



Report No.: TW2111207E File reference No.: 2021-12-01

Applicant: SHANTOU CHAOYANG DISTRICT SHENGTENA

**ELECTRONIC FACTORY** 

Product: Wireless Headphone

Model No.: ARBT255

Trademark: ART+SOUND

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

# Jack Chung

Jack Chung

Manager

Dated: December 01, 2021

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

## SHENZHEN TIMEWAY TESTING LABORATORIES

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

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

Report No.: TW2111207E Page 2 of 42

Date: 2021-12-01



## **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

Report No.: TW2111207E

Date: 2021-12-01



# Test Report Conclusion

#### Content 1.0 General Details 1.1 Test Lab Details.... 4 1.2 Applicant Details. 4 1.3 Description of EUT .... 4 1.4 Submitted Sample.... 4 Test Duration. 1.5 5 1.6 5 Test Uncertainty. 1.7 Test By..... 5 List of Measurement Equipment..... 2.0 3.0 7 Technical Details..... 3.1 Summary of Test Results.... 7 3.2 7 Test Standards.... 4.0 EUT Modification. 7 Power Line Conducted Emission Test. 5.0 Schematics of the Test..... 5.1 8 5.2 Test Method and Test Procedure. Configuration of the EUT..... 5.3 8 5.4 EUT Operating Condition. Conducted Emission Limit. 9 5.5 5.6 Test Result. 6.0 Radiated Emission test.... 12 Test Method and Test Procedure. 6.1 12 6.2 Configuration of the EUT.... 13 6.3 EUT Operation Condition. 13 Radiated Emission Limit. 14 6.4 6.5 Test Result. 15 7.0 Band Edge.... 23 7.1 Test Method and Test Procedure. 23 7.2 Radiated Test Setup. 23 7.3 Configuration of the EUT..... 23 7.4 EUT Operating Condition. 23 7.5 Band Edge Limit..... 23 7.6 Band Edge Test Result. 24 8.0 Antenna Requirement..... 28 20dB bandwidth measurement... 9.0 29 10.0 FCC ID Label. 35 Photo of Test Setup and EUT View. 11.0

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

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Date: 2021-12-01



#### 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: SHANTOU CHAOYANG DISTRICT SHENGTENA ELECTRONIC FACTORY

Address: GOUNAN VILLAGE INDUSTRIAL AREA, GURAO, CHAOYANG DISTRICT, SHANTOU

Telephone: 0754-87616553 Fax: 0754-87637553

## 1.3 Description of EUT

Product: Wireless Headphone

Manufacturer: SHANTOU CHAOYANG DISTRICT SHENGTENA ELECTRONIC FACTORY

Address: GOUNAN VILLAGE INDUSTRIAL AREA, GURAO, CHAOYANG

DISTRICT, SHANTOU

Trademark: ART+SOUND

Additional Trademark: N/A

Model Number: ARBT255

Additional Model Name N/A Hardware Version: V1.2 Software Version: V1.0

Rating: Input: DC5V, 1A

Battery: DC3.7V, 200mAh Li-ion battery

Modulation Type: GFSK,  $\pi/4D$ -QPSK

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain 1.49dBi maximum (Declared by the Manufacturer)

#### 1.4 Submitted Sample: 2 pcs

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Report No.: TW2111207E Page 5 of 42

Date: 2021-12-01



#### 1.5 Test Duration

2021-11-17 to 2021-12-01

#### 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

Page 6 of 42

Report No.: TW2111207E

Date: 2021-12-01



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	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2021-06-18	2022-06-17
RF Cable	Zhengdi	7m	1	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	2021-01-06	2022-01-05

## 2.2 Automation Test Software

#### For Conducted Emission Test

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

## For Radiated Emissions

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

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Page 7 of 42

Report No.: TW2111207E

Date: 2021-12-01



#### 3.0 Technical Details

## 3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes	
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies	
FCC Part 15, Paragraph 15.209	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

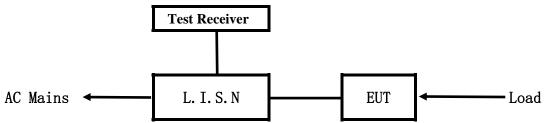
Report No.: TW2111207E

Date: 2021-12-01



#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

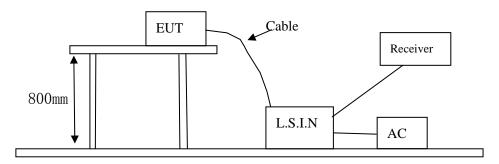


**EUT: Equipment Under Test** 

## 5.2 Test Method and test Procedure

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

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



## 5.3 Configuration of the EUT

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

79 channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID	
Wineless Headnhans	SHANTOU CHAOYANG DISTRICT	ARBT255	2ALOE-ARBT255	
Wireless Headphone	SHENGTENA ELECTRONIC FACTORY	AKD1233		

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

Report No.: TW2111207E Page 9 of 42

Date: 2021-12-01



#### 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 C63.10-2013

- 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 $\mu$ 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

Report No.: TW2111207E Page 10 of 42

Date: 2021-12-01



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

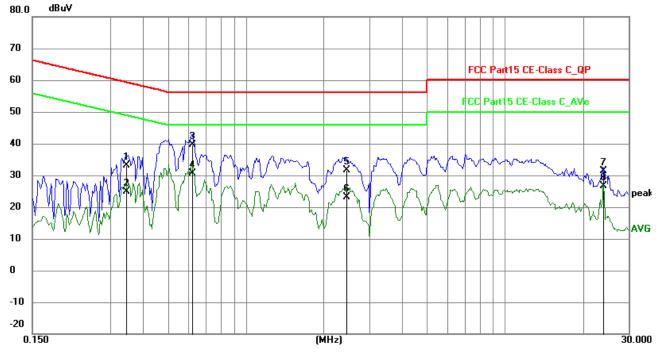
**EUT Operating Environment** 

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	0.3450	23.28	9.76	33.04	59.08	-26.04	QP	Р
2	0.3450	15.12	9.76	24.88	49.08	-24.20	AVG	Р
3	0.6180	29.81	9.78	39.59	56.00	-16.41	QP	Р
4	0.6180	20.96	9.78	30.74	46.00	-15.26	AVG	Р
5	2.4354	21.73	9.82	31.55	56.00	-24.45	QP	Р
6	2.4354	13.30	9.82	23.12	46.00	-22.88	AVG	Р
7	24.0015	20.57	10.93	31.50	60.00	-28.50	QP	Р
8	24.0015	15.66	10.93	26.59	50.00	-23.41	AVG	Р

Report No.: TW2111207E Page 11 of 42

Date: 2021-12-01



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

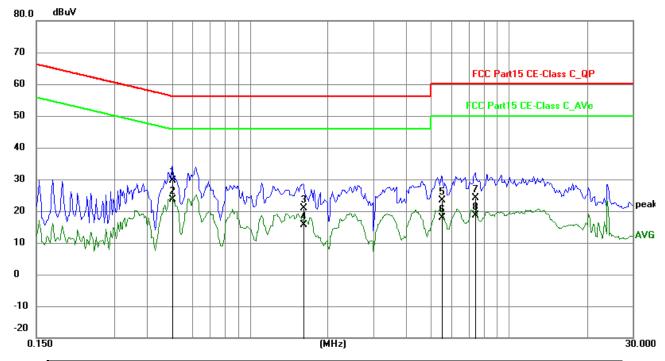
**EUT Operating Environment** 

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	0.5010	19.83	9.77	29.60	56.00	-26.40	QP	Р
2	0.5010	13.97	9.77	23.74	46.00	-22.26	AVG	Р
3	1.6086	11.17	9.80	20.97	56.00	-35.03	QP	Р
4	1.6086	5.77	9.80	15.57	46.00	-30.43	AVG	Р
5	5.4960	13.40	9.95	23.35	60.00	-36.65	QP	Р
6	5.4960	8.03	9.95	17.98	50.00	-32.02	AVG	П
7	7.4148	14.08	10.03	24.11	60.00	-35.89	QP	Р
8	7.4148	8.66	10.03	18.69	50.00	-31.31	AVG	Р

Report No.: TW2111207E Page 12 of 42

Date: 2021-12-01

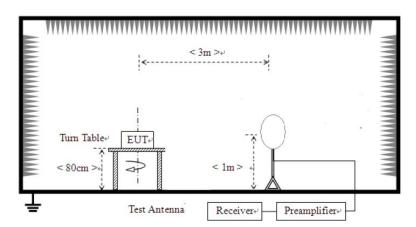


#### **6** Radiated Emission Test

- 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



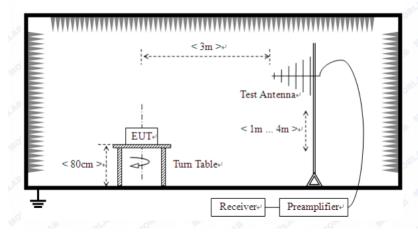
Page 13 of 42

Report No.: TW2111207E

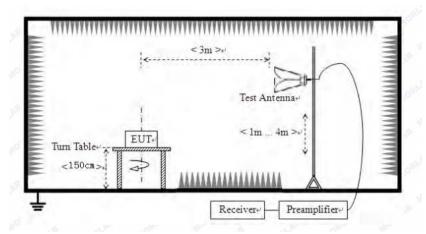
Date: 2021-12-01



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

  Same as section 5.3 of this report
- 6.3 EUT Operating Condition

  Same as section 5.4 of this report.

Report No.: TW2111207E Page 14 of 42

Date: 2021-12-01



#### 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	onics (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 µ V/m)
30-88	3	40.0
88-216	3	43.5
216 960	3	46.0
Above 960	3	54.0

Note:

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

Report No.: TW2111207E Page 15 of 42

Date: 2021-12-01

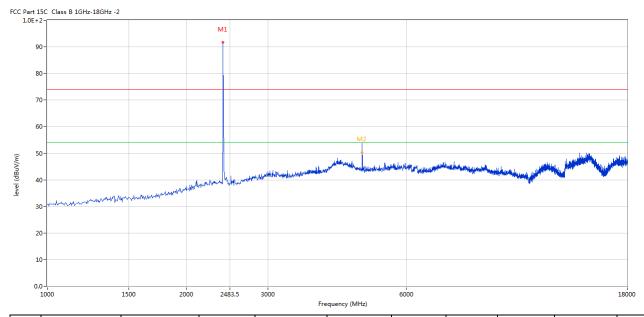


#### 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



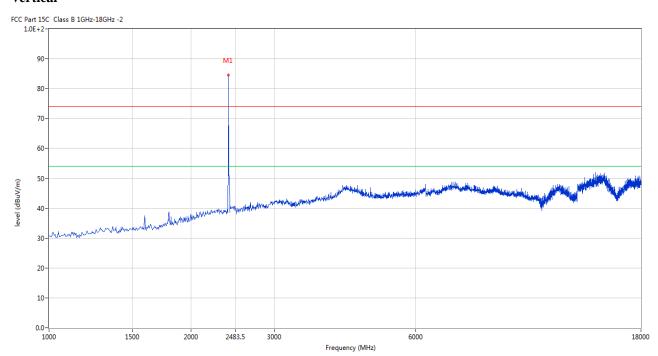
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.149	91.67	-3.57	114.0	-22.33	Peak	338.00	100	Horizontal	Pass
2	4802.799	54.07	3.12	74.0	-19.93	Peak	333.00	100	Horizontal	Pass
2**	4802.799	50.20	3.12	54.0	-3.80	AV	333.00	100	Horizontal	Pass

Report No.: TW2111207E Page 16 of 42

Date: 2021-12-01



## Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.149	84.49	-3.57	114.0	-29.51	Peak	186.00	100	Vertical	Pass

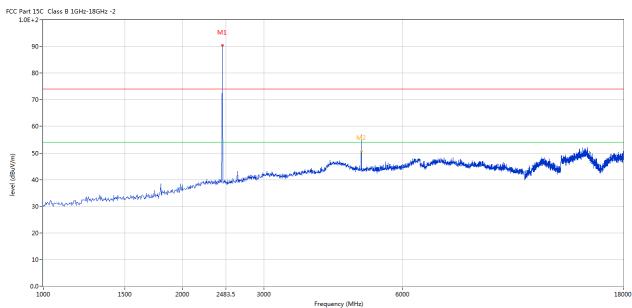
Report No.: TW2111207E Page 17 of 42

Date: 2021-12-01



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

#### **Horizontal**



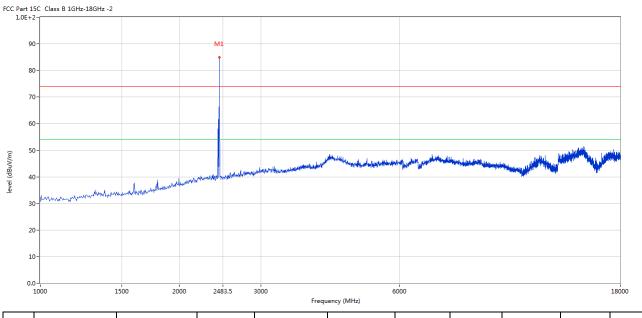
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	90.37	-3.57	114.0	-23.63	Peak	342.00	100	Horizontal	Pass
2	4883.529	56.89	3.20	74.0	-17.11	Peak	221.00	100	Horizontal	Pass
2**	4883.529	50.58	3.20	54.0	-3.42	AV	221.00	100	Horizontal	Pass

Report No.: TW2111207E Page 18 of 42

Date: 2021-12-01



## Vertical



No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	84.96	-3.57	114.0	-29.04	Peak	160.00	100	Vertical	Pass

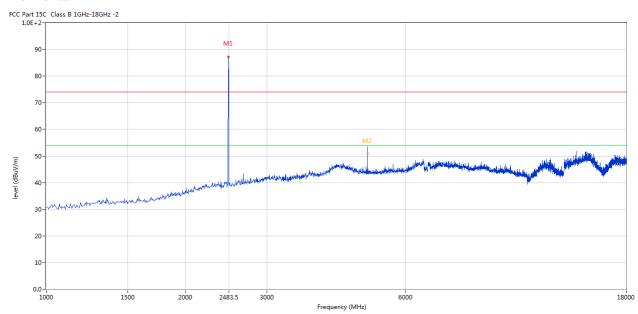
Report No.: TW2111207E Page 19 of 42

Date: 2021-12-01



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

#### Horizontal



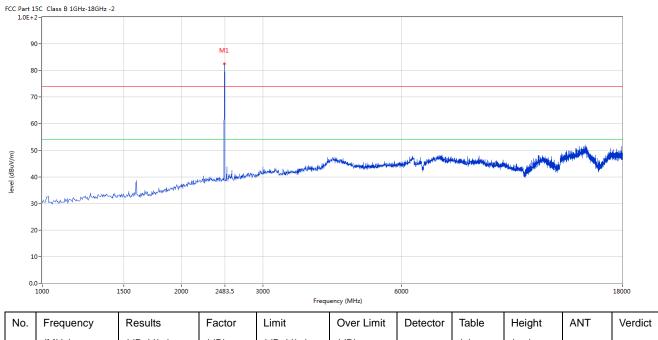
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	87.27	-3.57	114.0	-26.73	Peak	156.00	100	Horizontal	Pass
2	4960.010	53.41	3.36	74.0	-20.59	Peak	343.00	100	Horizontal	Pass
2**	4960.010	50.88	3.36	54.0	-3.12	AV	343.00	100	Horizontal	Pass

Report No.: TW2111207E Page 20 of 42

Date: 2021-12-01



#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	82.49	-3.57	114.0	-31.51	Peak	186.00	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.

Report No.: TW2111207E Page 21 of 42

Date: 2021-12-01

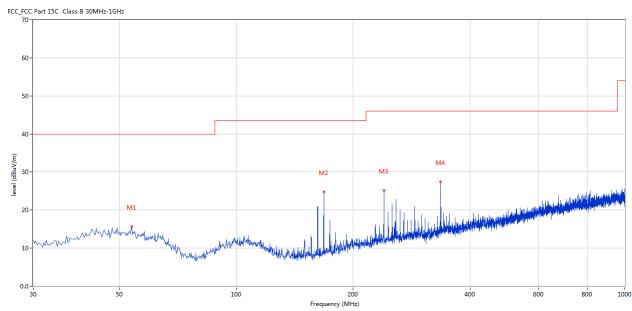


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	53.759	15.69	-11.53	40.0	-24.31	Peak	360.00	100	Horizontal	Pass
2	167.948	24.84	-16.14	43.5	-18.66	Peak	343.00	100	Horizontal	Pass
3	239.953	25.16	-12.33	46.0	-20.84	Peak	360.00	100	Horizontal	Pass
4	335.959	27.46	-9.91	46.0	-18.54	Peak	265.00	100	Horizontal	Pass

Report No.: TW2111207E Page 22 of 42

Date: 2021-12-01

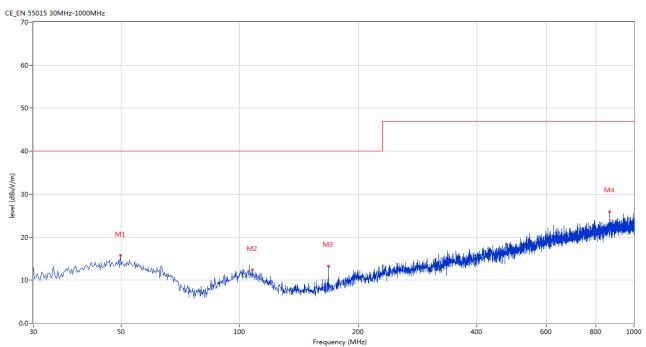


## Radiated Emission In Vertical (30MHz----1000MHz)

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	49.880	15.74	-11.36	40.0	-24.26	Peak	0.00	100	Vertical	Pass
2	107.823	12.35	-13.41	43.5	-31.15	Peak	70.00	100	Vertical	Pass
3	167.948	13.23	-16.14	40.0	-26.77	Peak	74.00	100	Vertical	Pass
4	867.143	25.93	-2.37	47.0	-21.07	Peak	6.00	100	Vertical	Pass

Page 23 of 42

Report No.: TW2111207E

Date: 2021-12-01

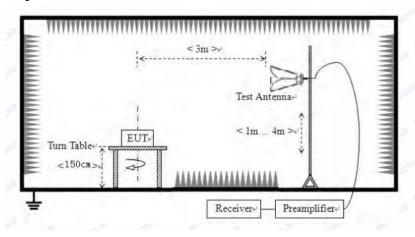


### 7. Band Edge

#### 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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In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

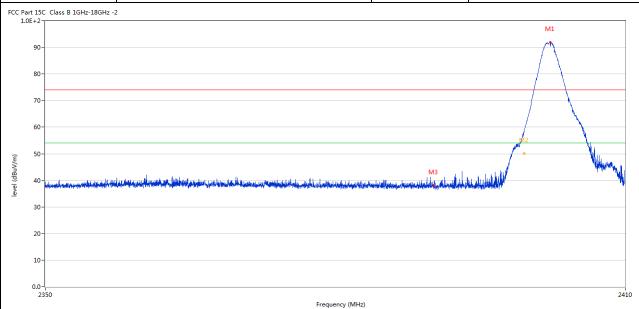
Report No.: TW2111207E Page 24 of 42

Date: 2021-12-01



#### 7.6 Test Result

Product:	Wireless Headphone	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)		
2	2399.913	58.00	-3.57	74.0	-16.00	Peak	328.00	100	Horizontal	Pass
2**	2399.913	50.17	-3.57	54.0	-3.83	AV	328.00	100	Horizontal	Pass
3	2390.010	37.98	-3.53	74.0	-36.02	Peak	324.00	100	Horizontal	Pass

Page 25 of 42 Report No.: TW2111207E

ı	Product:	7	Vireless H	eadphone	]	Detector		Vei	rtical	
	Mode	K	eeping Tra	nsmitting	Te	est Voltage		DC	23.7V	
Te	mperature		24 deg	g. C,	I	Humidity		56%	% RH	
Te	est Result:		Pas	SS						
Part 1	.5C Class B 1GHz-18GHz	-2								
1.06+.	2-									
90	0-							N	11	
80	0-								<b>\</b>	
7(	0-									
									\	
	0-									
01								/		
	0-						- In the	I/12		
50			rate of the thrade of Jacob	an contacts of act of the		MB		)12 -		ph the same
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50	O-milania (p.) interpreta	international designation of the second disconsistence of the second disconsistency of the second disconsistence of the second disco	يودران المطاورة والمراورة	معادمته بهلام أو مراح والمراح	ويستوار أواله والمراور والمتعاود	MB W	pisagil disabbilan dalah	1/2 •		photos (Million Million Millio
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50 40 30		inkontisian oleh sunan and luqu	يودرون والمراف فالمراف فالمراف فالمرافقة	مضاعب بالإمارة المراجع	المتعالمة	Marian Marian	overt to the definition of the second	1/2 0		Market November
56 46 36 26	0	international distribution of the second distrib	يورون والمرافية المرافية والمرافقة المرافقة المر	معتدمي يعاجد بالإراج في الإدار الإراج ال	oostakeelenakiisikkaalikkeele	ngsilangaji di dalah da	sicial te the purpose	y/2		A CONTRACTOR OF THE PROPERTY O
56 46 36 20 10	0	intervalence of the same of th	iyoti, salayati bilga biriya alaba		equency (MHz)		osaid.esph.halada	M2 •		2410
56 46 36 20 10		Results	Factor			Detector	Table	Height	ANT	2410
5(44) 3(4) 2(4) 1(6)	0			Fn	equency (MHz)			Height (cm)		2410
50 44 30 20 10 0.0	o- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	Results	Factor	Fn Limit	equency (MHz)  Over Limit		Table	_		2410
5(44) 3(4) 2(4) 1(6)	o- 0- 0- 0- 0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	equency (MHz)  Over Limit (dB)	Detector	Table (o)	(cm)	ANT	2410 Verdid

Report No.: TW2111207E Page 26 of 42



]	Product:	V	Vireless H	leadphone		Polarity		Н	orizontal	
	Mode	K	eeping Tr	ansmitting		Test Voltag	ge	Γ	OC3.7V	
Te	mperature		24 de	g. C,		Humidity	7	5	6% RH	
Te	est Result:		Pa	ss						
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								
9	00-			^						
8	80-			No.						
7	70-			M						
6	50-	1.00	$\sqrt{}$	My						
€ 5	60-			M2	M					
o 4 (m//ngp) level	0-, , , , , , ,			•	Market Market	n digital prison di diki dikin di diki di dikin di kan propinsi	التلافية أوعانية ومريد التلافية	والمراجع والمراجع المراجع المر		
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	60 -						(Ang) and and Series (Ang) and Series (Ang)	erick felding or dong on the bills being a gas to the	hijidayayda sariy <del>ddir aasaa gallay hadd</del> ilyd y aboddi	tato Ballata agini
3							ger 1949 jan zur die Spectrum Grand ist dem	and the second s	t goding of the expellence of the second	ento Balfalel Legica
3	80-	47					tea (file) is no lea discome teas e f am	en de la company de la comp	t goding godin no ng godin no ng godin no ng godin no ng godin ng godin ng godin ng godin ng godin ng godin ng	
	10-							enter (Transport of the State o	Maryakee 19th across the 19th	
3 2 1 0.	20-			2483.					Maryakee 19th across life with his factor of the factor of	2500
3 2 1 0.	10	Results	Factor	Limit	5	Detector	Table	Height	ANT	2500
3 2 1 0.	0-2470		Factor (dB)	1	5 Frequency (MHz)					2500
3 2 1 0.	10- 10- 10- 10- 2470 Frequency	Results		Limit	5 Frequency (MHz)		Table	Height		

Report No.: TW2111207E Page 27 of 42

Date: 2021-12-01



]	Product:	V	Vireless He	eadphone	I	Detector	Vei	Vertical			
	Mode	K	eeping Tra	nsmitting	Tes	st Voltage	3.7V	3.7V			
Te	mperature		24 deg	g. C,	Н	Iumidity		56% RH			
Те	est Result:		Pas	s							
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2									
9	10-										
8				Λ.							
7	70-										
6	60-		M. Comment								
			1	- 1							
	0-	مرا المرابع المرابع		WH.							
	10 - W. Land Land Land			July .	North Control of the State of t	l Louise du monte de la linea	a graph and the polymorphic states of the st	والمعرف والمعارض والمعارض والمعارض والمعرف والمعارض والم	الدراظ أعرب المراطقة	Harry May	
5				M	Northwest and and address.	i i o minori i no sectifici i in an	a pinaka pika kata kata kata kata kata kata kata k	يراه معالمها لإدنيا أطانيه ماسيا	n ng katalan kan kan kan kan kan kan kan kan kan k	Harry Harry	
5 4	0-				Northwest designation that the	Handayak in Mariddh Albad	napi shapishi na ipidayo daga c	والمراجعة المختلطة المتحددة ال	المستهلة المستهدات والمستهدات وال	U.	
3	0-11-1-11-11-11-11-11-11-11-11-11-11-11-	ALLEGE STEELS STEEL	<i></i>		Marka de la constitución de la c	tionelegel in postablik ding	national designations de la constitución de la cons	aterninklikasilväkun dunk	in delikasi kari kari kari kari kari kari kari kar		
3 2 2	0-					i kanadayad in maasiid dhibbaad	a ajida dibin sidan sidan diga	. Newschool described	in-filikapidhiya ya <sup>b</sup> abkayk	1.	
3 2 2	0-	ALLEN AL		2483.5		Unadayetin metaldikili ad	najskablensjólenskyn	. Ne and agine is the little and a shock	n national policy and a distance	2500	
3 3 2 2 0.	0-	Results	Factor		,	Detector	Table	Height	ANT		
5 4 3 2	0		Factor (dB)		; Frequency (MHz)					2500 Verdict	

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

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

Report No.: TW2111207E Page 28 of 42

Date: 2021-12-01



## 8.0 Antenna Requirement

## **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain 0dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

Page 29 of 42

Report No.: TW2111207E



FSK Modulation											
Product:		Wirel	ess Headp	hone		T	est Mode:	Keep transmitting			
Mode		Keepii	ng Transn	nitting		Te	est Voltage	DC3.7V			
Temperature		2	24 deg. C,			I	Humidity		56%	RH	
Test Result: Pass					Detector		P	K			
dB Bandwidth 865.73kHz								-			
Ref Lvl		Marker ndB	1 [T1 n	ndB] .00 dB		SW SW	30 k		F Att	20 di	3
10 dBm	:	BW 865	.731462	293 kHz	SV	ИT	8.5 m	s U	nit	dì	3m
10							lacksquare1	[T1]	-1	l.54 di	3m
				1					2.40188	277 GH	z
0				Ž.	^ -		ndE	i	20	.00 dE	
					$ \mathcal{V} $	ما	BW		5.73146		
-10						7	$ abla_{\mathrm{T1}}$	[T1]	2.40159		
			- /				$\bigvee_{\mathbf{\nabla}_{\mathbf{T}}}$	[T1]	-21		
-20			T1 Y				Vr2		2.40245		
1MAX -30								\			1
			/*					7			
-40		-\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							~~\		
-50		W						W		M	Ų,
60											
70											
-80											-
-90 Center 2.4					kHz/					ın 3 MF	

Page 30 of 42 Report No.: TW2111207E



Product:	Wireless Headphone					Test Mode:		Keep transmitting		
Mode		Keepin	g Transmi	tting	Г	est Voltage	DC3.7V			
Temperature	24 deg. C,					Humidity		569	% RH	
Test Result:			Pass			Detector		]	PK	
dB Bandwidth		86	65.73kHz							
Ŕ		Marker	1 [T1 r	ndB]	RBW	30 kH	Iz R	F Att	20 dB	
Ref Lvl		ndB		00 dB	VBW	100 kH				
10 dBm		BW 865	5.731462	293 kHz	SWT	8.5 ms	s Ui	nit	dBm	1
						<b>v</b> <sub>1</sub>	[T1]	-1	l.33 dBm	A
				1				2.44087	675 GHz	
0				100	$\wedge$	ndB		20	0.00 dB	
				• • •	$\bigvee$	$oldsymbol{ abla}_{ ext{T1}}$	86 [T1]	5.73146 -21		
-10				$\sim$	7	1	_[.T.T.]	2.44058		
			^	ſ		$\bigvee_{\mathbf{T}_{2}} \nabla_{\mathbf{T}_{2}}$	[T1]	-21	l.50 dBm	
-20			T./			V 2		2.44145	391 GHz	
-30										1M
			,				Jy.			
-40		$\sqrt{}$						$\sim$		
-50	~√	V					<b>∀</b>	V	My Maria	
-60										
-70										
-80										
-90 Center 2					kHz/				an 3 MHz	

Page 31 of 42

Report No.: TW2111207E



Product:		Wirele	ss Headph	one		Test Mode:		Keep transmitting			
Mode		Keepin	g Transmi	tting	,	Test Voltage	;	DC3.7V			
Temperature	24 deg. C, Pass					Humidity		56% RH			
Test Result:						Detector		]	PK		
20dB Bandwidth	865.73kHz										
		Marker	1 [T1 n	ndB]	RBW	30 k	Hz R	F Att	20 dB		
Ref Lvl		ndB		00 dB	VBW				_		
10 dBm		BW 865	5.731462	293 kHz	SWI	8.5 m	s U	nit	dBm	l -	
						<b>v</b> 1	[T1]	-1	1.67 dBm	A	
0				1				2.47987	675 GHz		
				1	$\wedge$	ndE	3	20	0.00 dB		
					$V \setminus V$	BW ∇ <sub>T</sub>	86 . [T1]	5.73146 -21	293 kHz 1.91 dBm		
-10				$\sim$		\		2.47958			
			m1 ^	Į		$\bigvee_{\mathbf{T}_{2}} \nabla_{\mathbf{T}_{2}}$	[T1]	-21	1.79 dBm		
-20 1MAX			7			W,		2.48045	391 GHz	1M2	
IMA							)				
-30			<del>/</del>			<u> </u>	4				
		$\sim$					7				
-40		\\					<del>-  </del>				
		$\sqrt{}$						$\bigwedge$			
-50	~~	$\overline{}$									
								\	<b>\</b>		
-60									- Way		
-70											
-80											
-90											
Center 2	.48 GHz	z		300	kHz/			Spa	an 3 MHz		

Report No.: TW2111207E Page 32 of 42



π/4D-QPSK M	odulatio	n										
Product:		Wirele	ess Headph	ione		Т	est Mode:		Keep tra	ansmitting		
Mode	Keeping Transmitting 24 deg. C,					To	est Voltage	)	DC3.7V 56% RH			
Temperature						]	Humidity					
Test Result:			Pass				Detector		]	PK		
20dB Bandwidth		1.	.251MHz									
Ŕ		Marker	1 [T1 n	ndB]	R	BW	30 k	Hz R	F Att	20 dB		
Ref Lvl		ndB		00 dB		BW	100 k					
10 dBm		BW I	1.250501	.00 MHz	S	WT	8.5 m	ıs Uı	nit	dBm		
10							<b>v</b> <sub>1</sub>	[T1]	-3	l.66 dBm	A	
0				1					2.40188	3277 GHz		
0				Ň	Λ.		ndI	8	20	0.00 dB		
				/\_/	\_~		BW ∧ ∇ <sub>T</sub>	[T1]	1.25050	$100~\mathrm{MHz}$		
-10			W	$\bigvee$		abla			2.40141			
		-	, _/				$\nabla_{\mathrm{T}}$	T[T1]	-21			
-20			/					Ÿ	2.40266	433 GHz	1MA	
-30								7			IMA	
-40	Λ	$\mathcal{M}$						\\				
-50	<b>V</b>									~~		
-60												
-70												
-80												
-90												
Center 2				300	kHz/				Spa	an 3 MHz		
Date: 29	NOV.2	021 10	:18:55									

Report No.: TW2111207E Page 33 of 42



Product:		Wirele	ess Headph	ione		Test Mode:			Keep transmitting		
Mode		Keepin	ıg Transmi	tting		To	est Voltage	;	DC3.7V		
Temperature		24 deg. C,					Humidity		56% RH		
Test Result:			Pass				Detector		]	PK	
dB Bandwidth		1	.257MHz								
r)		Marker	1 [T1 n	ndB]	F	RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		00 dB	7	/BW	100 k				
10 dBm		BW :	1.256513	303 MHz	5	SWT	8.5 m	s U	nit	dBm	1
10							<b>v</b> <sub>1</sub>	[T1]	-1	.33 dBm	A
0				<u>1</u>					2.44087	675 GHz	
				$\wedge$	$\wedge$		ndE	3	20	0.00 dB	
				\ \ <sub>\\\</sub>	\ \	<u> </u>	BW	[T1]	1.25651 -21	303 MHz	
-10			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\		$\vee$			2.44040		
		-	$\sim$				$ abla_{\mathrm{T}_{2}}$	T2 <sup>T1</sup>	-21	.35 dBm	l.
-20 1MAX								7	2.44166	433 GHz	1M
-30											
-40 -50	$\sim$ $\wedge$	$\sqrt{}$						\ <u></u>	m/ a	_	
									<b>\</b>		
-60											
-70											
-80											
-90 Center 2	.441 GH	Hz		300	kHz/				Spa	ın 3 MHz	

Page 34 of 42

Report No.: TW2111207E



Product:		Wirele	ss Headph	one		Test Mode:			Keep transmitting		
Mode		Keepin	ng Transmitting				Test Voltage		DC3.7V		
Temperature			4 deg. C,			_	Humidity		56%	% RH	
Test Result:			Pass			_	Detector		I	PK	
OdB Bandwidth		1.	.251MHz								
( )		Marker	1 [T1 n	ndB]	F	RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB	20.	00 dB	7	/BW	100 k	Hz			
10 dBm		BW 3	1.250501	00 MHz	5	SWT	8.5 m	s U	nit	dBm	ı
10							<b>v</b> <sub>1</sub>	[T1]	-1	.68 dBm	
				1					2.47988	277 GHz	A
0				X	^		ndE	3	20	.00 dB	
				\			BW . ↑ ▽ <sub>T1</sub>		1.25050		
-10			~~	\ <del>\</del>	\ <u>\</u>	$\nabla$	W TI	[T1]	-21 2.47941	.11 dBm	
		_		<u> </u>			$\nabla_{\mathrm{T}}$	[T1]	-21	.89 dBm	
-20			<i>†</i>					TŽ V	2.48066	433 GHz	
1MAX								4			1M2
-30											
-40	$\wedge$	$\bigwedge$						4	W\		
-50	7								W.	Var M	
-60											
-70											
-80											
-90											
Center 2	.48 GH:	Z		300	kHz/	′			Spa	ın 3 MHz	

Report No.: TW2111207E Page 35 of 42

Date: 2021-12-01



#### 10.0 FCC ID Label

#### FCC ID: 2ALOE-ARBT255

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

#### **Mark Location:**



Page 36 of 42

Report No.: TW2111207E

Date: 2021-12-01



#### 11.0 Photo of testing

#### 11.1 Conducted test View--



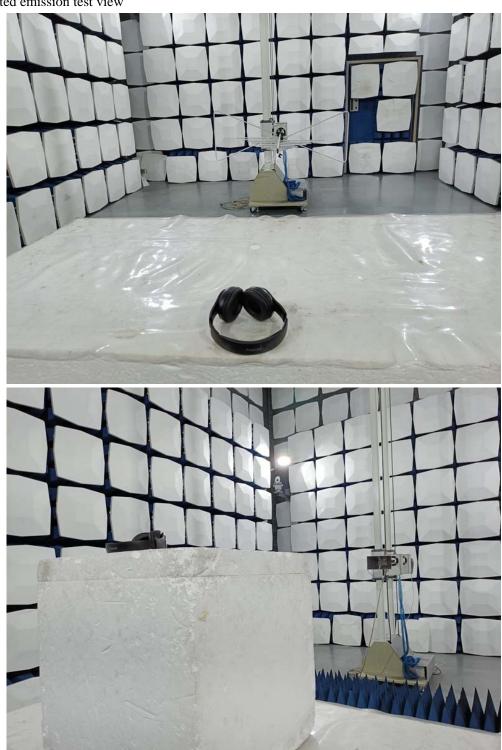
Page 37 of 42

Report No.: TW2111207E

Date: 2021-12-01



#### Radiated emission test view



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

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Report No.: TW2111207E

Date: 2021-12-01



## 11.2 Photographs – EUT



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

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30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 7

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Page 39 of 42

Report No.: TW2111207E

Date: 2021-12-01



Outside View





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Page 40 of 42 Report No.: TW2111207E



Outside View



Page 41 of 42

Report No.: TW2111207E

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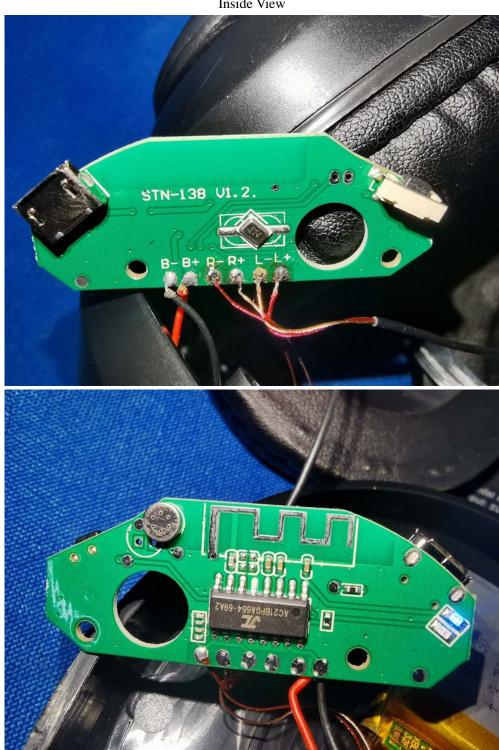
Page 42 of 42

Report No.: TW2111207E

Date: 2021-12-01



Inside View



-- End of the report--

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