



Report No.: File reference No.:	TW2104215E 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



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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adopt any other remedies which may be appropriate.

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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, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistrationVumber: 744189For 3m Ane-boic Chamber

1.2 Applicant Details

Applicant:TECHNOFASHION INC.Address:26, Park Street Ste#2340, Montclair, NJ, USA, 07042Telephone:+1 (347) 510-2340Fax:--

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 lang

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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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**

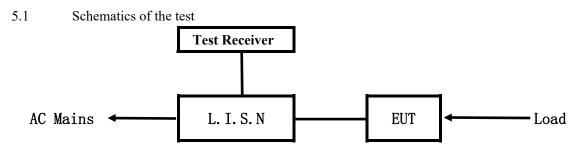
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

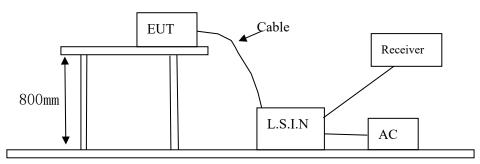


EUT: Equipment Under Test

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 500hm/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

Device	Manufacturer	Model	FCC ID
BLUETOOTH STEREO	TECHNOFASHION INC.	NTHP01	2 A 7DO N00009
HEADPHONES	TECHNOFASHION INC.	NTHPUI	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)			Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level				
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*				
$0.50~\sim~5.00$	56.0	46.0				
$5.00~\sim~30.00$	60.0	50.0				

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass

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Conducted Emission on Live Terminal (150kHz to 30MHz) A: **EUT Operating Environment** Temperature: 25℃ 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 dBuV 80.0 70 FCC Part15 CE-Class B_QP 60 FCC Part 5 CE-Class B_AVe 50 40 30 n- peak 20 AVG 10 0 -10 -20 (MHz) 30.000 0.150

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	Ρ
2	0.5322	14.77	9.77	24.54	46.00	-21.46	AVG	Ρ
3	1.4487	10.50	9.79	20.29	56.00	-35.71	QP	Ρ
4	1.4487	3.01	9.79	12.80	46.00	-33.20	AVG	Ρ
5	3.7878	8.71	9.88	18.59	56.00	-37.41	QP	Ρ
6	3.7878	2.63	9.88	12.51	46.00	-33.49	AVG	Ρ
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	Ρ

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Conducted Emission on Neutral Terminal (150kHz to 30MHz) **B**: **EUT Operating Environment** Temperature: 25℃ 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 dBuV 80.0 70 FCC Part15 CE-Class B_QP 60 FCC Part 5 CE-Class B_AVe 50 40 30 peak 20 ã AVG 10 0 -10 -20 (MHz) 30.000 0.150

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

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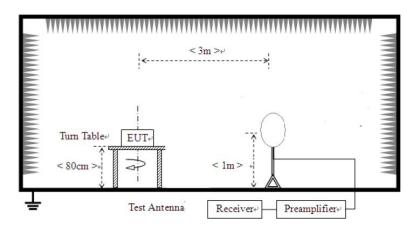


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- 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



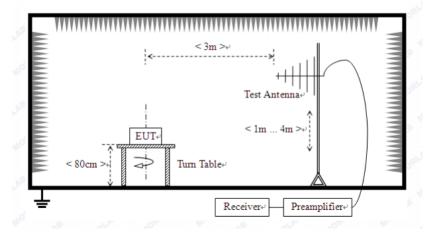
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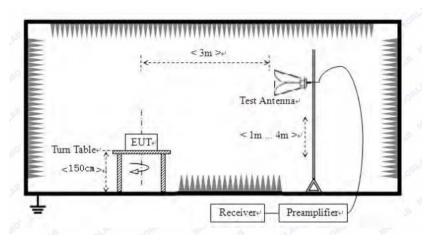
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For radiated emissions from 30MHz to1GHz



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 Stre	ength of Fundame	ntal (3m)	Field Strength of Harmonics (3m)			
(MHz)	mV/m	dBu	V/m	uV/m	dBuV/m		
2400-2483.5	50	94 (Average) 114 (Peak)		500	54 (Average)	74 (Peak)	

Note: 1. RF Field Strength $(dBuV) = 20 \log RF$ Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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 $(dBuV) = 20 \log RF$ 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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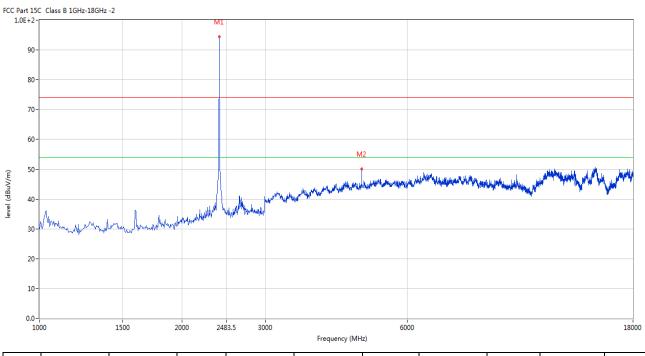
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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

Horizontal

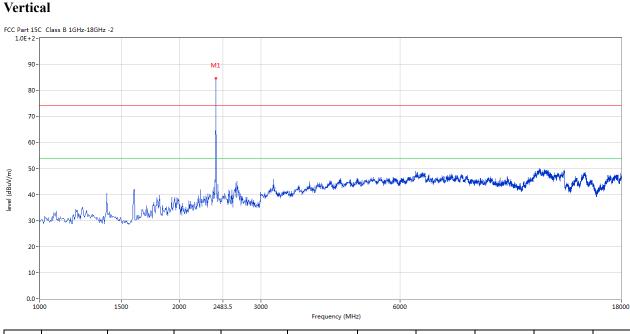


N	lo.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1		2402.500	94.51	-3.57	114.0	-19.49	Peak	155.00	100	Horizontal	Pass
1	*	2402.500	83.72	-3.57	94.0	-10.28	AV	155.00	100	Horizontal	Pass
2		4803.750	50.11	3.13	74.0	-23.89	Peak	138.00	100	Horizontal	Pass

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F	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

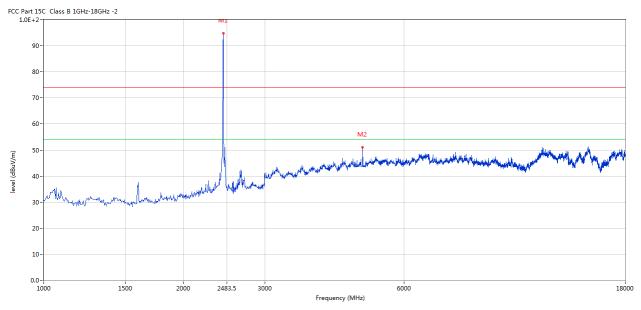
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Please refer to the following test plots for details: High Channel-2441MHz

Horizontal

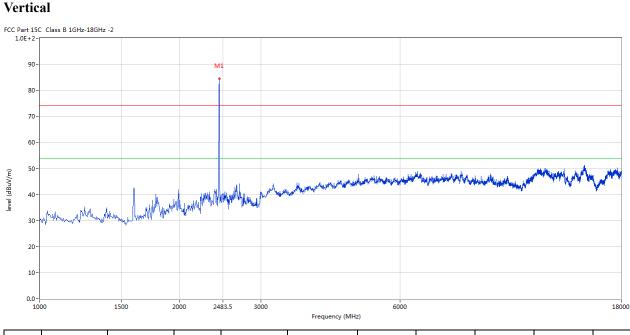


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	94.83	-3.57	114.0	-19.17	Peak	160.00	100	Horizontal	Pass
1*	2440.750	83.95	-3.57	94.0	-10.05	AV	160.00	100	Horizontal	Pass
2	4880.250	51.12	3.20	74.0	-22.88	Peak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

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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

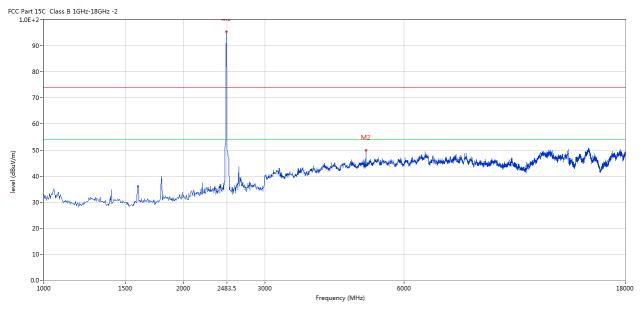
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

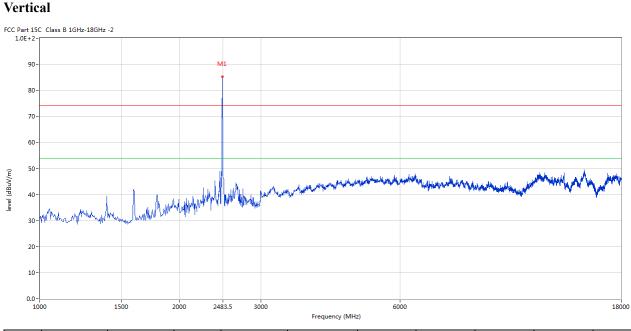


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.750	94.34	-3.57	114.0	-19.66	Peak	194.00	100	Horizontal	Pass
1*	2479.750	83.67	-3.57	94.0	-10.33	AV	194.00	100	Horizontal	Pass
2	4956.750	49.89	3.35	74.0	-24.11	Peak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

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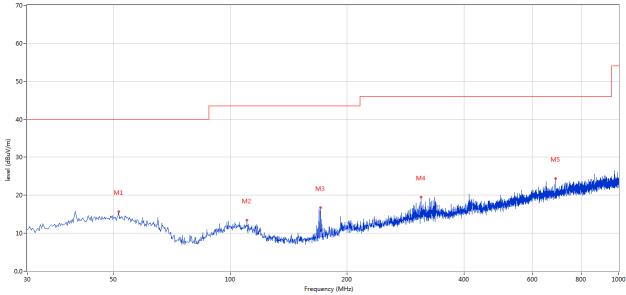
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15B Class B 30MHz-1GHz



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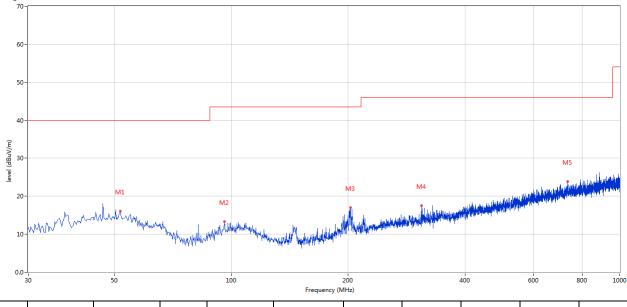
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15B Class B 30MHz-1GHz



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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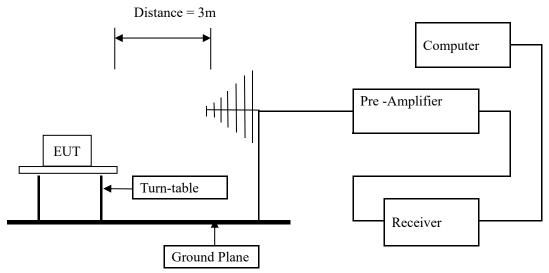


7. Band Edge

7.1 Test Method and test Procedure:

- 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.

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7.6 Test Result

Р	roduct:	BLUETC	DOTH S	TEREO HEAI	DPHONES	Pola	arity		Horizonta	al
	Mode		Keepin	g Transmitting	g	Test V	/oltage		DC3.7V	7
Ten	nperature		2	4 deg. C,		Hum	nidity		56% RH	Ι
Tes	st Result:			Pass		-	-			
C Part 15 1.0E+2-	Class B 1GHz-18GHz -2									
90· 80·										
70 ·										
60								و او	M2	λ
							M3		dille 1912	
50-	-								0	
				للملافقة والمراجع	he de tradition de la state de la section de	Anna particular	Later and the second		¶ ●	" Martinet
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40 · 30 · 20 · 10 ·		s filo i filo	ofte boget harmen allert	an frankriger og som fra	Frequency		h oli senni de la constitución de l			
40- 30- 20- 10- 0.0- 23		Results	Factor				Table (o)	Height	ANT	
40- 30- 20- 10- 0.0- 23	350			Limit	Frequency I	(MHz)			ANT	2
40. 30. 20. 10. 21.	Frequency	Results	Factor	Limit ((dBuV/m) (Frequency Over Limit	(MHz)		Height	ANT	2
40 · 30 · 20 · 10 ·	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit ((dBuV/m) (74.0 -	Frequency I Over Limit (dB)	(MHz) Detector	Table (o)	Height (cm)		Verdict

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	Product:		UETOOTH STER HEADPHONES	EO	Detect	or	v	Vertical	
	Mode	Ke	eeping Transmitti	ng	Test Vol	tage	Ι	DC3.7V	
Τ¢	nperature st Result: ic Class B 1GHz-18GHz -2	24 deg. C,		Humid	ity	5	6% RH		
Т	est Result:	nperature st Result:	Pass						
CC Part 1.0E+	mperature st Result: C Class B 1GHz-18GHz -2			•					
8 7)0							M1	
	C Class B 1GHz-18GHz -2	skandilania (j. / kinik i an ikalaan an anaa	hadaaliyoo hadhadaa hadhadaa ha	liden fra den den stillen d			•	Vand Balandar	
1 Ievel (aprn/m	50	iteologiatuovismoniski koiseologiatuo	neuvillesitely//kinkelesitelesitevitevite	Frequency (M	HIZ)			•	24
	10	Results	actor				Height	• •	
2	10- 20- 10- 2350 Frequency		actor Limit	Over Limit	IHz) Detector	Table (o)	Height	ANT	
2 2 1 0 No.	10 10 10 20 10 2350 Frequency (MHz)	(dBuV/m) (d	lB) (dBuV/m)	Over Limit (dB)	Detector		(cm)		Verdic
	10- 20- 10- 2350 Frequency	(dBuV/m) (dl 61.09 -3		Over Limit		Table (o) 220.00 220.00	-	ANT Vertical	24 Verdict Pass Pass

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	Product:	I		OOTH STEF DPHONES		Polari	ty		Horizontal		
	Mode		Keeping	g Transmitti	ng	Test Vol	tage	DC3.7V			
]	Temperature		24	4 deg. C,		Humid	ity	56% RH			
-	Test Result:	Pest Result: Pass t15C Class B 1GHz-18GHz -2 +2									
		Hz -2									
	90										
level (dBuV/m)	40		,		M2 • • • • • • • • • • • • • • • • • • •	a dha allan da sa	Bart Innis to part and set fing	ladi ki sungi sakang	n flas meðar seglega far far far far far far seglega far seglega far seglega far seglega far seglega far segleg	de la construit	
level (dBuV/m)	50- 40- 30- 20-		р ^у		M2 M2 Manufacture Manufacture Manufacture M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	al an	And the local product of the		nyllabaterikan nylepo (naseljaka) n	denteren identifier	
level (dBuV/m)	50		рУ 				And Incident of Andrew State	latti un es altrei contrato	nyllykainen marten en angler e	in the second	
level (dBuV/m)	50- 40- 30- 20-		# ^p		M2 Annu Annu Annu Annu Annu Annu Annu Annu		Ang lan in to prove the first		n filde in the second	2500	
	50- 40- 30- 20- 10- 2470		Factor	Limit	2483.5		Table (o)	Height	ANT		
	50- 40- 30- 20- 10- 2470		Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MH	z)				2500	
	50- 40- 30- 20- 10- 2470 Frequency	Results			2483.5 Frequency (MH: Over Limit	z)		Height		2500	

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Product:	H		OTH STEF DPHONES		Detect	or	,	Vertical	
Mode		Keeping	g Transmitti	ng	Test Vol	tage	DC3.7V		
Temperature		24	deg. C,		Humid	ity	5	56% RH	
Test Result:	HEADPHONES Mode Keeping Transmitt Cemperature 24 deg. C, Fest Result: Pass rt 15C Class B 1GHz-18GHz -2								
C Part 15C Class B 1GHz-18GH 1.0E+2-r	z -2								
70-									
50- 40- 30- 20-	holdin fizikiten hikarik	w				wolantahanda ana	Devoration of the balance of the	kandalalan namilikasin	hhad may ad had
50 40- 30- 20- 10- 2470	Results	Factor	Limit	2483.5 Frequency (MHz Over Limit	Detector	Table (o)	Height	ANT	2500 Verdict
50- 40- 30- 20- 10- 0.0- 2470	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	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.

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

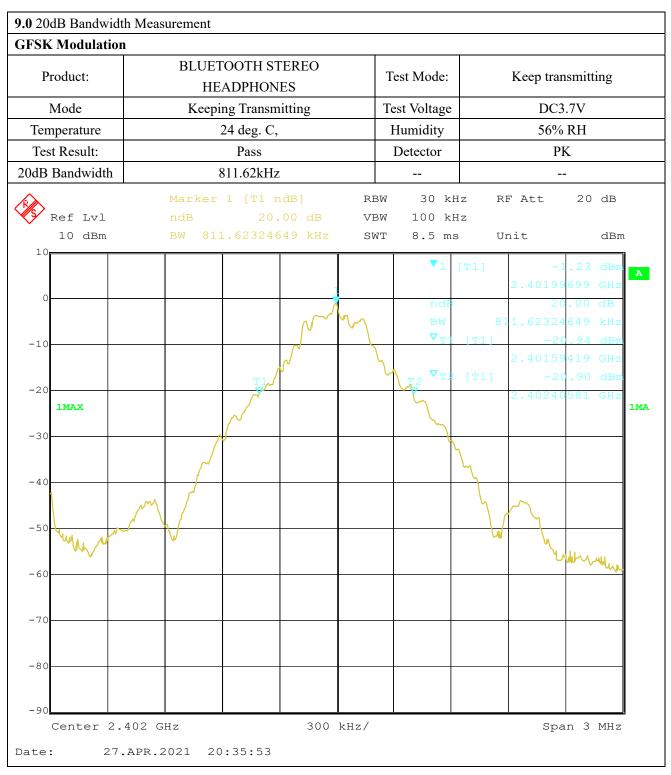
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply 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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Mode Temperature Test Result: DdB Bandwidth]	roduct: BLUETOOTH STE Mode Keeping					Test Mode:		Keep transmitting		
Test Result:		g Transmi	tting		Те	est Voltage		DC	C3.7V		
	-					I	Humidity		560	% RH	
)dB Bandwidth			Pass				Detector	РК			
		81	7.64kHz								
R	Ма	arker i	1 [T1 n	ndB]	R	BW	30 kH	z RI	F Att	20 dB	
🚺 Ref Lvl	nd			00 dB	V	BW	100 kH				
10 dBm 10	BW	1 817	.635270)54 kHz	S	WT	8.5 ms	Ur	nit	dBn	n
10							▼1 [T1]	-1	.68 dBm	A
0				1					2.44099	699 GHz	
0				~~^	M •		ndB BW		20 7.63527	0.00 dB 054 kHz	
-10				N N			∇_{T1}	[T1]	-21	.98 dBm	
-10				2		Z			2.44058	818 GHz	
			т1	J		4	T 2 ∧T 2	[T1]	-21	.04 dBm	
-20			<u></u>				The second se		2.44140	581 GHz	1MA
-30			\sim				L'				
-30							ľ,				
4.0		\mathcal{N}						4			
-40	• ^	1						<u> </u>	~		
-50		/							\sim		
- so han v								V	- In		
										bedramen	
-60											
7.0											
-70											
-80											
-90 Center 2	.441 GHz			300	kHz/				Spa	in 3 MHz	8

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Product:	BLUET	TOOTH S	ΓEREO Η	EADPHO	NES	Т	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Т	est Voltage		DC	C3.7V	
Temperature			4 deg. C,]	Humidity		56%	% RH	
Test Result:			Pass				Detector	РК			
0dB Bandwidth		81	17.64kHz								
		Marker	1 [T1 n	dB]	R	BW	30 ki	Hz Ri	F Att	20 dB	
Ref Lvl		ndB		00 dB	V	BW	100 kH				
10 dBm 10		BW 817	.635270	54 kHz	S	WΤ	8.5 ms	s Ui	nit	dBm	n
10							▼1	[T1]	-2	2.40 dBm	A
0				1					2.47999	699 GHz	
Ŭ.							ndB BW		20 7.63527	0.00 dB 054 kHz	
-10				~ کر	\sim		∇_{T1}	[T1]	-22	2.64 dBm	
-10				$\int \int d$		7			2.47958	818 GHz	
2.0			T 10	<i>)</i> ~		V	∇_{T2}	[T1]	-21	l.91 dBm	
-20			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				The second se		2.48040)581 GHz	1MA
-30			/				la l	2			
- 4 0	M							h	m		
-50	und .	\checkmark							- Lun	maren	
-60											
-70											
- 80	30										
-90				200	kHz/				0	an 3 MHz	ļ
Center 2	.40 GH2	<u>ک</u>		300	лп2/				she	III J MHZ	

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Product:	BLUET	TOOTH S	TEREO H	EADPHO	NES	Test Mode:		Keep transmitting		
Mode		Keepir	ıg Transmi	tting		Test Voltage	e	DC	C3.7V	
Temperature		2	4 deg. C,			Humidity		569	% RH	
Test Result:			Pass			Detector]	PK	
dB Bandwidth		1	.257MHz							
		Marker	1 [T1 r	ndB]	RBI	v 30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		.00 dB	VBV	v 100 k	Hz			
10 dBm		BW	1.256513	803 MHz	SW	r 8.5 m	ns Ui	nit	dBm	ı
10						v ₁	[T1]		l.23 dBm	A
				1				2.40199	699 GHz	
0						ndI		20	0.00 dB	
				/ /	$\backslash \land$		[[[]]]	1.25651	.303 MHz 1.14 dBm	
-10			\mathcal{M}	\mathcal{N}		-		2.40137	174 GHz	
			1				(T1)	-23	l.10 dBm	
-20		7	í				X	2.40262	2826 GHz	1
-30		ſ								1M2
-40	\sim	m					M	<u> </u>		
-50 Ming									my	
-60										
-70										
-80	80									
-90 Center 2					kHz/			Spa	an 3 MHz	ļ

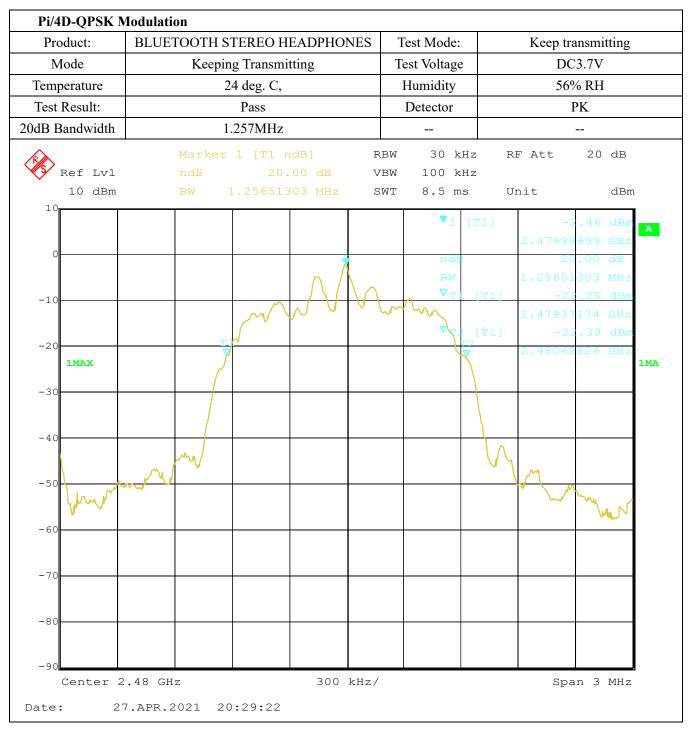
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Product:	BLUET	'OOTH S'	TEREO H	EADPHO	NES	Te	st Mode:		Keep tr	ansmitting	
Mode		Keepin	g Transmi	tting		Tes	st Voltage		DC	C3.7V	
Temperature		2	4 deg. C,			Н	umidity	56% RH			
Test Result:			Pass			Ľ	Detector		-	PK	
)dB Bandwidth		1	.257MHz								
		Marker	1 [T1 r	ndB]	R	BW	30 kH	z Ri	F Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 kH	Z			
10 dBm		BW 1	1.256513	03 MHz	S	ΠM	8.5 ms	Uı	nit	dBr	n
10							▼1 [T1]	-:	1.66 dBm	A
				1					2.44099	9699 GHz	
0							ndB		20	.00 dB	
				$ \wedge $	\land		bW ⊽ _{T1}	[11]	1.2565	L303 MHz 1.56 dBm	
-10			\sim	\mathcal{N}	<u> </u>	\sim	m		2.4403	1 <u>.36 ав</u> л 7174 GHz	
			ſ.				∇_{T^2}	[T1]	-23	1.54 dBm	h
-20								2.44162826 0			
-30											1M2
-40	. M	\sim						\mathcal{N}	1		
-50	μ. <u>Δ.</u> Ν									and and a second	
-60											
-70											
-80	80										
-90 Center 2	.441 GF	Iz		300	kHz/				Sna	an 3 MHz]

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Product:	BLUET	ГООТН S	TEREO H	EADPHO	NES	Test Mode:		Keep tra	ansmitting		
Mode		Keepii	ng Transmi	tting	,	Fest Voltage		DC	C3.7V		
Temperature			24 deg. C,			Humidity		569	% RH		
Test Result:			Pass			Detector		РК			
dB Bandwidth		1	.244MHz								
		Marker	1 [T1 r	ndB]	RBW	30 kI	Iz RI	F Att	20 dB		
Ref Lvl		ndB		.00 dB	VBW	100 kH	Iz				
10 dBm		BW	1.244488	398 MHz	SWT	8.5 ms	s Ui	nit	dBm	L	
10						▼1	[T1]	- 1	1.25 dBm	A	
				1				2.40199	699 GHz		
0						ndB		20	0.00 dB		
				$ \wedge $	$\left \right\rangle$	BW VT1	[T1]	1.24448	898 MHz 1.44 dBm		
-10						my 1	1 + + 1	2.40137	7174 GHz		
						▽ <u>1</u> <u>2</u>	2 ^[T1]	-23	1.26 dBm		
-20		<u> </u>				4		2.40261	623 GHz	1M2	
-30											
-40		~~~									
	A.	~~~					~ Y	M			
-50							(we way		
-60											
-70											
-80											
-90										ļ	
Center 2	.402 G	Hz		300	kHz/			Spa	an 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		Te	est Voltage		DC	C3.7V	
Temperature		2	4 deg. C,			I	Humidity	56% RH			
Test Result:			Pass				Detector]	PK	
dB Bandwidth		1	.257MHz								
		Marker	1 [T1 r	ıdB]	R	BW	30 kH	z Ri	F Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 kH				
10 dBm		BW	1.256513	03 MHz	S	WT	8.5 ms	Uı	nit	dBrr	l
10							v 1	[T1]		1.65 dBm	A
				1					2.44099	699 GHz	
0					ĺ.		ndB		20	0.00 dB	
					$\setminus \cap$		BW VT1	[T1]	1.25651 -2 ⁻	L303 MHz 1.66 dBm	
-10			m	\mathcal{N}		\sim	m		2.44037	7174 GHz	
			1				▽ ₅₂	[T1]	-23	l.62 dBm	
-20		گر					4		2.44162	2826 GHz	1M2
-30											
-40	<u> </u>	m							~		
-50	<u>un na na</u>									Myn	
-60											
-70											
-80											
-90	4.4.1 ~~~	· · -									ļ
Center 2	.441 GI	ΠZ		300	kHz/				Spa	an 3 MHz	

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Product:	BLUET	TOOTH S	TEREO H	EADPHO	NES	Т	est Mode:	Keep transmitting			
Mode		Keepir	ıg Transmi	tting		Te	est Voltage		DC	C3.7V	
Temperature			4 deg. C,]	Humidity	56% RH			
Test Result:			Pass			Detector]	PK	
)dB Bandwidth		1	.257MHz								
		Marker	1 [T1 r	ndB]	R	BW	30 kH:	z RI	F Att	20 dB	
Ref Lvl		ndB		.00 dB	V	'B₩	100 kH:	Ζ			
10 dBm		BW	1.256513	803 MHz	S	WT	8.5 ms	Ur	nit	dBn	n
10							▼1 [т1]	-2	.40 dBm	A
									2.47999	699 GHz	
0				7			ndB		20	.00 dB	
				$ \wedge $	$\backslash \land$		BW ▼ _{T1}	[TT]]	1.25651	.303 MHz .42 dBm	
-10			\sim	\mathcal{N}	\forall	\sim	m		2.47937	174 GHz	
				Ĩ			$\nabla_{\mathbb{T}^2}$	[T1]	-22	.38 dBm	
-20									2.48062	826 GHz	1
-30											1M2
-40	\wedge	m						\mathbb{N}	M		
-50	৵৵৾৾৾৾৾ঀ								- Jul	had	i i
-60											
-70											
-80											-
	80										
-90 Center 2					kHz/				Spa	in 3 MHz	J

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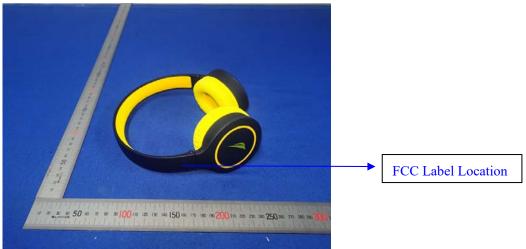
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10.0 FCC ID Label

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:



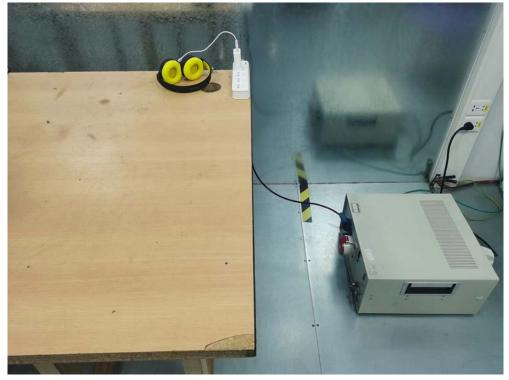
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11.0 Photo of testing

11.1 Conducted test View

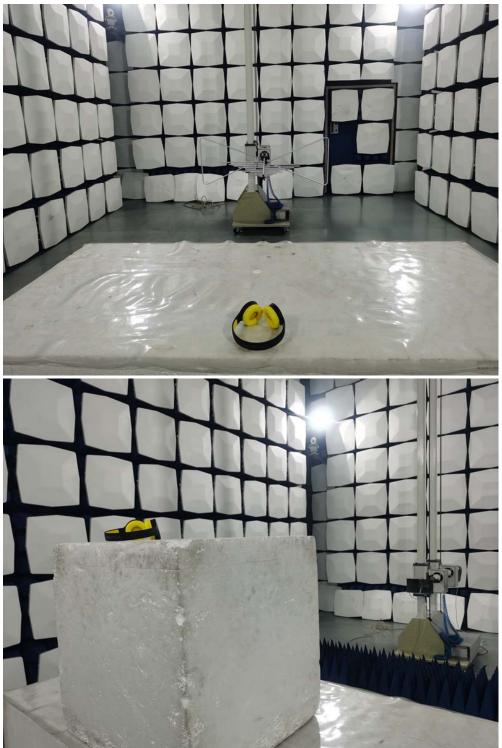


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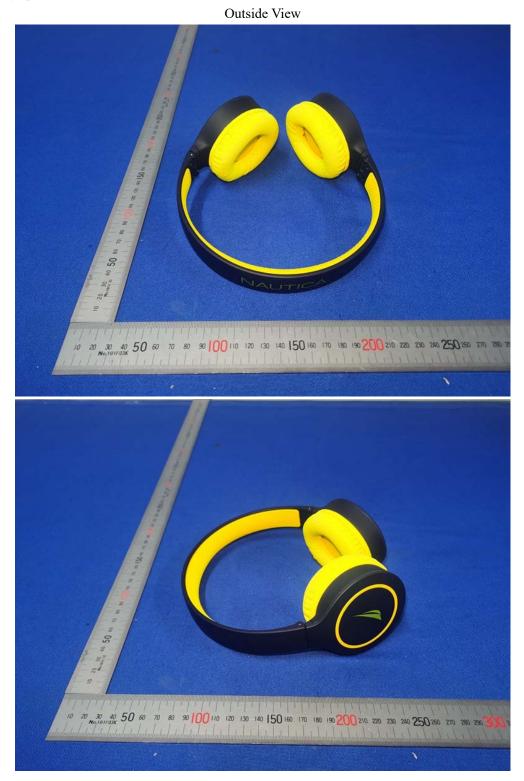
Radiated emission test view



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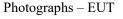
11.2 Photographs – EUT



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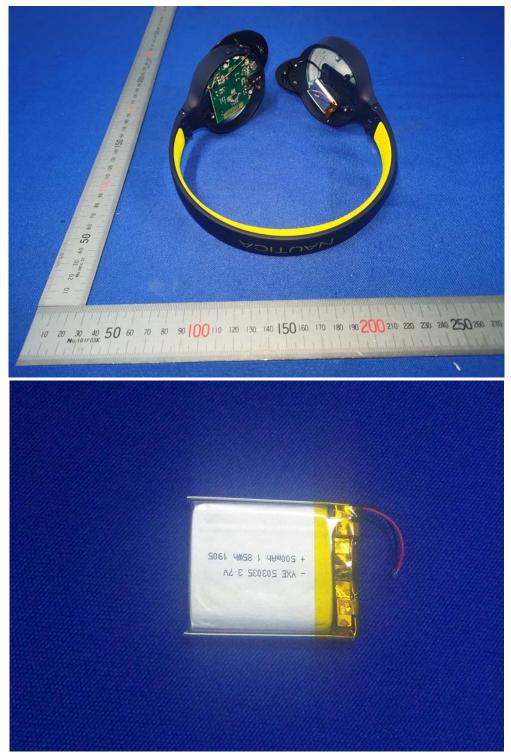




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Inside view

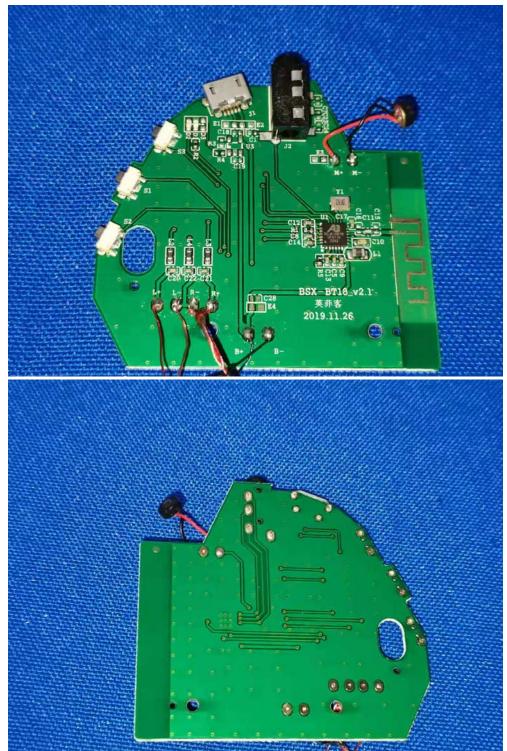


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Inside view



--End of the report--

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