

Applicant: TITAN INC.

Product: SPEAKER BOX/Parlante

Model No.: MS-900B

Trademark:

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 Tong

Terry Tang

Manager

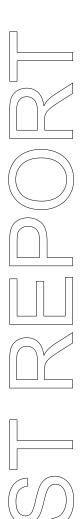
Dated: July 08, 2024

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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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: 2024-07-08



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....

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Date: 2024-07-08



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: TITAN INC.

Address: 3530 Nw 115 Ave, Miami, Florida 33178, United States

Telephone: 786-618-8393 Fax: 305-320-3198

1.3 Description of EUT

Product: SPEAKER BOX/Parlante
Manufacturer: MAXTRONIX CO., LTD.

Address: NO.12, HEXIANG ROAD, WUJIN ECONOMIC DEVELOPMENT ZONE,

CHANGZHOU, JIANGSU, CHINA

Trademark: mconki°

Model Number: MS-900B Additional Model Name N/A

Rating: Input: 100-240V~, 50/60Hz, 500mA Battery: DC12V, 3.0AH Lead-Acid Battery

Serial No.: MS900B20231205115B

Hardware Version: V7.0 Software Version: V1.2

Operation Frequency: 2402-2480MHz Modulation Type: GFSK, $\sqrt{1/4}$ DQPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation PCB antenna with gain 0dBi maximum (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2024-06-18 to 2024-07-05

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	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13		
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13		
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17		
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13		
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	2024-07-17		
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13		
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13		
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	2023-07-14	2024-07-13		
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13		
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13		
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13		
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2023-07-14	2024-07-13		
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13		
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13		
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13		
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13		
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13		

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	l according to	o the foll	owing s	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

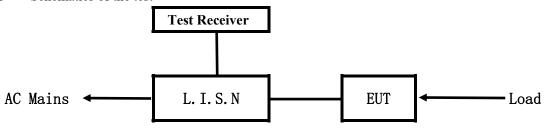
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

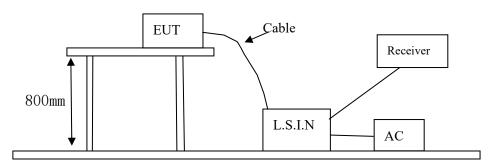


EUT: Equipment Under Test

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
SPEAKER BOX/Parlante	MAXTRONIX CO., LTD.	MS-900B	2A6R4-MS-900B

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition
- 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB μ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
$5.00 \sim 30.00$	60.0	50.0		

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Date: 2024-07-08



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

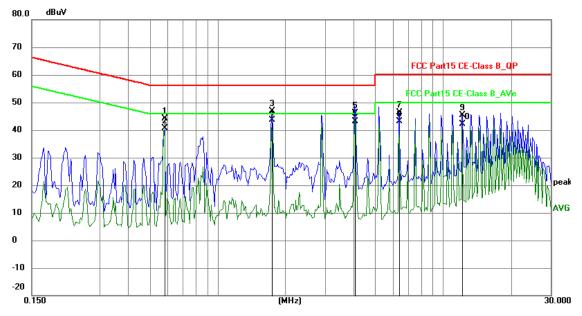
EUT Operating Environment

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	0.5829	34.43	9.77	44.20	56.00	-11.80	QP	Р
2	0.5829	30.83	9.77	40.60	46.00	-5.40	AVG	Р
3	1.7412	37.13	9.80	46.93	56.00	-9.07	QP	Р
4	1.7412	33.83	9.80	43.63	46.00	-2.37	AVG	Ъ
5	4.0608	36.13	9.89	46.02	56.00	-9.98	QP	Р
6	4.0608	33.34	9.89	43.23	46.00	-2.77	AVG	Р
7	6.3773	36.52	9.98	46.50	60.00	-13.50	QP	Р
8	6.3773	33.05	9.98	43.03	50.00	-6.97	AVG	Л
9	12.1767	35.17	10.26	45.43	60.00	-14.57	QP	Р
10	12.1767	31.87	10.26	42.13	50.00	-7.87	AVG	Р

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

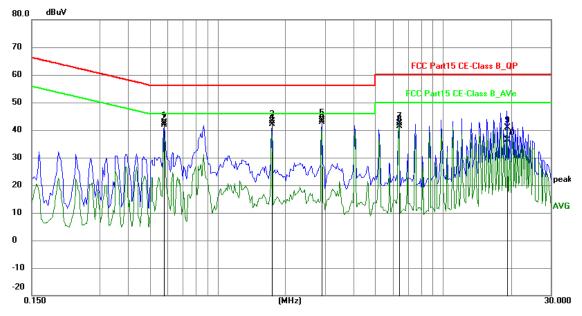
EUT Operating Environment

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	0.5790	32.87	9.77	42.64	56.00	-13.36	QP	Р
2	0.5790	32.04	9.77	41.81	46.00	-4.19	AVG	Р
3	1.7412	33.39	9.80	43.19	56.00	-12.81	QP	Р
4	1.7412	32.21	9.80	42.01	46.00	-3.99	AVG	Р
5	2.8995	33.82	9.84	43.66	56.00	-12.34	QP	Р
6	2.8995	32.94	9.84	42.78	46.00	-3.22	AVG	Ъ
7	6.3773	32.52	9.98	42.50	60.00	-17.50	QP	Л
8	6.3773	31.34	9.98	41.32	50.00	-8.68	AVG	Ъ
9	19.1342	30.35	10.63	40.98	60.00	-19.02	QP	Р
10	19.1342	25.85	10.63	36.48	50.00	-13.52	AVG	Р

Date: 2024-07-08



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:

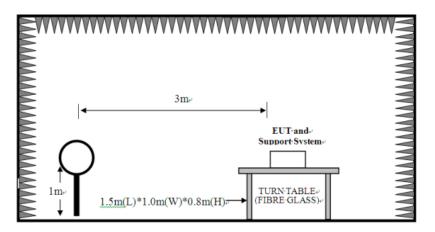
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

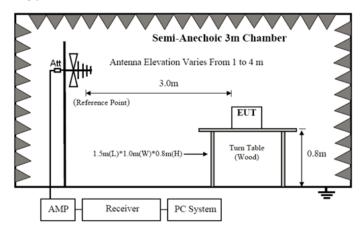
For radiated emissions from 9kHz to 30MHz



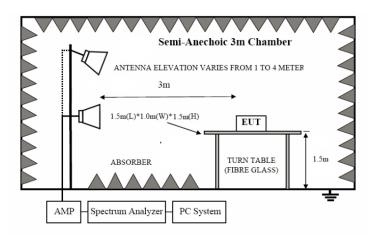
Date: 2024-07-08



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 Stre	ength 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 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.

	<u>.</u>	9 1
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. 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 and 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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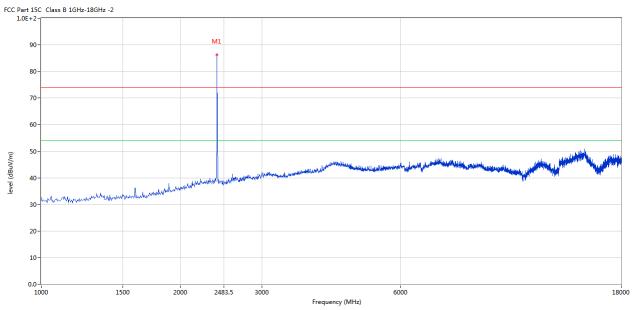


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



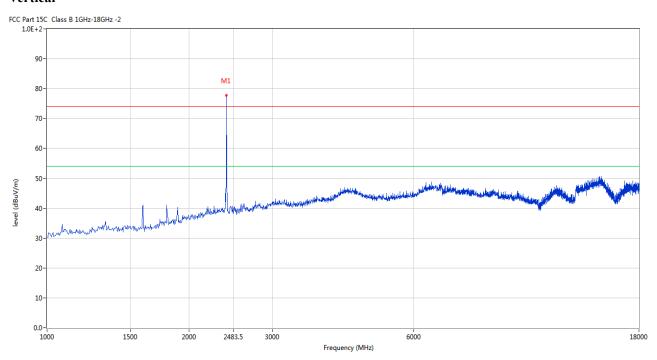
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	86.26	-3.57	114.0	-27.74	Peak	304.00	100	Horizontal	Pass

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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	77.75	-3.57	114.0	-36.25	Peak	49.00	100	Vertical	Pass

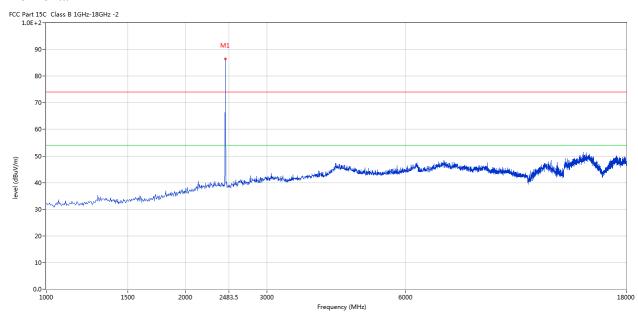
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



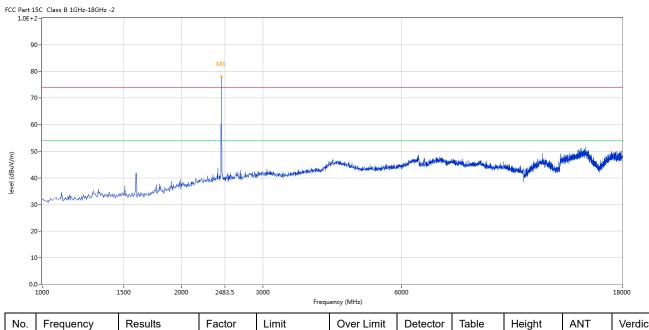
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	86.47	-3.57	114.0	-27.53	Peak	256.00	100	Horizontal	Pass

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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	77.92	-3.57	114.0	-36.08	Peak	149.00	100	Vertical	Pass

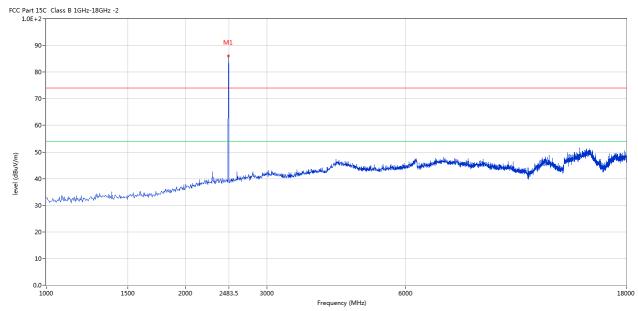
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



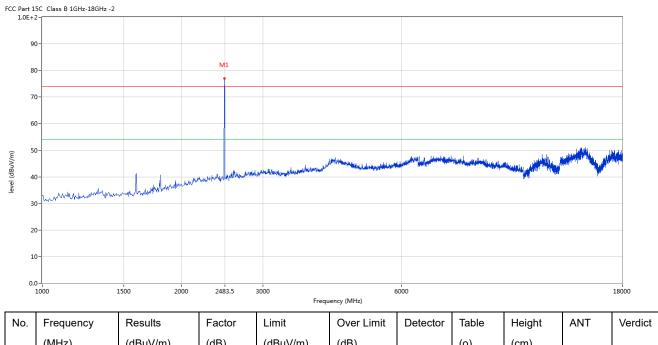
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	86.12	-3.57	114.0	-27.88	Peak	249.00	100	Horizontal	Pass

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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	77.11	-3.57	114.0	-36.89	Peak	161.00	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

FCC_FCC Part 158 Class B 30MHz-1GHz

70

60

M5

M1

M2

10

No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	162.857	31.47	-16.37	43.5	12.03	Peak	57.00	100	Horizontal	Pass
2	239.953	28.12	-12.33	46.0	17.88	Peak	75.00	100	Horizontal	Pass
3	359.960	31.06	-9.46	46.0	14.94	Peak	147.00	100	Horizontal	Pass
4	479.968	36.55	-7.40	46.0	9.45	Peak	352.00	100	Horizontal	Pass
5*	539.850	45.14	-6.51	46.0	0.86	QP	172.00	100	Horizontal	Pass
6*	599.975	43.84	-4.95	46.0	2.16	QP	159.00	100	Horizontal	Pass

200

Frequency (MHz)

400

600

1000

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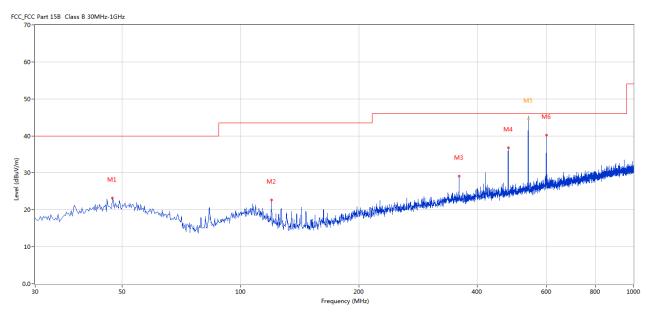


Radiated Emission In Vertical (30MHz----1000MHz)

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	47.213	23.24	-11.41	40.0	16.76	Peak	201.00	100	Vertical	Pass
2	119.945	22.64	-15.32	43.5	20.86	Peak	1.00	100	Vertical	Pass
3	359.960	29.15	-9.46	46.0	16.85	Peak	16.00	100	Vertical	Pass
4	479.968	36.72	-7.40	46.0	9.28	Peak	0.00	100	Vertical	Pass
5*	539.850	44.56	-6.51	46.0	1.44	QP	235.00	100	Vertical	Pass
6	599.975	40.23	-4.95	46.0	5.77	Peak	129.00	100	Vertical	Pass

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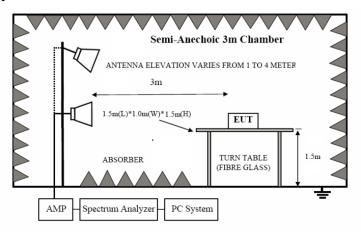


7. Band Edge

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.

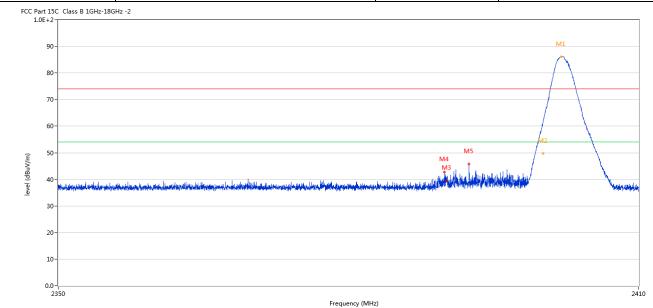
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7.6 Test Result

Product:	SPEAKER BOX/Parlante	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC12V
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	2401.902	86.10	-3.57	74.0	12.10	Peak	298.00	100	Horizontal	N/A
2	2400.027	61.77	-3.57	74.0	-12.23	Peak	298.00	100	Horizontal	Pass
2**	2400.027	49.65	-3.57	54.0	-4.35	AV	298.00	100	Horizontal	Pass
3	2390.010	39.40	-3.53	74.0	-34.60	Peak	153.00	100	Horizontal	Pass
4	2389.755	42.68	-3.53	74.0	-31.32	Peak	159.00	100	Horizontal	Pass
5	2392.319	45.71	-3.54	74.0	-28.29	Peak	159.00	100	Horizontal	Pass

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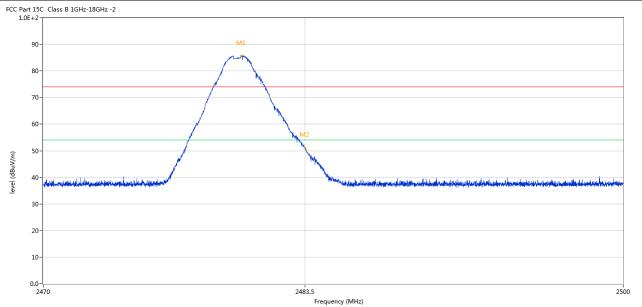


]	Product:	SP	EAKER B	OX/Parlante		Detect	or		Vertical		
	Mode	ŀ	Keeping Tra	ansmitting		Test Vol	tage	DC12V			
Te	mperature		24 de	g. C,		Humid	ity	,	56% RH		
Te	est Result:		Pas	SS			,				
	t 15C Class B 1GHz-18GF E+2-	z -2			,						
	90-										
	90-							N	M1		
	80-								<u></u>		
	70-								M		
	60-							M2	\rightarrow		
						N	M5	1014			
	50-										
level (dBuV/m)	40-40-41-41-41-41-41-41-41-41-41-41-41-41-41-	the production of the state of	de de la la companya de la companya	ally our group of the pay of the best solventing	الملألم ووابوه إداونين تدميلا			Harris Harris			
level (dBuV/m)	40-Markita Landa Markata	and the state of t	de Maria esta esta de la compaña e	ally on creation of the period of the lateral to	de de la constante de la const					to the second	
	40	harasida kanda dagisila a hina da ababa	te the state of th	alligus escapibility of high black to be de-	and the same of the same of the last					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	30- 20-	and the second s	de Maria mais principal de la presidencia della		Frequency (MHz)					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	40	Results	Factor			Detector	Table	Height	ANT	241	
	40				Frequency (MHz)		Table (o)	Height (cm)		241	
No.	30 - 20 - 10 - 2350 Frequency	Results	Factor	Limit	Frequency (MHz) Over Limit					241	
No.	40- 30- 20- 10- 0.0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	(0)	(cm)	ANT	241	
No.	40-20-10-2350 Frequency (MHz) 2401.887	Results (dBuV/m) 77.38	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 3.38	Detector Peak	(o) 52.00	(cm)	ANT Vertical	Verdi	
	40- 30- 20- 10- 2350 Frequency (MHz) 2401.887 2400.027	Results (dBuV/m) 77.38 53.51	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 3.38 -20.49	Detector Peak Peak	(o) 52.00 52.00	(cm) 100 100	ANT Vertical Vertical	Verdid	

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SPEAKER BOX/Parlante	Polarity	Horizontal
Keeping Transmitting	Test Voltage	DC12V
24 deg. C,	Humidity	56% RH
Pass		
	Keeping Transmitting 24 deg. C,	Keeping Transmitting Test Voltage 24 deg. C, Humidity



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2480.205	85.77	-3.57	74.0	11.77	Peak	250.00	100	Horizontal	N/A
2	2483.500	51.02	-3.57	74.0	-22.98	Peak	250.00	100	Horizontal	Pass

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	Product:	SP	EAKER B	OX/Parlante		Detec	tor	Vertical				
	Mode	I	Keeping Tr	ansmitting		Test Vo	ltage		DC12V			
Te	mperature		24 de	g. C,		Humio	56% RH					
Τe	est Result:		Pa	SS								
	rt 15C Class B 1GHz-18GH	Hz -2						•				
	90-											
	80-		M	1								
	70-											
	60-											
	80-											
(m//m)	50-		-	M ₂ M ₂								
level (dBuV/m)	50- 40- 30-	ddishaan whansishaagi dan basan sagariidh		MA MA	**************************************		dan balla di sensa di Herdisha	i i inga at ang bang bi at a da sa bang bi	galagida e daldi ya Balga a			
level (dBuV/m)	40-	ddistan weden old an yl Arab staer, i saget i dw		_M M2	**************************************	alut aykataktis gen	daja di madiki kataba	etineetherbischen	godinali od od pografija	ates Laboral Months		
level (dBuV/m)	30- 20-	ddistan e eleccide a philosophia c i sageid de		2483.		alai selletisi ara	d spiritures de Printipo	etin pertendira de più				
	30- 20- 0.0-	Results	Factor		.5	Detector	Table	Height	ANT	250		
	30- 20- 10- 2470		Factor (dB)	2483.	.5 Frequency (MHz)					250		
(m/\mu/\mu/\mu) level (m/\mu/\mu) evel	50- 40- 30- 20- 10- 0.0- 2470	Results		2483.	.5 Frequency (MHz)		Table	Height		2500 Verdi		

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 and 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 0dBi 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:		SPEAKI	ER BOX/I	Parlante		T	est Mode:		Keep tra	nsmitting	
Mode		Keepir	ng Transm	nitting		Te	st Voltage		120	V~	
Temperature		2	24 deg. C,			ŀ	Humidity		56%	RH	
Test Result:			Pass				Detector		P	K	
dB Bandwidth			980kHz						_	-	
		Delta 1	[T1]		RI	ВW	30 k	Hz	RF Att	20 dB	
Ref Lvl				.23 dB	VI	∃W	100 k				
10 dBm		979	.959919	984 kHz	SI	T	8.5 m	s	Unit	dBn	n
10							v ₁	[T1]	-2	1.44 dBm	
				2					2.4015	4008 GHz	ľ
0				M.	Λ, ,		<u></u> 1	[T1]	_	0.23 dB	
					\vee	٧	▽ 2	[T1]	979.9599 -	1984 kHz 1.19 dBm	
-10				\mathcal{N}			١٨		2.4018	3277 GHz	
			1 /	~			Ψ,				
-20 -D1 -21.19	dBm-		No.				1				11
							\setminus)			
-40			~								
-50		\sim						Ì	V		
-60	<i>V</i>									mu	•
70											
-80											
Center 2.4	0.0 5	-		226	kHz/					an 3 MHz	

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Product:	SPEAKI	ER BOX/Pa	arlante		Test Mode:		Keep tra	ansmitting	
Mode	Keepir	ng Transmi	tting	,	Test Voltage	;	12	0V~	
Temperature		4 deg. C,			Humidity		569	% RH	
Test Result:		Pass			Detector]	PK	
20dB Bandwidth									
Ŕ	Delta	1 [T1]		RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl		-0.	09 dB	VBW	100 k	Hz			
10 dBm	98	5.971943	889 kHz	SWI	' 8.5 m	s U	nit	dBm	ı
10					v ₁	[T1]	-20	.33 dBm	
			2				2.44053	8407 GHz	A
0			<u></u>	Λ ,	<u>1</u>	[T1]	- (.09 dB	
				$\bigvee \bigvee$	∇_2	9: [T]]	85.97194 ,	1389 kHz	
-10			N		7,	[TT]	2.44088		İ
		1 1			\\ _1				
	9 dBm	 							
1MAX						١			1M
-30	~	مر				\ _			
	<i></i>								
-40	M.						<u></u>		
	/ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\					\lor	\		
-50	, <u>/</u>							<u>, , , , , , , , , , , , , , , , , , , </u>	
							'	11/1/lul	
-60									
-70									
-80									
-90									
Center 2.4	441 GHz		300	kHz/			Spa	an 3 MHz	

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Product:		SPEAKE	R BOX/Pa	arlante		Test Mode	e:]	Keep tra	nsmitting	
Mode			g Transmi			Test Voltag)V~	
Temperature			4 deg. C,			Humidity				6 RH	
Test Result:			Pass			Detector		PK			
0dB Bandwidth	1.004MHz									· -	
r)	Delta 1 [T1]					W 30	kHz	RF .	Att	20 dB	
Ref Lvl				29 dB	VBV						
10 dBm		1	.004008	802 MHz	SWT	г 8.5	ms	Uni	t	dBm	1
10						▼1	L [T1]		-21	.20 dBm	A
0				2				2.	. 47952	806 GHz	
				\sim	\wedge	^ 1	[T1]	7	0 00400.	.29 dB 802 MHz	
-10					V 1	∇_2	2 [T1]	1	.00400 -0	.89 dBm	
-10				\mathcal{N}_{ζ}		M.		2.	.47988	277 GHz	
-20 <u>D1 01</u>			لم <u>1</u>			$\sqrt{1}$					
D1 -21.	19 dBm		700			7	\				1M2
-30			\sim				V				
		ار استان br>استان استان اس					كر				
-40	\nearrow	~						\\\\	m		
-50	\									m,	
-60										Ч	
-70											
-80											
-90 Center 2	.48 GH	Z		300	kHz/				Spa	n 3 MHz	ļ
Date: 26					-,				21.0		

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I/4DQPSK Product:	SDEVAL	ER BOX/I	Parlante		Т	est Mode:		Keep tran	emitting	
Mode								120°		
		g Transm			_	est Voltage	56% RH			
Temperature Test Result:	24 deg. C,				_	Humidity Detector		20% PF		
	1	Pass								
0dB Bandwidth		.232MHz								
	Marker				BW	30 k		F Att	20 dB	
Ref Lvl 10 dBm	ndB BW 1	20. .232464	00 dB		BW	100 ki 8.5 m		nit	dBm	
10 dBiii	BW I	. 232404	193 MHZ	5	WT	8.5 111	S 01	1116	авп	. L 10
						\mathbf{v}_1	[T1]	-1	.31 dBm	2
			1					2.40188	277 GHz	
0			$\overline{\Lambda}$	Λ		ndB		20	.00 dB	
			/ \ _^ /	\		BW	[T1]	1.23246		
-10			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~~	\bigvee	V/ V/	<u> </u>	2.40140	.18 dBm	
						$ abla_{\mathrm{T}}$	[T1]	-21	.46 dBm	
-20	- 	<i>Y</i> .					F2 4	2.40264	028 GHz	
1MAX										11
-30							M			
-40	m						Į,	V	<u></u>	
-50 mil	V									
-60										
-70										
-80										
-90 Center 2.4				kHz/					ın 3 MHz	<u>J</u>

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I/4DQPSK					Ι _			Keep transmitting			
		R BOX/P				est Mode:					
Mode		g Transmi	tting			est Voltage	:		0V~		
Temperature	2	4 deg. C,]	Humidity		56% RH			
Test Result:		Pass			Detector			PK			
20dB Bandwidth	1.238MHz										
Ŕ	Marker	1 [T1 r	ndB]	F	BW	30 k	Hz RI	7 Att	20 dB		
Ref Lvl	ndB	20.	00 dB	J	BW	100 k					
10 dBm	BW	L.238476	95 MHz	S	WT	8.5 m	s Uı	nit	dBm	ı	
10						\mathbf{v}_1	[T1]	- C	.91 dBm	A	
			1					2.44087	675 GHz		
0			V	Λ		ndI	3	20	.00 dB		
			\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \		_	BW V		1.23847	695 MHz		
-10		~V	~ , o	~~	\overline{M}	V L V T	[T1]	-21 2.44040	.06 dBm 180 GHz		
						∇_{T}	[] [] [] [] [] [] [] [] [] [] [] [] [] [-21	.19 dBm		
-20	T	'					F2 1	2.44164	028 GHz		
1MAX										1M	
-30								400			
-40							***		~~~~ ~		
-50									300		
-60											
-70											
-80											
-90 Center 2.	441 GHz		300	kHz/				Spa	n 3 MHz		
Date: 26	.JUN.2024 16							-			

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T/4DQPSK	1					1		1			
Product:			ER BOX/P				Test Mode:			nsmitting	
Mode			g Transmi	tting			est Voltage	;		0V~	
Temperature		2	4 deg. C,				Humidity		56% RH		
Test Result:			Pass			Detector			I	PK	
20dB Bandwidth		1.226MHz									
Ŕ		Marker	1 [T1 r	ndB]	F	RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB	20.	.00 dB	7	'BW	100 k				
10 dBm		BW I	1.226452	291 MHz	S	TW	8.5 m	s U	nit	dBm	ı
10							v ₁	[T1]	- 0	.90 dBm	A
				1					2.47987	675 GHz	-
0				<u> </u>	\wedge		ndE	3	20	.00 dB	
							BW \		1.22645	291 MHz	
-10			~\\\			\ <u>\</u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	[T1]	2.47941	.66 dBm 383 GHz	
		_					V _T 1	[T1]	-21	.34 dBm	
-20			f				-	1 1	2.48064	028 GHz	
1MAX											1M2
-30		N						M			
-40	$\mathcal{M}_{\mathcal{M}}$	/							\mathcal{N}	~	
-50										~~	
-60											
-70											
-80											
-90											
Center 2	2.48 GHz	Z		300	kHz/				Spa	n 3 MHz	
Date: 2	6.JUN.2	024 16	5:29:27								

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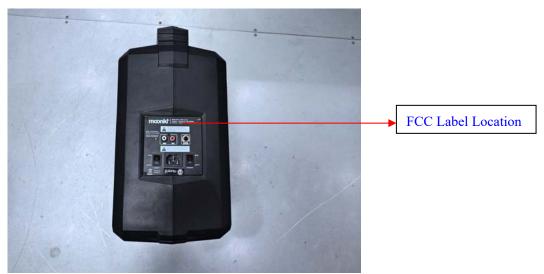
10.0 FCC ID Label

FCC ID: 2A6R4-MS-900B

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



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11.2 Photographs – EUT

Outside View





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Outside View





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Inside View





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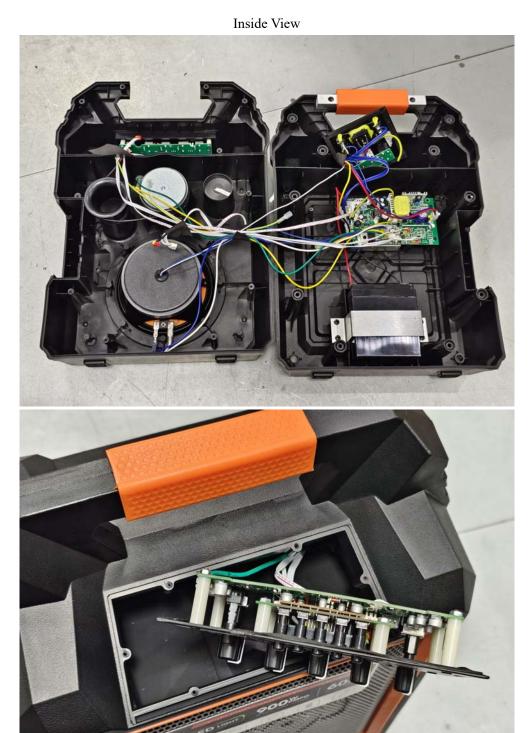
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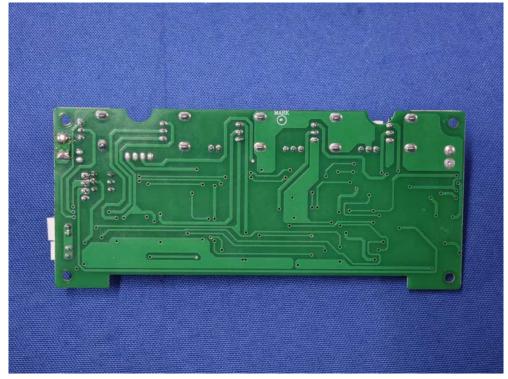
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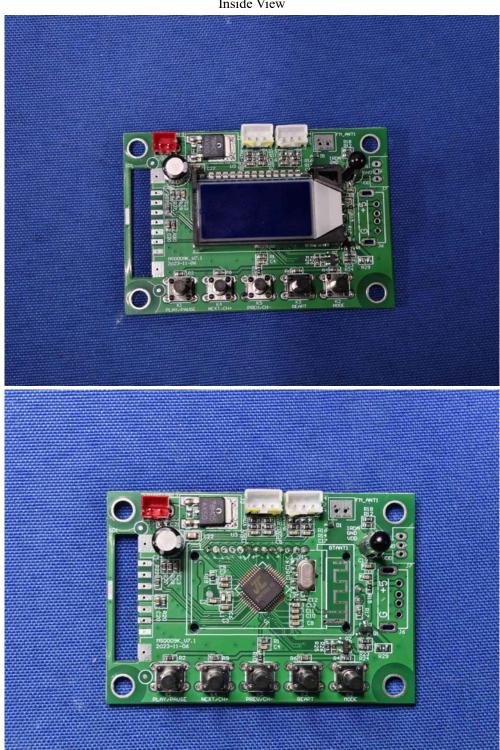
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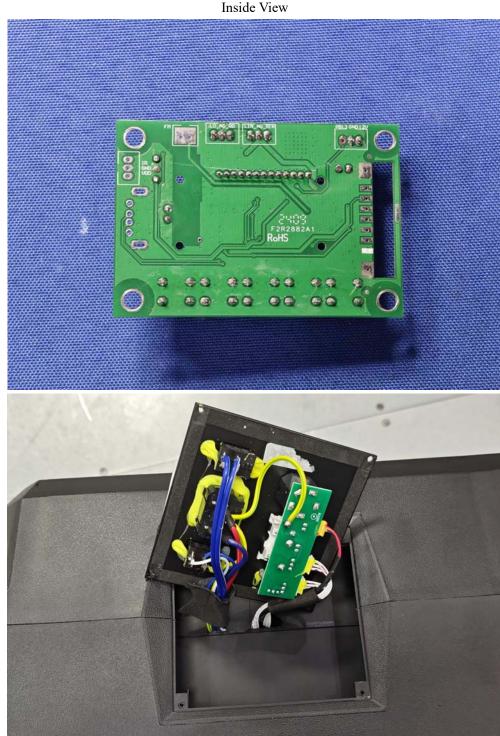
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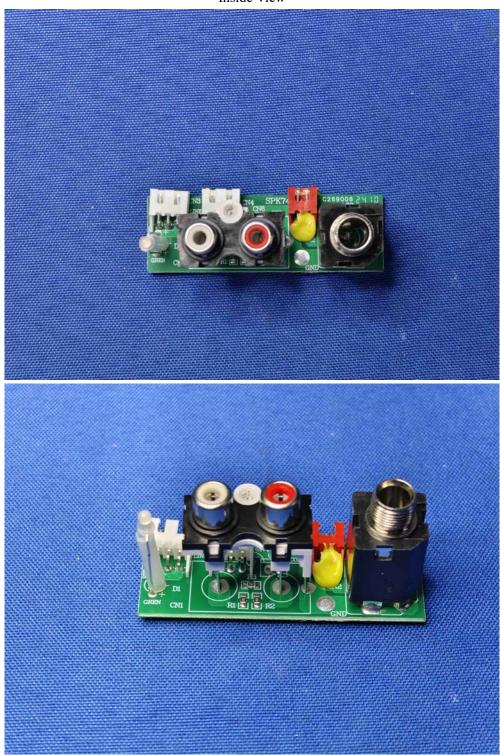
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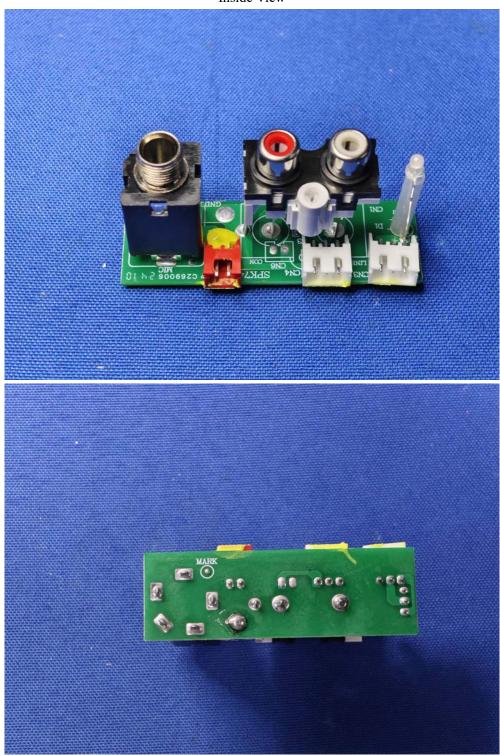
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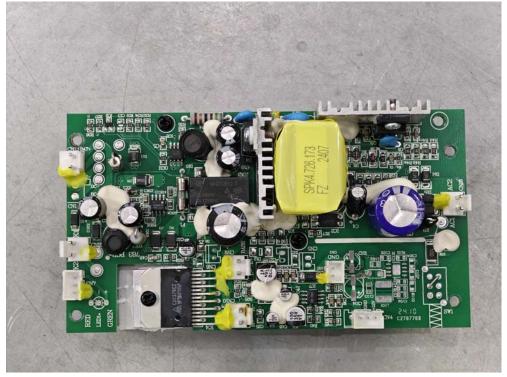
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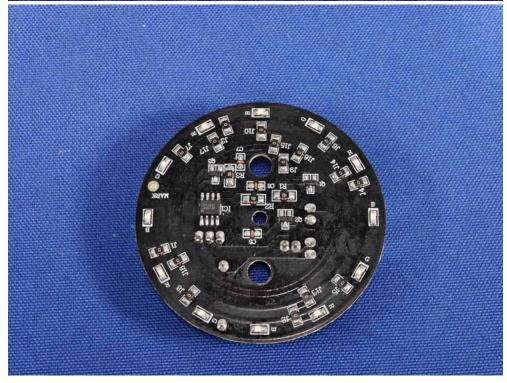
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Inside View



--End of the report--