

Applicant: MG Accessories & Distribution Inc

Product: Portable Wireless Speaker

Model No.: ARG-SP-3110PK, ARG-SP-3110BL,

ARG-SP-3111, ARG-SP-3112, ARG-SP-3113, ARG-SP-3114

Trademark: ArgomTech

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: July 22, 2024

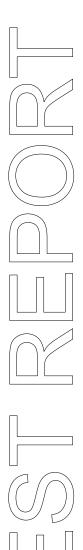
Results appearing herein relate only to the sample tested

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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Date: 2024-07-22



Special Statement:

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

CAB identifier: CN0033

Date: 2024-07-22



Test Report Conclusion

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

11.0

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Photo of Test Setup and EUT View....

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

Date: 2024-07-22



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: MG Accessories & Distribution Inc

Address: 12650 NW 25th Street Suite 112 Miami, Florida 33182 United States

1.3 Description of EUT

Product: Portable Wireless Speaker

Manufacturer: MG Accessories & Distribution Inc

Address: 12650 NW 25th Street Suite 112 Miami, Florida 33182 United States

Trademark: ArgomTech

Model Number: ARG-SP-3110PK

Additional Model Name ARG-SP-3110BK, ARG-SP-3110BL, ARG-SP-3111, ARG-SP-3112,

ARG-SP-3113, ARG-SP-3114

Rating: Input: 5Vdc, 1A

Battery: DC3.7V, 2200mAh Li-ion battery

Serial No.: P100202407

Hardware Version: V1.2 Software Version: V1.2

Operation Frequency: 2402-2480MHz Modulation Type: GFSK, JI/4DQPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation PCB antenna with gain -0.61dBi maximum (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

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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	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

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 EU	Γ has been	tested a	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	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies
FCC Part 15.215(c)	20dB bandwidth	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

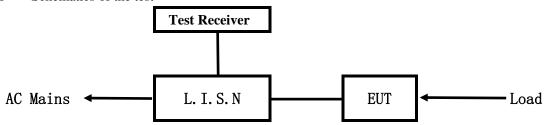
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

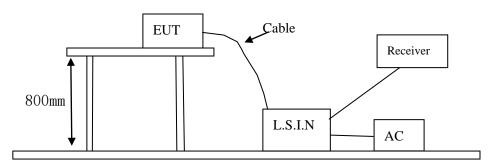


EUT: Equipment Under Test

5.2 Test Method and test Procedure

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

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



5.3 Configuration of the EUT

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

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
		ARG-SP-3110PK,	
Portable Wireless	MG Accessories &	ARG-SP-3110BK,	2AUGW-
Speaker	Distribution Inc	ARG-SP-3110BL,	ARG-SP-3110
		ARG-SP-3111, ARG-SP-3112,	AKU-3F-3110
		ARG-SP-3113, ARG-SP-3114	

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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 (d	lB μ V)
(MHz)	Quasi-peak Level	Aver ge 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)

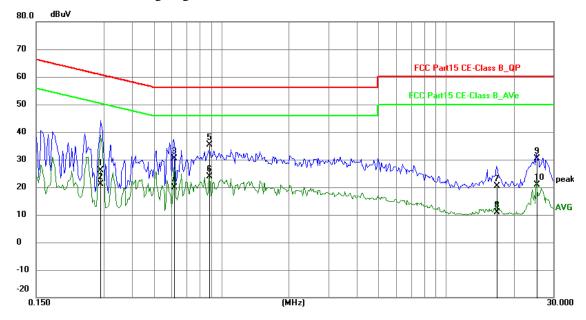
EUT Operating Environment

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

EUT set Condition: 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	0.2904	16.37	9.76	26.13	60.51	-34.38	QP	Р
2	0.2904	11.43	9.76	21.19	50.51	-29.32	AVG	Р
3	0.6141	20.61	9.78	30.39	56.00	-25.61	QP	Р
4	0.6141	10.00	9.78	19.78	46.00	-26.22	AVG	П
5	0.8832	25.71	9.79	35.50	56.00	-20.50	QP	Р
6	0.8832	14.11	9.79	23.90	46.00	-22.10	AVG	Р
7	16.7709	10.00	10.49	20.49	60.00	-39.51	QP	Р
8	16.7709	0.31	10.49	10.80	50.00	-39.20	AVG	Р
9	25.2300	19.31	11.00	30.31	60.00	-29.69	QP	Р
10	25.2300	10.00	11.00	21.00	50.00	-29.00	AVG	Р

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

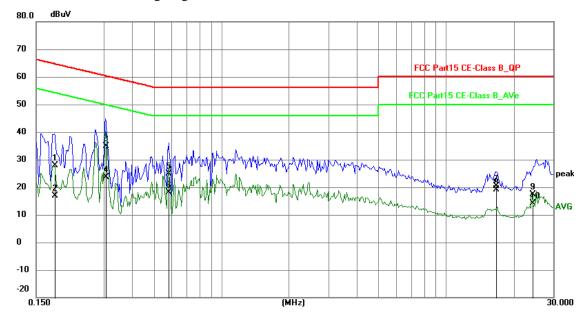
EUT Operating Environment

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 (dBuV)	Margin (dB)	Detector	P/F
1	0.1812	18.08	9.76	27.84	64.43	-36.59	QP	Р
2	0.1812	7.02	9.76	16.78	54.43	-37.65	AVG	Р
3	0.3060	25.16	9.76	34.92	60.08	-25.16	QP	Р
4	0.3060	13.84	9.76	23.60	50.08	-26.48	AVG	Р
5	0.5829	15.14	9.77	24.91	56.00	-31.09	QP	Р
6	0.5829	8.44	9.77	18.21	46.00	-27.79	AVG	Р
7	16.7475	9.79	10.48	20.27	60.00	-39.73	QP	Р
8	16.7475	8.63	10.48	19.11	50.00	-30.89	AVG	Р
9	24.3994	6.47	10.95	17.42	60.00	-42.58	QP	Р
10	24.3994	3.15	10.95	14.10	50.00	-35.90	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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

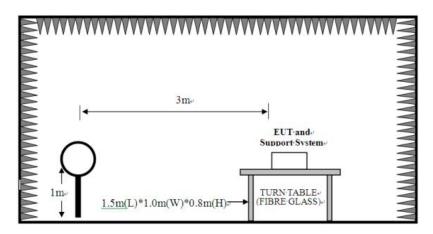
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.

- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

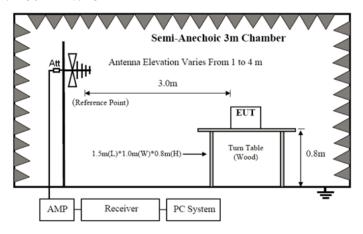
For radiated emissions from 9kHz to 30MHz



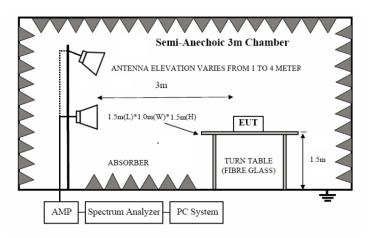
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



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

 Same as section 5.4 of this report.
- 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	

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2400-2483.5 50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
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Note:

- 1. RF Field Strength $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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)
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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. Battery was fully charged during test

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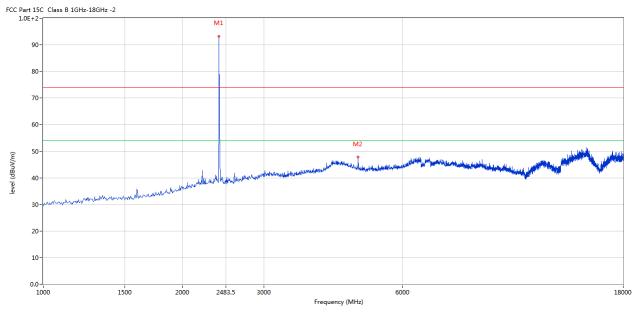


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



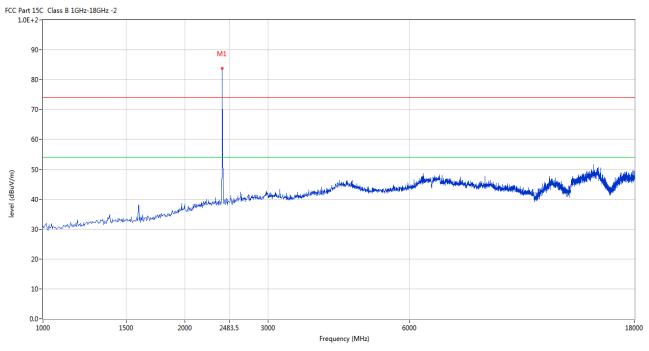
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	93.23	-3.57	114.0	-20.77	Peak	272.00	100	Horizontal	Pass
2	4802.799	47.81	3.12	74.0	-26.19	Peak	78.00	100	Horizontal	Pass

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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	83.74	-3.57	114.0	-30.26	Peak	349.00	100	Vertical	Pass

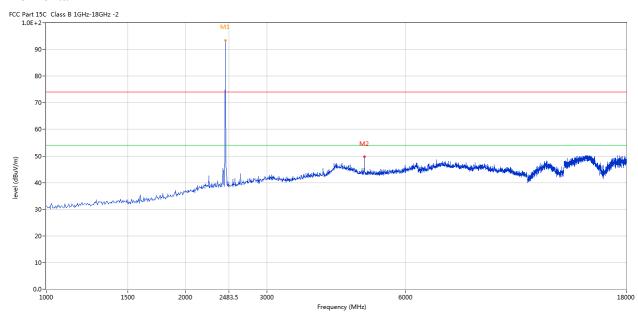
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



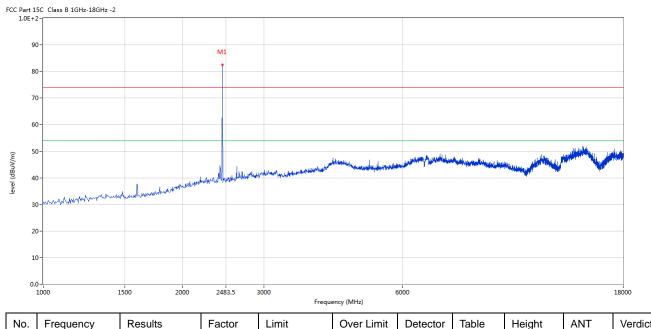
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	93.33	-3.57	114.0	-20.67	Peak	305.00	100	Horizontal	Pass
2	4883.529	49.69	3.20	74.0	-24.31	Peak	274.00	100	Horizontal	Pass

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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	82.40	-3.57	114.0	-31.6	Peak	360.00	100	Vertical	Pass

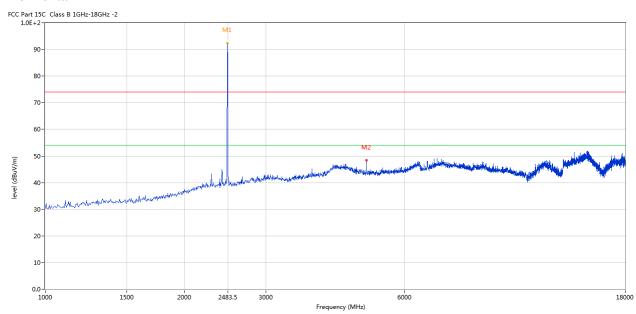
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	92.23	-3.57	114.0	-21.77	Peak	250.00	100	Horizontal	Pass
2	4960.010	48.39	3.36	74.0	-25.61	Peak	312.00	100	Horizontal	Pass

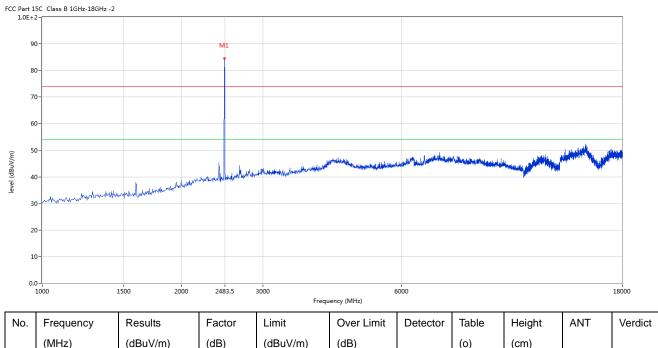
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	84.53	-3.57	114.0	-29.47	Peak	359.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

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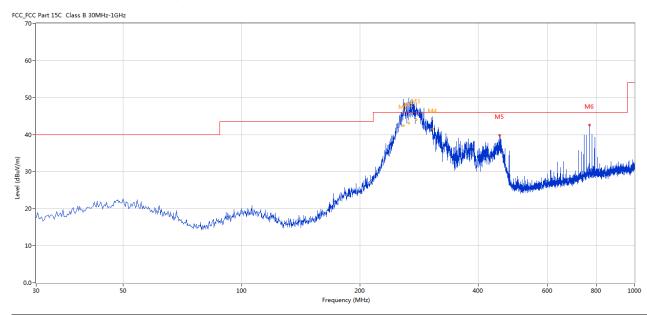


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1*	258.188	42.47	-11.85	46.0	3.53	QP	340.00	107	Horizontal	Pass
2*	266.361	43.06	-11.78	46.0	2.94	QP	359.00	114	Horizontal	Pass
3*	278.106	44.06	-11.55	46.0	1.94	QP	357.00	107	Horizontal	Pass
4*	306.381	41.46	-10.95	46.0	4.54	QP	357.00	100	Horizontal	Pass
5	454.269	39.80	-7.92	46.0	6.20	Peak	156.00	100	Horizontal	Pass
6	767.986	42.54	-3.20	46.0	3.46	Peak	14.00	100	Horizontal	Pass

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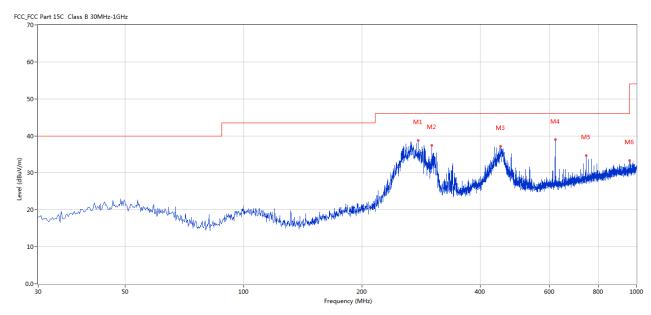


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	278.015	38.78	-11.55	46.0	7.22	Peak	273.00	100	Vertical	Pass
2	301.775	37.38	-10.99	46.0	8.62	Peak	273.00	100	Vertical	Pass
3	451.602	37.22	-7.91	46.0	8.78	Peak	161.00	100	Vertical	Pass
4	621.067	39.02	-4.90	46.0	6.98	Peak	2.00	100	Vertical	Pass
5	743.984	34.63	-3.54	46.0	11.37	Peak	90.00	100	Vertical	Pass
6	959.998	33.33	-1.63	46.0	12.67	Peak	221.00	100	Vertical	Pass

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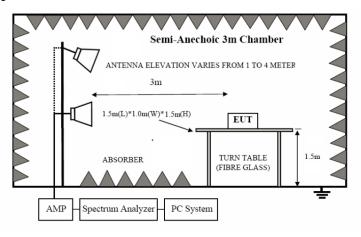


7. Band Edge

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.

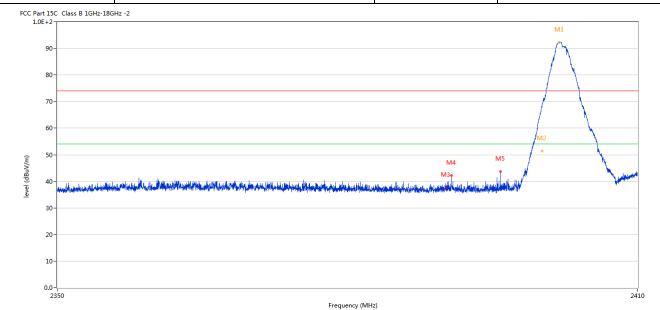
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7.6 Test Result

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



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.842	92.35	-3.57	74.0	18.35	Peak	273.00	100	Horizontal	N/A
2	2400.012	66.68	-3.57	74.0	-7.32	Peak	273.00	100	Horizontal	Pass
2**	2400.012	51.45	-3.57	54.0	-2.55	AV	273.00	100	Horizontal	Pass
3	2390.010	37.43	-3.53	74.0	-36.57	Peak	263.00	100	Horizontal	Pass
4	2390.580	42.13	-3.53	74.0	-31.87	Peak	185.00	100	Horizontal	Pass
5	2395.679	43.65	-3.55	74.0	-30.35	Peak	160.00	100	Horizontal	Pass

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I	Product:	Por	table Wire	less Speaker		Detect	or		Vertical	
	Mode	I	Keeping Tr	ansmitting		Test Vol	tage			
Te	mperature		24 de	g. C,		Humid	ity		56% RH	
Te	est Result:		Pas	ss						
CC Part 1.0E	t 15C Class B 1GHz-18GF E+2-	lz -2								
	90-									
								•	М1 Л [*] Б	
	80-								A. A.	
	70-							-	$\overline{}$	
	60-									
							M4 M5		<u> </u>	
=										
u/angn) iaaai	30-	isidikhaikkahi ente Maiyadokalari	اللهالد المعاددات المعالمة الم	أرياديه المتعادمة المتعادم	Mariantal coloria de Alda, de	+quit-maidenial habit		M2 •	1	HA HARALAN
	30-	النافالية والمراجع المراجع المراجع والمراجع والم	alistapise, been dad ee dat agest	i verside di de successide la basar	ekanakanaa Lifukia	Hesternia de la Maria della de		M2 •		
	30-	النظالة والإراجة والمراجة والم	eldikladire beridde ve killedir	المستعلقة المتألفة المتراجية والألحامية	Frequency (MHz)	testennians partial		M2 •		
	30-	Results	Factor	Limit		Detector	Table	Height	ANT	241
level	30- 20- 10- 0.0- 2350				Frequency (MHz)		Table (o)	Height (cm)		241
No.	30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz) Over Limit			_		241
No.	30- 20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	(o)	(cm)	ANT	241 Verdi
√o.	40- 30- 20- 10- 0.0- 2350 Frequency (MHz) 2401.767	Results (dBuV/m) 82.62	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 8.62	Detector Peak	(o) 349.00	(cm)	ANT Vertical	Verdi
	40- 30- 20- 10- 0.0- 2350 Frequency (MHz) 2401.767 2400.042	Results (dBuV/m) 82.62 57.10	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0	Frequency (MHz) Over Limit (dB) 8.62 -16.90	Detector Peak Peak	(o) 349.00 328.00	(cm) 100 100	ANT Vertical Vertical	Verdid N/A Pass
	40- 20- 10- 0.0- 2350 Frequency (MHz) 2401.767 2400.042 2400.042	Results (dBuV/m) 82.62 57.10 41.98	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Frequency (MHz) Over Limit (dB) 8.62 -16.90 -12.02	Detector Peak Peak AV	(o) 349.00 328.00 328.00	(cm) 100 100	ANT Vertical Vertical Vertical	Verdi N/A Pass Pass

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P	roduct:	P	ortable Wi	reless Speak	er	P	olarity		Horizont	al	
]	Mode		Keeping '	Fransmitting		Tes	t Voltage		DC3.7\	I	
Ten	nperature		24 deg. C,			Hı	ımidity		56% RH		
Tes	st Result:		I	Pass							
C Part 150 1.0E+2-	C Class B 1GHz-18GHz	-2									
90- 80- 70- 60-			M.	MAN	M						
40- 30-	And the state of t	. Wellisher hills find the deliver of			The state of the s	nd distributed in the second	والمقادية والمستواط والمستول والمستواط والمستواط والمستول والمستواط والمستواط والمستواط والمستواط والمستواط والمستول	Alberta, every septembellist,	laakiretteeliikko alkeentulvatuutustii	a de la ligit	
20-				2483.							
0.0-	470				,					2500	
0.0-	470			2 1001	Frequency (MHz)					2500	
0.0-	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdi	

No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2480.047	91.98	-3.57	74.0	17.98	Peak	254.00	100	Horizontal	N/A
2	2483.500	57.03	-3.57	74.0	-16.97	Peak	254.00	100	Horizontal	Pass
2**	2483.500	41.97	-3.57	54.0	-12.03	AV	254.00	100	Horizontal	Pass

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I	Product:	Por	rtable Wire	less Speaker		Detect	or		Vertical	
	Mode	F	Keeping Tra	ansmitting		Test Vol	tage		DC3.7V	
Te	mperature		24 de	g. C,		Humid	ity	56% RH		
Te	est Result:		Pas	ss						
	rt 15C Class B 1GHz-18GF E+2-	lz -2			•			•		
	90-		M1							
level (dBuV/m)	60- 50- 40- 30- 20-	in annih de distribution de la constitución de la c		M.	Marie de la companya della companya de la companya de la companya della companya	han file de plante de la constante de la const	par _{er} de l'est de		ilde adamic podublly	_{to} tassial ke <mark>lada</mark> k
	30-	in annu hille de districtiva de dist		2483.5		hong this stee the things the year	ne o de la constanció		Holocolomic popularis Phys	
	30 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results	Factor			Detector	Table	Height	ANT	2500
	30 - 20 - 10 - 2470		Factor (dB)	T	Frequency (MHz)					2500
	50- 40- 30- 20- 10- 2470	Results		Limit	Frequency (MHz) Over Limit		Table	Height		2500

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

2. The two modulation modes of GFSK, Pi/4D-QPSK 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 with gain -0.61dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

N/A

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Test Result

Product:	Portable	Wireless	Speaker		Te	est Mode:		Keep tran	nsmitting	
Mode	Keepi	ng Transm	itting		Te	st Voltage		DC3	3.7V	
Temperature	4	24 deg. C,		Humidity				56%	RH	
Test Result:		Pass			Detector			PK		
dB Bandwidth	926kHz									
	Delta 1	[T1]		RI	ВW	30 k	Hz R	I Iz RF Att 20 dB		
Ref Lvl		0.	.46 dB	VI	ВW	100 k	Ηz			
10 dBm	925	.851703	841 kHz	SI	VΤ	8.5 m	s U	nit	dBn	n
10						▼1	[T1]	-20	0.96 dBm]_
			2					2.40154	4609 GHz	P
0			Ā	Λ		<u> </u> 1	[T1]		0.46 dB	1
				\mathcal{N}	4	∇ 2	9	25.85170	341 kHz	
-10			M		7	V 2	[T1]	2.4018	0.91 dBm 7675 GHz	
		. ^				$\sqrt{\sum_{i=1}^{n}}$		2.1010	, 0, 0 0112	
-20 1 -20.91	dBm	 ~								1
-30						J	Į			110
- 40	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \						1			
	My							Why.		
-50								4	War war	ı,
-60										
-70										
-80										
-90 Center 2.40				kHz/					an 3 MHz	

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Product:	P	ortable V	Wireless S	peaker		T	est Mode:			Keep tra	nsmittin	g
Mode			g Transmi			Те	est Voltage	;			3.7V	
Temperature			4 deg. C,	-			Humidity			56%	RH	
Test Result:			Pass				Detector			F	K	
OdB Bandwidth		Ģ	986kHz									
é à	Delta 1 [T1]				RB	3W	30 k	Ηz	RF	` Att	20 dI	3
Ref Lvl			-0.	49 dB	VB	3W	100 k	Ηz				
10 dBm		985	971943	889 kHz	SW	ГT	8.5 m	s	Un	iit	dI	3m
10							▼1	[T1]		-19	.99 dE	
				2						2.44053	407 GH	Z
0				M	Λ, Λ		▲ ¹	[T1]		-0	.49 dE	3
					MA	7	V 2		98	5.97194	389 kH .41 dE	
-10				$\mathcal N$		7	i.e.	[+ +]		2.44087	675 GH	_
			1 1				٠ لم 1					
-20 <u>20</u>	41 dBm		 			\dashv			+			╡
1MAX			\mathcal{F}					Ţ				1M
-30		M						7				1
								, ch				
-40	A print					\dashv		1	\vdash	Λ		┨
-50 Wyllyw (c)	in .	W/							W	L.		
											۲.	
-60											Mulia	_
-70						_			_			
-80												
-90												
Center 2.	.441 GHz	I		300	kHz/					Spa	n 3 MH	z

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Product: Mode Temperature Test Result: 0dB Bandwidth Ref Lvl 10 dBm	Keeping 7 24 o	Transmitting deg. C, Pass 2kHz	Г	Test Mode: Test Voltage Humidity			nsmitting 3.7V	
Temperature Test Result: 0dB Bandwidth Ref Lv1 10 dBm	24 o I 99	deg. C, Pass				DC	3.7V	
Test Result: 0dB Bandwidth Ref Lvl 10 dBm	I 99	Pass		Humidity		DC3.7V		
OdB Bandwidth Ref Lvl 10 dBm	99					56%	6 RH	
Ref Lvl 10 dBm		2kH2		Detector		PK		
10 dBm		2K11Z						
10 dBm	Delta 1 [T1]		RBW	30 kH	z RI	7 Att	20 dB	
		0.25 dB	VBW	100 kH				
	991.	98396793 kHz	SWT	8.5 ms	Ur	nit	dBm	_
				▼1	[T1]	-20	.01 dBm	A
0		2				2.47953	407 GHz	
		M	Λ	^ 1	[Tl]	0	.25 dB	
			V/	∇ 2	99 [T1]	1.98396 -0	793 kHz	
-10		N	 			2.47987	675 GHz	
		1		1				
-20 <u>D1 -20 33 (</u>	dBm	75		\				1MA
		<i>}</i>		V				
-30	ما مر				Ţ			
	f f				1			
-40	Λ. /					~~		
-50	7 460				V	لم		
						Ž	لممطريه	
-60								
-70								
-80								
-90 Center 2.48	GHZ	300	kHz/			Sn =	n 3 MHz	ļ
	L.2024 18:0		N112/			Spa	5 11112	

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T/4DQPSK	D . 11 YYY 1	G 1		**	••
Product:	Portable Wireless		Test Mode		ansmitting
Mode	Keeping Transr		Test Voltag		C3.7V
Temperature	24 deg. C	,	Humidity		% RH
Test Result:	Pass		Detector]	PK
20dB Bandwidth	1.232MH	Z			
	Marker 1 [T1	ndB]	RBW 30	kHz RF Att	20 dB
Ref Lvl				kHz	
10 dBm	BW 1.23246	493 MHz	SWT 8.5	ms Unit	dBm
10			▼1	[T1] -	-0.94 dBm
		1		2.4018	87675 GHz
0		Ă a	nd	18 2	20.00 aB
		[_[]	BW		46493 MHz
-10	^A/		V V		20.84 dBm
			▼ T	2.4014	40782 GHz 21.10 dBm
-20	11/		V 1	r2 1 2 402	21.10 dbm
1MAX					1M
-30	~			Liq.	
-40				1	M.
-50					W
-60					
-70					-
-80					
-90					
Center 2.40	2 GHz	300 kHz	/	Sp	pan 3 MHz

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Product:	Portable	Wireless S	peaker		Т	est Mode:		Keep tra	nsmitting	
Mode		ıg Transmi				est Voltage	:		3.7V	
Temperature						6 RH				
Test Result:						Detector		PK		
20dB Bandwidth	4 04 0 077									
^	Marker 1 [T1 ndB]				BW	30 k	Hz Ri	F Att	20 dB	
Ref Lvl	ndB		.00 dB	V	BW	100 k	Ηz			
10 dBm	BW	1.214428	886 MHz	s	WT	8.5 m	s U	nit	dBm	ı
10						▼1	[T1]	- 0	1.37 dBm	I
			1					2.44087	675 GHz	A
0			Ā	Λ		ndF		20	.00 aB	
			/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			BW		1.21442	886 MHz	
-10		/W/	V VV	~~	W	~√\ _{\m} ♥±:	[T1]	2.44041	.86 dBm	
		11				▽ T 2	2[T1]	-20	964 GHZ	
-20		<u> </u>						2.44163	427 GHz	
-30										1M2
-40	March						Ų	W	لمعر	•
-50									\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
-60										
-70										
-80										
-90										
Center 2.44	1 GHz		300	kHz/				Spa	n 3 MHz	

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Product:	Portah	le Wireless S	neaker	7	Test Mode:		Keep transmitting		
Mode		ping Transmi			est Voltage			3.7V	
Temperature	Kee]	24 deg. C,	ung		Humidity		56% RH		
Test Result:		Pass			Detector			PK	
0dB Bandwidth		1.226MHz					PK		
Odb Build Width	Marke	RBW	30 ki	do Ri	F Att	20 dB			
Ref Lvl	ndB		.00 dB	VBW	100 ki		1100	20 42	
10 dBm	BW	1.226452	291 MHz	SWT	8.5 ms	5 Uı	nit	dBm	
10					▼1	[T1]	- C	.29 dBm	
			1				2.47987	675 GHz	
0			Ā	Λ	ndB		20	.00 aB	
				\ \ \	BW		1.22645	291 MHz	
-10		/°V	~ · · ·	~ ~	T-V (L. VIII	[T1]	2.47941	.17 dBm 383 GHz	
		21.1			▽ ⊤2	_{[2} [T1]	-20	.70 dBm	
-20		7				\bigvee	2.48064	028 GHz	
-30						-		1	
						M			
-40							A. N.	m	
-50								~~	
-60									
-70									
-80									
-90									
Center 2.	48 GHz		300	kHz/			Spa	n 3 MHz	

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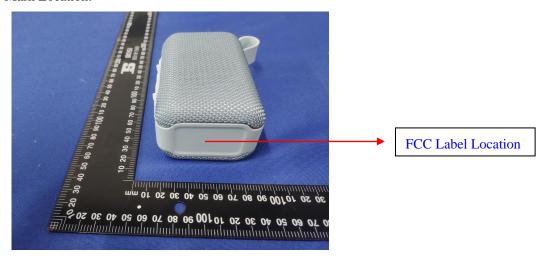


10.0 FCC ID Label

FCC ID: 2AUGW- ARG-SP-3110

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 testing11.1 Conducted test V



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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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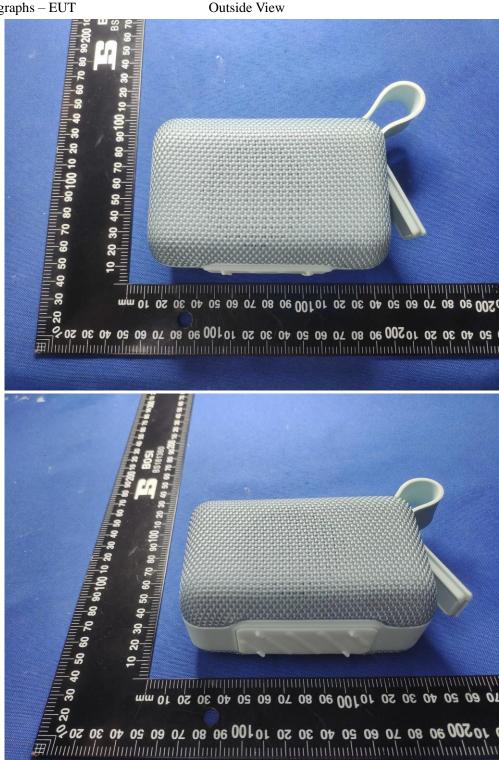
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11.2 Photographs - EUT



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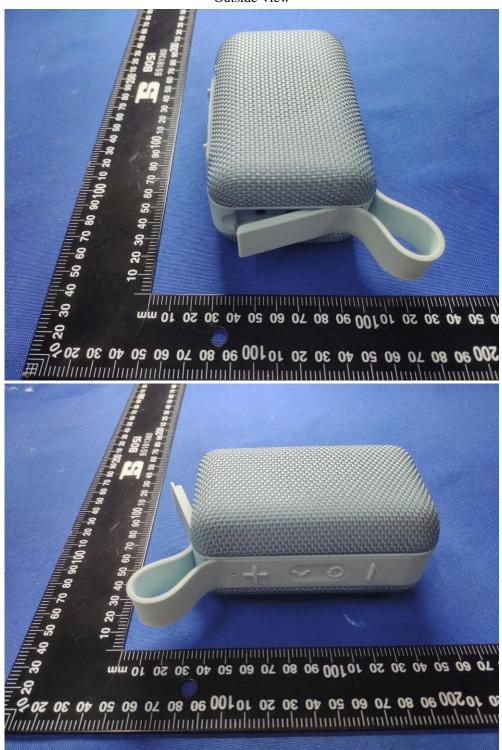
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Outside View



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

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Outside View



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Inside View





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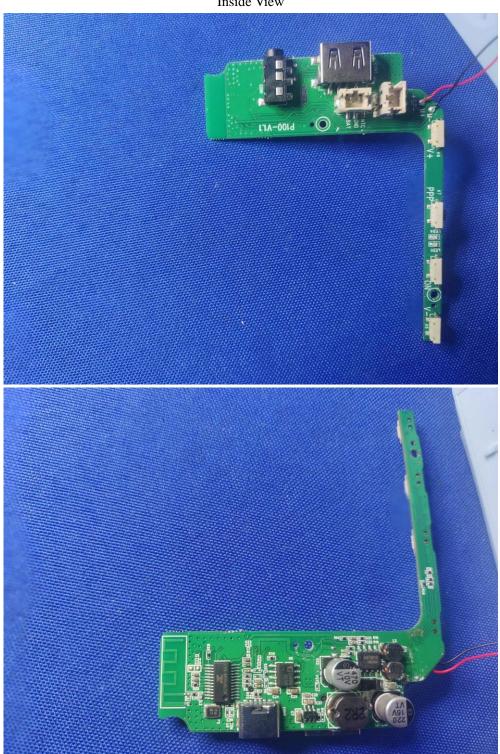
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Inside View



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Inside View



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