

File reference No.: 2022-06-27

Applicant: TECHNOFASHION INC.

Product: NAUTICA PORTABLE WIRELESS SPEAKER

Model No.: NTSP02

Trademark: N/A

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry Tang

Manager

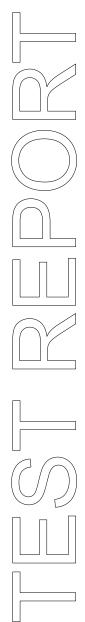
Dated: June 27, 2022

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

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

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



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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Date: 2022-06-27



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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: 127, Kingsland Ave, Clifton, NJ, USA, 07014

Telephone: +1 (973) 866 7373

Fax: --

1.3 Description of EUT

Product: NAUTICA PORTABLE WIRELESS SPEAKER

Manufacturer: TECHNOFASHION INC.

Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014

Trademark: N/A
Model Number: NTSP02
Additional Model Name N/A

Rating: DC3.7V, 1A

Battery: DC3.7V, 400mAh Li-ion battery
Modulation Type: GFSK, J/4DQPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz
Hardware Version: 2.0
Software Version: 1.0

Serial No.: NTSP02202206

Antenna Designation PCB antenna with gain -0.58dBi Max (Declared by the applicant)

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2022-06-14 to 2022-06-27

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

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment							
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date		
ESPI Test Receiver	R&S	ESPI 3	100379	2022-06-17	2023-06-16		
LISN	R&S	EZH3-Z5	100294	2022-06-17	2023-06-16		
LISN	R&S	EZH3-Z5	100253	2022-06-17	2023-06-16		
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-06-17	2023-06-16		
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17		
Spectrum	R&S	FSIQ26	100292	2022-06-17	2023-06-16		
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	2022-06-17	2023-06-16		
Power sensor	Anritsu	MA2491A	32263	2022-06-17	2023-06-16		
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	2022-06-17	2023-06-16		
EMI Test Receiver	RS	ESH3	860904/006	2022-06-17	2023-06-16		
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2022-06-17	2023-06-16		
Spectrum	HP/Agilent	E4407B	MY50441392	2022-06-17	2023-06-16		
Spectrum	RS	FSP	1164.4391.38	2022-01-05	2023-01-04		
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-06-17	2023-06-16		
RF Cable	Zhengdi	7m		2022-06-17	2023-06-16		
RF Switch	EM	EMSW18	060391	2022-06-17	2023-06-16		
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-06-17	2023-06-16		
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-06-17	2023-06-16		
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04		

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 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209 and RSS-210	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies

3.2 Test Standards

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

4.0 EUT Modification

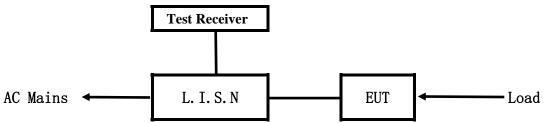
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

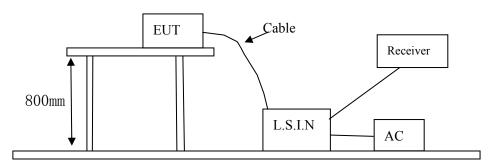


EUT: Equipment Under Test

5.2 Test Method and test Procedure

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

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



5.3 Configuration of The EUT

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

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID	
NAUTICA PORTABLE	TECHNIQEA CHION INC	NITCD02	2 4 7DO N00017	
WIRELESS SPEAKER	TECHNOFASHION INC.	NTSP02	2AZBO-N00017	

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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: DC5.0V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

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:

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

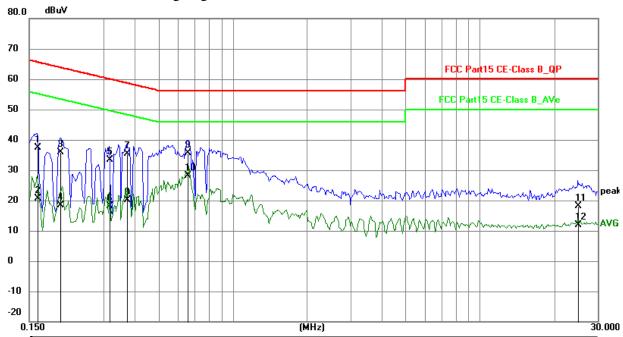
EUT Operating Environment

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

EUT set Condition: Charging + 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	0.1617	27.60	9.78	37.38	65.38	-28.00	QP	Р
2	0.1617	10.77	9.78	20.55	55.38	-34.83	AVG	Р
3	0.2007	26.08	9.75	35.83	63.58	-27.75	QP	Р
4	0.2007	8.54	9.75	18.29	53.58	-35.29	AVG	Р
5	0.3177	23.73	9.76	33.49	59.77	-26.28	QP	Р
6	0.3177	8.47	9.76	18.23	49.77	-31.54	AVG	А
7	0.3723	25.62	9.76	35.38	58.45	-23.07	QP	Р
8	0.3723	10.39	9.76	20.15	48.45	-28.30	AVG	Р
9	0.6570	25.88	9.78	35.66	56.00	-20.34	QP	Р
10	0.6570	18.28	9.78	28.06	46.00	-17.94	AVG	Р
11	24.9453	7.08	10.99	18.07	60.00	-41.93	QP	Р
12	24.9453	0.86	10.99	11.85	50.00	-38.15	AVG	Р

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

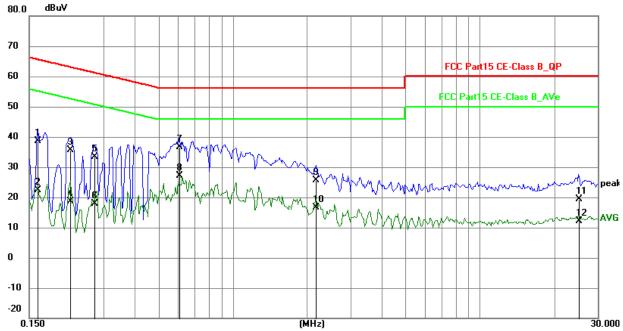
EUT Operating Environment

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

EUT set Condition: Charging + 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	0.1617	28.95	9.78	38.73	65.38	-26.65	QP	Р
2	0.1617	12.69	9.78	22.47	55.38	-32.91	AVG	Р
3	0.2202	25.86	9.75	35.61	62.81	-27.20	QP	Р
4	0.2202	8.77	9.75	18.52	52.81	-34.29	AVG	Р
5	0.2748	23.58	9.75	33.33	60.97	-27.64	QP	Ъ
6	0.2748	8.13	9.75	17.88	50.97	-33.09	AVG	J
7	0.6063	26.74	9.78	36.52	56.00	-19.48	QP	Р
8	0.6063	17.28	9.78	27.06	46.00	-18.94	AVG	Р
9	2.1780	15.72	9.81	25.53	56.00	-30.47	QP	П
10	2.1780	6.81	9.81	16.62	46.00	-29.38	AVG	J
11	25.0935	8.26	11.00	19.26	60.00	-40.74	QP	Р
12	25.0935	1.03	11.00	12.03	50.00	-37.97	AVG	Р

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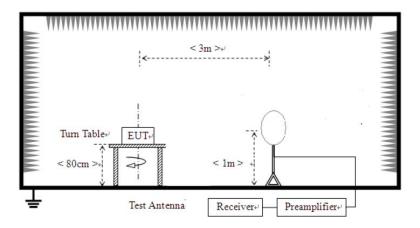


6 Radiated Emission Test

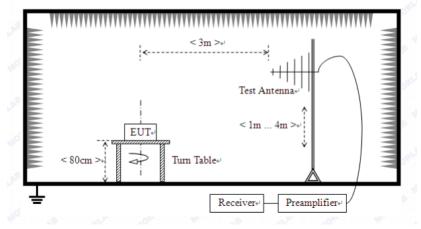
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



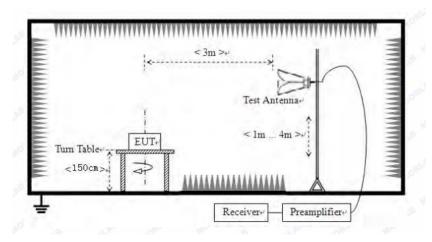
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For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m		uV/m	dBuV/m	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. 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. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 7. Battery fully charged was used during tests.
- 8. Two modulation types were tested and the worst case was reported and GFSK was the worst case

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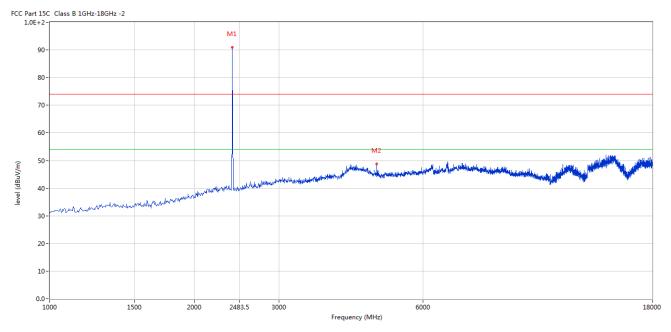


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



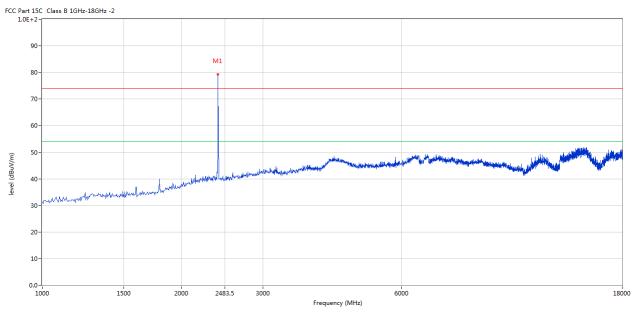
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	90.95	-3.57	114.0	-23.05	Peak	196.00	100	Horizontal	Pass
2	4802.799	48.74	3.12	74.0	-25.26	Peak	201.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	79.35	-3.57	114.0	-34.65	Peak	349.00	100	Vertical	Pass

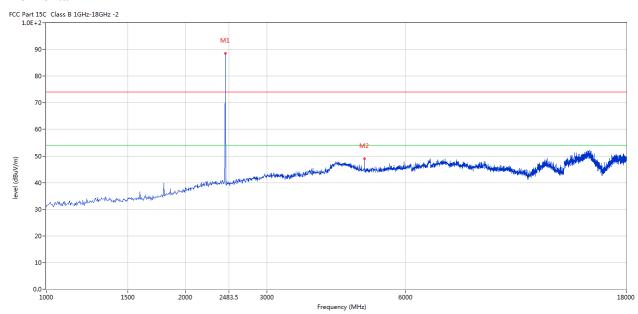
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



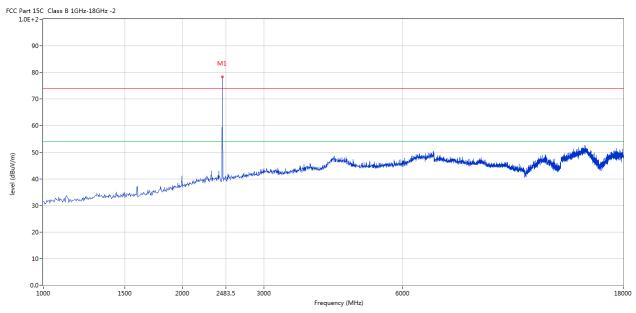
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	88.47	-3.57	114.0	-25.53	Peak	203.00	100	Horizontal	Pass
2	4883.529	48.90	3.20	74.0	-25.10	Peak	208.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	78.41	-3.57	114.0	-35.59	Peak	0.00	100	Vertical	Pass

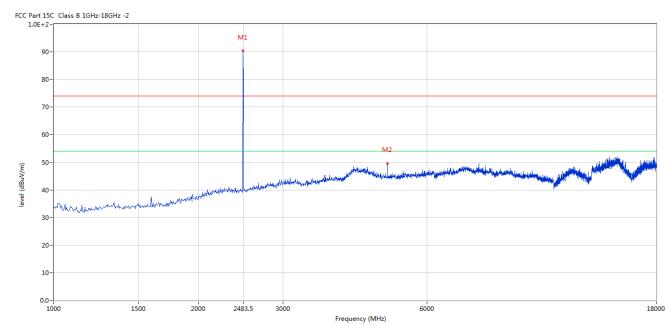
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	90.65	-3.57	114.0	-23.35	Peak	193.00	100	Horizontal	Pass
2	4960.010	49.62	3.36	74.0	-24.38	Peak	213.00	100	Horizontal	Pass

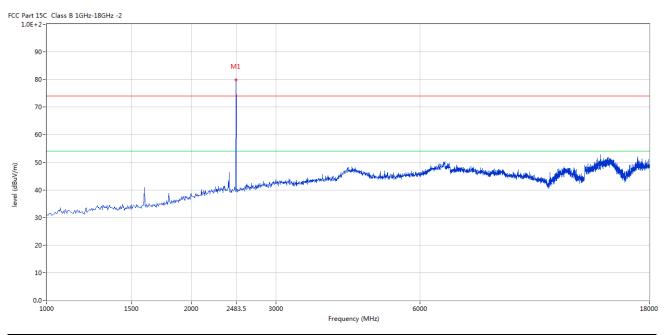
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	79.71	-3.57	114.0	-34.29	Peak	263.00	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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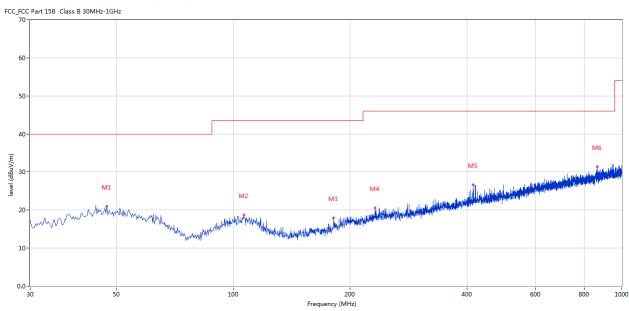


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	47.213	20.97	-11.41	40.0	-19.03	Peak	275.00	100	Horizontal	Pass
2	106.368	18.71	-13.34	43.5	-24.79	Peak	26.00	100	Horizontal	Pass
3	181.282	17.95	-15.11	43.5	-25.55	Peak	248.00	100	Horizontal	Pass
4	231.952	20.52	-12.56	46.0	-25.48	Peak	208.00	100	Horizontal	Pass
5	413.782	26.60	-8.27	46.0	-19.40	Peak	288.00	100	Horizontal	Pass
6	864.234	31.37	-2.34	46.0	-14.63	Peak	134.00	100	Horizontal	Pass

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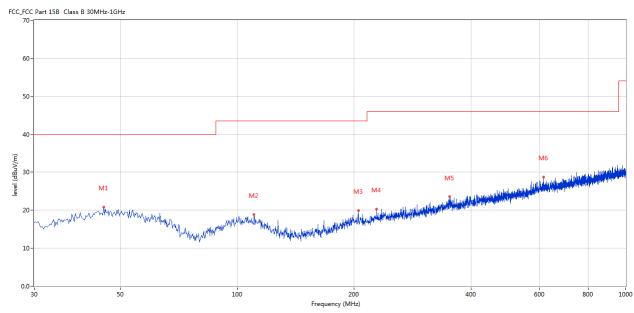


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	45.274	20.81	-11.40	40.0	-19.19	Peak	207.00	100	Vertical	Pass
2	110.490	18.80	-13.63	43.5	-24.70	Peak	193.00	100	Vertical	Pass
3	205.041	19.91	-13.59	43.5	-23.59	Peak	180.00	100	Vertical	Pass
4	228.315	20.34	-12.75	46.0	-25.66	Peak	231.00	100	Vertical	Pass
5	352.444	23.53	-9.46	46.0	-22.47	Peak	37.00	100	Vertical	Pass
6	614.521	28.75	-5.05	46.0	-17.25	Peak	305.00	100	Vertical	Pass

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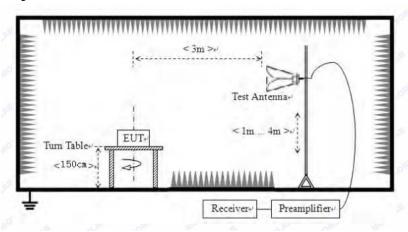


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

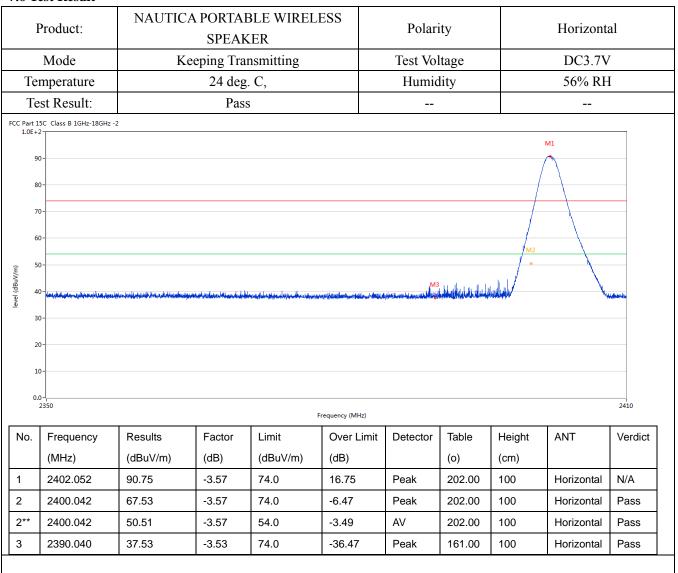
The report refers only to the sample tested and does not apply to the bulk.

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7.6 Test Result



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-	Product:	NAUTICA		BLE WIREL	ESS	Detecto	or		Vertical	
	104400		SPEAK	KER				·		
	Mode	Ke	eeping Tra	nsmitting		Test Volt	age	D	C3.7V	
Те	mperature		24 deg	. C,		Humidi	ty	50	6% RH	
Те	est Result:		Pass	S						
FCC Part : 1.0E+	15C Class B 1GHz-18GHz -2	2								
g	90-									
8	30-							N	/1 •	
,	70-									
	50 -									
									$\overline{}$	
(m//m)	50-					N	والمنافلة	M2		
evel (dBuV/m)			distribute de la constitución de	de la completa de la	the constitution of the	Anne de la companyation de la comp			*	t diameter
_	30-									
2	20-									
1	10-									
	.0-									
	2350			Fr	equency (MHz)					2410
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.112	79.67	-3.57	74.0	5.67	Peak	350.00	100	Vertical	N/A
2	2400.087	56.70	-3.57	74.0	-17.30	Peak	350.00	100	Vertical	Pass
2**	2400.087	41.27	-3.57	54.0	-12.73	AV	350.00	100	Vertical	Pass
3	2390.025	39.61	-3.53	74.0	-34.39	Peak	131.00	100	Vertical	Pass

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	Product:	NAUTIO	CA POR	TABLE WII	RELESS SPI	EAKER	Pola	arity	Ho	rizontal
	Mode		Kee	eping Transı	mitting		Test V	oltage/	D	C3.7V
Te	mperature			24 deg. C	·,		Hum	nidity	56	% RH
Т	est Result:			Pass			-	-		
CC Part : 1.0E+	15C Class B 1GHz-18GH	z -2								
c	90-			M1						
			/							
8	30-									
7	70-									
6	50-									
					_					
e s	50-		/							
(m//mgp)	10-	ann an de deutsteller de deutsteller de de	/		M2	esta made de la calacia de	der der State of Lands	ndhen sada bestanak .	contributes the short return the constr	وروان والمرابع المرابع والمرابع والمرابع
level (dBuV/m	10 - Hagelang, Andrewson Mariely, Mariely,	terre visit a the state of the	/		***	الخدأت يعيد مؤداتها شدية وأندوا	llinderstein kantridelin ei krogeren is	aditus ya ani ya filabilah wanaka a	naghidagiran dhiryahnagka kabikan haraba	anga da dagak kadhish pada daga
level (dBuV/m	10-	المتعادية والمتعادية و	<i>f</i>		***	المرامينية والانجاب بدائية	llindersterke, hundridde, spheegereen	halifera yaka alau alauka ka wasanika	المستوفة والمتاركة والمتار	ann ar de eile and an
level (dBuV/m	10 - Hagelang, Andrewson Mariely, Mariely,	deren er eine eine der eine d			***	daharah afireyanah direk	dis destroyle, hadridde, goberspreen	ndheya da	-glicking-Maydrady (Alba-Agrick)	agya dadayi kadisha abasi
m//wBb/ (dBuV/m	10-	ener en de des des des des de des de des de des de			***	daharan ahiyan dara	tis destrok hadisidik njek njeman	haliforesia du distributa de sela di	maghindaire dhi gabanda na bhanda na bh	agyana, allamika kur
level (dBuV/m	10 - herings, but most had a days.	deren verte aber aber die stelle der der der der der der der der der de			***	tikhiyash 4609-na disar	dis destrolos, hadriddo, que esquera e	nakhar ya arken kenakan	ng kalipin ding ding ding ding ding ding ding di	ann ann deileachta ann ann ann ann ann ann ann ann ann a
m//wBb) level (Bbu//m	00-				2483.5 Frequency (MI					2500
level (dBuV/m	00- 00- 00- 00- 00- 00- 00- 00- 00- 00-	Results	Factor	Limit	2483.5 Frequency (Mi		Table (o)	Height	ANT	
No.	Frequency (MHz)	Results (dBuV/m)	(dB)	(dBuV/m)	2483.5 Frequency (MH Over Limit (dB)	Hz) Detector	Table (o)	Height (cm)	ANT	2500 Verdict
W/\ngp) laval	Frequency (MHz) 2480.055	Results (dBuV/m) 90.47	(dB) -3.57	(dBuV/m) 74.0	2483.5 Frequency (MI Over Limit (dB) 16.47	Detector Peak	Table (o) 203.00	Height (cm)	ANT Horizontal	verdict N/A
No.	Frequency (MHz)	Results (dBuV/m)	(dB)	(dBuV/m)	2483.5 Frequency (MH Over Limit (dB)	Hz) Detector	Table (o)	Height (cm)	ANT	2500 Verdict

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	Product:	NAUTIC	'A PORTAI	BLE WIRI	ELESS SPEAK	ER	Detecto	r	Vertica	al
	Mode		Keepir	ng Transmi	itting		Test Volta	age	DC3.7	V
Te	mperature		2	24 deg. C,			Humidi	ty	56% R	Н
Т	est Result:			Pass						
CC Part 1	15C Class B 1GHz-18GHz -	-2								
g	90-		M1							
8	30-		<u></u>	\						
7	70-									
6	50 -		-/	4						
_				M2	!					
_	50-			M2		.1				
_		. Marie Mari		M2	A CONTRACTOR OF THE PROPERTY O	entiale de la constitue de la c	hanalarida da ka		ki llaydd o ben faab e siann bel	homestak
(m/\mu) level	50-	a de la participa de la partic		M2			ha, akishlerdika dika	y ale the shift and being the	hi, llagal lis haqqofashiri ya oo qolad	houdtuk
(m/\ngp (agn/\mu))	50-	and the control of th		M2		eritati de descrittolica	المراجع والمتعادم والمتعاد	y de de la participa de la par	hi dhayil in dagayladh dhi sharay in dad	houdish
(m/\mu (dBu/\mu dBu/\mu dBu/	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	n de la partir del		M2		nggi dati dha maddhalland	his, shaille sign think he	n de de partir de de de la constante de la cons	h llaglishe, deb é a maj fa	houdish
(m//ngp) 44	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	antaka esta de de la capacida de la		M2			ha, skriddereige belich	a de la	hi llagil le biqqi tek sirinin ish	Lowed tak
(m/Vab) avel (dBuV/m)	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	andre de proposition de la constitución de la const		M2	Market Land Secretary and the Mark State State Secretary	and the special section is	has, abasilda ediliza (hASI).	g de Maria (Alexandra)	ta ilay ila da pada a sa a a da a	2500
(m//ngp) 44	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results	Factor		3.5	Detector	Table	Height	ANT	2500 Verdic
(w/\ngg) 44	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		Factor (dB)	1 248	3.5 Frequency (MHz) Over Limit				and the second second	ı
(m//ngn/qp) 44 3 2 2 1 1 0 0	10-10-10-10-10-10-10-10-10-10-10-10-10-1	Results		248	3.5 Frequency (MHz) Over Limit		Table	Height	and the second second	ı

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

2. Two modulation types were tested and only the worst case was recorded in the test report and GFSK modulation was the worst case.

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8.0 Antenna Requirement

Applicable Standard

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

This product has a PCB antenna. The antenna gain is -0.58dBi Max. It fulfills the requirement of this section. Test Result: Pass

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9.0 20dB Bandwidt	h Measuremer	nt									
GFSK							1				
Product:	NAUTICA	A PORTABLE SPEAKER		SS	Tes	st Mode:	Keep transmitting				
Mode	Ke	eping Transn	nitting		Tes	t Voltage		DC3	.7V		
Temperature		24 deg. C,	ı		Нι	umidity		56%	RH		
Test Result:		Pass			D	etector		Pl	X .		
20dB Bandwidth		895.79kHz	Z						-		
Ref Lvl		a 1 [T1] 0. 895.791583	.16 dB 317 kHz	VI	BW BW VT	30 kl 100 kl 8.5 ms	Hz	F Att	20 dB	ı	
0				2		V ₁	[T1]	-25 2.40154	.16 dB	A	
-10				W	\	∇_2		95.79158 -6 2.40202	317 KHZ 1.43 dBm 104 GHZ		
-20 1MAX -D1 -26.4	3 dBm	1								1MA	
-40							\ <u>\</u>				
-50	~~~						\ _w	M	~~.		
-70											
-80											
-90 Center 2.	402 GHz		300	kHz/				Spa	ın 3 MHz		
Date: 27.	JUN.2022	14:40:44									

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FSK	NAU	TICA PO	RTABLE	WIRELES	SS					**				
Product: SPEAKER Mode Keeping Transmitting						T	est Mode:	Keep transmitting						
						Те	est Voltage	DC3.7V						
Temperature		24	4 deg. C,]	Humidity	56% RH						
Test Result:			Pass				Detector	Detector PK			PK	K		
20dB Bandwidth		89	95.79kHz											
Ref Lvl		Delta 1		02 dB		SW SW	30 k 100 k		RF	Att	20	dВ		
10 dBm		895	5.791583	317 kHz	SV	νT	8.5 m	s	Un	it		dBm	ı	
10							v ₁	[T1]		-25	.55	dBm	A	
									2	2.44054	800	GHz		
0				000	2		▲ 1	[T1]	895	0 5.79158	.02	dB kHz		
-10				//	M.		∇ ₂	[T1]		-6		dBm		
-20			~	$\sqrt{}$		M			_	2.44101	503	GHz		
1MAX —D1 -26.	22 dBm		1										1M	
-30							1							
-40		/					l	<u> </u>						
-50	٨	\sim						7						
-50	~~~~~							h	~	7	··· -			
-60											V	ww.		
-70														
-80														
-90	4.4-	-			1					_			ļ	
Center 2	.441 GI	Hz		300	kHz/					Spa	n 3	MHz		

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Froduct:	NAU	TICA PO	RTABLE	WIRELES	SS	Test Mode:			Vaan transmittina				
Troduct.	SPEAKER Mode Keeping Transmitting					Test Mode.			Keep transmitting				
Mode						Т	est Voltage	;	DC3.7V				
Temperature		24	4 deg. C,]	Humidity		56% RH				
Test Result:			Pass				Detector]	PK			
OdB Bandwidth		89	5.79kHz										
Ref Lvl		Delta 1		07 dB		BW BW	30 k 100 k		RF Att	20 dB			
10 dBm		895	.791583	817 kHz	S	WT	8.5 m	s	Unit	dBr	n		
10							v ₁	[T1]	-25 2.47954	.41 dBm	A		
0				0 -	2 X		<u></u> 1	[T1]	-(895.79158	.07 dB 317 kHz	2		
-10						\	∇_2	[T1]	2.48002	.03 dBn	<u>n</u>		
-20			1 /	V		Λ	1				1M2		
—D1 −26.	03 dBm						γ,				1		
- 30			√				V	1					
-40		\(\sigma \)						4					
-50	~~\ \	V						\ <u>\</u>	and and				
-60										- Marie Mari	/		
-70													
-80													
-90										-			
Center 2 Date: 2	.48 GH2 7.JUN.2		:34:58	300	kHz/				Spa	ın 3 MHz	ĭ		

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T/4DQPSK Product:	NAUTICA PORTABLE WIRELESS SPEAKER						est Mode:	Keep transmitting				
Mode Keeping Transmitting						Te	est Voltage	DC3.7V				
Temperature		24	deg. C,			I	Humidity		56%	RH		
Test Result:]	Pass				Detector		PK			
20dB Bandwidth		1.20	02MHz									
Ref Lvl 10 dBm	Ma: ndl BW		20.	dB] 00 dB 81 MHz	VI	BW BW VT	30 ki 100 ki 8.5 m	Hz	? Att	20 dB	n	
10							v ₁	[T1]	-6 2.40202	.35 dBm		
0				Λ	1		ndB BW ∇ _T	[T1]	20 1.20240	.00 dB 481 MHz		
-10			~~^		~ √	<u>~</u>	V _T		20			
-20 1MAX		T					Ţ	2	2.40257	415 GHz	11	
-30												
-50	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							\mathcal{M}	W 77	/~~ <u>~</u>	\	
-60												
-70												
-80												
-90												
Center 2.	402 GHz JUN.2022	2 14:4	8:23	300	kHz/				Spa	n 3 MHz	≟ ‼	

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Л/4DQPSK										
Product:	NAUTIC	CA PORTABLE SPEAKER	WIRELES	S	Test Mode:		Keep transmitting			
Mode	K	Leeping Transmi		Test Voltage	e	DC3.7V				
Temperature	24 deg. C,				Humidity		56% RH			
Test Result:	Pass				Detector]	PK		
20dB Bandwidth		1.202MHz								
Ref Lvl 10 dBm	Mar ndE BW	rker 1 [T1 n 3 20. 1.202404	00 dB	RBW VBW SWT	30 k 100 k 8.5 m	Hz	F Att	20 dB dBm		
10 -10 -20 1MAX -30 -40 -50 -60 -70 -80					ndi BW VT		2.44102 20 1.20240 -26 2.44037 -26 2.44157	.30 dBm 174 GHz .26 dBm 415 GHz	1MA	
-90 Center 2 Date: 27		14:45:55	300 }	cHz/			Spa	ın 3 MHz		

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1/4DQPSK			T						
Product:		RTABLE WIRI PEAKER	ELESS	Test Mode	:	Keep transmitting			
Mode	Keepir		Test Voltag	e	DC3.7V				
Temperature	2	4 deg. C,		Humidity		56% RH PK			
Test Result:		Pass		Detector					
20dB Bandwidth	1	.202MHz							
Ref Lvl	ndB	1 [T1 ndB]	dB VI	BW 30 }	CHZ	F Att	20 dB		
10 dBm	BW	1.20240481 1	MHZ SI	WT 8.5 r	ns U	nit	dBm	ı	
0				V 1	[T1]	-6 2.48001	.04 dBm 503 GHz	A	
-10				${}^{ m nd}$	B 1 [T1]	20 1.20240 -26	.00 dB 481 MHz .08 dBm		
		m		~~~~ _▼ T	2 [T1]	2.47937			
-20 1MAX	Ţ	J		Ŧ	2	2.48057	415 GHz	1M	
-30									
-40					\bigvee	\.\.\.	~~ <u>`</u>		
-50									
-60									
-70									
-80									
-90 Center 2	.48 GHz		300 kHz/			Spa	n 3 MHz		
		:17:25	/			220			

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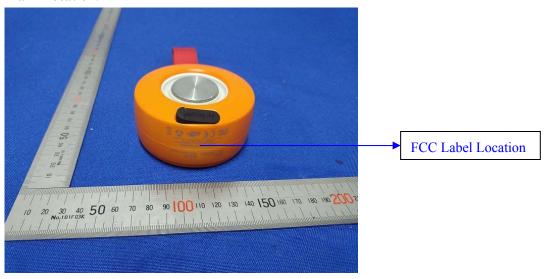


10.0 FCC ID Label

FCC ID: 2AZBO-N00017

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

Mark Location:



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11.0 Photo of testing 11.1 Conducted test View



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Radiated emission test view



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

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11.2 Photographs – EUT

Outside View



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discussion of correspondence with any third party concerning the contents of the report.

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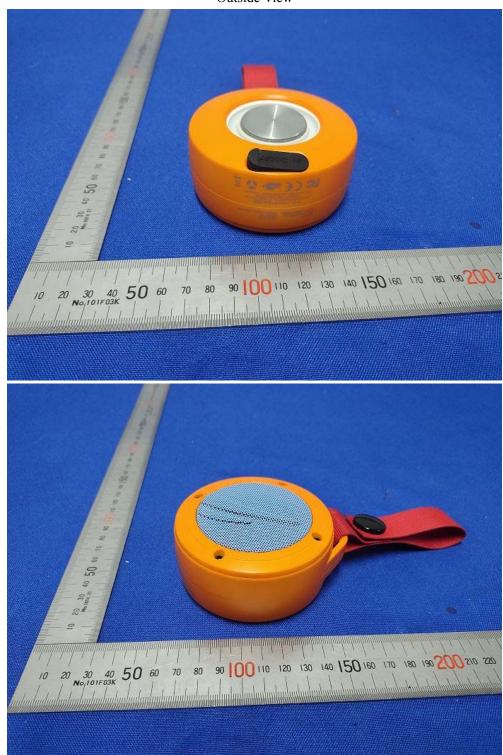
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Outside View



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

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Date: 2022-06-27



Outside View





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Report No.: TW2206160E

Date: 2022-06-27



Inside View



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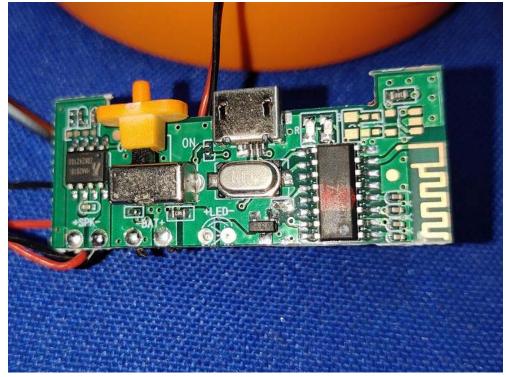
Report No.: TW2206160E

Date: 2022-06-27



Inside View





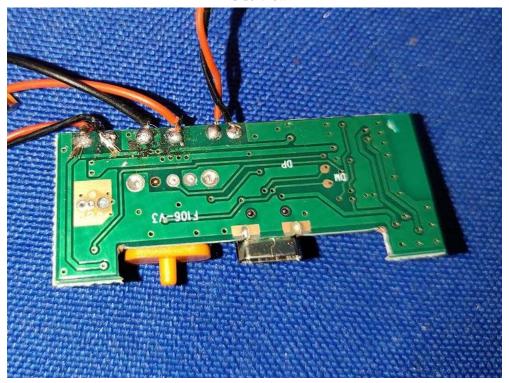
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Inside View



-- End of the report--