



Report No.: TW2009292E File reference No.: 2020-10-14

Applicant: Richen Industrial Co., Ltd.

Product: Oppo Bluetooth Headphone and microphone

Model No.: A623, SM-2926

Brand Name: 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 C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: October 14, 2020

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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### 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: Richen Industrial Co., Ltd.

Address: Rm.1688, Building A, Bantian International Center, No.5 Huancheng South Street,

Longgang, Shenzhen, China

Telephone: 0755-82797551

Fax: --

### 1.3 Description of EUT

Product: Oppo Bluetooth Headphone and microphone

Manufacturer: Richen Industrial Co., Ltd.

Address: Rm.1688, Building A, Bantian International Center, No.5 Huancheng South

Street, Longgang, Shenzhen, China

Brand Name: N/A
Model Number: A623
Additional Model Name SM-2926

Input Voltage: Input: DC5V input or Built-in DC 3.7V, 200mAh Li-ion battery

Modulation Type: GFSK, Pi/4D-QPSK, 8DPSK (Bluetooth)

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz
Channel Number: 79

Antenna Designation PCB antenna with gain 0dBi Max (Declared by the applicant)

### 1.4 Submitted Sample: 1 Sample

### 1.5 Test Duration

2020-09-22 to 2020-10-14

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### 1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty = 3.6dB

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

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment	2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date	
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22	
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22	
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22	
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22	
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24	
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22	
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22	
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08	
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22	
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22	
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03	
9*6*6 Anechoic			N/A	2018-02-07	2021-02-06	
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22	
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22	
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22	
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22	
Spectrum	RS	FSP	1164.4391.38	2020-01-16	2021-01-15	
RF Cable	Zhengdi	ZT26-NJ-NJ-8		2020-06-23	2021-06-22	
Kr Cable	Zhengui	M/FA	-	2020-00-23	2021-00-22	
RF Cable	Zhengdi	7m	-	2020-06-23	2021-06-22	
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22	
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22	
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22	
LISN	SCHAFFNER	NNB42	00012	2020-01-07	2021-01-06	

### 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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#### **Technical Details** 3.0

#### 3.1 **Summary of test results**

The EUT has been tested according to the following specifications:

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

#### 3.2 **Test Standards**

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

#### 4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

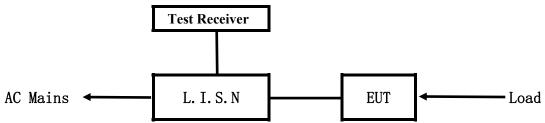
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### 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

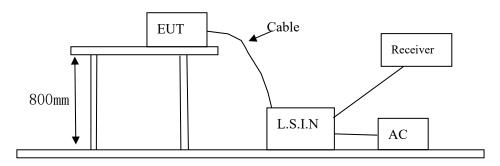


EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

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

### Block diagram of Test setup



### 5.3 Configuration of The EUT

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

One channels are provided to the EUT

### A. EUT

Device	Manufacturer	Model	FCC ID
Oppo Bluetooth			
Headphone	Richen Industrial Co., Ltd.	A623, SM-2926	RMZ-A623
and microphone			

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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

Eraguanay (MHz)	Class B Limits (dB µ V)		
Frequency(MHz)	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	56.0	46.0	
5.00 ~ 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

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

**EUT Operating Environment** 

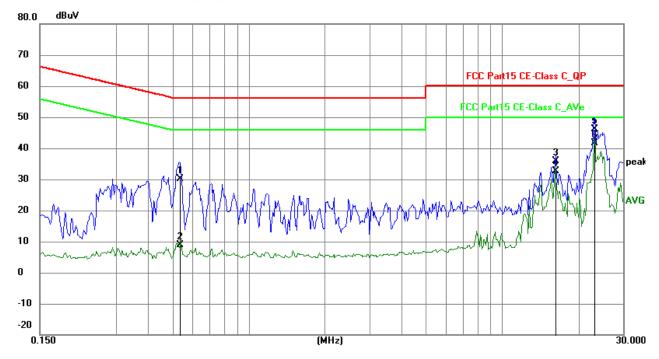
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Communication by Bluetooth** 

**Equipment Level: Class B** 

**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	0.5322	20.41	9.77	30.18	56.00	-25.82	QP	Р
2	0.5322	-0.90	9.77	8.87	46.00	-37.13	AVG	Р
3	16.2288	25.49	10.45	35.94	60.00	-24.06	QP	Р
4	16.2288	22.12	10.45	32.57	50.00	-17.43	AVG	Р
5	23.1279	35.37	10.87	46.24	60.00	-13.76	QP	Р
6	23.1279	30.81	10.87	41.68	50.00	-8.32	AVG	Р

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

**EUT Operating Environment** 

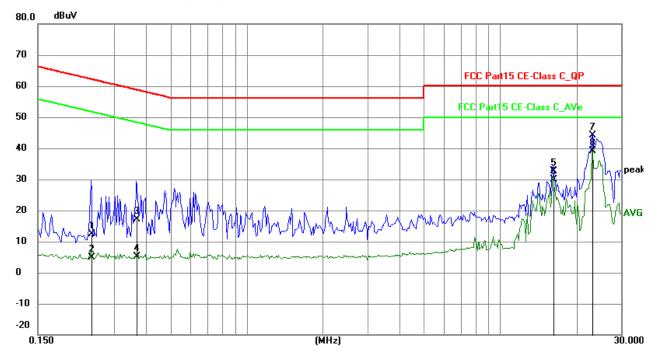
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Communication by Bluetooth** 

**Equipment Level: Class B** 

**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	0.2436	2.71	9.75	12.46	61.97	-49.51	QP	Р
2	0.2436	-4.78	9.75	4.97	51.97	-47.00	AVG	Р
3	0.3684	7.49	9.76	17.25	58.54	-41.29	QP	Р
4	0.3684	-4.52	9.76	5.24	48.54	-43.30	AVG	Р
5	16.1664	22.19	10.45	32.64	60.00	-27.36	QP	Р
6	16.1664	19.44	10.45	29.89	50.00	-20.11	AVG	Р
7	23.1279	33.33	10.87	44.20	60.00	-15.80	QP	Р
8	23.1279	28.32	10.87	39.19	50.00	-10.81	AVG	Р

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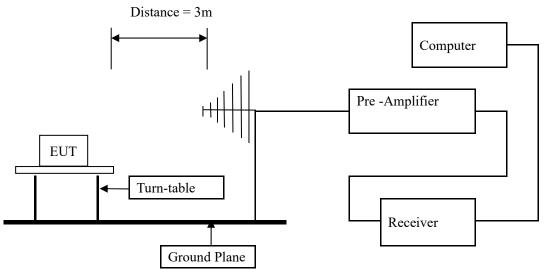
Date: 2020-10-14



### **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 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**



- 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.

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#### 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	Field Strength of Fundamental (3m)			trength of Harmo	nics (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.

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

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

Note:

- 1. RF Voltage (dBuV) = 20 log RF 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. Battery full charged during tests.
- 7. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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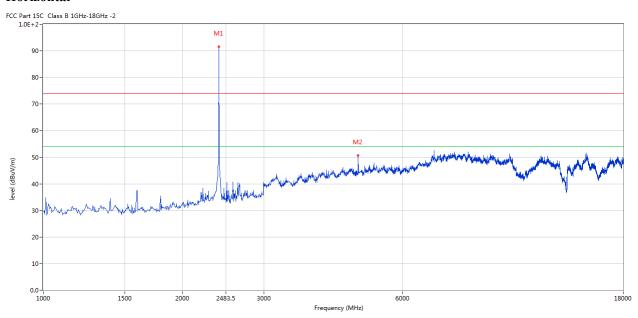


### 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

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

### Horizontal



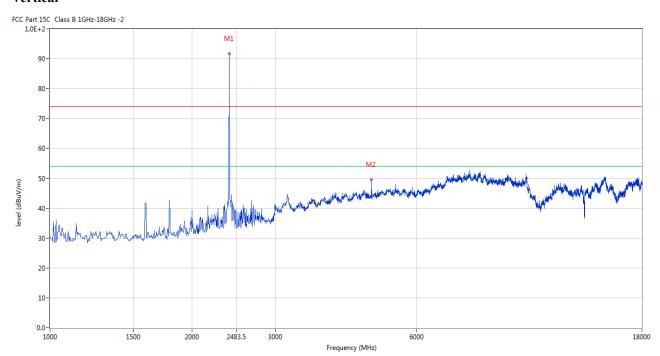
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	91.56	-3.57	94.0	-2.44	Peak	231.00	100	Horizontal	Pass
2	4803.750	50.34	3.13	54.0	-3.66	Peak	128.00	100	Horizontal	Pass

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### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	91.80	-3.57	94.0	-2.20	Peak	95.00	100	Vertical	Pass
2	4803.750	49.61	3.13	54.0	-4.39	Peak	49.00	100	Vertical	Pass

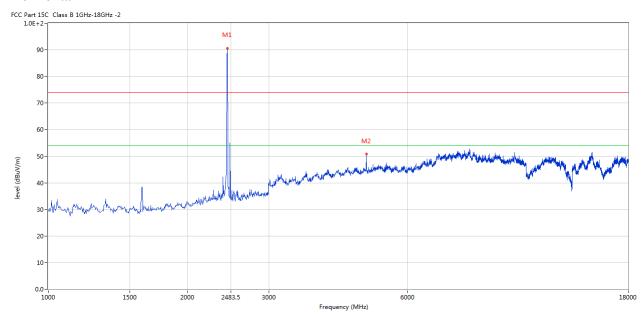
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Please refer to the following test plots for details: Middle Channel-2441MHz

### Horizontal



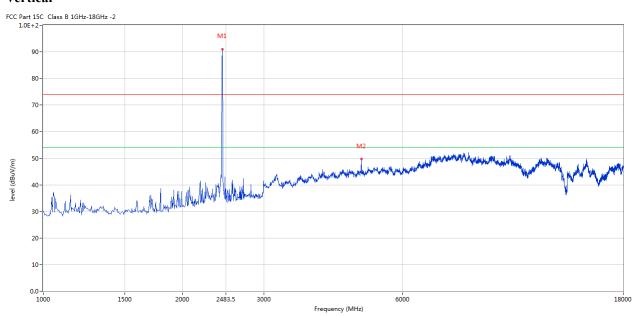
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	90.57	-3.57	94.0	-3.43	Peak	229.00	100	Horizontal	Pass
2	4880.250	50.83	3.20	54.0	-3.17	Peak	229.00	100	Horizontal	Pass

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### Vertical



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	2440.750	90.96	-3.57	94.0	-3.04	Peak	46.00	100	Vertical	Pass
2	4880.250	49.77	3.20	54.0	-4.23	Peak	49.00	100	Vertical	Pass

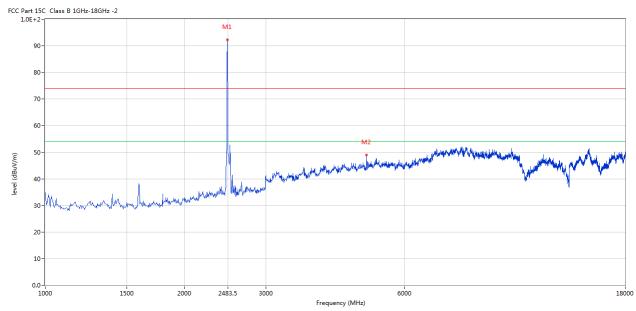
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Please refer to the following test plots for details: High Channel-2480MHz

### Horizontal



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	2479.685	92.23	-3.57	94.0	-1.77	Peak	213.00	100	Horizontal	Pass
2	4961.000	48.89	3.36	54.0	-5.11	Peak	338.00	100	Horizontal	Pass

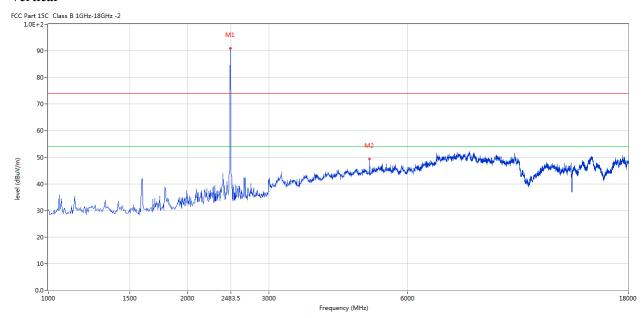
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### Vertical



No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.685	91.04	-3.57	94.0	22.96	Peak	346.00	100	Vertical	Pass
2	4961.000	49.67	3.36	54.0	-4.33	Peak	104.00	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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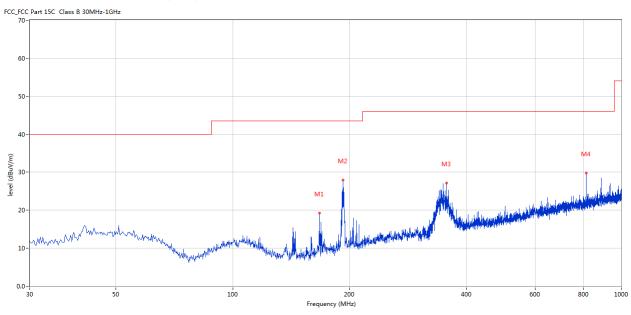


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	166.978	19.21	-16.08	43.5	-24.29	Peak	360.00	100	Horizontal	Pass
2	191.950	27.92	-14.07	43.5	-15.58	Peak	27.00	100	Horizontal	Pass
3	355.354	27.22	-9.44	46.0	-18.78	Peak	253.00	100	Horizontal	Pass
4	812.594	29.83	-2.94	46.0	-16.17	Peak	246.00	100	Horizontal	Pass

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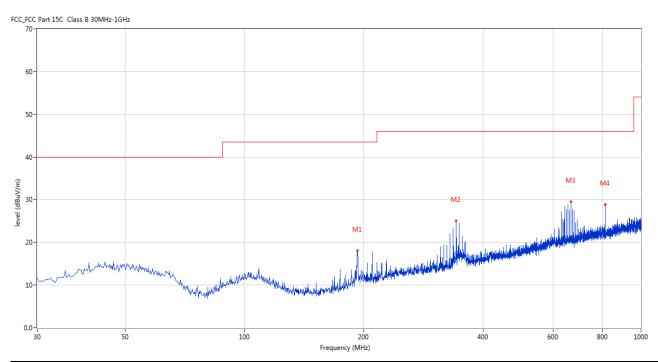


### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	192.919	18.07	-13.94	43.5	-25.43	Peak	274.00	200	Vertical	Pass
2	342.019	25.06	-9.71	46.0	-20.94	Peak	354.00	100	Vertical	Pass
3	665.919	29.49	-4.51	46.0	-16.51	Peak	360.00	100	Vertical	Pass
4	812.594	28.93	-2.94	46.0	-17.07	Peak	27.00	200	Vertical	Pass

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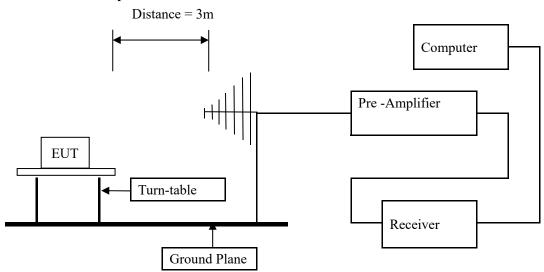


### 7. Band Edge

### 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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10-

0.0-

7.6 Test Result		т т	
Product:	Oppo Bluetooth Headphone and microphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
90-			M
70-			
60- 50-		M3.	

Frequency (MHz)

2410

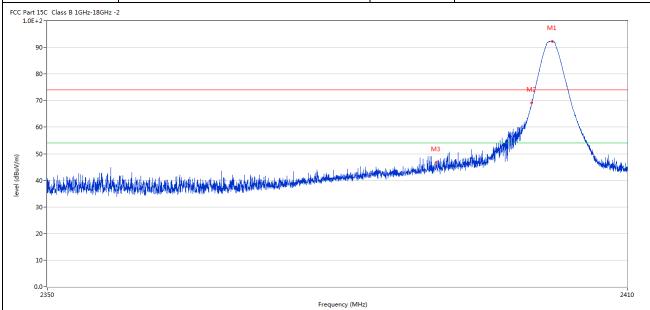
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	2400.055	69.02	-3.57	74.0	-4.98	Peak	229.00	100	Horizontal	Pass
2*	2400.055	51.39	-3.57	54.0	-2.61	AV	229.00	100	Horizontal	Pass
3	2390.245	42.15	-3.53	74.0	-31.85	Peak	218.00	100	Horizontal	Pass

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Product:	Oppo Bluetooth Headphone and microphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
2	2400.025	69.07	-3.57	74.0	-4.93	Peak	45.00	100	Vertical	Pass
2*	2400.025	51.50	-3.57	54.0	-2.50	AV	45.00	100	Vertical	Pass
3	2390.035	46.70	-3.53	74.0	-27.30	Peak	24.00	100	Vertical	Pass

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2483.500

50.82

-3.57

54.0



Product:	Opp	o Bluetooth Headpho microphone	ne and	Polarity	7	Horizontal			
Mode		Keeping Transmittin	g	Test Volta	Test Voltage Humidity		DC3.7V		
Temperature		24 deg. C,		Humidit			56% RH		
Test Result:		Pass							
Part 15C Class B 1GHz-18GH	lz -2								
70-	- Indiana di Indiana								
40-	JA MANAGEMENT OF THE PARTY OF T		The second distriction of the second	MANAGEMENT AND ASSESSMENT OF THE PARTY OF TH	d. of profiles probably the profiles		district of the state of the st	Manaphanap	
			2483.5		dadin pikangangi	odinovne i i i inchedich	n eritais hapikata pikata kirj	2500	
40 - 30 - 20 -	Results	Factor Limit		)	Table (o)	Height	ANT	2500	

-3.18

Peak

285.00

100

Horizontal

**Pass** 

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	Product:	Орро Е	Bluetooth Headpho microphone	one and	Detecto	or		Vertical	
	Mode	K	Leeping Transmittin	ng	Test Volt	age		DC3.7V	
]	Temperature		24 deg. C,		Humidi	ity		56% RH	
-	Test Result:		Pass						
	art 15C Class B 1GHz-18GHz - 0E+2- 90- 80-	2							
level (dBuV/m)	50- 40-	of Right House		A Marine	Makada hakida da sakada sakada sakada sakada sa	o dikadada o palbali playa	polynosia, no to to by a nobel	alasahika di kataka di alaka, ay Add	adadon da
level (dBuV/m)		神神神神神神神神神神神		And the second s	llated by the later and projection	p di kwalinda kwalati pikaya	polynosty, ostoletje koje polyn	al ace delite addressed the design of a filled	adichira kirolofi
level (dBuV/m)	40-1			A CONTRACTOR OF THE PARTY OF TH	Richard and and and a	p dikulah berdali sifari	erinal received fresh h	ahisa dhika dhibha dhib	akkinakladif
level (dBuV/m)	40- 30-			A CONTRACTOR OF THE STATE OF TH	Baid hildusja edd, gydw	p di kudi da inpektop pa	polande polarist de la companya	aksorbicabilatike to the county life	Liberton Liberton
level (dBuV/m)	30- 20-	AND REAL PROPERTY OF THE PARTY		2483.5 Frequency (MHz		e de la maria de la complexa de la c	polanik orientelelenele	akaca bikubil lahke da bibayus dib	2500
level (dBuV/m)	30- 20- 10- 2470		Factor Limit	2483.5	2)	Table (o)	Height	ANT	
	50- 40- 30- 20- 10- 0.0- 2470	Results F	Factor Limit dB) (dBuV/m)	2483.5 Frequency (MHz	2)				2500

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

- 2. 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.
- 3. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK 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 0dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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GFSK Modulation				<del></del> 1			1			
Product:	Орро В	luetooth Head microphon		l	Tes	st Mode:		Keep tran	smitting	
Mode	Ke	eping Transm	nitting		Test	t Voltage		DC3	.7V	
Temperature		24 deg. C,	ı	Humidity 56% RH			56% RH			
Test Result: Pass Detector PK			Κ							
20dB Bandwidth		781.56kHz	Z						-	
Ref Lvl 10 dBm	ndB	er 1 [T1 r 20. 781.563126	.00 dB	RE VE SV	ЗW	30 k 100 k 8.5 m	Hz	F Att	20 dB	ı
-10			M			V <sub>1</sub> ndi BW ∇ <sub>T:</sub>	[T1] 78	-3 2.40200 20 1.56312	.13 dBm 301 GHz .00 dB 625 kHz	A
-20			W	· \	4	<b>∨</b> <sub>T2</sub>	[T1]	2.40162 -23	.51 dBm	
-30						N N				1M
-40		<b>√</b>					<u> </u>	m		
-60							V	\www.	Mualing	
-70										
-80										
-90										
Center 2.	402 GHz		300	kHz/				Spa	n 3 MHz	y.

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Product:	Oppo Blueto	ooth Headpicrophone	phone and		T	est Mode:		Keep tra	nsmitting	
Mode	Keepin	g Transmi	tting		Те	est Voltage	;	DC3.7V		
Temperature	2	4 deg. C,			Humidity			56%	6 RH	
Test Result:		Pass			-	Detector		I	PΚ	
0dB Bandwidth	78	81.56kHz								
Ref Lvl 10 dBm	ndB	1 [T1 n 20. 1.563126	00 dB	VI	BW BW WT	30 k 100 k 8.5 m	Hz	F Att	20 dB	0
10 dBiii	BW 701	1.303120	DZJ KHZ	اد ا	/v 1		<b>5</b> 0.	T	СВП	1
						<b>▼</b> 1	[T1]	-3 2.44100	.57 dBm 301 GHz	A
0						ndE	3	2.44100	.00 dB	4
			$\sim$	\		BW	78	1.56312	625 kHz	
-10				$\forall$		$oldsymbol{ abla}_{ ext{T}}$	[T1]	-23	.25 dBm	
			$\mathcal{N}$		$\setminus$	∇ <sub>171</sub>	2 [T1]	2.44062	425 GHz	
-20		TA	~			T2	. (11)	2.44140	581 GHz	
1MAX						The state of the s				1M
-30						Ŋ	٧			
							\	m		
-60							<b>\</b>	My	Myry.	
-70									. •••	
-80										
-90										
Center 2.	441 GHz		300	kHz/				Spa	n 3 MHz	<i>a</i>
Date: 12.	OCT.2020 10									

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Product:	Oppo Bl	uetooth Head microphone			Test Mode:		Keep transmitting		
Mode	Kee	eping Transm	itting	Т	Test Voltage Humidity		DC3.7V		
Temperature		24 deg. C,					56% RH		
Test Result:		Pass			Detector		F	PK	
dB Bandwidth		787.58kHz							
Ref Lvl	Mark ndB BW	er 1 [T1 20 787.57515	.00 dB	RBW VBW SWT	30 kH 100 kH 8.5 ms	Hz	F Att	20 dB	
10 dBiii	- BW	787.37313	U30 KHZ	SWI	1	5 01	11.0	QBIII	
0					<b>V</b> <sub>1</sub>	[T1]	-4 2.48000	.26 dBm 902 GHz	A
			~~	, \	ndB BW V⊤1		20 7.57515		
-10				$\forall \int_{\mathbb{T}}$		[T1]	2.47961	.36 dBm 824 GHz .63 dBm	
-20		TA			T2 V	[11]	2.48040	581 GHz	1M
-30					M	7			
-40	m pl					7	M		
-50 <b>h</b>	~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					V	July W	n Anla	
- 50								White the state of	
-70									
-80									
-90 Center 2.	.48 GHz		300 }	cHz/			Spa	ın 3 MHz	

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Product:	Oppo Bluet	ooth Headp nicrophone	ohone and		Test Mode: Test Voltage			Keep transmitting			
Mode		ng Transmi	tting				:	DC3.7V			
Temperature	2	24 deg. C,			H	umidity		56% RH			
Test Result:		Pass			D	etector		I	PK		
OdB Bandwidth	1	.214MHz									
Ref Lvl 10 dBm	ndB	1 [T1 r 20. 1.214428	00 dB	RB VB SW	ВW	30 k 100 k 8.5 m	Hz	F Att	20 dB	ı	
10					$\top$	▼1	[T1]	_ 3	.14 dBm	I	
							[11]	2.40200	301 GHz	A	
0						ndF		20	.00 dB		
			$\land \land \land$	$\setminus$		BW		1.21442	886 MHz		
-10		^	+		-0	∇ <sub>T1</sub>	[T1]	-22	.94 dBm		
		\ww\	V V	, C	<b></b>	$\sim$	T1]	2.40138	377 GHz		
-20	7	<del>√</del>				7	2	2.40259	820 GHz		
1MAX							\			1M	
-30											
-40	N. N.							$\sim$			
-50	<i>∫</i> ~ ₩							W.	My and		
-60									- V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V		
-70											
-80											
-90											
Center 2.40	2 GHz		300	kHz/				Spa	n 3 MHz		

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Product:		Oppo Bluetooth Headphone and microphone			Test Mode:		Keep transmitting			
Mode	Keepin	g Transmi	tting		Test Voltage		DC3.7V			
Temperature	24	4 deg. C,			Humidit	У	56% RH			
Test Result:	Pass				Detecto	r		F	PK	
0dB Bandwidth	1.	214MHz								
Ref Lvl 10 dBm	Marker ndB BW 1		00 dB	RB VB SW	W 100	kHz kHz ms		F Att	20 dB	n
10					•	1 [	г1]	-3	.57 dBr	A
								2.44100	301 GHz	-
0			$\wedge$ /		n B ▼	W	[T] ]	20 1.21442	.00 dB 886 MHz	
-10		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	W \	~			[T1]	2.44038	377 GHz	
-20	7	r <del>V</del>				12		2.44159	820 GH2	1M
-30										
-40	m M						m	. 1		
-50	V						ì	m	my	J
-60										
-70										
-80										
-90 Center 2.44	41 GHz		300	kHz/				Spa	n 3 MHz	<u>]</u>

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Product:	Oppo Bluetooth Headphone and microphone				Гest Mode:		Keep transmitting			
Mode	Keepir	ng Transmi	tting	Т	Test Voltage Humidity		DC3.7V 56% RH			
Temperature	2	24 deg. C,								
Test Result:	Pass				Detector		]	PK		
0dB Bandwidth	1									
Ref Lvl 10 dBm	ndB	1 [T1 r 20. 1.214428	00 dB	RBW VBW SWT	30 k 100 k 8.5 m	Hz	F Att	20 dB dBm		
10					<b>v</b> <sub>1</sub>	[T1]	2.48000	.18 dBm	A	
0			$\wedge$		ndE BW ∇ <sub>Tj</sub>	3 L [T1]	20 1.21442 -24	0.00 dB 886 MHz		
-20		M				2 [T1]	2.47938	377 GHz		
1MAX	J	~			ţ	2	2.48059	820 GHz	1M	
-40										
-50	My \					W				
-60	m 1					\ 	LIMN.	and my		
-70								,		
-80										
-90 Center 2.	48 CH2		300	kus /			Cn:	ın 3 MHz		

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Product:		oth Headphone and crophone	Т	Test Mode:		Keep trar	nsmitting	
Mode	Keeping	Transmitting	Т	est Voltage	DC3.7V 56% RH			
Temperature	24	deg. C,		Humidity				
Test Result:			Detector		Pl	K		
20dB Bandwidth	1.2					-		
Ref Lvl	ndB	L [T1 ndB] 20.00 dB .25651303 MHz	RBW VBW SWT	30 kHz 100 kHz 8.5 ms		Att .t	20 dB	ı
10 0 -10 -20 1MAX -30 -40 -50 -60 -70			<b>M</b>	ndB BW ▼ <sub>T1</sub>	1 [T1] 2 [T1]	-23.	.19 dBm 301 GHz 00 dB 303 MHz .23 dBm 776 GHz .07 dBm	1M
-90 Center 2. Date: 12	.0CT.2020 10:	300 k	Hz/			Spar	ı 3 MHz	

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Product:		th Headphone and cophone	Test	Mode:	Keep transmitting			
Mode	Keeping '	Transmitting	Test '	Voltage	DC3.7V 56% RH			
Temperature	24 (	deg. C,	Hur	nidity				
Test Result:	]	Pass	Det	tector	F	PK		
0dB Bandwidth	1.257MHz							
Ref Lvl 10 dBm	ndB	[T1 ndB] 20.00 dB 25651303 MHz		30 kHz 100 kHz 8.5 ms	RF Att Unit	20 dB dBm		
10				▼1 [T1	] -3 2.44100	.59 dBm A		
-10			$\wedge$	ndB BW ▼ <sub>T1</sub> [T	20 1.25651 1] -23	.00 dB 303 MHz .52 dBm		
-20				<b>~</b> √T2 [T]		776 GHz		
1MAX -30	7			VZ	2.44163	427 GHz		
-40								
-50				\	$\sqrt{}$			
-60						Market		
-70								
-80								
-90 Center 2.4	41 011-	300 ki	T- /		<u> </u>	n 3 MHz		

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Product:	Oppo Blueto m	ooth Headpicrophone	ohone and		Test Mode:		Keep tra	nsmitting		
Mode	Keepin	g Transmi	tting	,	Test Voltage		DC3.7V			
Temperature	2	4 deg. C,			Humidity		56% RH			
Test Result:		Pass			Detector		F	PK		
)dB Bandwidth	1.	.257MHz								
Ref Lvl 10 dBm	ndB	1 [T1 n 20. 1.256513	00 dB	RBW VBW SWT	100 ki	Hz	7 Att	20 dB	ı	
10					<b>V</b> 1	[T1]	-4 2.48000	.26 dBm 301 GHz	A	
-10				\ <u>A</u>	ndB BW ∇ <sub>T1</sub>	[T1]	20 1.25651 -24	.00 dB 303 MHz .21 dBm		
-20	th.		$\mathcal{N}^{V}$	ν / <sub>ν</sub>	T T	[T1]	2.47937 -24 2.48063	776 GHz .12 dBm 427 GHz		
1MAX -30	, T					7	1000		1M	
-40										
-50										
-60							V V	hay have		
-70										
-80										
-90 Center 2.	48 CH2		300 }	-U/			gn.	n 3 MHz		

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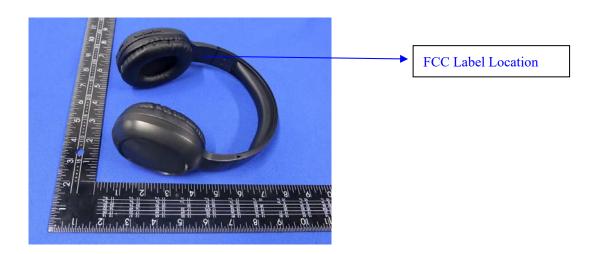


### 10.0 FCC ID Label

### FCC ID: RMZ-A623

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



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#### 11.2 Photographs-EUT

### Outside View





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Photographs-EUT

### Outside View





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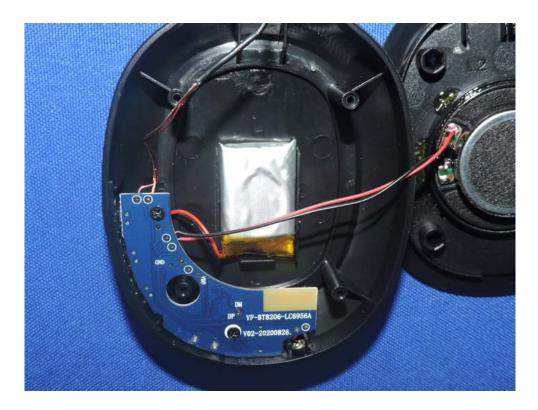
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Inside view





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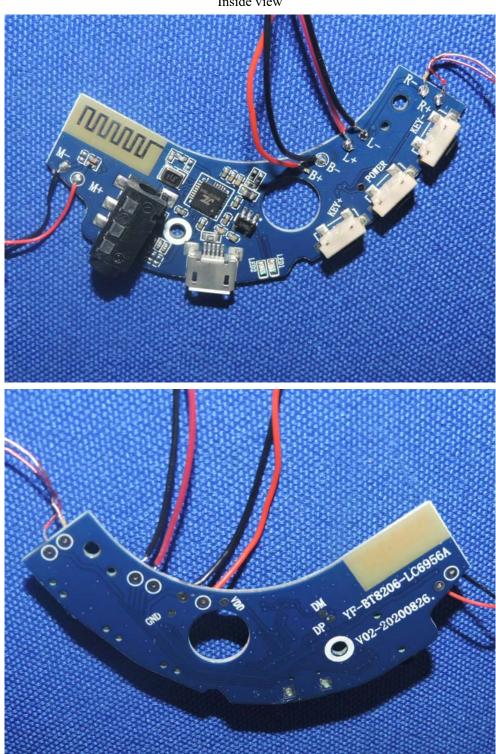
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Date: 2020-10-14



Inside view



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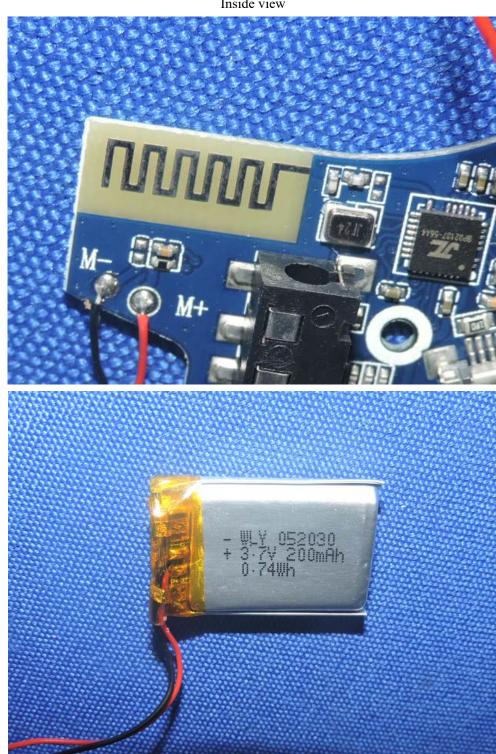
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Inside view



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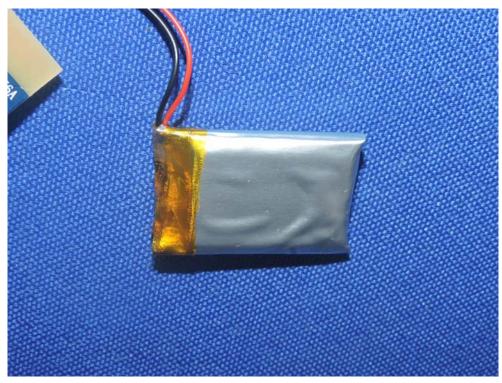
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Inside view



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