	Vertical	Pass
4	232.194	38.97	-12.53	46.0	-7.03	Peak	223.00	100	Vertical	Pass

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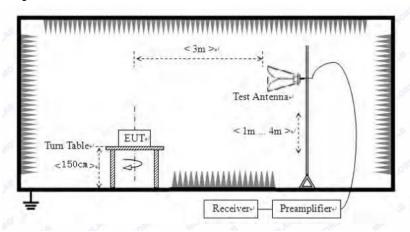


7. Band Edge

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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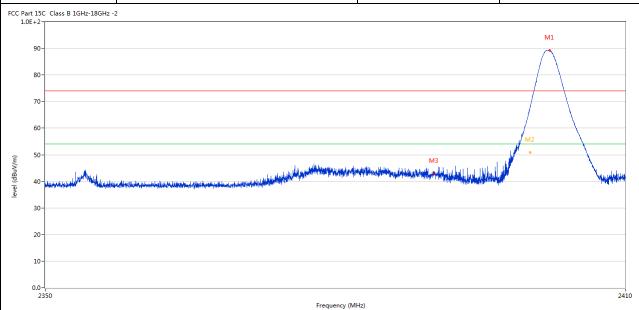
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7.6 Test Result

Product:	Wireless speaker	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 (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.097	89.25	-3.57	74.0	15.25	Peak	21.00	100	Horizontal	N/A
2	2400.042	67.57	-3.57	74.0	-6.43	Peak	202.00	100	Horizontal	Pass
2**	2400.042	50.76	-3.57	54.0	-3.24	AV	202.00	100	Horizontal	Pass
3	2390.055	42.93	-3.53	74.0	-31.07	Peak	208.00	100	Horizontal	Pass

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P	roduct:		Wire	eless speake	r	D	etector		Vertical	
]	Mode		Keepin	g Transmitt	ing	Tes	t Voltage		DC3.7V	7
Ten	nperature		2	4 deg. C,		Hı	umidity		56% RE	I
Tes	t Result:			Pass						
Part 150 1.0E+2-	Class B 1GHz-18GHz	-2								
90-										
90-									M1	
80-									\bigcap	
70-								/		
60-								/		
								f	\	
									<u> </u>	
50-							Mal	Lulu talle at till take M2		
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40 - 30 -	listor, which travely him and the except forces	contracts to the abbrevious de	allyl mannybrhindral	ng ilahat, ai kati ai papa pikana iyid kapat	eliyil yil sirkiri ya qayay ya sirkir	ndanagaleipheiphaghaisea		M2		andistrus familiari
40-	kisa, nishkis sodhilas noblas nishkon s	garantan kada akan da da	alka suureen jarkke kuskus	ne, liber z i kiril s kięczenkiero jektoren	allegilade dish berang esta ya estab	ndinagaleripiseti kandusuk		• M2		and is the part of the second
40 - 30 -	li kir, si dali Live (balian merkensa) kenn	n cadactan ann ha i dhu abhan an i dh	all d. season, per him bester	madikasi at inteles yaya bahan yekilan inte	elingii, sajani keenga ayaa garabii	ndengaleriye edi.h	A CONTRACTOR OF THE PARTY OF TH	M2 •		May de l'Arro, Auroldo Mil
40- 30- 20- 10-		n cadacan da sakiba akhan akid da	allal suaren spekke kuntu	ng disert disert diserting deletion	Mary Mary Consumble	on the state of th		M2 •		7,4184
40- 30- 20- 10-	his, with the second for second f	n cadanna na ha indhu abhanna ni dh	alkal suureen plakken kuulsa	ng digina a si pang pingga palingan ya dalah gari	Frequency (MH			M2 •		2410
40- 30- 20- 10- 0.0- 23		Results	Factor	Limit	and a second	z) Detector	Table (o)	Height	ANT	2410
40- 30- 20- 10- 0.0- 23	550	The second secon			Frequency (MH	1	Table (o)	Height (cm)	ANT	2410
40- 30- 20- 10- 0.0- 23	Frequency	Results	Factor	Limit	Frequency (MH	1	Table (o)	_	ANT Vertical	2410
40- 30- 20- 10-	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MH Over Limit (dB)	Detector		(cm)		2410 Verdic
40- 30- 20- 10- 0.0- 23	Frequency (MHz) 2401.782	Results (dBuV/m) 82.33	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MH Over Limit (dB) 8.33	Detector Peak	156.00	(cm)	Vertical	2410 Verdic

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Produ	uct:		V	Vireless spe	aker		Polar	ty Horizontal					
Mod	de		Kee	eping Transı	nitting		Test Vo	ltage	nge DC3.7V				
Tempera	rature			24 deg. C	·,		Humi	dity	56% RH				
Test Re	esult:			Pass									
C Part 15C Class I	s B 1GHz-18GHz	-2											
90-													
80-													
70-			\rightarrow										
60-			M										
		100											
50-		Julykan			M								
50-	enderelistist for the state of	April 18 - A Lough Land Age of the state of			M2	ndprojektifikajenkilotronogra	- glish escreption before state description	and the state of t	a _n , simprop _{ilis} deleta esperante del parti	YLM gaper Hegal Migray			
40-	the land of the la	Harriston a Joseph Land of Marie Control			M2	odjogisteldgeldssoneder	. glib iir reamhneainn dung,	ndalita dipanda di dina	t _a pholographic copyright high ph	Makangari Masakhipas			
50- 40-	Andrea Proposition and Andrea State of the And	the state of the s			M2	adiographic design	, dipetriampedial	glod jringsjilo ^{thy} ar gyntrippi	n _a zintennektennektennektenten	Yahanevitenthi,en			
40-	Holonopalaki	in the second se			M2	enterphiliphis perhiture and pro	i diperiorani	addinodilly particular	n _{g p} indung _{di} dung ng pindung di ng pindung	Halaman Harak			
40- 30-	halada karanga kalada karanga	iperish salashidid			M2	entriphistology, billion, and b	rgildriscopping and an artistic street,	add iroglib bragairega	લ _ા કંપનેલગ _{ાના} કંપનેલગા _{લા} કંપનેલગા _{લા} કંપને	grad _{ne} govings/fig.es.			
40	hadin kangan kalaban	innish-alahidi				polytrophistope before a program	o gili haise quan hanna na dan da da ng	add ico _o did brongelityd	n _{g s} indron _{se} di Panggalani, digadh	2500			
30- 20-	Andrea of the state of the stat	the state of the s			M2 2483.5 Frequency (M		, gilj h vija aga se henne njerkelang,	addino, jid bo ongabeya	e _{n d} issipering ik Maringga kalip dalip gaba	2500			
40 - 40 - 20 - 20 - 2470	requency	Results	Factor	Limit	2483.5		Table (o)	Height	ANT	2500 Verdic			
40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	requency //Hz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (M	Hz)			ANT	1			
30- 20- 10- 2470					2483.5 Frequency (M	Hz)		Height	ANT Horizontal	1			
30- 20- 10- 2470 No. Fre (MI 1 248	⁄IHz)	(dBuV/m)	(dB)	(dBuV/m)	2483.5 Frequency (M Over Limit (dB)	_{Hz)} Detector	Table (o)	Height (cm)		Verdic			

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Pı	roduct:			Wireless sp	peaker		Det	ector	r Vertical				
l	Mode		K	eeping Tran	smitting		Test V	Voltage	DC:	3.7V			
Ten	nperature			24 deg.	C,		nidity	dity 56% RH					
Tes	t Result:			Pass									
2 Part 150	C Class B 1GHz-18GHz	-2											
90-													
80-			/										
70-													
60-				`	M2								
		lan th	MAN AND AND AND AND AND AND AND AND AND A		M2								
	nov, pilmon in the making while a mile had	ada adala and gada da	Land Control of the C			rdandelikahan indepension	neckelogicylyddiword, dynaddle sady	history and the special specia	on the second second second	He have a refresh have			
	والمادولة المسيبان عدورة معانير بعد	at a state and the state of the				rldig, frisksje, ar redejensteres	andre of the section	kitha dililik katawa dag	the state of the s	Holdward of the Assession			
50 - 40 -	والمادية والمراجعة و	ater Antonio antiqui de principale de la constantina della constan				rdinadalika arabiya (itan	a da la cale de la cal	kishin dalipekisi da	o decisione de la companie de la co	Holomorphis de Songel			
50 - 40 - 30 -	Hercifonskryterskrytersk blig esklede	atio shekara ka		,		rd by Arlahda waranda bunisha s	ecque hijogly librorit, iku nikk unik	i si ka palifit ka ya ya wa da y	n denish nga kapalan k	At Lancarith Andrope			
50 - 40 - 30 - 20 -		ato, shakeaniyaliyakida				rdigestriskete en med president	andrakaj of planski dan dibi kunda	k telk kan publik kepera grans daga	a, dariphira, h _a r dariphira dh _{ar} dhabhagh <mark>a</mark> n	Hard Land Confession			
50 - 40 - 30 - 20 - 10 -		ni er skulturani er di pekkeralik					en des des projet de la companya de	hither district and a	o decidence have been fell a supply of the later feet	2500			
50- 40- 30- 20- 10- 0.0-1 24		Results	Factor	Limit	2483.5		Table (o)	Height	ANT				
50 - 40 - 30 - 20 - 10 -	170		Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MF	łz)				2500			
50- 40- 30- 20- 10- 0.0-1 24	Frequency	Results			2483.5 Frequency (MF	łz)		Height		2500			

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 -0.58dBi Max. It fulfills the requirement of this section. Test Result: Pass

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SK											
Product:		Vireless spea				est Mode:		Keep tran			
Mode	Kee	ping Transm			Те	st Voltage		DC3	.7V		
Геmperature		24 deg. C,			I	Humidity		56% RH			
Test Result:		Pass			I	Detector	PK				
B Bandwidth 895.79kHz											
	Marke	r 1 [T1 r	ndB]	R	BW	30 ki	Hz Ri	F Att	20 dE	;	
Ref Lvl	ndB	20	.00 dB	V	BW	100 k	Hz				
10 dBm	BW 8	95.791583	317 kHz	SI	TW	8.5 m	s Ui	nit	dE	m	
10						v ₁	[T1]	-3	.50 dB	m	
								2.40181	663 GH	z	
0			1			ndB		20	.00 dB		
			M	Λ		BW		5.79158			
10			 	1		$ abla_{\mathrm{T}1}$	[T1]	-23	.73 dB		
			\mathcal{N}		Z	V 0	[T1]	2.40152			
-20		TA/				V _{T2}	[11]	2.40241			
1 MAX						W.			, 0 1 011	1	
40	<u></u>	<i>/</i>					ly,				
50								M			
ham of	V						V	V VVV			
60									W.	4	
70											
80										-	
90 Center 2.4				kHz/					n 3 MH		

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Product:		Wire	less speak	er		Т	est Mode:		Keen tr	ansmitting		
Mode			g Transmi			+	est Voltage			3.7V		
Temperature			4 deg. C,	umg		+	Humidity			% RH		
Test Result:		۷٠	Pass			_	Detector		PK			
20dB Bandwidth		889.78kHz				Detector			PK			
A Danuwium								=				
Ref Lvl		Marker ndB	1 [T1 r	adB] .00 dB		RBW /BW	30 k 100 k		F Att	20 dB		
10 dBm			.779559			SWT	8.5 m		nit	dBm	ı	
10	<u> </u>								1		ı	
							v ₁	[T1]	-2	2.92 dBm 663 GHz	A	
0				<u> </u>			ndF		2.44083	0.00 dB		
				Mor	\cap		BW	8	89.77955			
-10					VY	<u></u>	$ abla_{\mathrm{T}}$	[T1]	-23	.00 dBm		
			4	\checkmark		5	_		2.44052			
-20						V	V _{T2}	[T1]	-22	2.59 dBm		
1MAX									2.44141	182 GHz	1M	
-30			,)	<u></u>				
-40	~~~								~			
-50	/	J						~	7			
-60										ha ham		
-70												
-80												
-90		_										
Center 2	.441 GH	lz		300	KHZ/	•			Spa	an 3 MHz		

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Product:		Wire	less speak	er		Т	est Mode:		Keen tr	ansmitting		
Mode Mode			g Transmi				est Voltage			3.7V		
			4 deg. C,	ung		-	Humidity	'		% RH		
Temperature Test Result:			Pass			_	Detector		PK			
	0dB Bandwidth		889.78kHz				Detector		PK			
odb Bandwidth				1-1								
Ref Lvl		marker ndB	1 [T1 r	oo dB		RBW /BW	30 ki 100 ki		F Att	20 dB		
10 dBm			.779559			SWT	8.5 m		nit	dBm	ı	
10							_				Ī	
							v ₁	[T1]	-2	.76 dBm 1062 GHz	A	
0				<u> 1</u>			ndB	<u> </u>	2.47961	0.00 dB		
				M	\cap		BW	8	89.77955			
-10					V 4		$ abla_{\mathrm{T1}}$	[T1]	-21	2.82 dBm		
			لم	\checkmark		4			2.47952	204 GHz		
-20							∇_{T2}	? [T1]	-21	2.42 dBm		
1MAX							لكر		2.48041	182 GHz	1M	
-30			/				M					
								\				
-40	m							\	m			
-50	/	A						∀-	7	4.4		
-60										- Markaday		
-70												
-80												
-90												
Center 2	.48 GHz	2		300	kHz/	′			Spa	an 3 MHz		

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Л/4DQPSK								
Product:	Wireless spea	aker	Test	t Mode:		Keep tran	smitting	
Mode	Keeping Transr	nitting	Test	Voltage		DC3.	.7V	
Temperature	24 deg. C	,	Hu	ımidity		56%	RH	
Test Result:	Pass		De	etector	PK			
20dB Bandwidth	1.263MH	Z						
Ref Lvl	Marker 1 [T1 ndB 20		RBW VBW	30 kH 100 kH		7 Att	20 dB	
10 dBm	BW 1.26252	505 MHz	SWT	8.5 ms	. Un	nit	dBm	1
0				V 1	[T1]	-3 2.40181	.50 dBm 663 GHz	A
-10		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	١	ndB BW ∇ _{T1}	[T1]	20 1.26252 -23	.00 dB 505 MHz	
-20	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		m	~__\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	[T1]	2.40134 -23	.69 dBm	
1MAX	T1				\ \	2.40260	421 GHz	1MA
-40	\sim					m/		
-60						J. V.	M. M.	
-70								
-80								
-90 Center 2.402 Center 17.MAY.		300 kHz	/	L		Spa	n 3 MHz	I

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Product:	Wire	eless speak	er		Гest Mode:		Keep tran	nsmitting	
Mode		g Transmit		Г	est Voltage		DC3	.7V	
Temperature	2	4 deg. C,			Humidity		56%	RH	
Test Result:		Pass			Detector	PK			
dB Bandwidth	1	.263MHz						-	
	Marker 1 [T1 ndB]				30 kH	Iz RF	Att	20 dB	
Ref Lvl	ndB		00 dB	VBW	100 kH				
10 dBm	BW 1	1.262525	05 MHz	SWT	8.5 ms	uni Uni	t	dBm	
10					v ₁	[T1]	-2	.97 dBm	A
						2	.44081	63 GHz	
0			Ž a		ndB		20.	.00 dB	
			//	~	$oldsymbol{ abla}_{ ext{T1}}$	[T1]	. 262525	05 MHz	
-10		\sim	/ `	m lm	My		-23 .440341		
					V \\T_2	[T1]		.00 dBm	
-20	T	Y				2	.441604	121 GHz	
1MAX						\			1M
-30									
-40	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					M	1		
-50							Vhu	yn m	
-60								- 4	
-70									
-80									
-90 Center 2.44			300					n 3 MHz	

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Product:	Wire	eless speak	er		Te	est Mode:		Keep transmitting			
Mode		g Transmit			Те	st Voltage			3.7V		
Temperature		4 deg. C,			I	Iumidity		56% RH PK			
Test Result:		Pass				Detector					
OdB Bandwidth		.263MHz									
r)	Marker	1 [T1 n	dB]	RI	ЗW	30 ki	ız Ri	7 Att	20 dB		
Ref Lvl	ndB		00 dB	VI	ЗW	100 kH					
10 dBm	BW 3	L.262525	05 MHz	SV	TW	8.5 ms	s Uı	nit	dBm	ı	
10						v ₁	[T1]	-2	.77 dBm	A	
								2.47981	663 GHz		
0			Ž a			ndB		20	.00 dB		
			/ / \	√		BW ▼ _{T1}	[T1]	1.26252	505 MHz		
-10		\mathcal{M}	√ \	<u></u>	\sim	7	<u> </u>	2.47934			
						, AL 2	[T1]	-23	.16 dBm		
-20 1MAX	7						2	2.48060	421 GHz	1M	
							7				
-30											
-40	M						W	M			
-50							V	- WW	The many		
-60											
-70											
-80											
-90 Center 2.4	48 CH2		300	kus/				gn.	n 3 MHz		

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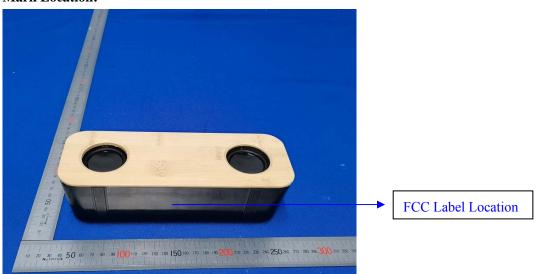
10.0 FCC ID Label

FCC ID: 2APYY-AE0204

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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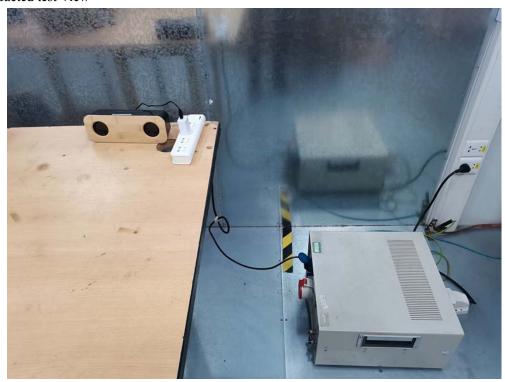
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11.0 Photo of testing

Conducted test View 11.1



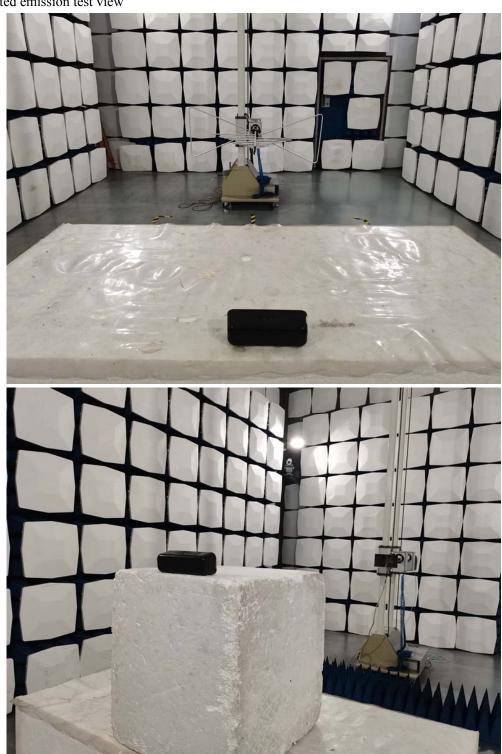
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Radiated emission test view



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

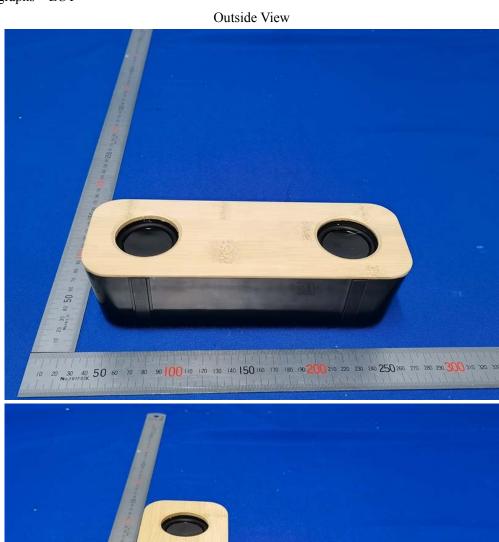
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11.2 Photographs – EUT





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Outside View



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Inside view



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Inside view



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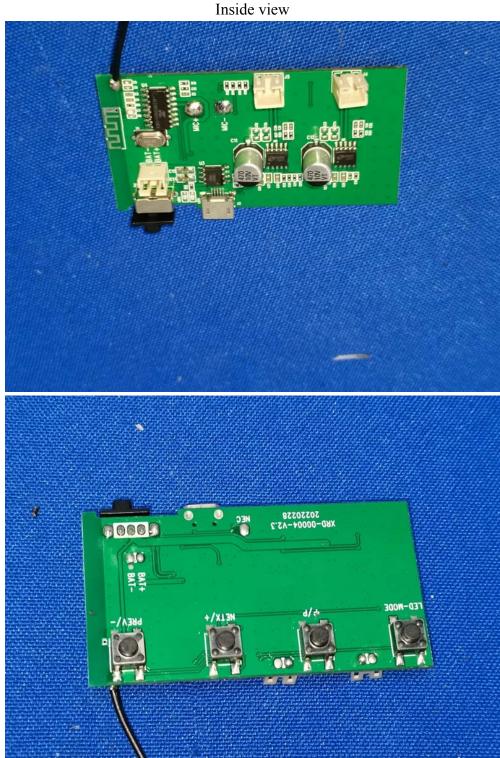
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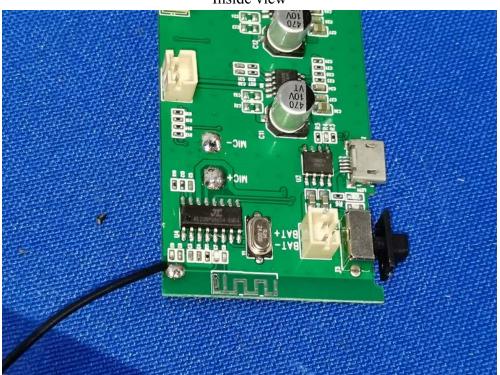
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Inside view





-- End of the report--

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