



Report No.: TW2104215E File reference No.: 2021-04-28

Applicant: TECHNOFASHION INC.

Product: BLUETOOTH STEREO HEADPHONES

Model No.: NTHP01

Brand Name: Nautica

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: April 28, 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

Date: 2021-04-28



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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

Date: 2021-04-28



## Test Report Conclusion Content

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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: TECHNOFASHION INC.

Address: 26, Park Street Ste#2340, Montclair, NJ, USA, 07042

Telephone: +1 (347) 510-2340

Fax: --

#### 1.3 Description of EUT

Product: BLUETOOTH STEREO HEADPHONES

Manufacturer: TECHNOFASHION INC.

Address: 26, Park Street Ste#2340, Montclair, NJ, USA, 07042

Brand Name: Nautica
Model Number: NTHP01

Additional Model Name N/A

Hardware Version: PCB: BSX-BT18 v2.1

Software Version: (Nautica H120) 2021040301

Serial No.: NTHP01202103

Rating: DC5V, 500mA or Built-in DC3.7V, 500mAh, 1.11Wh 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 2.3dBi Max (Get from the antenna specification

provided by the applicant)

#### 1.4 Submitted Sample: 1 Sample

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#### 1.5 Test Duration

2021-04-16 to 2021-04-27

#### 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					
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	2020-07-06	2021-07-05
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	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2020-06-23	2021-06-22
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	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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#### **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	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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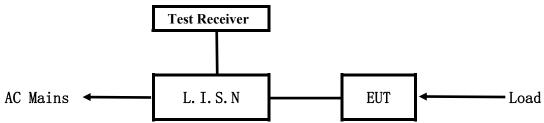
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#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

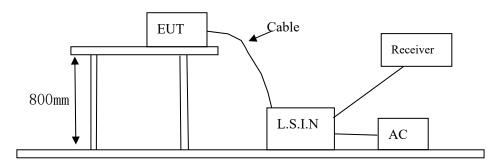


**EUT: Equipment Under Test** 

#### 5.2 Test Method and test Procedure

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

#### 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.

One channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
BLUETOOTH STEREO	TECHNOEA SHION INC	NTUDO1	24.7DO M00009
HEADPHONES	TECHNOFASHION INC.	NTHP01	2AZBO-N00008

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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 C63.10-2013

- 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 ~ 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)

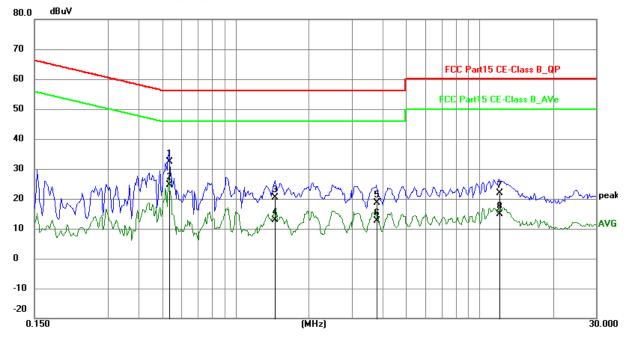
**EUT Operating Environment** 

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

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

Model: NTHP01 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	22.49	9.77	32.26	56.00	-23.74	QP	Р
2	0.5322	14.77	9.77	24.54	46.00	-21.46	AVG	Р
3	1.4487	10.50	9.79	20.29	56.00	-35.71	QP	Р
4	1.4487	3.01	9.79	12.80	46.00	-33.20	AVG	Р
5	3.7878	8.71	9.88	18.59	56.00	-37.41	QP	Р
6	3.7878	2.63	9.88	12.51	46.00	-33.49	AVG	Р
7	12.0363	11.58	10.25	21.83	60.00	-38.17	QP	Р
8	12.0363	4.60	10.25	14.85	50.00	-35.15	AVG	Р

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

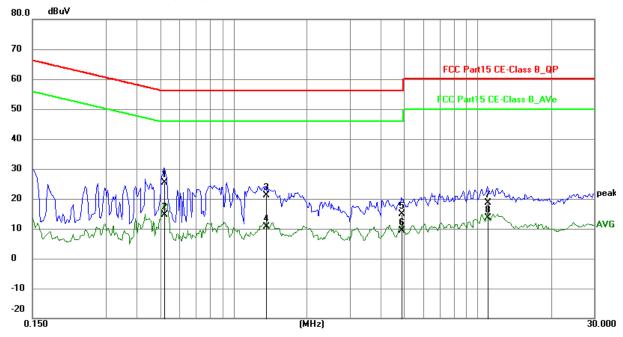
**EUT Operating Environment** 

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

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

Model: NTHP01 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	0.5205	15.54	9.77	25.31	56.00	-30.69	QP	Р
2	0.5205	4.85	9.77	14.62	46.00	-31.38	AVG	Р
3	1.3629	11.35	9.79	21.14	56.00	-34.86	QP	Р
4	1.3629	0.91	9.79	10.70	46.00	-35.30	AVG	Р
5	4.8798	4.85	9.92	14.77	56.00	-41.23	QP	Р
6	4.8798	-0.51	9.92	9.41	46.00	-36.59	AVG	Р
7	10.9911	8.41	10.20	18.61	60.00	-41.39	QP	Р
8	10.9911	3.40	10.20	13.60	50.00	-36.40	AVG	Р

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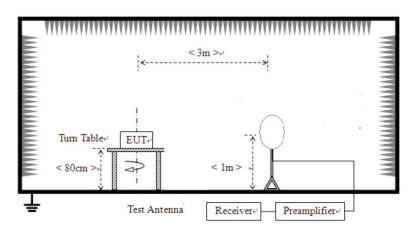


#### **6** Radiated Emission Test

- 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**

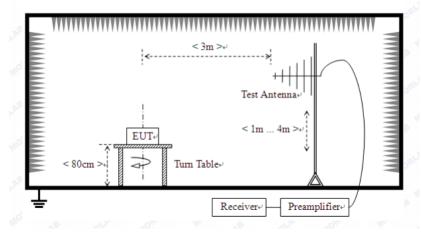
For radiated emissions from 9kHz to 30MHz



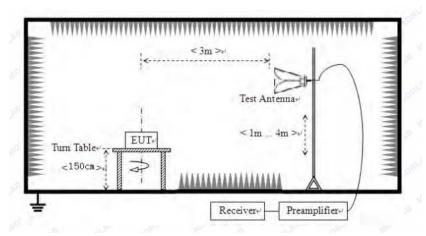
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For radiated emissions from 30MHz to1GHz



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.

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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 Strength of Fundamental (3m)			Field S	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 $\mu$ 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  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. 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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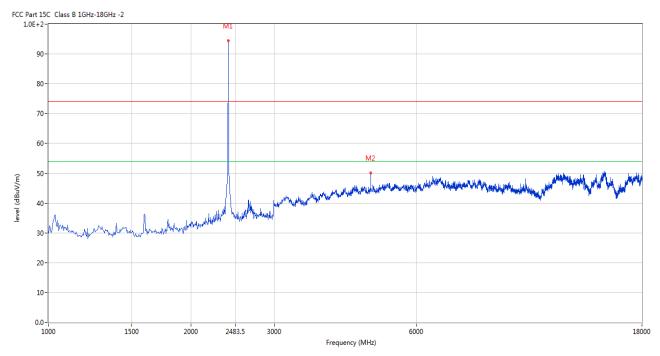


#### 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



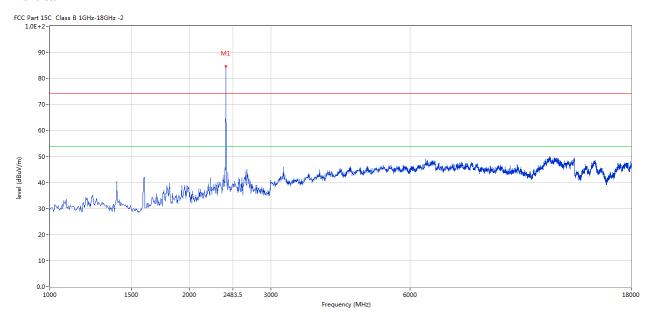
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	94.51	-3.57	114.0	-19.49	Peak	155.00	100	Horizontal	Pass
1*	2402.500	83.72	-3.57	94.0	-10.28	AV	155.00	100	Horizontal	Pass
2	4803.750	50.11	3.13	74.0	-23.89	Peak	138.00	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	84.69	-3.57	114.0	-29.31	Peak	42.00	100	Vertical	Pass

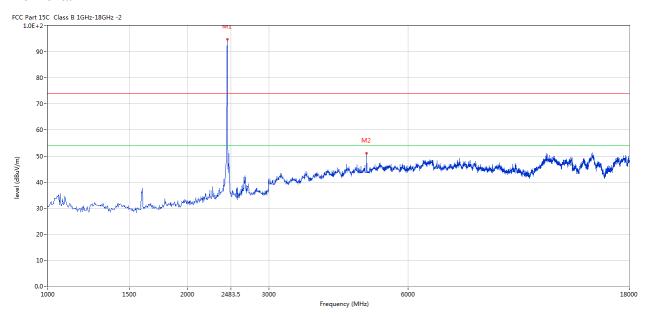
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Please refer to the following test plots for details: High Channel-2441MHz

#### Horizontal



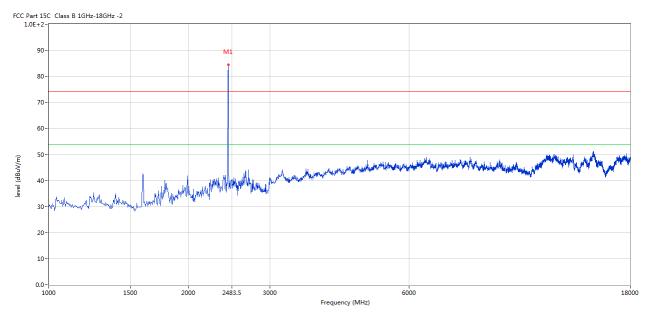
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	94.83	-3.57	114.0	-19.17	Peak	160.00	100	Horizontal	Pass
1*	2440.750	83.95	-3.57	94.0	-10.05	AV	160.00	100	Horizontal	Pass
2	4880.250	51.12	3.20	74.0	-22.88	Peak	146.00	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	2440.750	84.43	-3.57	114.0	-29.57	Peak	136.00	100	Vertical	Pass

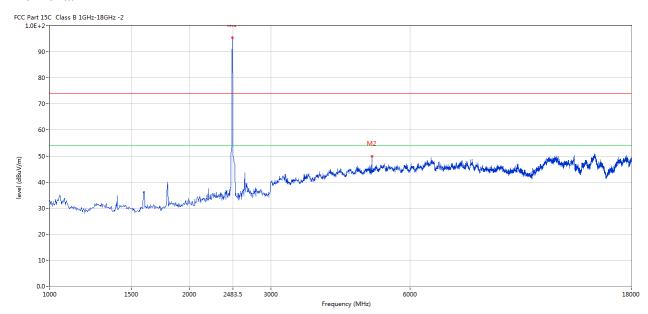
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.750	94.34	-3.57	114.0	-19.66	Peak	194.00	100	Horizontal	Pass
1*	2479.750	83.67	-3.57	94.0	-10.33	AV	194.00	100	Horizontal	Pass
2	4956.750	49.89	3.35	74.0	-24.11	Peak	135.00	100	Horizontal	Pass

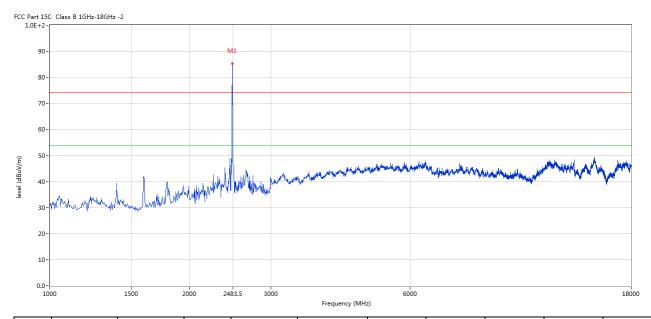
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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.750	85.18	-3.57	114.0	-28.82	Peak	216.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

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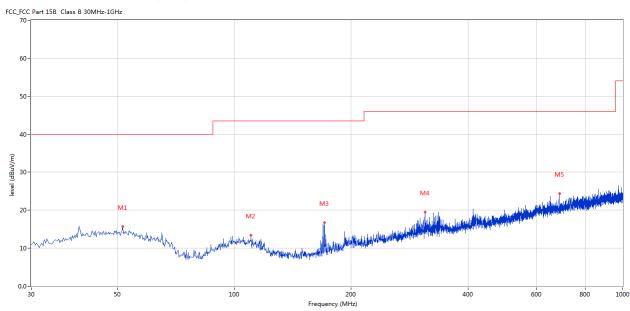


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	51.577	15.73	-11.41	40.0	-24.27	Peak	31.00	100	Horizontal	Pass
2	110.490	13.45	-13.63	43.5	-30.05	Peak	139.00	100	Horizontal	Pass
3	170.615	16.70	-15.92	43.5	-26.80	Peak	101.00	100	Horizontal	Pass
4	310.260	19.51	-10.71	46.0	-26.49	Peak	137.00	100	Horizontal	Pass
5	687.496	24.40	-4.30	46.0	-21.60	Peak	172.00	100	Horizontal	Pass

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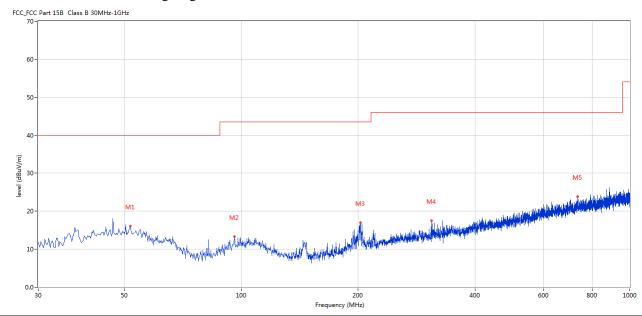


## Radiated Emission In Vertical (30MHz----1000MHz)

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	51.820	16.03	-11.42	40.0	-23.97	Peak	280.00	100	Vertical	Pass
2	95.944	13.27	-14.16	43.5	-30.23	Peak	352.00	100	Vertical	Pass
3	202.617	16.98	-13.40	43.5	-26.52	Peak	337.00	100	Vertical	Pass
4	308.563	17.55	-10.88	46.0	-28.45	Peak	312.00	100	Vertical	Pass
5	735.014	23.84	-3.69	46.0	-22.16	Peak	360.00	100	Vertical	Pass

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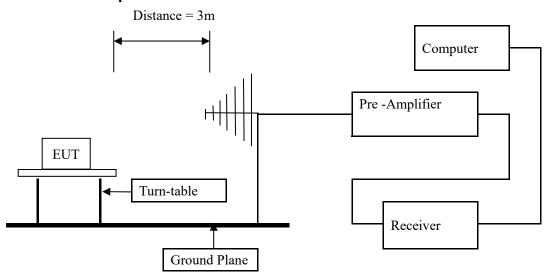


#### 7. Band Edge

#### 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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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.

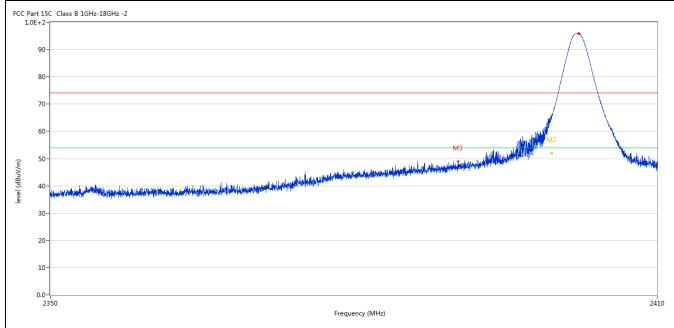
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#### 7.6 Test Result

Product:	BLUETOOTH STEREO HEADPHONES	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	2400.010	64.68	-3.57	74.0	-9.32	Peak	141.00	100	Horizontal	Pass
2**	2400.010	52.07	-3.57	54.0	-1.93	AV	141.00	100	Horizontal	Pass
3	2390.155	48.89	-3.53	74.0	-25.11	Peak	122.00	100	Horizontal	Pass

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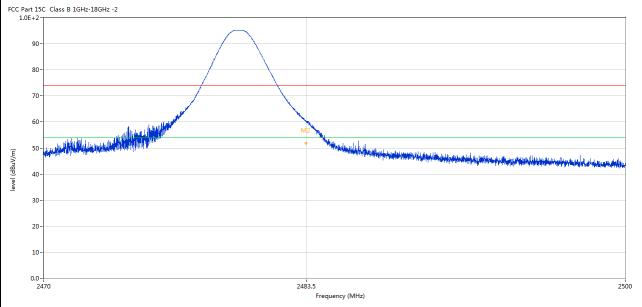


Produc	ıct:	ŀ		OOTH STEI DPHONES		Detect	tor		Vertical	
Mode	le		Keeping	g Transmitti	ing	Test Vol	tage	]	DC3.7V	
Tempera	ature		24	4 deg. C,		Humid	lity	4	56% RH	
Test Res	sult:			Pass						
Part 15C Class B	B 1GHz-18GHz	-2				•				
									M1	
90-									MIT.	
80-									-/	
70-										
									1	
60-									M2	
50-							N/13	uhlal , likkasuluk	M2 •	<u> </u>
50-	الريدانية الراقي	the last of the second of the second	را <u>بالار بالأل</u> والار والم	, il litata la <mark>la lita a di santa al</mark>	والمتاأمة والقدار أراؤه باريد والمراثة وأفته		N13	Highwall	M2 •	V. Carrier Labor
	nith the second state of	i franklijska marka karaka k	inghida Nishidih dalah	y lighted an Ambalanda eribe ade	<del>iğ</del> hiderli poşkadı ağırıldı kirilli ildi.	he and the second design	NI 3	Hiller Lyndhaire and an	M2 •	V. Marine
50-	in the state of th	ikolajak <sub>ia</sub> akonolohika	iryddd Mirwhlifadiod	y lyddiol ac Andria actorio gan	<del>atifizida palipasi da katista kalluda</del>	Hidayah Maradan yakilara bi	MI3	Hillythian	•	And the second
50-	ring ji daga serjenggi dag	ikolasikusikeenskulsiksi	ingthe Strict Health of the	j filjani kan Alapata da waka nda	atherinal production and the includes	likita kirint dina pilanyiiibilasa ki		Hilphy Heady of	•	A conflict the
30- 20-	ring dispersion de la company de la comp	ikolasikanikan kahalisika	nghakipadikaiki	ill printer a laberation de contraction de contract	<del>atificial probability to the little to the </del>	hida a hada a maraka ka maraka			M2 •	A CONTRACTOR OF THE PARTY OF TH
30- 20-	ng ging hija kan pang kalang	dedicate a deservado de side de	ing that this will be dishift	gifted to the state of the section o		Hiday had some any with large of	W STATE OF THE STA	akijaly akkasily s <sup>o</sup>	M2 •	and shipping
30- 20-	i yili ili dha kuri bagi ik da	ifeology de sus de la companya de la	irydraft Siewell de Aldryf	of principal desired and and and and and and and and and an	A Barrier Barr	gargaria Haragania gara ar		HALLALA HALASA PARTA	M2 •	2
30- 20-	nginggi dagbang bang bang bang bang bang bang ban	ilkolligisten vietoren et versionen	nykaktionerijkaidaj	i fikan kanan k	Frequency (N	gargaria Haragania gara ar	White the state of		M2 •	
30- 20- 10- 2350	equency	Results	Factor	Limit	A Barrier Barr	gargaria Haragania gara ar	Table (o)	Height	ANT	
30- 20- 10- 2350		Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (N	ине допунка и том	Table (o)	Height (cm)	ANT	1
30- 20- 10- 0.0- 2350					Frequency (N	ине допунка и том	Table (o) 220.00	_	ANT Vertical	verdic Pass
30- 20- 10- 2350 No. Frec (MH	Hz)	(dBuV/m)	(dB)	(dBuV/m)	Frequency (N Over Limit (dB)	nHz)  Detector		(cm)		Verdic

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Product:	BLUETOOTH STEREO HEADPHONES	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	2483.478	60.55	-3.57	74.0	-13.45	Peak	151.00	100	Horizontal	Pass
2**	2483.478	51.79	-3.57	54.0	-2.21	AV	151.00	100	Horizontal	Pass

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2483.528

50.58

-3.57

74.0



F	Product:	duct:  HEADPHONE  dode  Keeping Transmit  Perature  24 deg. C,  Result:  Pass		EO	Detec	tor	,	Vertical		
	Mode Keeping Transmitt mperature 24 deg. C, st Result: Pass  C Class B 1GHz-18GHz -2	g Transmitti	ng	Test Vol	tage	DC3.7V				
Te	Mode Keeping Transmitt mperature 24 deg. C, st Result: Pass  C Class B 1GHz-18GHz -2		Humid	lity	5	56% RH				
Te	est Result:			Pass						
CC Part 1! 1.0E+2	2-	-2								
80			)							
70	0-		-f	-						
60	0-		-/-	$\overline{}$						
		artifika, h <mark>aida Hilippa</mark> di karinda			- Andrew Hold		halp distributed by the base of the base o	i Dana melante de pirificia de la cada de	hapak lalatan na pikilik kiring	Lhalmanddd
	o-	addito, distribute the state of			- Andrew Hold	and the total section of the	iraly birdadahahilanika.	kharoodeshakijihkadeebadda	hapahalidakan periklik berap	Lhyd Myryddddi
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(m/\mu) 40 40 30	0-	artifilia, <sup>t</sup> ajidri faterna kita ankara			- Andrew Head of the Hall hall hall hall hall hall hall hall		lendy blistickelp addressed to	Ascoplated phyloplated And A	hapakalahan kengihi Habing	hha marabbal
(W/Ango) 40 30 20		oddin, kristelski produkti pokore			1779 \$17 97 \$88498	and the triple between the	indy Annideralikamist.	Abura alashak jirilah da kadhla	. Are had the area in the being	L. Songrad H. Fri
50 40 30 20		odfilis, kristerifeliera dele producer			2483.5 Frequency (MHz	र क्या कर कर से प्रस्ति है । स्व	propolitica de la deservita.	Aburaylashqijikkalasalla		2500
(W/Ango) 40 30 20		Results	Factor	Limit	2483.5	र क्या कर कर से प्रस्ति है । स्व	Table (o)	Height	ANT	2500 Verdict
(w/ <sub>M</sub> / <sub>W</sub> ) 40 40 30 20 10 0.0 2	0-	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz		Table (o)	Height (cm)	ANT	

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.

-23.42

Peak

223.00

100

Vertical

Pass

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 2.3dBi Max. It fulfills the requirement of this section. Test Result: Pass

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FSK Modulation									
Product:		OTH STEREO OPHONES		Test Mode	:	Keep trai	nsmitting		
Mode	Keeping	Transmitting		Test Voltag	e	DC3.7V			
Temperature	24	deg. C,		Humidity		56%	RH		
Test Result:		Pass		Detector		P	K		
0dB Bandwidth	.62kHz				-	-			
Ref Lvl	Marker 1	[T1 ndB] 20.00 dB		30 I		? Att	20 dB		
10 dBm	BW 811.6	52324649 kHz	sı	VT 8.5 r	ms Ur	nit	dBm	L	
10			1	▼1	[T1]	-: 2.40199	1.23 dBm 9699 GHz	A	
-10		\ \tag{\tau}		nd BW <b>▽</b> <sub>T</sub>	81	20 1.62324 -20	0.00 dB 4649 kHz 0.94 dBm		
-20		<u>T</u> 1	Ì	$\bigvee_{\frac{T^2}{2}} \nabla_T$	2 [T1]	2.40159	0.90 dBm		
1MAX				5		2.40240	0581 GHz	1M	
-40					May a series of the series of				
-50	~				4	~~			
-60	V				W	کر	Morallin		
-70									
-80									
-90 Center 2.402	CHZ	300	kHz/			gn:	an 3 MHz	J	

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Mode Temperature	Mode Keep		H STEREO HEADPHONES				Test Mode:		Keep transmitting		
_		Keepin	g Transmi	tting		Te	est Voltage			3.7V	
			4 deg. C,			]	Humidity		56%	6 RH	
Test Result:			Pass				Detector		I	PK	
0dB Bandwidth		81	7.64kHz								
Ŕ <b>A</b>	1	Marker	1 [T1 n	ndB]	R	BW	30 ki	Hz Rl	F Att	20 dB	
Ref Lvl	1	ndB	20.	00 dB	V	BW	100 k	Hz			
10 dBm	1	BW 817	.635270	54 kHz	S	WT	8.5 m	s Uı	nit	dBm	1
10							<b>v</b> <sub>1</sub>	[T1]	-1	.68 dBm	A
				1					2.44099	699 GHz	
0				/			ndB		20	.00 dB	
				$\mathcal{N}^{3}$	~~		BW ∇ <sub>T1</sub>	81 [T1]	7.63527	054 kHz	
-10				\\\\\	\ \ \ \	٦.	* *		2.44058	818 GHz	
			m1.	10		7	$\setminus_{\mathbb{T}^2} \nabla_{\mathbb{T}^2}$	[T1]	-21	.04 dBm	
-20							The state of the s		2.44140	581 GHz	1 M.Z
IMAX			$\sim$				h.,				IMA
-30			<del> </del>				<u> </u>				
		~						4			
-40		- J						<u></u>			
	$\mathcal{M}$							٧ ,	~~		
-50 Mn N	700/	J						<b>─</b>	\_		
W . ~									J.	hamen	
-60										~ ~	
-70											
-80											
-90											
Center 2				300	kHz/				Spa	n 3 MHz	

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GFSK Modula	tion											
Product:	BLUET	TOOTH S	ΓEREO H	EADPHO:	NES	T	est Mode:		Keep tr	ansmitting		
Mode		Keepin	g Transmi	tting		Te	est Voltage		DO	C3.7V		
Temperature		2	4 deg. C,				Humidity		569	% RH		
Test Result:			Pass				Detector		PK			
20dB Bandwidth		81	17.64kHz									
		Marker	1 [T1 r	ndB]	R	BW	30 k	Hz R	F Att	20 dB		
Ref Lvl		ndB		00 dB		BW		Hz				
10 dBm		BW 817	.635270	)54 kHz	S	VΤ	8.5 m	ıs Uı	nit	dBm		
							<b>v</b> <sub>1</sub>	[T1]	-2	2.40 dBm	A	
0				1					2.47999	699 GHz		
				~~/			ndE BW	81	20 17.63523	0.00 dB 7054 kHz		
-10				N			$oldsymbol{ abla}_{ ext{T1}}$		-22	2.64 dBm		
10				$\int$					2.47958	8818 GHz		
-20			m10/	<i>)</i> *		W	$\nabla_{\mathrm{T2}}$	[T1]	-21	1.91 dBm		
1MAX			~				The same of the sa		2.48040	0581 GHz	1MA	
-30			<del>\</del>					\ <u></u>				
-40	$\sim$							7	m			
-50 Why	und -	V						\_/	\mathcal{L}_\tau_\tau_\tau_\tau_\tau_\tau_\tau_\tau	maly.		
-60												
-70												
-80	-80											
-90 Center 2					kHz/				Spa	an 3 MHz		
Date: 27	7.APR.2	021 20	:31:41									

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Product:	BLUETOO	TH STERE	O HEADPHO	NES	Test Mode:	Keep transmitting		
Mode	K	Leeping Tran	smitting		Test Voltage		DC3.	7V
Temperature		24 deg.			Humidity		56% I	RH
Test Result:		Pass			Detector		PK	-
dB Bandwidth		1.257M	Hz					
Ref Lvl	ndl		20.00 dB	RBI VBI	W 100 kH	Z		20 dB
10 dBm	BW	1.256	51303 MHz	SW	T 8.5 ms	Unit	<u> </u>	dBm
0					▼1 [	T1]	4019969	23 dBm 99 GHz
-10					BW V <sub>T</sub> 1	1. [T1]	2565130	03 MHz 14 dBm
-20		TJ	, ,,,		\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	2[T1]		74 GHz 10 dBm
1 <b>MAX</b>						2 •	102 02 02	11
-40								
-50	har me	J					1	
-60 -60								Mary
-70								
-80								
-90 Conton 3	.402 GHz		200	kHz/			C	3 MHz

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Product:	BLUET	TOOTH S	TEREO H	EADPHO:	NES	Т	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		T	est Voltage		DC	3.7V	
Temperature		2	4 deg. C,				Humidity		56%	% RH	
Test Result:			Pass				Detector		]	PK	
0dB Bandwidth		1.	.257MHz								
Ŕ		Marker	1 [T1 n	ndB]	R	BW	30 kF	ız Ri	F Att	20 dB	
Ref Lvl		ndB		00 dB	V	BW	100 kF				
10 dBm		BW 1	L.256513	303 MHz	S	WT	8.5 ms	s Ur	nit	dBm	l
							$\mathbf{v}_1$	[T1]	-1	.66 dBm	A
				1					2.44099	699 GHz	
0				/			ndB		20	.00 dB	
					$\backslash \cap$		BW $\nabla_{\mathrm{T1}}$	[T1]	1.25651	303 MHz	
-10			~~^\	W V	$ \wedge$ $ \wedge$	~	m,		2.44037	174 GHz	
			$\int_{0}^{\infty}$				√√13	[T1]	-21	.54 dBm	
-20		Ż					<del>\</del>	<u> </u>	2.44162	826 GHz	1M
											IM
-30											
-40	ليكس								$\wedge$		
-50	je,∕⊾,fY								\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	The same	
-60											
-70											
-80											
-90 Center 2	90 Center 2.441 GHz			300	kHz/				Spa	n 3 MHz	
Date: 2	Center 2.441 GHz te: 27.APR.2021 20:24				ŕ				- T	· <del>-</del>	

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Product:	BLUET	TOOTH S'	TEREO H	EADPHO	NES	Т	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		To	est Voltage		DC	23.7V	
Temperature		2	4 deg. C,				Humidity		569	% RH	
Test Result:			Pass				Detector		]	PK	
OdB Bandwidth		1.	.257MHz								
Ŕ		Marker	1 [T1 n	ndB]	R	.BW	30 kl	Hz Rl	F Att	20 dB	
Ref Lvl		ndB		00 dB	V	BW	100 ki				
10 dBm		BW 1	L.256513	303 MHz	S	WT	8.5 ms	s Ur	nit	dBm	1
10							<b>v</b> <sub>1</sub>	[T1]	-2	.46 dBm	A
0				1					2.47999	699 GHz	
				_ /			ndB BW		20 1.25651	.00 dB 303 MHz	
1.0				$  \bigwedge  $	$\setminus \cap$		$oldsymbol{ abla}_{ ext{T1}}$	[T1]	-22	.25 dBm	
-10			~~^	$\mathcal{N}$	0	5	My .		2.47937	174 GHz	
			$\int_{0}^{\infty}$				\ <u>\</u>	[T1]	-22	.39 dBm	
-20 1MAX								Ž	2.48062	826 GHz	1M
-30											
-40	~\/\							$\mathcal{N}$	M		
-60										May May 1	
-70											
-80											
-90 Center 2				300	kHz/				Spa	n 3 MHz	
	7.APR.2				/				- 120		

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Product:	BLUET	TOOTH S	ΓEREO H	EADPHO:	NES	Τ	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		T	est Voltage		DC	23.7V	
Temperature		2	4 deg. C,				Humidity		569	% RH	
Test Result:			Pass				Detector		]	PK	
20dB Bandwidth		1.	244MHz								
Ŕ		Marker	1 [T1 n	ndB]	F	BW	30 kF	Iz RI	7 Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 kF	Ιz			
10 dBm		BW 1	.244488	398 MHz	S	TW	8.5 ms	s Uı	nit	dBm	
10							<b>v</b> <sub>1</sub>	[T1]	-1	.25 dBm	A
				1					2.40199	699 GHz	
0				. /			ndB		20	0.00 dB	
				$  \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\backslash \land$		BW $\nabla_{\mathrm{T}}$	[T1]	1.24448	8898 MHz	
-10			M^\	<del>// \</del>		~~	~~~ <u></u>	T	2.40137	.44 dBm 174 GHz	
			$\int_{0}^{\infty}$				<b>▽</b> \72	[T1]	-21	1.26 dBm	
-20		<u> </u>					· ·	2	2.40261	623 GHz	
1MAX											1M
-30											
-40	مار م	my							<i>p</i> /\		
-50	Way Con									WILL WAR	
-60											
-70											
-80											
-90											
Center 2				300	kHz/				Spa	an 3 MHz	

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Product:	BLUETO	OTH ST	ΓEREO H	EADPHO?	NES	Test Mode:			Keep transmitting		
Mode		Keepin	g Transmi	tting		Te	est Voltage		DC	23.7V	
Temperature			4 deg. C,			]	Humidity		56%	% RH	
Test Result:			Pass				Detector		]	PK	
0dB Bandwidth		1.	257MHz			_					
Ref Lvl	Ma no BV	dB	1 [T1 n 20.	00 dB	V	BW BW WT	30 ki 100 ki 8.5 ms	łz	? Att	20 dB	
10 dBm	DV	V	256513	OUS MHZ	I	WI		5 01	11.0	аып	i
0				1			<b>V</b> 1	[T1]	-1 2.44099	.65 dBm	A
				$\bigwedge$			ndB BW ▼T1	[T1]	20 1.25651	.00 dB 303 MHz .66 dBm	
-10				$\mathcal{N}$	V 1	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	[T1]	2.44037	174 GHz	
-20 <b>1MAX</b>			<u>. '</u>				\underset		2.44162	826 GHz	1M
-30											
-40	M										
-50	un Mal									Mann	
-60											
-70											
-80											
-90 Center 2	90 Center 2.441 GHz			300	kHz/				Spa	ın 3 MHz	

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Report No.: TW2104215E



Product:	BLUET	OOTH S	TEREO H	EADPHO:	NES	T	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		T	est Voltage		DC	23.7V	
Temperature			4 deg. C,				Humidity		569	% RH	
Test Result:			Pass				Detector		]	PK	
0dB Bandwidth		1.	.257MHz								
Ref Lvl			1 [T1 r			RBW	30 ki		F Att	20 dB	
10 dBm		ndB BW 1	.256513	00 dB 303 MHz		BW WT	100 kF 8.5 ms		nit	dBm	L
10							<b>v</b> <sub>1</sub>	[T1]	-2	2.40 dBm	A
0							ndB		2.47999	0699 GHz	
				$\setminus \wedge \setminus$	\		BW <b>V</b> ⊤1	[T1]	1.25651	303 MHz	
-10			$\sim$	$\mathcal{N}$	$\overline{}$	L~	m	<u> </u>	2.47937	174 GHz	
			$\int_{0}^{\infty}$				<b>√</b> 72	[T1]	-22	3.38 dBm	
-20 <b>1MAX</b>								Z Z	2.48062	826 GHz	1м
-30											
-40	. ^. /								MA.		
-50	<u>~~~~</u>								The state of the s	Warner of the same	
-60											
-70											
-80											
-90											
Center 2				300	kHz/				Spa	an 3 MHz	

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Date: 2021-04-28

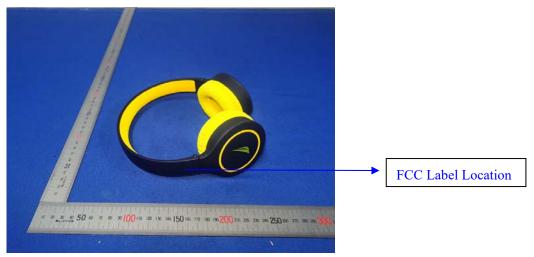


#### 10.0 FCC ID Label

#### FCC ID: 2AZBO-N00008

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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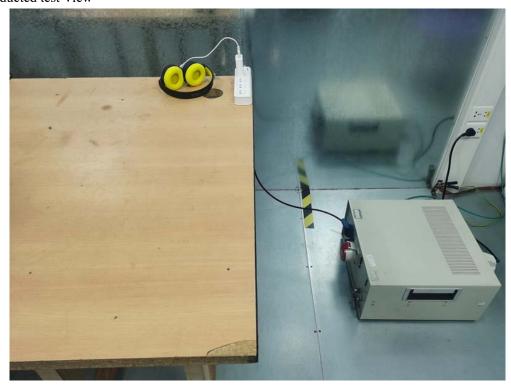
Report No.: TW2104215E

Date: 2021-04-28



#### 11.0 Photo of testing

#### 11.1 Conducted test View



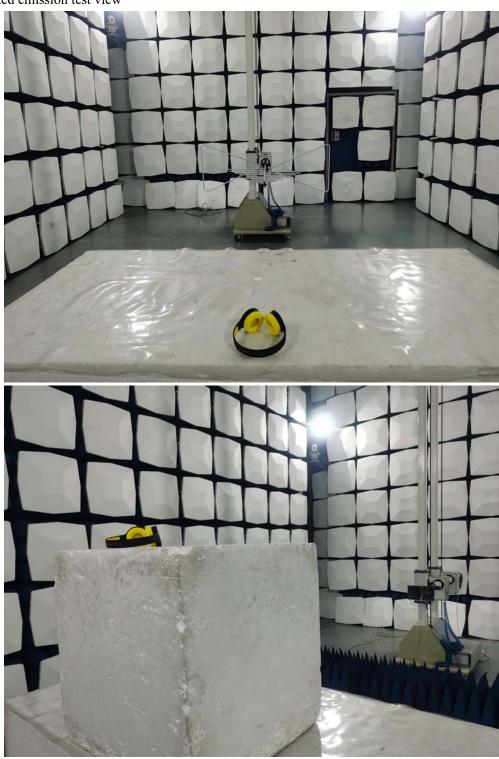
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#### Radiated emission test view



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

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#### 11.2 Photographs – EUT

#### Outside View



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#### Photographs – EUT

#### Outside View



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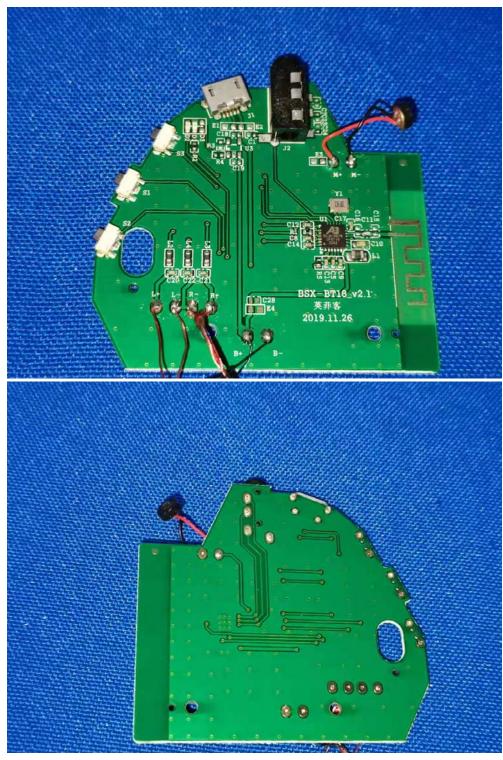
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Inside view



-- End of the report--

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