

Applicant: LEADER PREMIUMS LIMITED

Product: Wireless Charger & Speaker

Model No.: AB0322

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

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: November 14, 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 17025:2017 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: 2022-11-14



Test Report Conclusion

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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 LIMITED

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

Telephone: -Fax: --

1.3 Description of EUT

Product: Wireless Charger & Speaker

Manufacturer: LEADER PREMIUMS LIMITED

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

CHINA

Trademark: N/A
Model Number: AB0322
Additional Model Name N/A

Rating: Type-C Input: DC5V, 3A, DC9V, 3A Battery: DC3.7V, 300mAh Li-ion battery

Remark: During the test, the power supply was selected for the final measurement, and it was the worst case.

Modulation Type: GFSK, Л/4DQPSK Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz

Hardware Version: Wirelesscharging-AB0322

Software Version: leader.1804.01 Serial No.: AB0322

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

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1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2022-10-20 to 2022-11-14

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	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
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	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic		1	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2022-07-15	2023-07-14
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

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

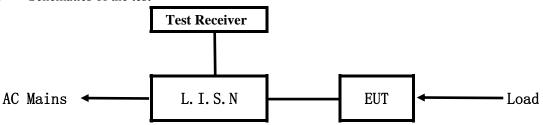
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

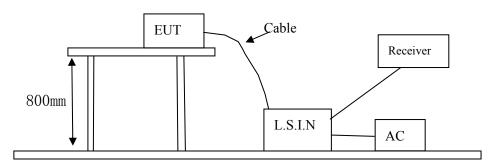


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15 MHz to 30 MHz was investigated. The LISN used was 500 hm/50 uH 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 Charger &	LEADER PREMIUMS	A E0222	2 A DVV A D0222
Speaker	LIMITED	AE0332	2APYY-AB0332

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Chenyang	UP0920	Input: 100-240V~, 50-60Hz, 0.5A;
			Output: DC5V/3A or DC9V, 3A

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	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)

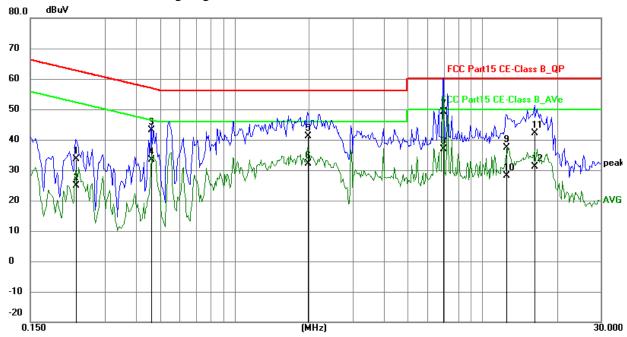
EUT Operating Environment

Temperature: 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	0.2280	23.78	9.75	33.53	62.52	-28.99	QP	Р
2	0.2280	15.10	9.75	24.85	52.52	-27.67	AVG	Р
3	0.4620	33.35	9.77	43.12	56.66	-13.54	QP	Р
4	0.4620	23.66	9.77	33.43	46.66	-13.23	AVG	Р
5	1.9752	31.44	9.80	41.24	56.00	-14.76	QP	Р
6	1.9752	22.38	9.80	32.18	46.00	-13.82	AVG	Р
7	6.9507	39.11	10.01	49.12	60.00	-10.88	QP	Р
8	6.9507	26.99	10.01	37.00	50.00	-13.00	AVG	Р
9	12.4770	27.20	10.27	37.47	60.00	-22.53	QP	Р
10	12.4770	17.98	10.27	28.25	50.00	-21.75	AVG	Р
11	16.2833	31.64	10.46	42.10	60.00	-17.90	QP	Р
12	16.2833	20.55	10.46	31.01	50.00	-18.99	AVG	Р

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

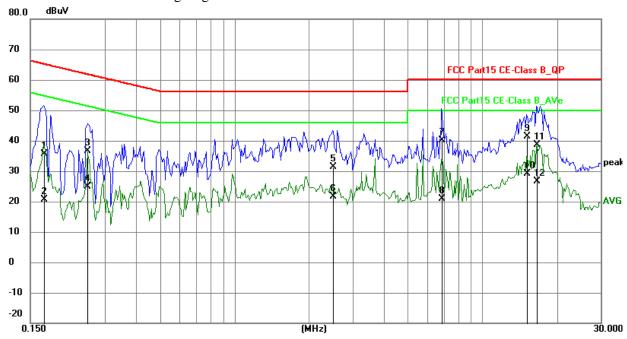
EUT Operating Environment

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	0.1695	25.77	9.77	35.54	64.98	-29.44	QP	Р
2	0.1695	10.83	9.77	20.60	54.98	-34.38	AVG	Р
3	0.2553	26.89	9.75	36.64	61.58	-24.94	QP	Р
4	0.2553	15.08	9.75	24.83	51.58	-26.75	AVG	Р
5	2.4978	21.56	9.82	31.38	56.00	-24.62	QP	Р
6	2.4978	11.91	9.82	21.73	46.00	-24.27	AVG	Р
7	6.8571	30.16	10.00	40.16	60.00	-19.84	QP	Р
8	6.8571	10.88	10.00	20.88	50.00	-29.12	AVG	Р
9	15.0783	31.06	10.38	41.44	60.00	-18.56	QP	Р
10	15.0783	18.83	10.38	29.21	50.00	-20.79	AVG	Р
11	16.5369	28.13	10.47	38.60	60.00	-21.40	QP	Р
12	16.5369	16.17	10.47	26.64	50.00	-23.36	AVG	Р

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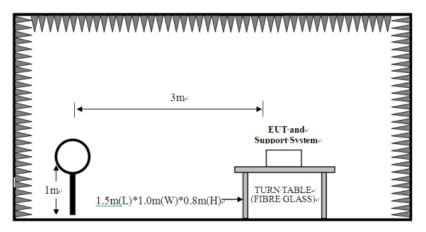


6 Radiated Emission Test

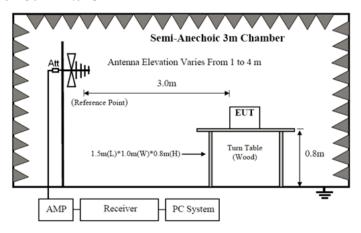
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size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



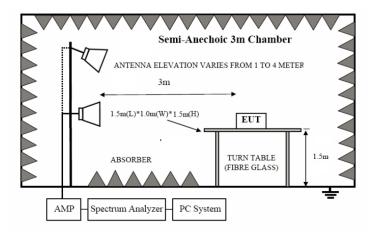
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For radiated emissions above 1GHz



- 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 Strength of Fundamental (3m)			Field Strength of Harmonics (3m)			
(MHz)	mV/m	dBuV/m		uV/m	dBuV/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. 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 and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. 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.

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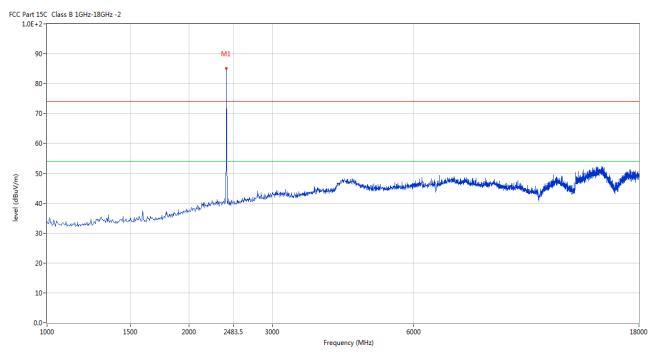


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



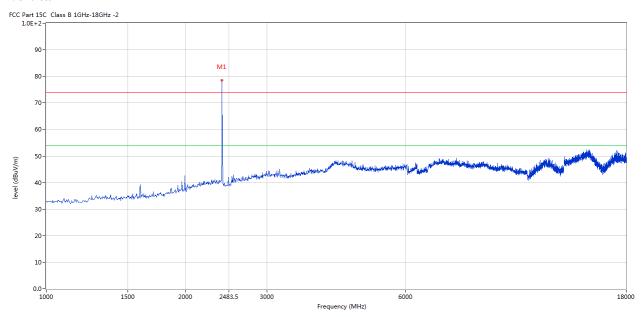
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	85.07	-3.57	114.0	-28.93	Peak	134.00	100	Horizontal	Pass

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Vertical



١	۱o.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2402	78.83	-3.57	114.0	-35.17	Peak	333.00	100	Vertical	Pass

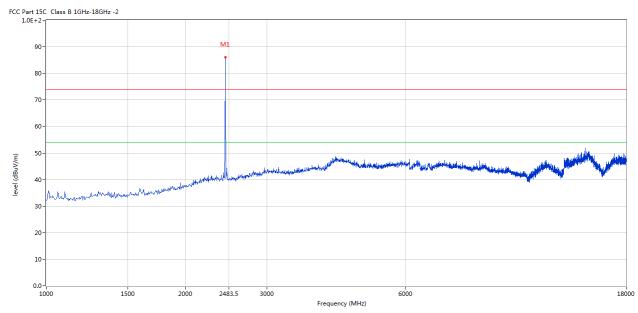
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



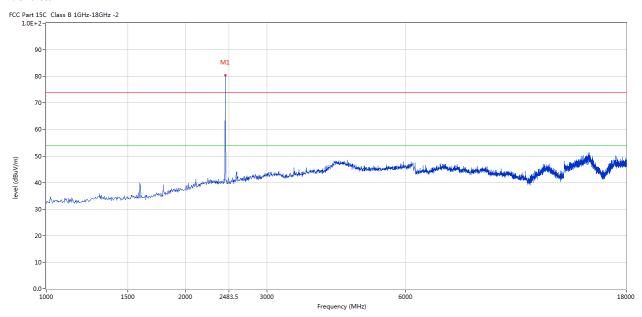
	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
Ī	1	2441	86.03	-3.57	114.0	-27.97	Peak	238.00	100	Horizontal	Pass

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Vertical



1	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	1	2441	80.37	-3.57	114.0	-33.63	Peak	176.00	100	Vertical	Pass

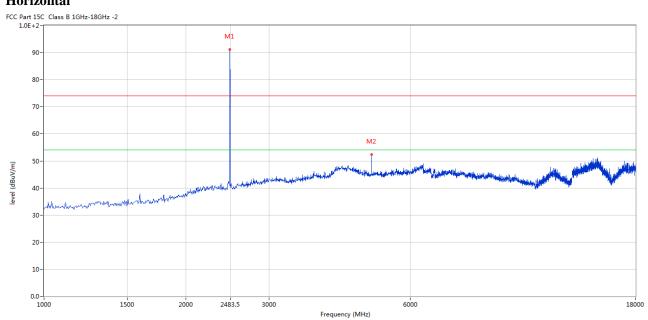
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



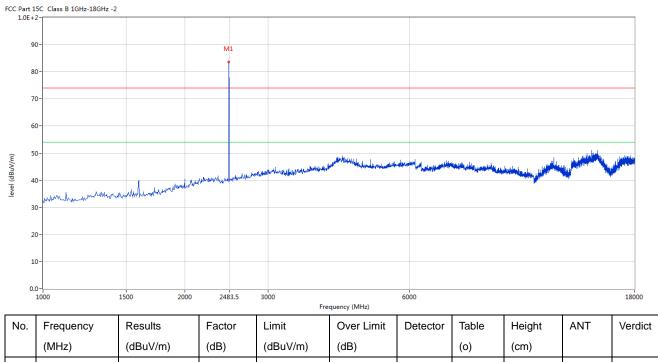
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	90.95	-3.57	114.0	-23.05	Peak	151.00	100	Horizontal	Pass
2	4960.010	52.28	3.36	74.0	-21.72	Peak	136.00	100	Horizontal	Pass

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Vertical



171.00 Pass 2480 83.59 -3.57 114.0 -30.41 Peak 100 Vertical

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.

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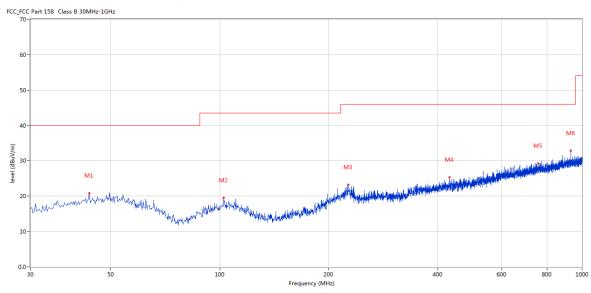


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	43.577	20.79	-11.49	40.0	-19.21	Peak	303.00	100	Horizontal	Pass
2	102.489	19.54	-13.41	43.5	-23.96	Peak	307.00	100	Horizontal	Pass
3	225.891	23.15	-12.85	46.0	-22.85	Peak	100.00	100	Horizontal	Pass
4	430.995	25.29	-8.00	46.0	-20.71	Peak	285.00	100	Horizontal	Pass
5	756.348	29.26	-3.28	46.0	-16.74	Peak	237.00	100	Horizontal	Pass
6	931.390	32.88	-1.66	46.0	-13.12	Peak	307.00	100	Horizontal	Pass

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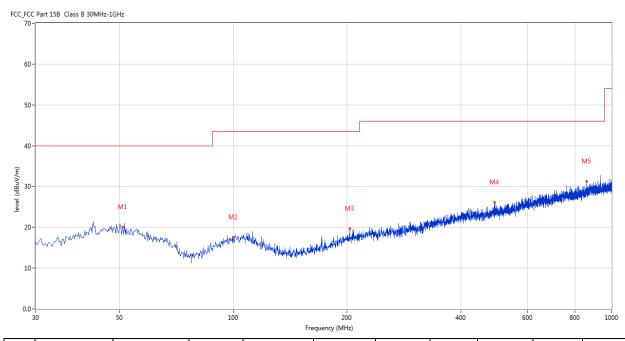


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	51.092	20.04	-11.41	40.0	-19.96	Peak	1.00	100	Vertical	Pass
2	100.065	17.54	-13.52	43.5	-25.96	Peak	0.00	100	Vertical	Pass
3	203.344	19.66	-13.46	43.5	-23.84	Peak	16.00	100	Vertical	Pass
4	490.635	26.05	-7.20	46.0	-19.95	Peak	13.00	100	Vertical	Pass
5	858.900	31.21	-2.34	46.0	-14.79	Peak	1.00	100	Vertical	Pass

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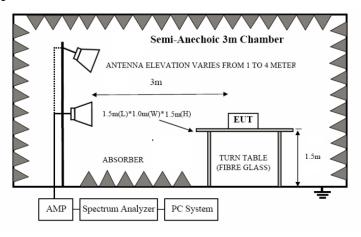


7. Band Edge

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.

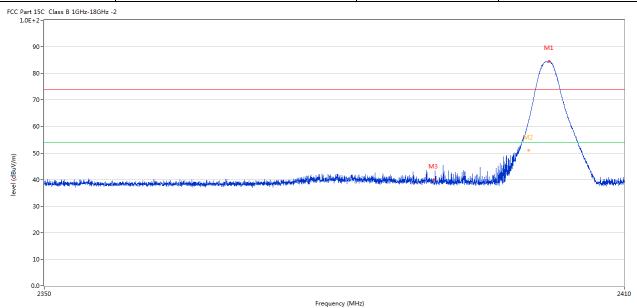
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7.6 Test Result

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

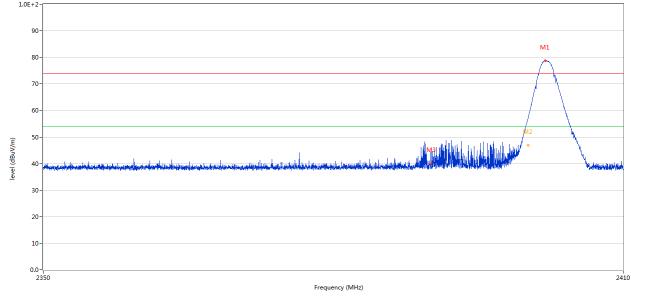


No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.142	84.65	-3.57	74.0	10.65	Peak	259.00	100	Horizontal	N/A
2	2400.027	62.44	-3.57	74.0	-11.56	Peak	145.00	100	Horizontal	Pass
2**	2400.027	50.98	-3.57	54.0	-3.02	AV	145.00	100	Horizontal	Pass
3	2390.085	40.00	-3.53	74.0	-34.00	Peak	32.00	100	Horizontal	Pass

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Wireless Charger & Speaker	Detector	Vertical
Keeping Transmitting	Test Voltage	DC3.7V
24 deg. C,	Humidity	56% RH
Pass		
		M1
	Keeping Transmitting 24 deg. C,	Keeping Transmitting Test Voltage 24 deg. C, Humidity



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.812	78.77	-3.57	74.0	4.77	Peak	334.00	100	Vertical	N/A
2	2400.042	57.01	-3.57	74.0	-16.99	Peak	184.00	100	Vertical	Pass
2**	2400.042	46.93	-3.57	54.0	-7.07	AV	184.00	100	Vertical	Pass
3	2390.025	40.03	-3.53	74.0	-33.97	Peak	114.00	100	Vertical	Pass

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]	Product:		Wireless C	Charger & Sp	eaker		Polari	ty	Horizo	ntal	
	Mode		Keepin	g Transmitti	ng		Test Vol	tage	DC3.7	7V	
Те	mperature		2	4 deg. C,			Humid	ity	56% RH		
Te	est Result:			Pass							
Part 1	15C Class B 1GHz-18GHz 2-	-2									
8	10-		MI								
	0-	اليام من الماليان ال الماليان الماليان ا		M2							
5 4 3	io-daelpahladhibhadhiganhaag	Mark Mark Mark Mark Mark Mark Mark Mark		M2	Water House	Market July and Market Mily	alier analysi, protest pagyadrala	Mija kalikaji Probacaja dali	a physical policy law control particle and the	obaqiligiyya dib	
5 4 3 2	10-dayladdd y dayl	Market Ma		M2	5 Frequency (MHz)	and the second s	hiriradak padipagahal	Military Parket Control	aphydraethid yddioleg y ardellog y	2500	
5 4 3 2 1	0	Results (dBuV/m)	Factor (dB)	Limit	Over	Detector	Table (o)	Height (cm)	ANT	ı	
5 4 3 2 1 0.	0-40-40-40-40-40-40-40-40-40-40-40-40-40	Results (dBuV/m) 90.83	(dB)	T	Frequency (MHz)	Detector	Table (o) 140.00	Height (cm)	ANT	ı	
5 4 3 2	Frequency (MHz)	(dBuV/m)		Limit (dBuV/m)	Over Limit (dB)		(0)	(cm)		Verd	

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]	Product:		Wireless	Charger & S	Speaker		Detecto	or	Vertic	al		
	Mode		Keepii	ng Transmit	ting		Test Volt	age	DC3.7	'V		
Те	mperature		2	24 deg. C,			Humidity 56%					
Te	est Result:			Pass								
C Part 1	15C Class B 1GHz-18GHz	-2				•		•				
1.021												
9	90-		M1									
8	30-											
7	70-											
	_											
_				4								
6	-00	البين		M2								
_	50-			M2	\ \							
_	50-	Ann stabillable before the second		M2	Manual Hadding to the last			tish Leavelle tenish (1914)		alable of he		
. 5		And Market Hall Bridge Commence		M2	Marriella della trada		rahas disability od	inkalasah tau di Mei	h La la Maria de La Caración (La Caración Caraci	and have ha		
5	10 - Managari Inna Lin and Line d	den sidad de la comoción de la comoc		M2	Marael Handel English			iah kasan ing killa	h kal addy suban sail di dan ad	and here has		
5	10-Managed Break Line (1994)	dan salah kalendaran		M2	Mar and Alberta States	المنطط فيفط أوالعالب	te a hoard has his his and	ich blaum ten filler	k kalenten islanda kanada	and the second		
. 5 . 4 . 3	10 - Managari Inna Lin and Line d	den sidad de la comorna		M2	Manual Mandal Linde			ing haranga ing ga Man	i interpretancial discorp	and the		
. 5	10 - Manage Mana	Acres Added by the second				المنطقة فقاله والمخالب		iah keraja den di Ma	stude observations and deliverage			
. 5 . 4 . 3 . 2	10 Managarith in the second	Alexandra de la companya della companya della companya de la companya de la companya della compa		M2 2483.				tabelinasioninus de 1904	i ulusis palancia de la magi	2500		
5 4 3 2	10 - Manage Mana	Results	Factor		5	Detector	Table	Height	ANT			
3 3 2 2 0.	10 May 24		Factor (dB)	2483.	; Frequency (MHz)					2500		
3 3 2 2 0.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Results		2483.	5 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. For Restricted band test, the two modulation modes of GFSK and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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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 Modulation										
Product:	Wireless	Charger &	Speaker		T	est Mode:		Keep tran	smittin	g
Mode Keeping Transmitting Temperature 24 deg. C,			itting		Test Voltage		DC3.7V			
Semperature 24 deg. C,					Humidity			56%	RH	
Test Result: Pass						Detector		PF	ζ.	
dB Bandwidth		865.73kHz								
Ref Lvl	Marker ndB	1 [T1 r	ndB] .00 dB		BW BW	30 k 100 k		F Att	20	dВ
10 dBm	BW 86	5.731462	293 kHz	SI	TW	8.5 m	s Ui	nit		dBm
10						v ₁	[T1]	-1	.14	dBm
			1					2.40183	467 (GHz
0			Ž ₀			ndI	3	20	.00	dB
				$\bigvee \setminus$		BW		5.73146		
10			V		Υ_	∇_{T}	[T1]	-21	.46	
		<i>√</i>			\bigvee	\ _▼	[T1]	2.40154		
20		TA				Vr2 11	. [+ +]	2.40240		SHZ
1MAX										:
							74			
40	~~/							m		
50	· ·						V	, A	more	~
60										
70										\dashv
0									_	
90										
Center 2.402	2 GHz		300	kHz/				Spa	n 3 N	MHz

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Product:	V	Wireless Charger & Speaker				T	est Mode:		Keep transmitting		
Mode		Keepin	g Transmi	tting		Т	est Voltage		DC3.7V		
Temperature		2	4 deg. C,]	Humidity		56%	% RH	
Test Result:			Pass				Detector]	PK	
0dB Bandwidth		80	65.73kHz								
Ŕ		Marker	1 [T1 r	ndB]	R	BW	30 kI	ız Ri	7 Att	20 dB	
Ref Lvl		ndB		00 dB	V	BW	100 k				
10 dBm		BW 865	5.731462	93 kHz	S	WT	8.5 ms	s Ui	nit	dBm	1
10							v ₁	[T1]	- (.62 dBm	A
				1					2.44083	467 GHz	
0				\sim	ς Λ		ndB		20	.00 dB	
					$\vee \vee$	ς	BW ▽ _{T1}	86 [T1]	5.73146	293 kHz	
-10			(N		7	,		2.44054		
			TA /			v	$\bigvee_{T^2} \nabla_{T^2}$	[T1]	-20	.89 dBm	
-20			7				4		2.44140	581 GHz	1M
		^									IM
-30								Ty.			
-40		\ <u></u>							~		
-50	1	V							W	wy	
-60											
-70											
-80											
-90 Center 2	441 GHz 300 k				ku- /				Gr	ın 3 MHz	

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GFSK Modulation	1									
Product:	,	Wireless C	harger &	Speaker	1	Test Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmi	tting	7	Test Voltage		DC	3.7V	
Temperature		2	4 deg. C,			Humidity		56%	6 RH	
Test Result:	Pass					Detector		F	PΚ	
20dB Bandwidth		86	55.73kHz							
		Marker	1 [T1 n	ndB]	RBW	30 k	Hz Rl	F Att	20 dB	
Ref Lvl		ndB	20.	00 dB	VBW					
10 dBm		BW 865	.731462	93 kHz	SWT	8.5 m	s Ui	nit	dBm	l
10						v ₁	[T1]	C	.53 dBm	A
				1				2.47983	467 GHz	
0				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Λ.	ndB		20	.00 dB	
					٧٨	BW ▼ _{T1}		5.73146	293 kHz	
-10				N	7	V 17 1	[T1]	2.47954	.41 dBm	
			TA C			$\sqrt{\mathbb{T}_2} \Delta^{\mathrm{L}_2}$	[T1]	-19	.61 dBm	
-20			~			1		2.48040	581 GHz	
1MAX		^					^			1MA
-30							4			
-40	M						\bigvee	m		
-50								M	Munde	
-60										
-70										
-80										
-90 Center 2	.48 GH:	z		300	kHz/			Spa	n 3 MHz	
Date: 4.	.NOV.20	22 09:	33:39							

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Product:	Mode Keeping Transmittin				Te	st Mode:		Keep tran	smitting	
Mode	Keep	ing Transm	itting		Tes	st Voltage		DC3	.7V	
Temperature		24 deg. C,			Humidity		56% RH			
Test Result:		Pass			Г	Detector		Pk	ζ	
OdB Bandwidth		1.232MHz								
>	Marker	1 [T1 n	.dB]	RI	BW	30 k	Hz RI	7 Att	20 dB	
Ref Lvl	ndB		00 dB	VI	BW	100 k				
10 dBm	BW	1.232464	93 MHz	Sī	ИT	8.5 m	s Ur	nit	dBm	1
10						v ₁	[T1]	-1	.25 dBm	
			1					2.40183	467 GHz	
0			Ž ^			ndB		20	.00 dB	
			/_/	h	,	BW ↑ ▽ _{T1}	[171]	1.23246	493 MHz	
-10		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	√ √ سر ا		~~	W/		2.40135		
		/ /				$^{2}T^{2}$	5 [T1]	-21	.32 dBm	0
-20	, the state of the	-				4	\	2.40259	218 GHz	١.,
1MAX							٦			11
-30							 			
							\			
-40	2 //						<u> </u>			
	/						horde	\sim		
-50								hy	Α	
\smile								~	w www	6
-60					\dashv					
-70					\dashv					
-80					+					1
-90]
Center 2.40	02 GHz		300 }	<hz <="" td=""><td></td><td></td><td></td><td>Spa</td><td>n 3 MHz</td><td></td></hz>				Spa	n 3 MHz	

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Product:	Wirele	Wireless Charger & Speaker					Keep transmitting		
Mode	Kee	eping Transm	itting	Т	est Voltage		DC3.7V		
Temperature			Humidity		56%	% RH			
Test Result:		Pass			Detector		1	PK	
OdB Bandwidth		1.257MHz							
r)	Mark	er 1 [T1	ndB]	RBW	30 k	Hz RI	F Att	20 dB	
Ref Lvl	ndB		.00 dB	VBW	100 k				
10 dBm	BW	1.25651	303 MHz	SWT	8.5 m	s Uı	nit	dBm	1 -
10					v ₁	[T1]	- (0.60 dBm	Α
0			1				2.44083	3467 GHz	
			\bigwedge \bigwedge		ndB		20	0.00 dB	
10			$\langle / \langle \rangle $	lm	BW ▼ _{T1}	[11]	1.25651	1303 MHz	
-10			W .	$\overline{}$	\sim		2.44035		
		T			\ <u>\</u>	2[T1]	-20	.88 dBm	
-20						\	2.44161	L623 GHz	1M2
-30									
-40						M	~\		
W							₩.	and my	
-60									
-70									
-80									
-90 Center 2.	-90 Center 2.441 GHz		300	kHz/			Spa	an 3 MHz]

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Product:	Wireles	s Charger &	Speaker	Т	Test Mode:		Keep transmitting		
Mode	Kee	ping Transmi	itting	Т	est Voltage	DC3.7V			
Temperature		24 deg. C,			Humidity		56%	6 RH	
Test Result:			Detector		F	PΚ			
20dB Bandwidth		1.257MHz							
(A)	Marke	er 1 [T1 r	ndB]	RBW	30 kH	z RF	Att	20 dB	
Ref Lvl	ndB	20	.00 dB	VBW	100 kH	z			
10 dBm	BW	1.256513	303 MHz	SWT	8.5 ms	Un	it	dBm	ı
10					v ₁ [T1]	C	.52 dBm	
			1			2	2.47983	467 GHz	A
0			\bigwedge		ndB		20	.00 dB	
		^]	hy ~	M VT1		1.25651		
-10			, , , , , , , , , , , , , , , , , , ,	<u>~</u>	VIII	[T1]	19- 2.47935	.49 dBm 972 GHz	
		<u>T</u>			∇ ₁ 122	[T1]	-19		
-20		/			Y	1	2.48061	623 GHz	
-30									1M2
-40						WM	$\overline{\wedge}$		
-50	ν						<u> </u>	Mary	
-60									
-70									
-80									
-90									
Center 2.	48 GHz		300	kHz/			Spa	n 3 MHz	-

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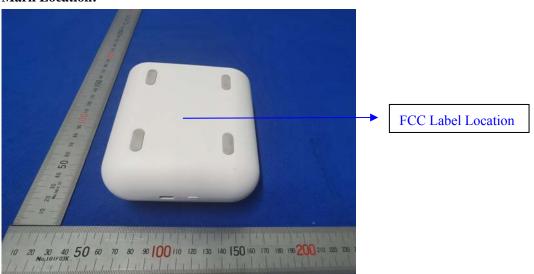
10.0 FCC ID Label

FCC ID: 2APYY-AB0322

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



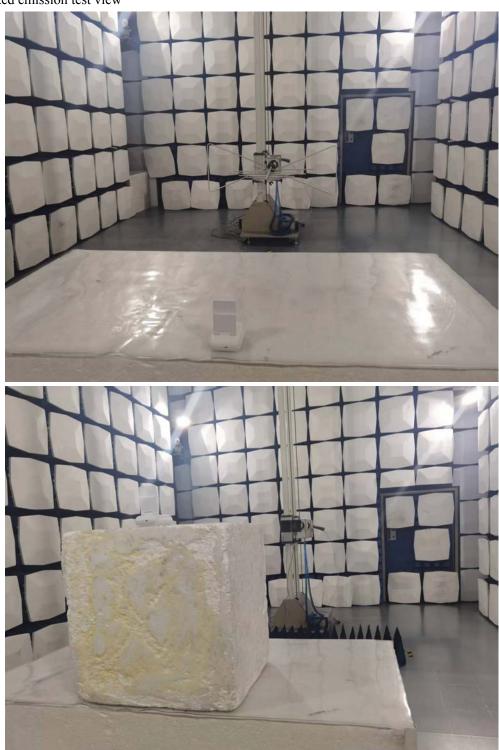
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Radiated emission test view



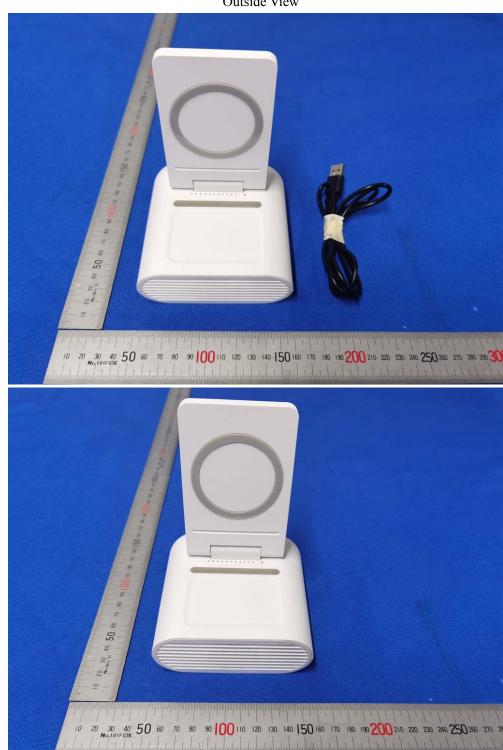
The report refers only to the sample tested and does not apply to the bulk.

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11.2 Outside View



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

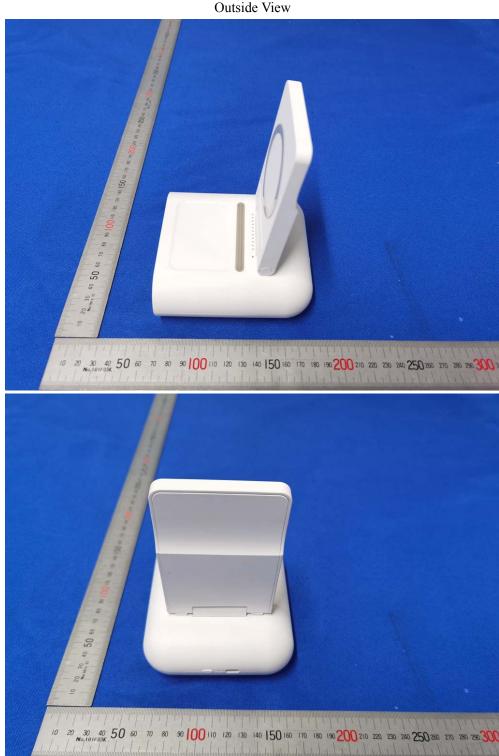
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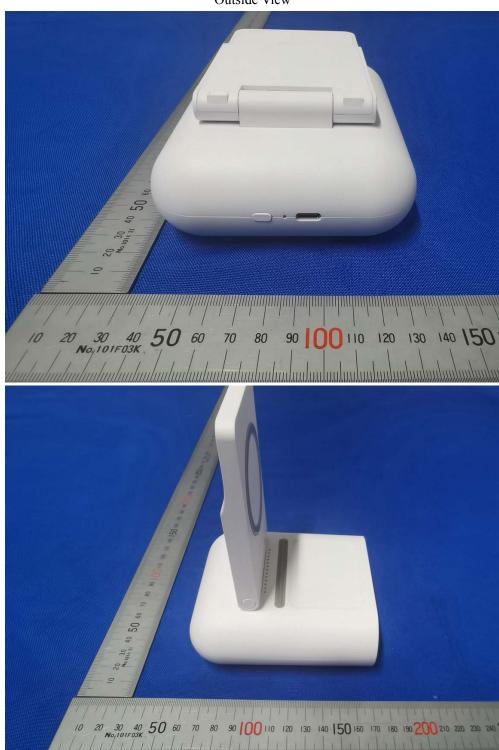
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Outside View



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Outside View



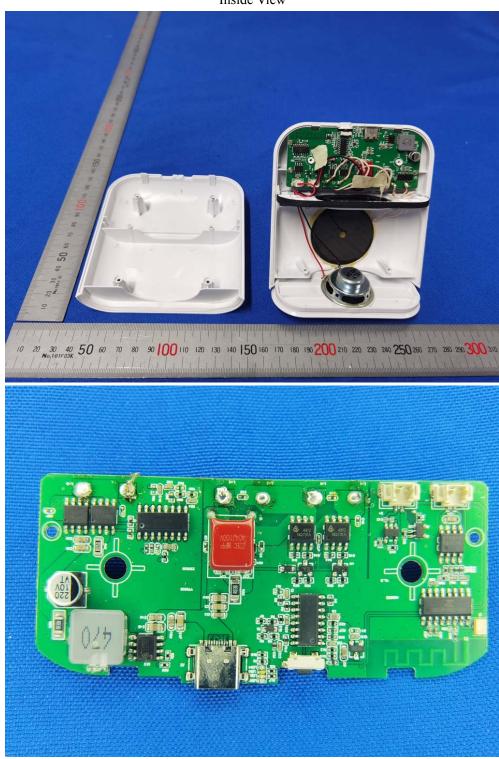
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Report No.: TW2210199-02E

Date: 2022-11-14



Inside View



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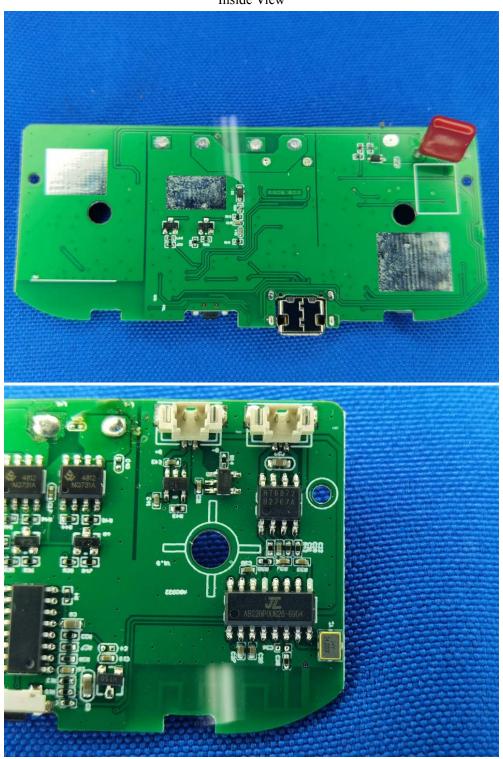
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Inside View



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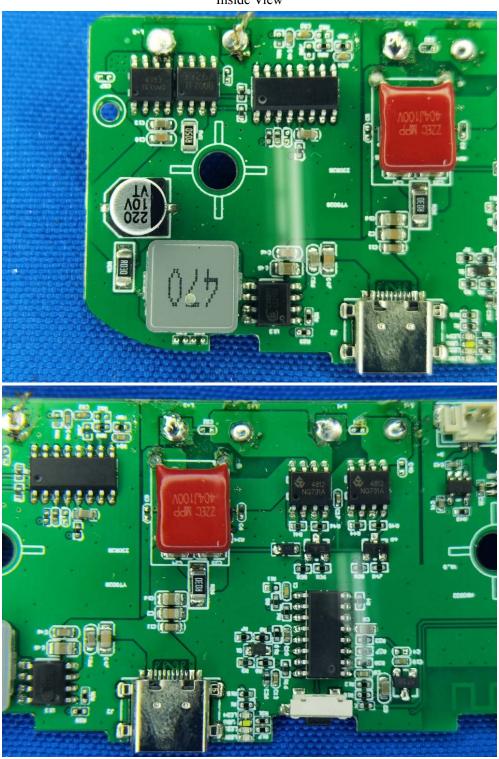
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Inside View



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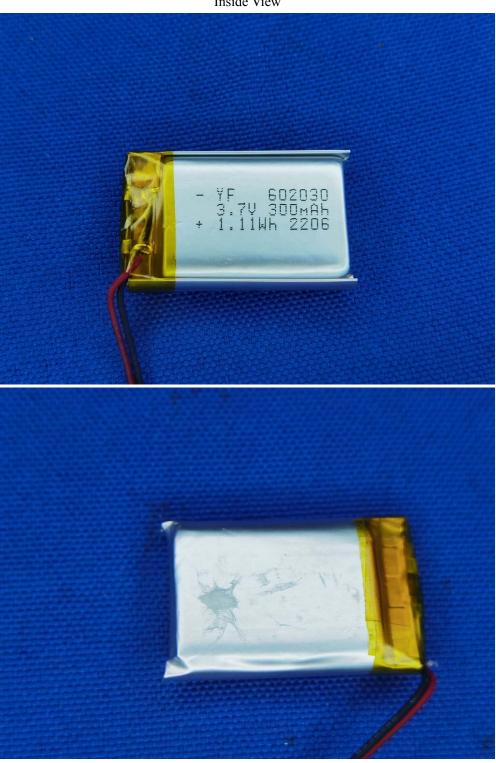
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Inside View



-End of the Report--

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