

File reference No.: 2022-06-16

Applicant: TECHNOFASHION INC

Product: NAUTICA PORTABLE WIRELESS SPEAKER

Model No.: NTSP05

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 16, 2022

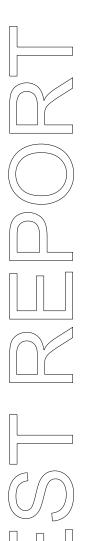
Results appearing herein relate only to the sample tested

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 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: 2022-06-16



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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: NTSP05
Additional Model Name N/A

Rating: DC5V, 1A Battery: DC3.7V, 1800mAh Li-ion battery

Modulation Type: GFSK and Л/4DQPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79 Channel Separation: 1MHz

Hardware Version: AC692x\_SDK\_release\_V2.6.3 -6926A

Software Version: NYL-26A-L4-V3.0

Antenna Designation PCB antenna with gain 0.944dBi Max (Get from the antenna specification)

#### 1.4 Submitted Sample: 1 Sample

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#### 1.5 Test Duration

2022-06-09 to 2022-06-16

#### 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	eceiver R&S ESPI 3		100379	2021-06-18	2022-06-17			
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17			
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17			
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17			
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17			
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17			
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01			
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01			
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17			
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17			
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01			
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01			
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17			
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17			
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17			
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17			
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14			
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17			
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17			
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17			
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17			
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17			
LISN	SCHAFFNER	NNB42	00012	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

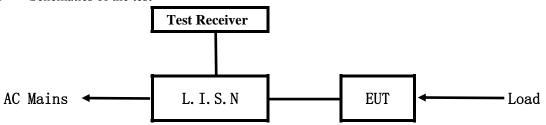
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

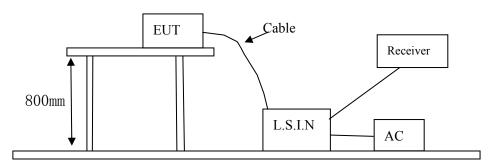


**EUT: Equipment Under Test** 

#### 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	TECHNOEA CHION INC	NITCDO5	2 4 7 DO N00010	
WIRELESS SPEAKER	TECHNOFASHION INC	NTSP05	2AZBO-N00019	

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#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

#### C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

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

5.5 Power line conducted Emission Limit according to Paragraph 15.207

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)

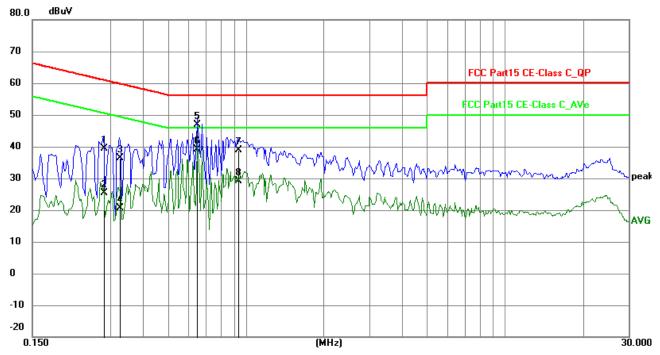
**EUT Operating Environment** 

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

**EUT set Condition: Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBu∀)	Margin (dB)	Detector	P/F
1	0.2826	29.61	9.76	39.37	60.74	-21.37	QP	Р
2	0.2826	15.64	9.76	25.40	50.74	-25.34	AVG	Р
3	0.3255	26.51	9.76	36.27	59.57	-23.30	QP	Р
4	0.3255	10.87	9.76	20.63	49.57	-28.94	AVG	Р
5	0.6491	37.17	9.78	46.95	56.00	-9.05	QP	Р
6	0.6491	29.33	9.78	39.11	46.00	-6.89	AVG	Р
7	0.9338	29.03	9.79	38.82	56.00	-17.18	QP	Р
8	0.9338	19.41	9.79	29.20	46.00	-16.80	AVG	Р

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

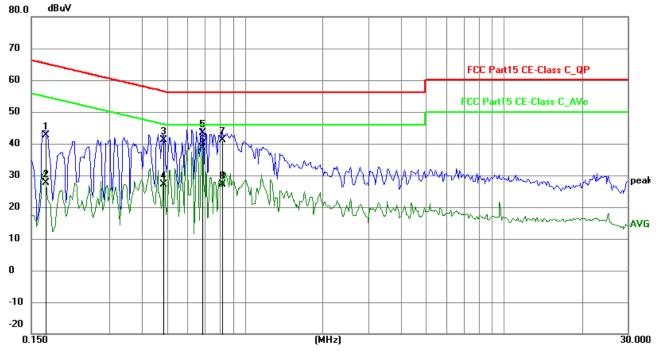
**EUT Operating Environment** 

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

**EUT set Condition: Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBu∀)	Margin (dB)	Detector	P/F
1	0.1695	32.89	9.77	42.66	64.98	-22.32	QP	Р
2	0.1695	17.98	9.77	27.75	54.98	-27.23	AVG	Р
3	0.4854	31.34	9.77	41.11	56.25	-15.14	QP	P
4	0.4854	17.29	9.77	27.06	46.25	-19.19	AVG	P
5	0.6843	33.72	9.78	43.50	56.00	-12.50	QP	P
6	0.6843	28.87	9.78	38.65	46.00	-7.35	AVG	Р
7	0.8208	31.28	9.78	41.06	56.00	-14.94	QP	Р
8	0.8208	17.27	9.78	27.05	46.00	-18.95	AVG	Р

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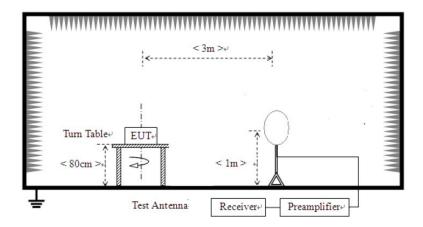


#### **6** Radiated Emission Test

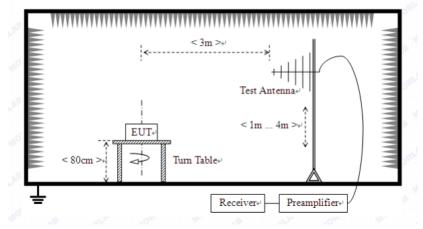
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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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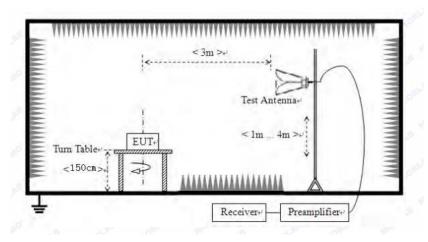
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For radiated emissions above 1GHz



- 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

Ī	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 $\mu$ 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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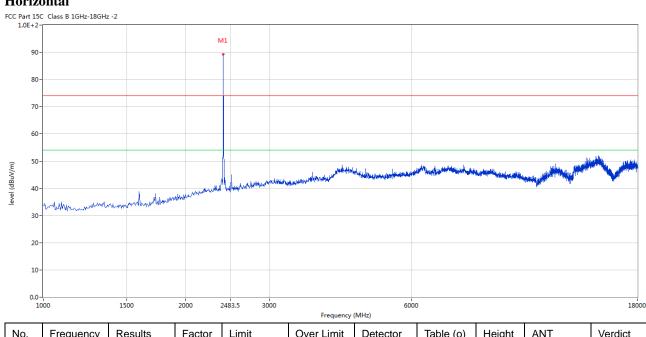


#### 6.5 Test result

#### **Fundamental & Harmonics Radiated Emission Data** A

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

#### Horizontal



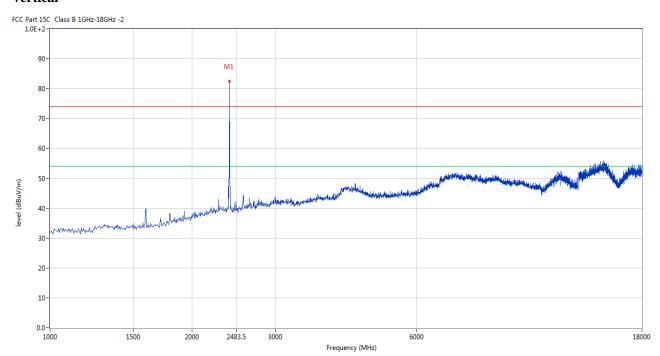
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	89.83	-3.57	114.0	-24.17	Peak	210.00	100	Horizontal	Pass

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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	82.83	-3.57	114.0	-31.17	Peak	145.00	100	Vertical	Pass

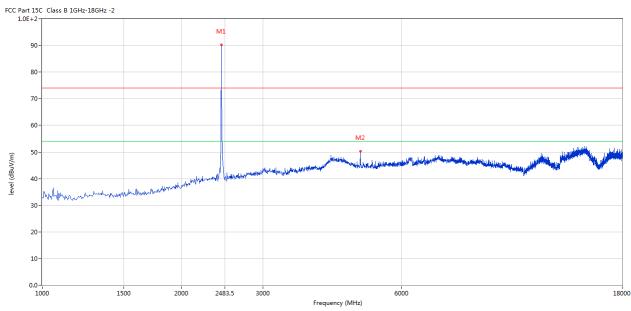
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



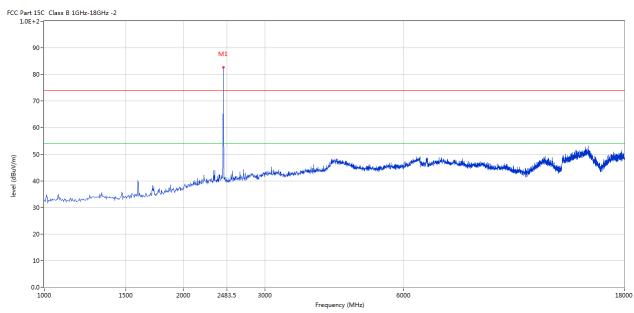
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2441	90.25	-3.57	114.0	-23.75	Peak	237.00	100	Horizontal	Pass
2	4881.280	50.37	3.20	74.0	-23.63	Peak	138.00	100	Horizontal	Pass

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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	2441	82.63	-3.57	114.0	-31.37	Peak	155.00	100	Vertical	Pass

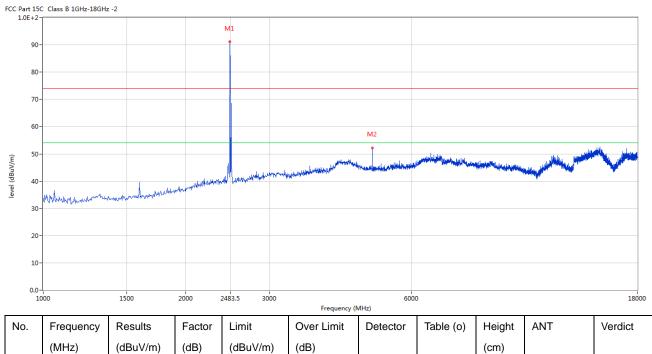
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### Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



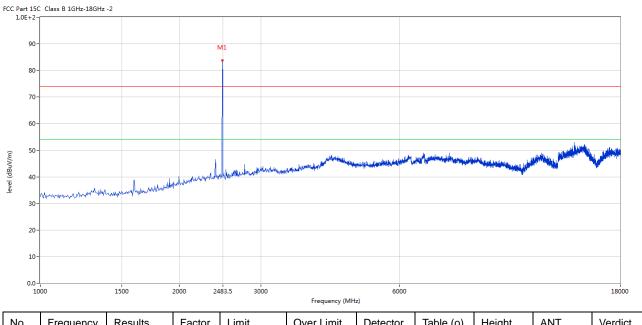
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480	90.86	-3.57	114.0	-23.14	Peak	228.00	100	Horizontal	Pass
2	4960.010	52.22	3.36	74.0	-21.78	Peak	221.00	100	Horizontal	Pass

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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	2480	83.15	-3.57	114.0	-30.85	Peak	150.00	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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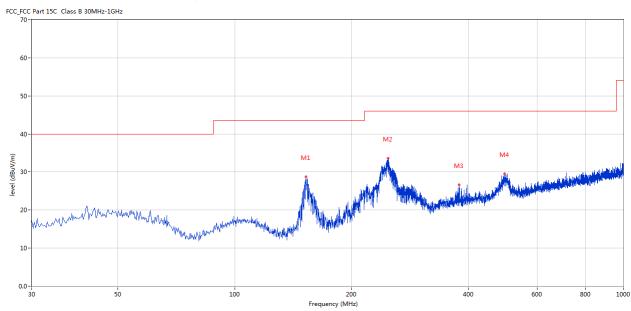


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	152.674	28.72	-16.88	43.5	-14.78	Peak	264.00	100	Horizontal	Pass
2	248.195	33.62	-12.17	46.0	-12.38	Peak	76.00	100	Horizontal	Pass
3	377.658	26.61	-9.36	46.0	-19.39	Peak	99.00	100	Horizontal	Pass
4	495.484	29.51	-7.13	46.0	-16.49	Peak	65.00	100	Horizontal	Pass

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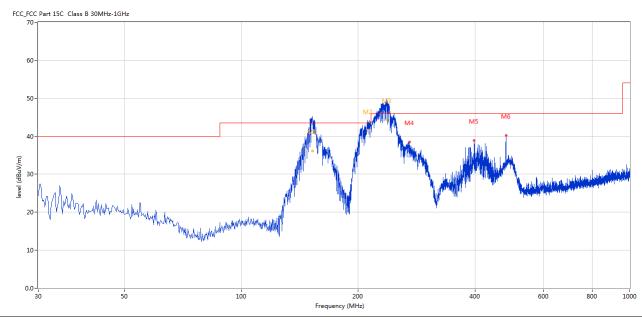


#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequen	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	cy (MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
		)		)	(dB)					
1	152.463	38.96	-16.88	43.5	-4.54	Peak	46.00	199	Vertical	Pass
1*	152.463	36.11	-16.88	43.5	-7.39	QP	46.00	199	Vertical	Pass
2	211.718	43.74	-13.68	43.5	0.24	Peak	331.00	100	Vertical	N/A
2*	211.718	41.34	-13.68	43.5	-2.16	QP	331.00	100	Vertical	Pass
3	237.498	46.31	-12.39	46.0	0.31	Peak	146.00	200	Vertical	N/A
3*	237.498	44.32	-12.39	46.0	-1.68	QP	146.00	200	Vertical	Pass
4	270.985	38.45	-11.73	46.0	-7.55	Peak	315.00	100	Vertical	Pass
5	397.781	38.94	-8.69	46.0	-7.06	Peak	352.00	100	Vertical	Pass
6	479.968	40.27	-7.40	46.0	-5.73	Peak	4.00	100	Vertical	Pass

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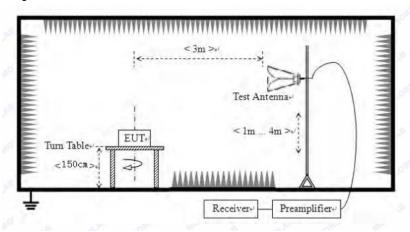


#### 7. Band Edge

#### 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.

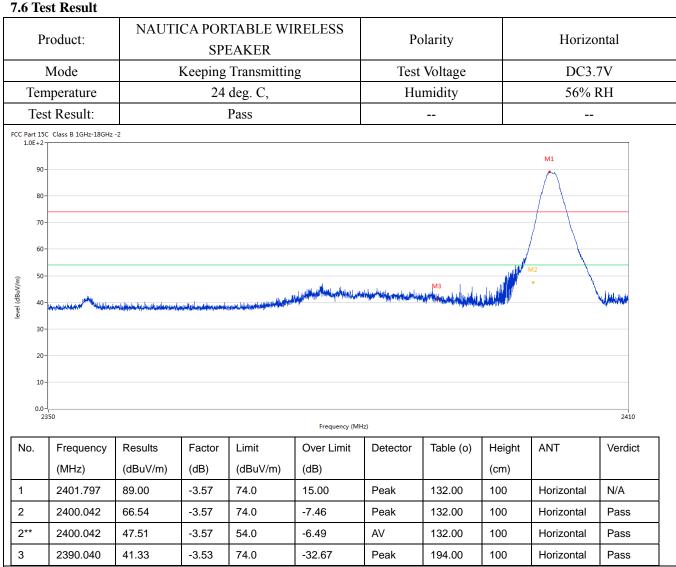
#### 7.5 Band Edge Limit

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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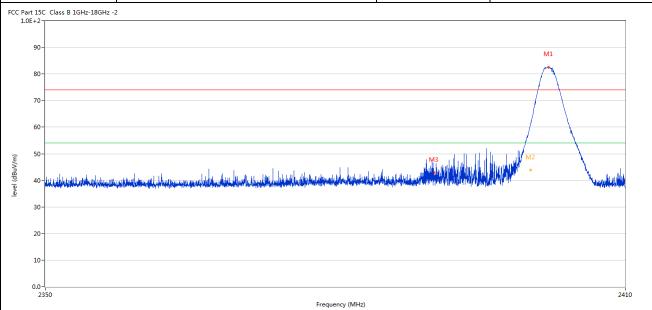




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Product:	NAUTICA PORTABLE WIRELESS SPEAKER	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
	1	2401.992	82.48	-3.57	74.0	8.48	Peak	146.00	100	Vertical	N/A
	2	2400.087	61.16	-3.57	74.0	-12.84	Peak	146.00	100	Vertical	Pass
	2**	2400.087	43.96	-3.57	54.0	-10.04	AV	146.00	100	Vertical	Pass
	3	2390.055	42.95	-3.53	74.0	-31.05	Peak	92.00	100	Vertical	Pass
T				8	8	8	8		8	8	

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P	Product:	NAUTIO	CA POR?	TABLE WIF	RELESS SPE	AKER	Polar	ity	Horiz	ontal
	Mode		Kee	eping Transr	mitting		Test Vo	ltage	DC3	5.7V
Ter	mperature			24 deg. C	· ·		Humi	dity	56%	RH
Tes	st Result:			Pass						-
C Part 15 1.0E+2	5C Class B 1GHz-18GHz 2-	-2								
90	)-			M1						
			1	$\langle \cdot \rangle$						
80	,-			$\overline{}$						
70	)-									
60	p-		· AMPLEANTA							
		Li	<i>P</i>		No.					
50	0-	معلى الله الله الله الله الله الله الله ال	<u>r</u>		M <sub>2</sub>					
50	والرار والمراور ليهميا فأطعا	SANTAL PROPERTY OF THE PROPERT	<u>r                                     </u>		M2			A Color of the state of the sta	and and week the state of the state of	
40					M2		happer of pales, they dill now, and a light		aallactuudoologista lästistussestal	
40 30					M2			A Part of the Part	aght actuary to the property of the second	k film as a single for the control of the control o
40					M2		happen egib er diriyldi di dibiliyer	had the state of t	aghtain ag shipinh din gireach a	t the standard to
40 30					M2		happen epak, whey die an debalier	A share of the state of the sta	aghtering shipful beginness high	
40 30 20 10					2483.5		han a ga a canada na pilaba ya	hype a startly deposit principles	agilianing abirah dan garang	A List and Desire the List of the Control of the Co
40 30 20 10 0.0	2470			1::	2483.5 Frequency (Mi					1
40 30 20 10 0.0	Frequency	Results	Factor	Limit	2483.5 Frequency (MI	Hz)	Table (o)	Height	ANT	1
30 30 10 0.0 2 No.	Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	2483.5 Frequency (MI Over Limit (dB)	Detector		(cm)		Verdic
400 300 200 100	Frequency				2483.5 Frequency (MI		Table (o) 137.00 137.00		ANT  Horizontal  Horizontal	Verdic N/A

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]	Product:	NAUT	ICA POI	RTABLE W	IRELESS SI	PEAKER	Det	ector	Ver	tical
	Mode		K	eeping Tran	smitting		Test V	/oltage	DC:	3.7V
Те	mperature			24 deg.	C,		Hun	nidity	56%	6 RH
Те	est Result:			Pass						-
C Part 1	15C Class B 1GHz-18GHz	-2								
0	90-									
9	,,,,			M1						
8	30-									
7	70-									
6	00-		/							
	50-		patient of the same of the sam		M2					
	50-	سنته المراز المر	Marie Ma		M	lh			To the fire a control of	II III.
5	50 - 10 -	okapita di kalika ka k	Marie Carlotte		M2	Anadal Makibi Ananasya	udilly being with paper of the	alger friend polytogen fil som gas has bles	ada barah dalam karah da kalan da	the A. Militari oraș
5	50-	- Landing Market	and the second s		M2	John adal his the high stream is now	A A A A A A A A A A A A A A A A A A A	المراجع والمعوون المعرب المالاد	of head community with the	the property
5	50 - 10 -	Marie Ma			Marriagh	January State Stat	ndijiji inderacija odnogo opodes	المراج والمفاوية الأماميية بالماقفة	af haddisharin i sabbiich	all the state of t
5 4 3	10-	olington of the little of the			Alexandrial Control of the Control o	Libraria bi bata bida de encasa per	alkijk keeks as in polasi voorokil	harter standard somewhat h		Mark & addition of the
. 5		America de la				John and Lines and a second se	e felijih kerket az de, rekezi v kerekel	i jeripin stierenin magailekti	af haddening a sha da karif	
5 4 3 2	10- 41/4-14-14-14-14-14-14-14-14-14-14-14-14-14	Marie and the state of the stat			2483.5 Frequency (MH		ANIXI INTERNATION OF THE PARTY	Age Person Albertain Manageril Add	af haddedhoore standakiig a	2500
. 5 . 4 3 2 1		Results	Factor	Limit	2483.5		Table (o)	Height	ANT	
3 2 2	00-2470	The state of the s	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MH	iz)				2500
4 3 3 2 2 1 0.	50	Results			2483.5 Frequency (MH	iz)		Height		2500

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 the worst case was reported and 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 0.944dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Mode Temperature Test Result: 20dB Bandwidth  Ref Lvl 10 dBm  10  -10  -20  1MAX -30	Keeping Transmitting 24 deg. C, Pass 901.80kHz  Marker 1 [T1 ndB] ndB 20.00 dB BW 901.80360721 kHz	V	YBW 100 SWT 8.5	kHz RkHz ms U	DC3 56% Pk 2F Att Unit 2.40202 20 61.80360 -18 2.40153	20 dB dBm .43 dBm 104 GHz .00 dB 721 kHz	Α
Test Result:  20dB Bandwidth  Ref Lv1  10 dBm  10  -10  -20  1MAX	Pass 901.80kHz  Marker 1 [T1 ndB] ndB 20.00 dB	V	Detectors and the second secon	kHz RkHz ms U	Pk 2F Att  Init 2.40202 20 01.80360 -18 2.40153	20 dB dBm .43 dBm 104 GHz .00 dB 721 kHz .44 dBm 407 GHz	
20dB Bandwidth  Ref Lvl  10 dBm  10  -10  -20  1MAX	901.80kHz  Marker 1 [T1 ndB] ndB 20.00 dB	V	RBW 30 RBW 100 SWT 8.5	kHz R kHz ms U [T1] mdi sw 9	2.40202 20 01.80360 -18 2.40153	20 dB dBm .43 dBm 104 GHz .00 dB 721 kHz .44 dBm 407 GHz	
Ref Lvl 10 dBm  10  -10  -20  1MAX	Marker 1 [T1 ndB] ndB 20.00 dB	V	2BW 30 7BW 100 5WT 8.5	kHz ms U [T1] add	Init  2.40202 20 61.80360 -18 2.40153	20 dB dBm .43 dBm 104 GHz .00 dB 721 kHz .44 dBm 407 GHz	
10 dBm 10 0 -10 -20 1MAX	ndB 20.00 dB	V	YBW 100 SWT 8.5	kHz ms U [T1] add	1 2.40202 20 01.80360 -18 2.40153	dBm .43 dBm 104 GHz .00 dB 721 kHz .44 dBm 407 GHz	
-10 -20 1MAX			70 Z	ndB BW 9	20 01.80360 -18 2.40153	104 GHz .00 dB 721 kHz .44 dBm	A
-40 -50 -60 -70 -80				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2.40243	587 GHz	1M2

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GFSK	<u>.</u>							1				
Product: NAUTICA PORTABLE WIRELESS SPEAKER						Test Mode:		Keep transmitting				
Mode		Keepin	g Transmi	tting		Test Vo	oltage		DC3.7V 56% RH			
Temperature		2	4 deg. C,			Humi	dity					
Test Result:			Pass			Dete	ctor		I	PK		
20dB Bandwidth		90	01.80kHz									
Ref Lvl		ndB	1 [T1 r 20. 1.803607	.00 dB		3W 10	30 kH 00 kH .5 ms	z	F Att	20 dB	m	
10						1			1		7	
0					L		<b>V</b> 1	T1]	2.44101	.76 dBr 503 GH2	A	
					h h		ndB BW		20 11.80360			
-10				V		W.	▼ <sub>T1</sub>	[T1]	-18 2.44053	407 GH2	Z	
-20			7			V	$^{2}\nabla_{\mathrm{T2}}$	[T1]	-18		n	
1MAX			$\sim$						2.44143	587 GH:	1MA	
-30							4	<u>Ч</u>				
	~~~	J						m	~			
-50										and I want	M	
-60												
-70												
-80												
-90 Center 2	.441 GF	[z		300	kHz/				Spa	ın 3 MHz	<b>_</b> z	
	.441 GE		:55:54	300	/				Spe	J Pimz	_	

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GFSK	I .							1				
Product:		RTABLE PEAKER	WIRELES	SS	Test Mode:			Keep transmitting				
Mode		Keepin	g Transmi	tting		To	est Voltage	;	DC3.7V			
Temperature		2	4 deg. C,			-	Humidity		56%	% RH		
Test Result:			Pass				Detector		PK			
0dB Bandwidth		90	01.80kHz									
Ref Lvl		ndB	1 [T1 n 20.	00 dB	V	BW BW WT	30 k 100 k 8.5 m	Hz	RF Att 20 dB		n	
10							<b>v</b> <sub>1</sub>	[T1]	(	2.20 dBm	A	
0				10.0			ndF	3	2.48001	503 GHz		
					$\sim$	\	BW <b>▽</b> ⊤:	9 . [T1]	01.80360	721 kHz		
-10			\ \frac{1}{2}	V		Δ/	\		2.47953			
-20			T1 V				$\nabla^{T2}\nabla_{T2}$	? [T1]	-19			
1MAX			~						2.48043	3587 GHz	1M2	
-30								\				
-50	M							W	m			
-50										and a second	,	
-60												
-70												
-80												
-90												
Center 2	.48 GHz			300	kHz/		- 1		Spa	an 3 MHz	=======================================	
Date: 13	3.JUN.20	022 14	:59:48									

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Product:	Product: NAUTICA PORTABLE WIRELESS SPEAKER					Test Mode:			Keep transmitting DC3.7V			
Mode	Keeping Transmitting						st Voltage					
Temperature		2	24 deg. C,			Н	lumidity		56%	RH		
Test Result:			Pass			Ι	Detector		Pk	ζ		
20dB Bandwidth		1	.208MHz									
Ref Lvl 10 dBm		ndB	1 [T1 n 20.	00 dB	V	BW BW WT	30 k 100 k 8.5 m	Hz	F Att	20 dB	n	
10				,	<u>L</u>		<b>v</b> <sub>1</sub>	[T1]	2.40201	.62 dBm		
-10			~~		m	~	ndE BW √ √ <sub>T:</sub>	T1]	20 1.20841 -18	.00 dB 683 MHz	<u>.</u> :	
-20		TA				•	<b>▼</b>	[T1]	2.40136	.16 dBm		
1MAX									2.40257	415 GHz	11	
-40	W	~~						<u> </u>	<b>~</b> √~	~~~	<u>\</u>	
-50											-	
-60											-	
-70											-	
-80											-	
-90 Center 2.		_			kHz/					ın 3 MHz	]	

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Product:  Mode  Temperature	NAUTICA PORTABLE SPEAKER	E WIRELESS			
	OI LI HELI	<b>t</b>	Test Mode:	Kee	p transmitting
Temperature	Keeping Transn	nitting	Test Voltage		DC3.7V
	24 deg. C,	,	Humidity		56% RH
Test Result:	Pass		Detector		PK
20dB Bandwidth	1.214MHz	Z			
Ref Lvl		7 ab 00.0	RBW 30 ki //BW 100 ki	Hz	. 20 dB dBm
10			▼ <sub>1</sub>		
		ļ.	* 1	[T1] 2.44	0.89 dBm 101503 GHz
0			ndB BW VTI	1.21	
-10	Ţ		<b>▼</b>		-19.12 dBm 035972 GHz -18.90 dBm
-20			Y	2.44	
-30				\\	
-40	V				~~~
-50					
-60					
-70					
-80					
-90 Center 2.4	441 GHz	300 kHz/	,		Span 3 MHz

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Product:	NAU	NAUTICA PORTABLE WIRELESS SPEAKER							Keep transmitting			
Mode		Keepin	g Transmi	tting		Те	est Voltage	:	DC3.7V 56% RH			
Temperature		2	4 deg. C,			]	Humidity					
Test Result:		Pass					Detector		F	PK		
0dB Bandwidth		1.	.214MHz									
Ref Lvl 10 dBm		ndB	1 [T1 n 20. 1.214428	00 dB	V	BW BW WT	30 ki 100 ki 8.5 m	Hz	F Att	20 dB	ı	
10					L		<b>V</b> <sub>1</sub>	[T1]	2.48001	.22 dBm 503 GHz	A	
-10					لمر	,\	ndB BW ▼ <sub>T1</sub>	[T1]	20 1.21442 -19	.00 dB 886 MHz .79 dBm		
-20		TA				•	\(\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\frac{1}{\fint}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	P [T1]	2.47935 -19	972 GHz .90 dBm 415 GHz		
-30											1M	
-40								$\sqrt{\Lambda}$				
	$\mathcal{N}$	7 00						ν /	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<i>/</i> ~~\		
-50												
-60												
-70												
-80												
-90 Center 2	.48 GH	z		300	kHz/				Spa	n 3 MHz		

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#### 10.0 FCC ID Label

#### FCC ID: 2AZBO-N00019

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

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



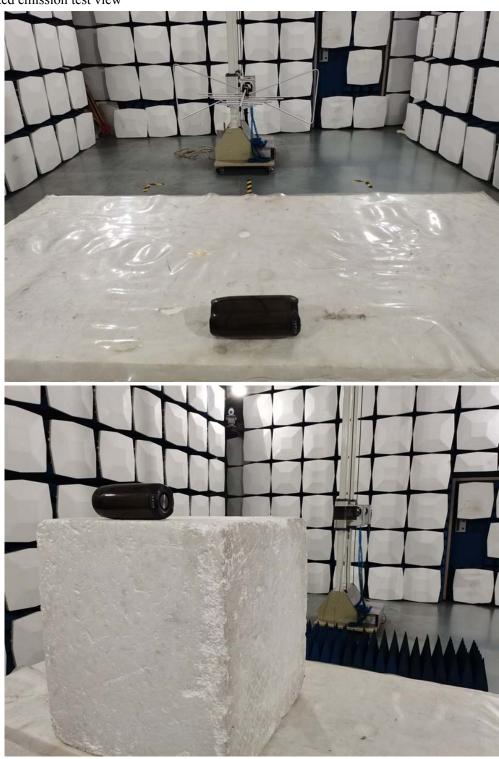
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#### Radiated emission test view



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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70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280

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Outside View



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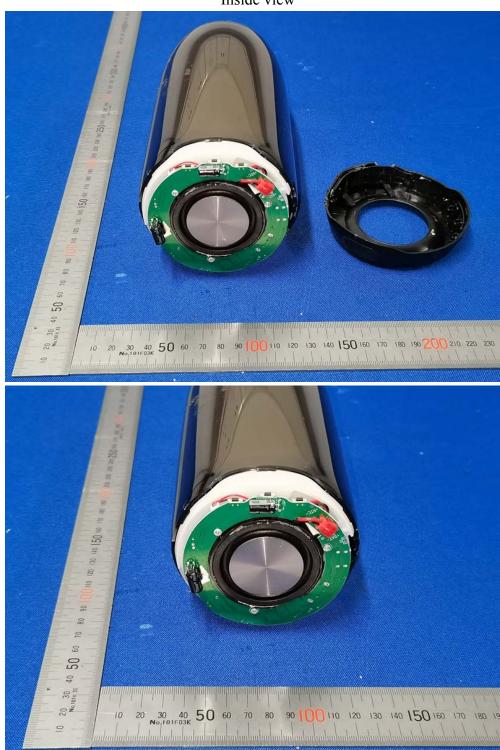
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Inside view



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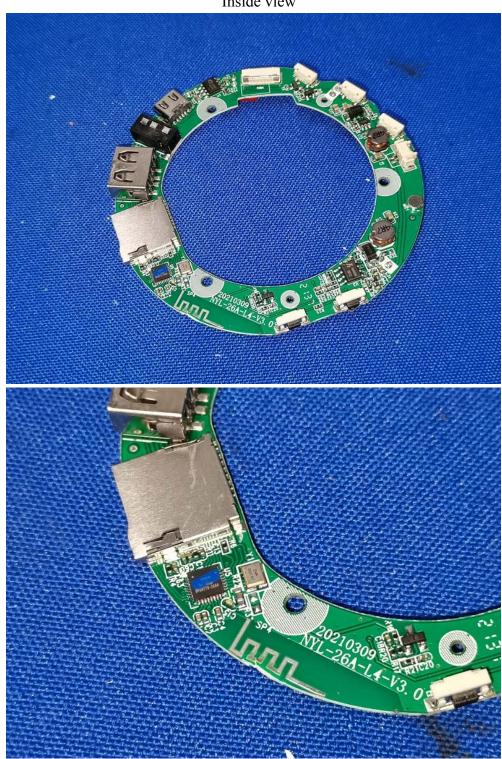
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Inside view



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Inside view





-- End of the report--

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