



Report No.: TWN2507535E

Applicant: GUANGDONG WANSHENG SCIENCE AND TECHNOLOGY CO., LTD

Product: 2.0CH Soundbar

Model No.: LK-S819-4, LK-707-6, LK-S819, LK-S707-6, LK-S707

Trademark: VEVOR, Lark, Vaensong

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*

Terry Tang

Manager

Dated: July 24, 2025

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

**SHENZHEN TIMEWAY TESTING LABORATORIES**

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

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



## **Special Statement:**

### **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**

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## Test Report Conclusion

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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 States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: GUANGDONG WANSHENG SCIENCE AND TECHNOLOGY CO., LTD  
Address: BLOCK D NO.1 ECOLOGICAL INDUSTRIAL ZONE NEW DISTRICT FENGSHUN  
MEIZHOU CITY GUANGDONG PROVINCE CHINA

### 1.3 Description of EUT

Product:	2.0CH Soundbar
Manufacturer:	GUANGDONG WANSHENG SCIENCE AND TECHNOLOGY CO., LTD
Address:	BLOCK D NO.1 ECOLOGICAL INDUSTRIAL ZONE NEW DISTRICT FENGSHUN MEIZHOU CITY GUANGDONG PROVINCE CHINA
Trademark:	VEVOR, Lark, Vaensong
Model Number:	LK-S819-4
Additional Model Name	LK-707-6, LK-S819, LK-S707-6, LK-S707
Rating:	Input: 110-240V~, 50/60Hz, 15W
Serial No.:	V5.3
Hardware Version:	V1.0
Software Version:	LK-S810-9WS1000001
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1MHz
Antenna Designation	PCB antenna with gain -0.68dBi maximum (Get from the antenna specification)

### 1.4 Submitted Sample: 2 Samples

### 1.5 Test Duration

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2025-07-13 to 2025-07-24

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

*Andy Xing*

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	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2022-07-18 2025-07-17	2025-07-17 2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18 2025-07-17	2025-07-17 2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18 2025-07-17	2025-07-17 2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18 2025-07-17	2025-07-17 2028-07-16
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2025-07-11	2026-07-10
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11	2026-07-10
RF Cable	Zhengdi	7m	--	2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
ESPI Test Receiver	R&S	ESPI 3	100379	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

## 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	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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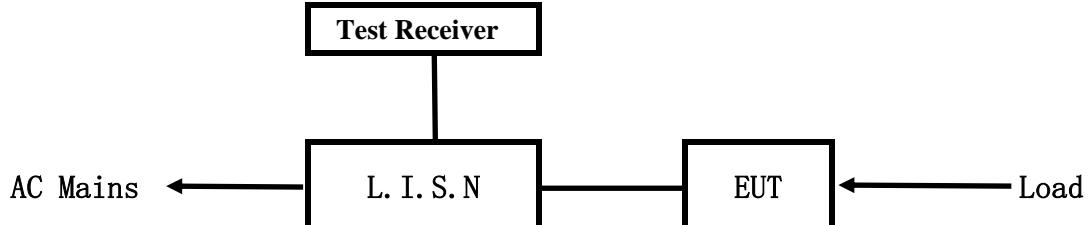
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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test



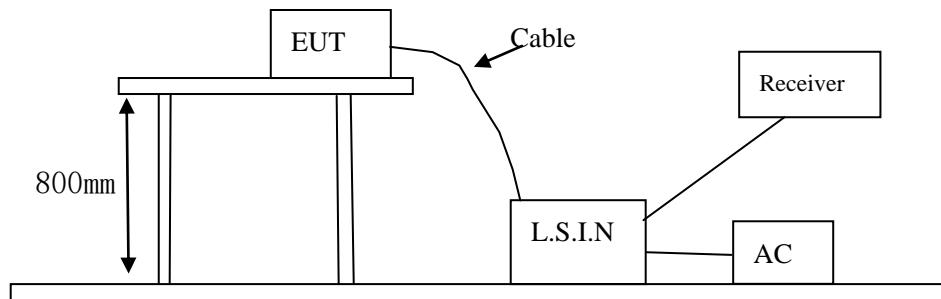
EUT: Equipment Under Test

### 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.

#### A. EUT

Device	Manufacturer	Model	FCC ID
2.0CH Soundbar	GUANGDONG WANSHENG SCIENCE AND TECHNOLOGY CO., LTD	LK-S819-4, LK-707-6, LK-S819, LK-S707-6, LK-S707	2BQIS-LK-S819-4

#### 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 (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 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)**

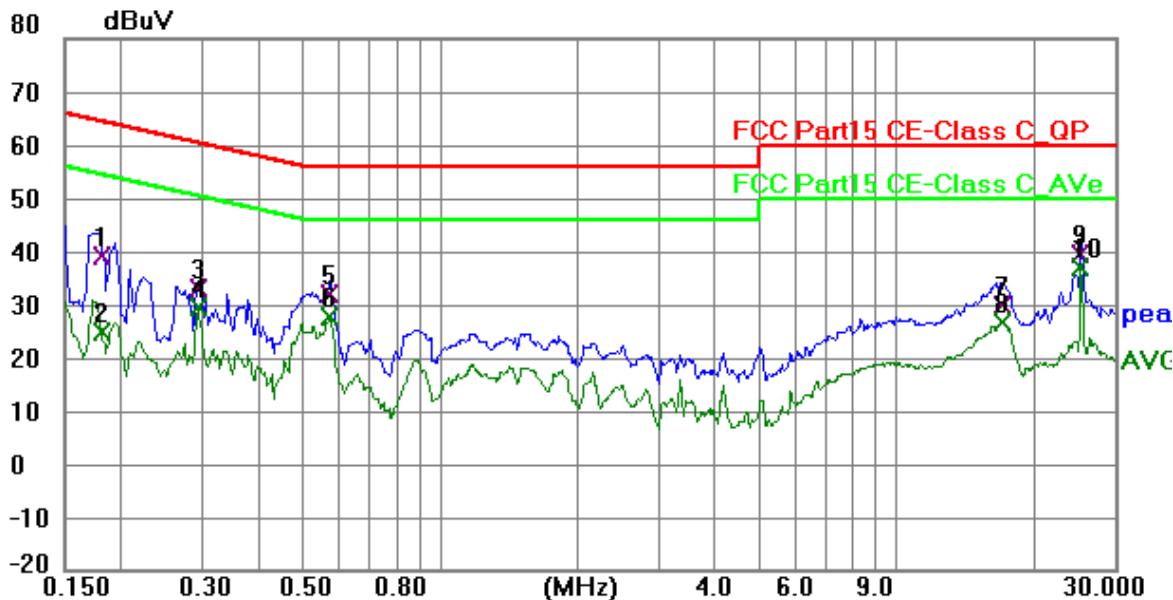
**EUT Operating Environment**

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	0.1812	28.66	10.33	38.99	64.43	-25.44	QP	P
2	0.1812	14.45	10.33	24.78	54.43	-29.65	AVG	P
3	0.2943	22.65	10.35	33.00	60.40	-27.40	QP	P
4	0.2943	19.10	10.35	29.45	50.40	-20.95	AVG	P
5	0.5712	21.51	10.42	31.93	56.00	-24.07	QP	P
6	0.5712	17.18	10.42	27.60	46.00	-18.40	AVG	P
7	17.0439	14.23	15.67	29.90	60.00	-30.10	QP	P
8	17.0439	11.01	15.67	26.68	50.00	-23.32	AVG	P
9	25.2300	24.23	15.29	39.52	60.00	-20.48	QP	P
10	25.2300	21.59	15.29	36.88	50.00	-13.12	AVG	P

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

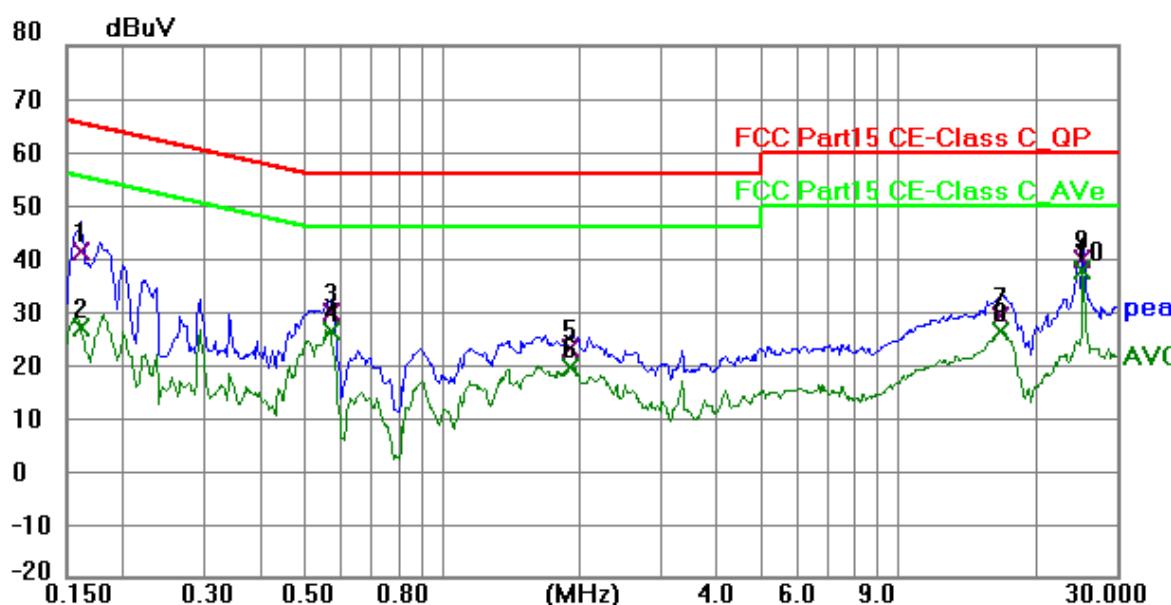
### EUT Operating Environment

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	0.1617	30.87	10.34	41.21	65.38	-24.17	QP	P
2	0.1617	16.64	10.34	26.98	55.38	-28.40	AVG	P
3	0.5673	19.55	10.42	29.97	56.00	-26.03	QP	P
4	0.5673	15.88	10.42	26.30	46.00	-19.70	AVG	P
5	1.9011	11.64	11.24	22.88	56.00	-33.12	QP	P
6	1.9011	8.27	11.24	19.51	46.00	-26.49	AVG	P
7	16.7202	13.64	15.58	29.22	60.00	-30.78	QP	P
8	16.7202	10.73	15.58	26.31	50.00	-23.69	AVG	P
9	25.2300	24.60	15.29	39.89	60.00	-20.11	QP	P
10	25.2300	22.25	15.29	37.54	50.00	-12.46	AVG	P

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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:

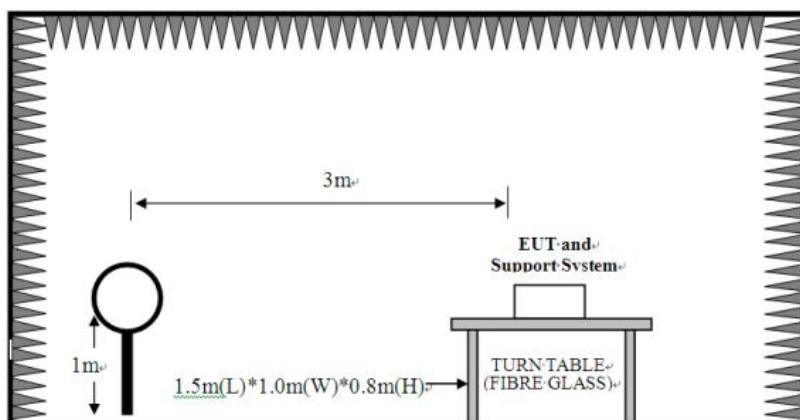
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

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

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

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



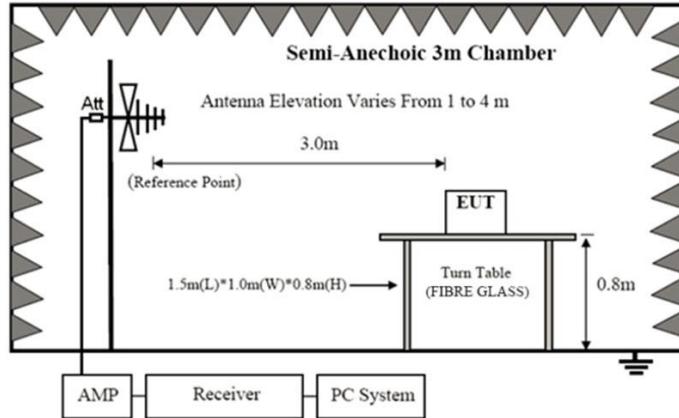
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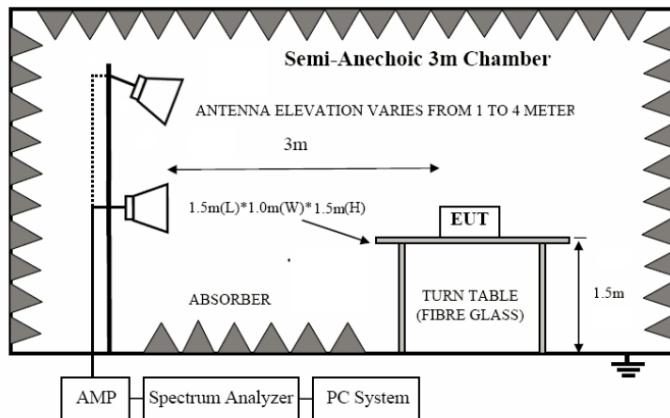
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For radiated emissions from 30MHz to 1GHz



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:

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 § 15.209, whichever is the lesser attenuation.

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

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

Note: 1. RF Field Strength (dBuV) =  $20 \log_{10} \text{RF Voltage (uV)}$

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

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

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

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	$20\log_{10}(2400/F(\text{kHz})) + 40\log_{10}(300/3)$
0.490-1.705	3	$20\log_{10}(24000/F(\text{kHz})) + 40\log_{10}(30/3)$
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) =  $20 \log_{10} \text{RF Voltage (uV)}$

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 three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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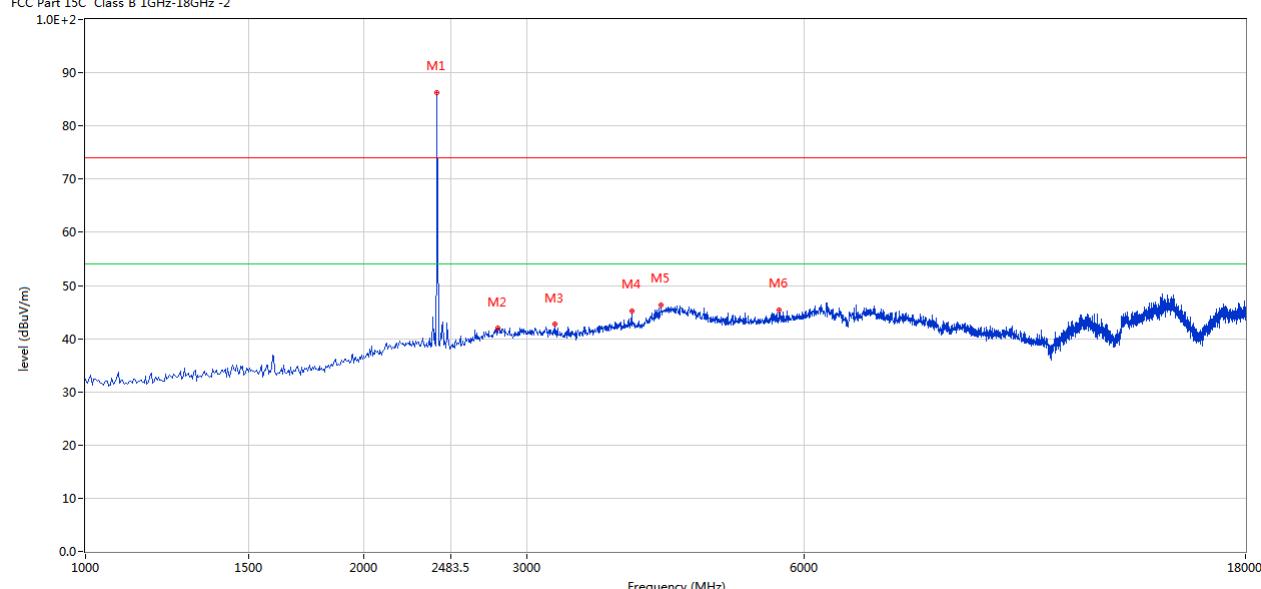
## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	86.32	-3.57	114.0	-27.68	Peak	288.00	100	Horizontal	Pass
2	2797.301	41.91	-2.70	74.0	-32.09	Peak	141.00	100	Horizontal	Pass
3	3222.194	42.68	-2.00	74.0	-31.32	Peak	115.00	100	Horizontal	Pass
4	3897.776	45.19	0.80	74.0	-28.81	Peak	5.00	100	Horizontal	Pass
5	4195.201	46.36	1.59	74.0	-27.64	Peak	167.00	100	Horizontal	Pass
6	5631.342	45.39	3.89	74.0	-28.61	Peak	200.00	100	Horizontal	Pass

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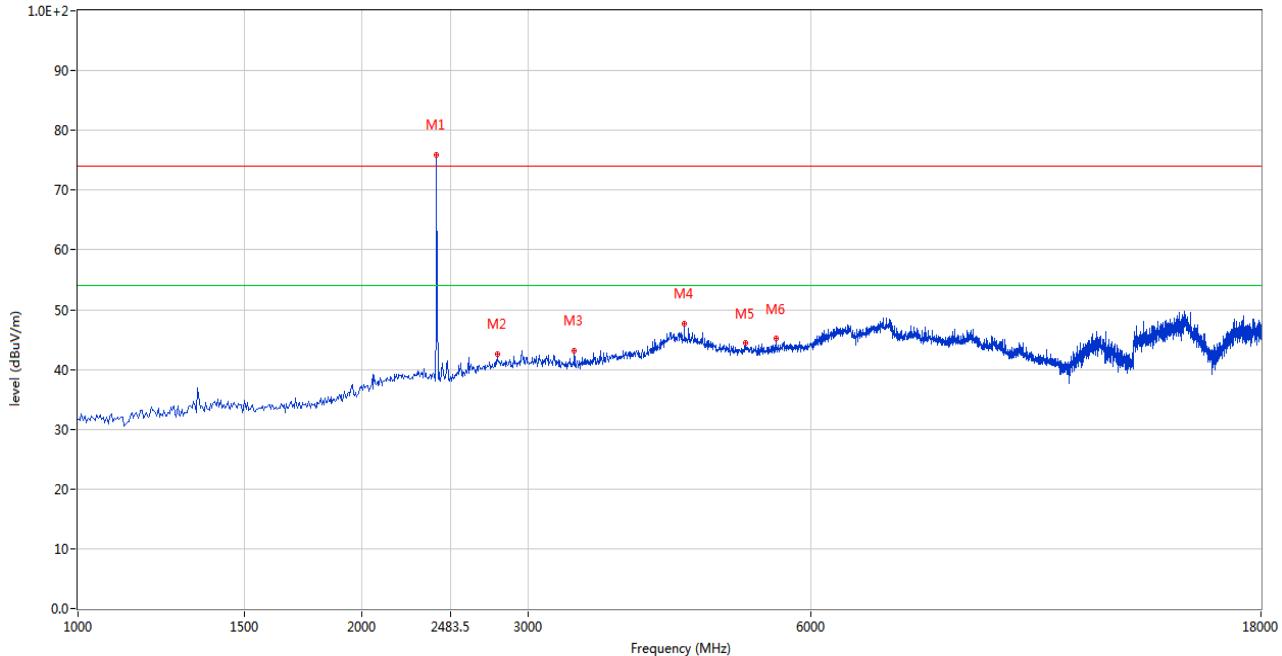
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## Vertical

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No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	75.93	-3.57	114.0	-38.07	Peak	61.00	100	Vertical	Pass
2	2784.554	42.52	-2.74	74.0	-31.48	Peak	99.00	100	Vertical	Pass
3	3362.409	43.17	-1.91	74.0	-30.83	Peak	4.00	100	Vertical	Pass
4	4399.150	47.66	2.00	74.0	-26.34	Peak	180.00	100	Vertical	Pass
5	5104.474	44.38	3.81	74.0	-29.62	Peak	0.00	100	Vertical	Pass
6	5499.625	45.18	3.91	74.0	-28.82	Peak	126.00	100	Vertical	Pass

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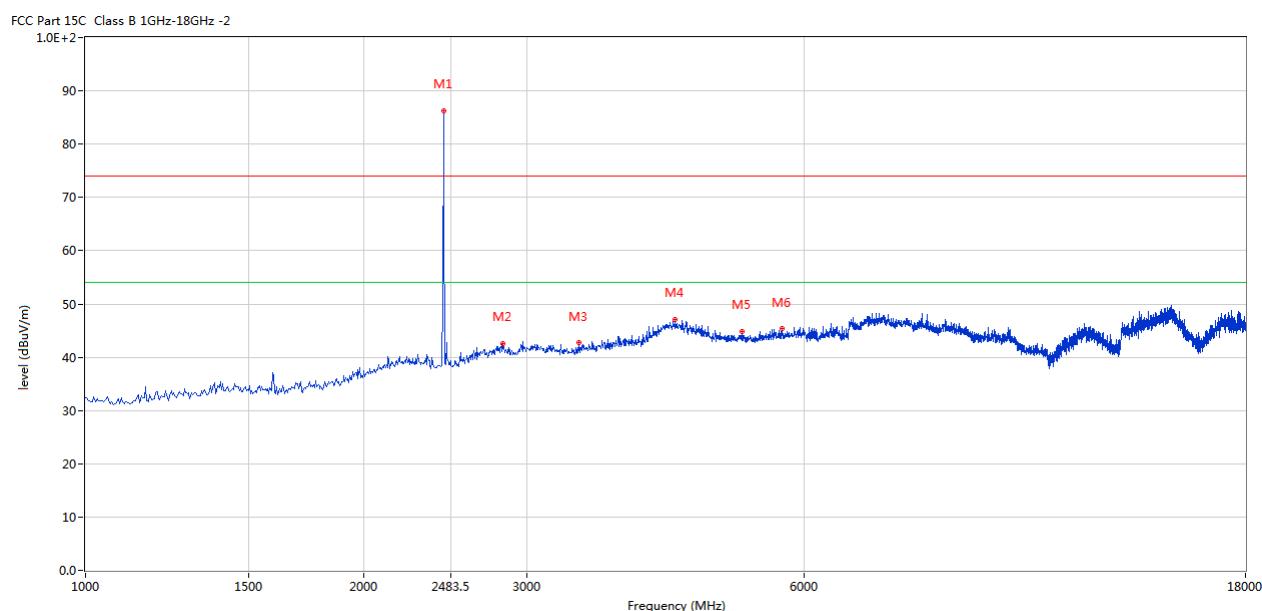
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Please refer to the following test plots for details: Middle Channel-2441MHz

### Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	86.25	-3.57	114.0	-27.75	Peak	125.00	100	Horizontal	Pass
2	2831.292	42.48	-2.69	74.0	-31.52	Peak	339.00	100	Horizontal	Pass
3	3417.646	42.78	-1.67	74.0	-31.22	Peak	95.00	100	Horizontal	Pass
4	4343.914	47.17	1.91	74.0	-26.83	Peak	213.00	100	Horizontal	Pass
5	5129.968	44.80	3.76	74.0	-29.20	Peak	360.00	100	Horizontal	Pass
6	5678.080	45.33	3.85	74.0	-28.67	Peak	323.00	100	Horizontal	Pass

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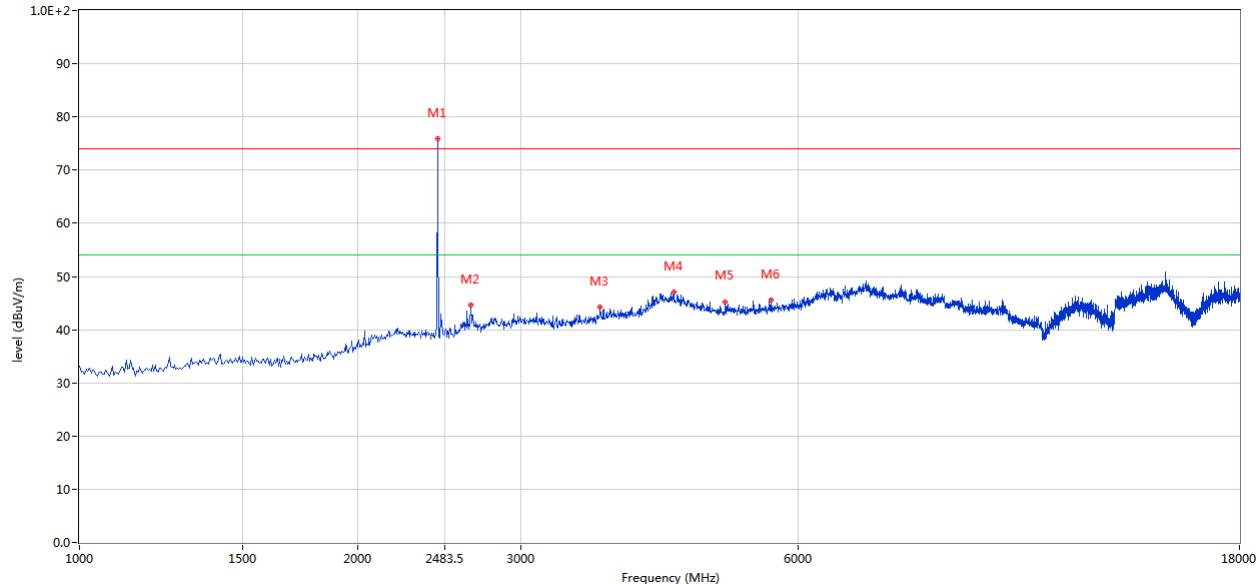
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	75.82	-3.57	114.0	-38.18	Peak	327.00	100	Vertical	Pass
2	2648.588	44.64	-3.15	74.0	-29.36	Peak	16.00	100	Vertical	Pass
3	3659.835	44.19	-0.38	74.0	-29.81	Peak	120.00	100	Vertical	Pass
4	4394.901	47.07	1.99	74.0	-26.93	Peak	177.00	100	Vertical	Pass
5	4998.250	45.17	3.45	74.0	-28.83	Peak	244.00	100	Vertical	Pass
6	5597.351	45.53	3.93	74.0	-28.47	Peak	11.00	100	Vertical	Pass

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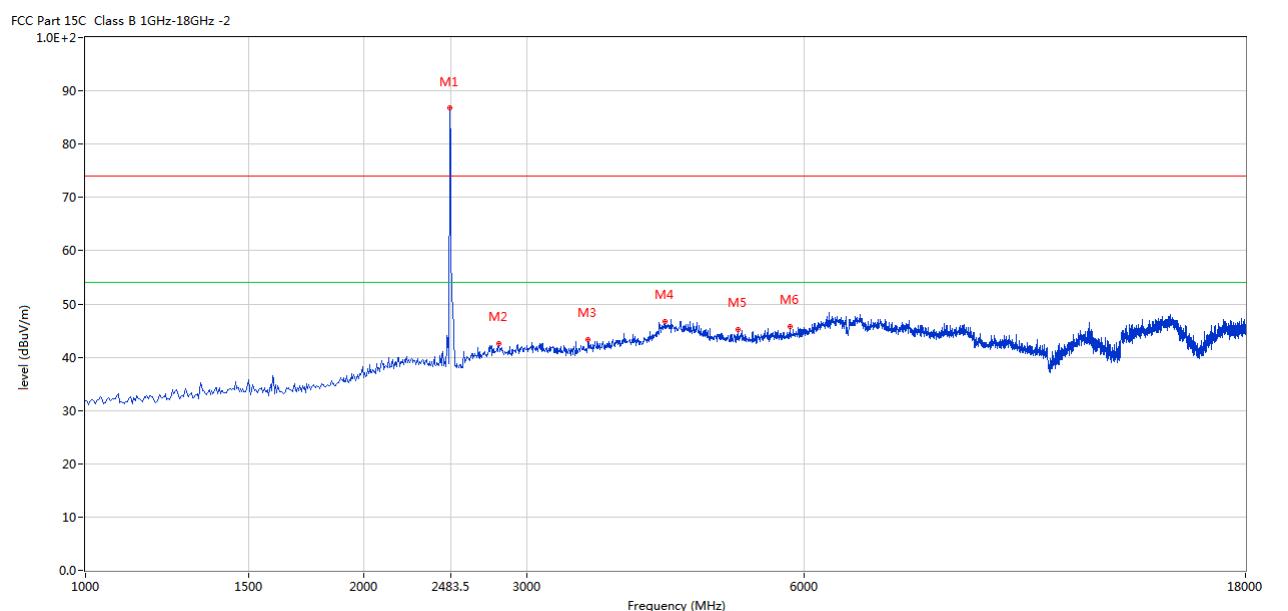
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Please refer to the following test plots for details: High Channel-2480MHz

### Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	86.78	-3.57	114.0	-27.22	Peak	129.00	100	Horizontal	Pass
2	2801.550	42.48	-2.70	74.0	-31.52	Peak	1.00	100	Horizontal	Pass
3	3498.375	43.32	-1.10	74.0	-30.68	Peak	140.00	100	Horizontal	Pass
4	4237.691	46.72	1.69	74.0	-27.28	Peak	167.00	100	Horizontal	Pass
5	5083.229	45.18	3.75	74.0	-28.82	Peak	20.00	100	Horizontal	Pass
6	5784.304	45.70	3.83	74.0	-28.30	Peak	225.00	100	Horizontal	Pass

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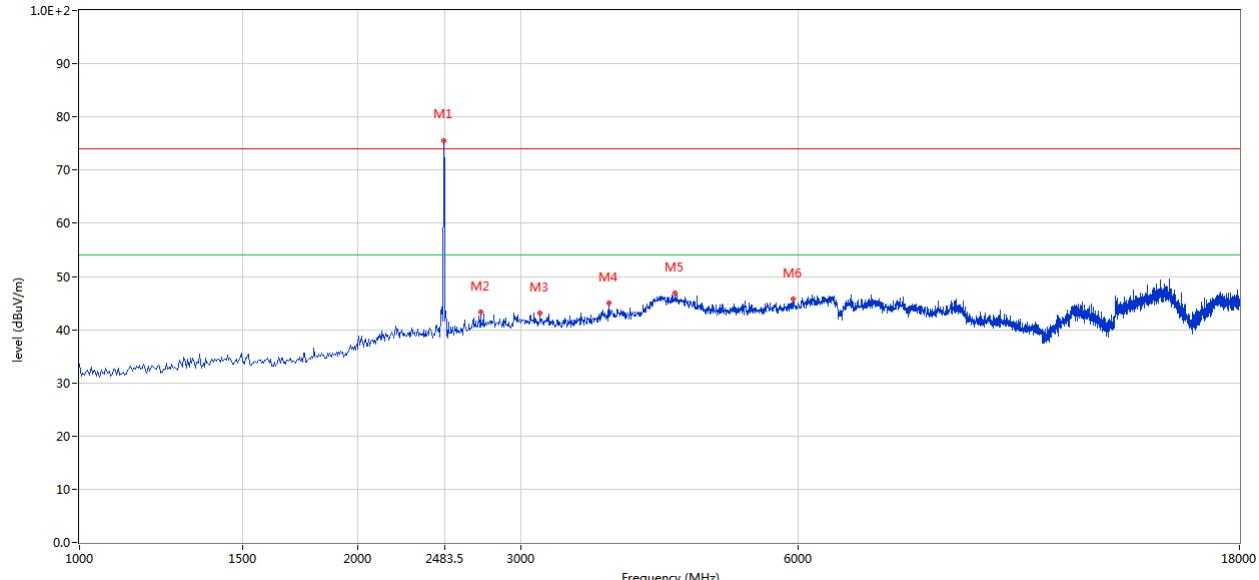
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	75.58	-3.57	114.0	-38.42	Peak	69.00	100	Vertical	Pass
2	2716.571	43.35	-2.92	74.0	-30.65	Peak	17.00	100	Vertical	Pass
3	3149.963	43.09	-2.08	74.0	-30.91	Peak	100.00	100	Vertical	Pass
4	3744.814	44.94	0.01	74.0	-29.06	Peak	90.00	100	Vertical	Pass
5	4411.897	46.88	2.02	74.0	-27.12	Peak	315.00	100	Vertical	Pass
6	5920.270	45.80	3.81	74.0	-28.20	Peak	332.00	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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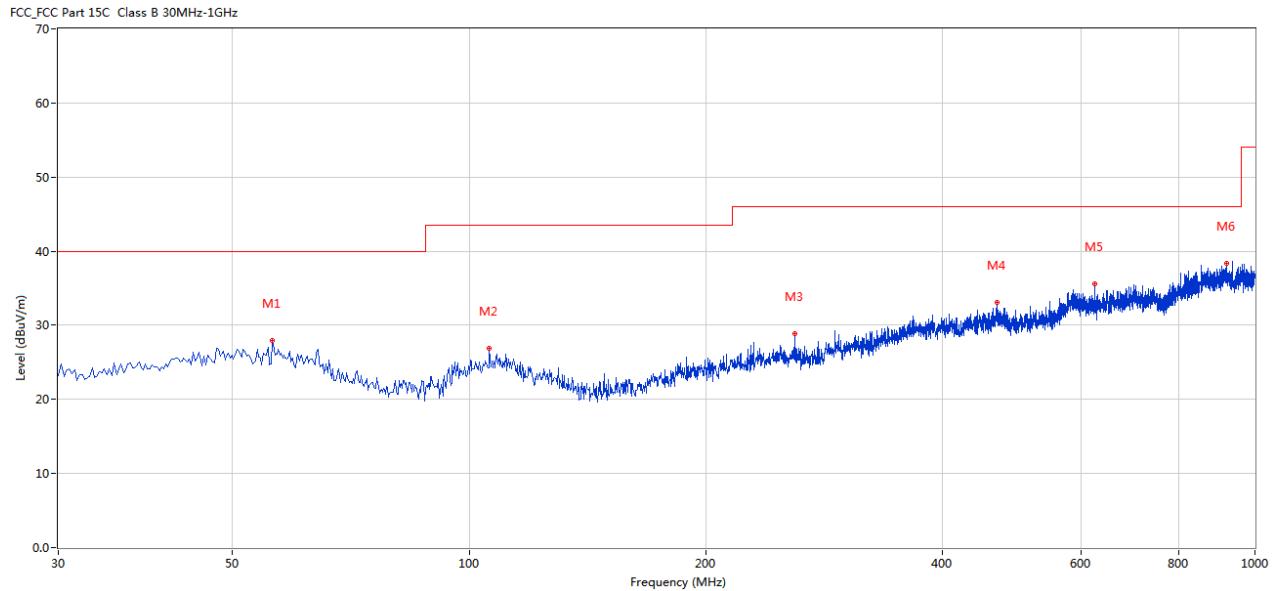
## B. General Radiated Emission Data

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

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	56.183	27.96	-5.04	40.0	12.04	Peak	65.00	100	Horizontal	Pass
2	106.126	26.88	-6.16	43.5	16.62	Peak	85.00	100	Horizontal	Pass
3	259.833	28.88	-4.77	46.0	17.12	Peak	70.00	100	Horizontal	Pass
4	470.027	33.13	-0.10	46.0	12.87	Peak	360.00	100	Horizontal	Pass
5	625.674	35.64	1.44	46.0	10.36	Peak	360.00	100	Horizontal	Pass
6	919.025	38.39	5.39	46.0	7.61	Peak	143.00	100	Horizontal	Pass

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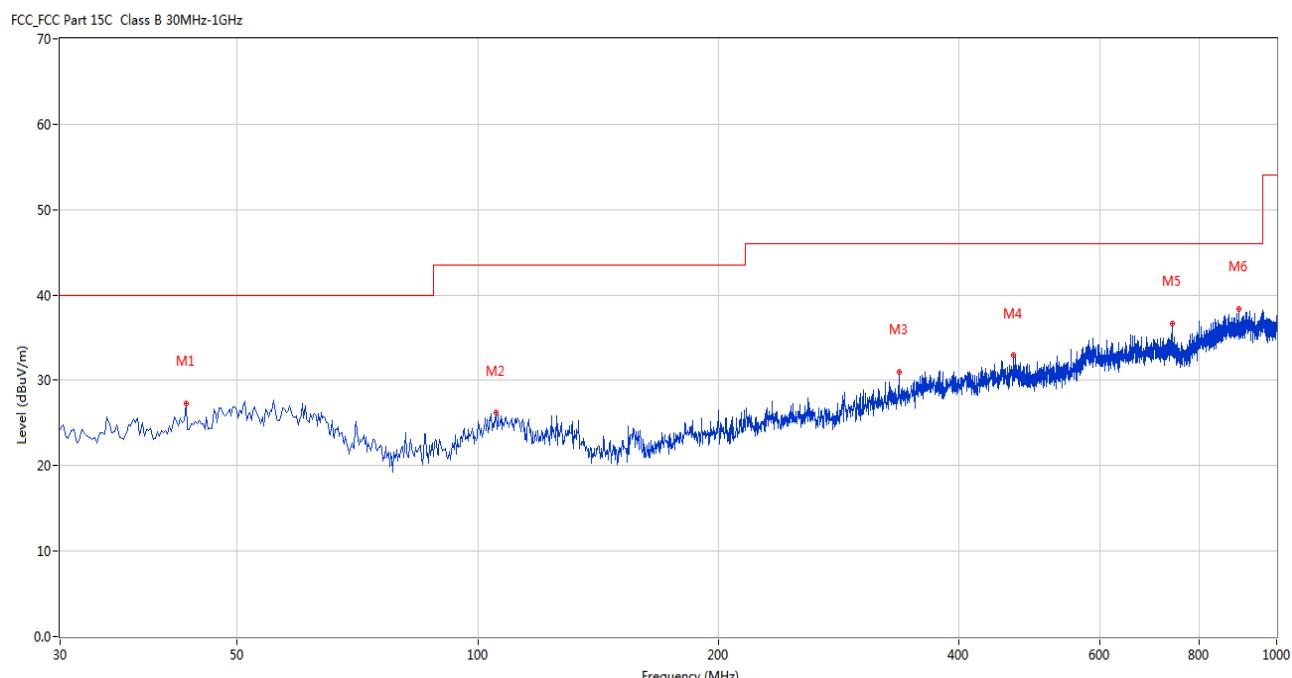


### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.092	27.34	-5.93	40.0	12.66	Peak	1.00	100	Vertical	Pass
2	105.399	26.17	-6.18	43.5	17.33	Peak	334.00	100	Vertical	Pass
3	336.686	30.96	-3.12	46.0	15.04	Peak	111.00	100	Vertical	Pass
4	468.815	32.90	-0.10	46.0	13.10	Peak	287.00	100	Vertical	Pass
5	739.863	36.71	2.54	46.0	9.29	Peak	70.00	100	Vertical	Pass
6	897.448	38.32	4.86	46.0	7.68	Peak	264.00	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:	2.0CH Soundbar	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.982	85.98	-3.57	74.0	11.98	Peak	130.00	100	Horizontal	N/A
2	2400.000	62.68	-3.57	74.0	-11.32	Peak	121.00	100	Horizontal	Pass
2**	2400.000	47.91	-3.57	54.0	-6.09	AV	121.00	100	Horizontal	Pass
3	2390.000	38.26	-3.53	74.0	-35.74	Peak	135.50	100	Horizontal	Pass
4	2377.958	45.98	-3.48	74.0	-28.02	Peak	136.00	100	Horizontal	Pass

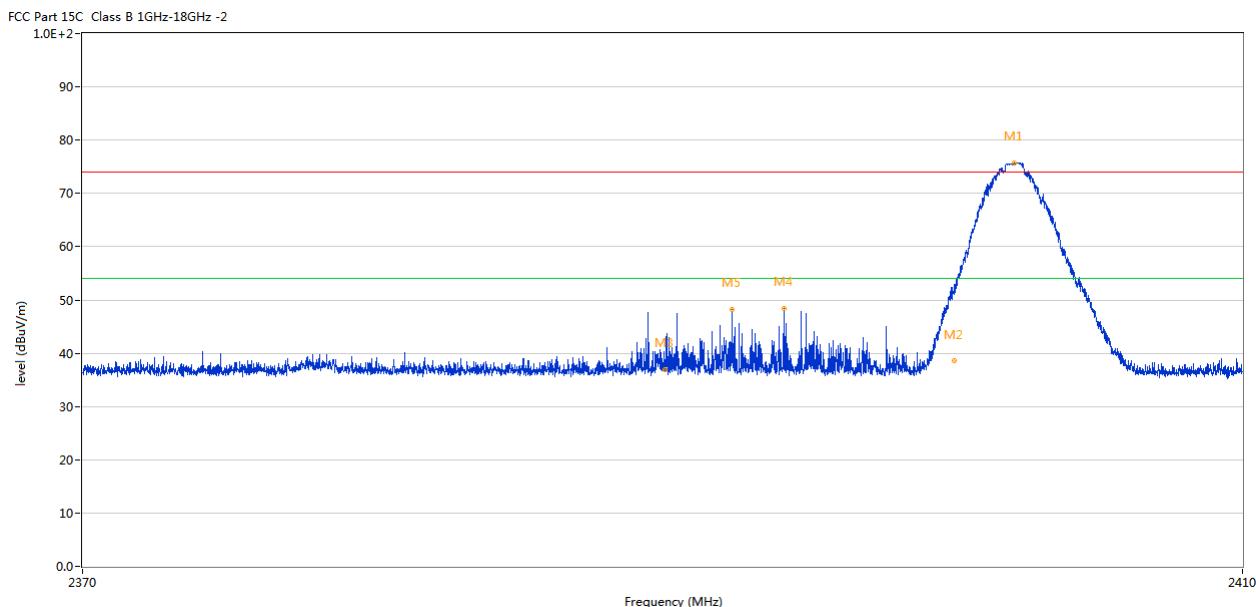
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Product:	2.0CH Soundbar	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.062	75.80	-3.57	74.0	1.80	Peak	330.00	100	Vertical	N/A
2	2400.000	52.62	-3.57	74.0	-21.38	Peak	72.11	100	Vertical	Pass
2**	2400.000	38.53	-3.57	54.0	-15.47	AV	72.11	100	Vertical	Pass
3	2390.000	36.92	-3.53	74.0	-37.08	Peak	334.50	100	Vertical	Pass
4	2394.104	48.43	-3.55	74.0	-25.57	Peak	330.00	100	Vertical	Pass
5	2392.314	48.30	-3.54	74.0	-25.70	Peak	335.00	100	Vertical	Pass

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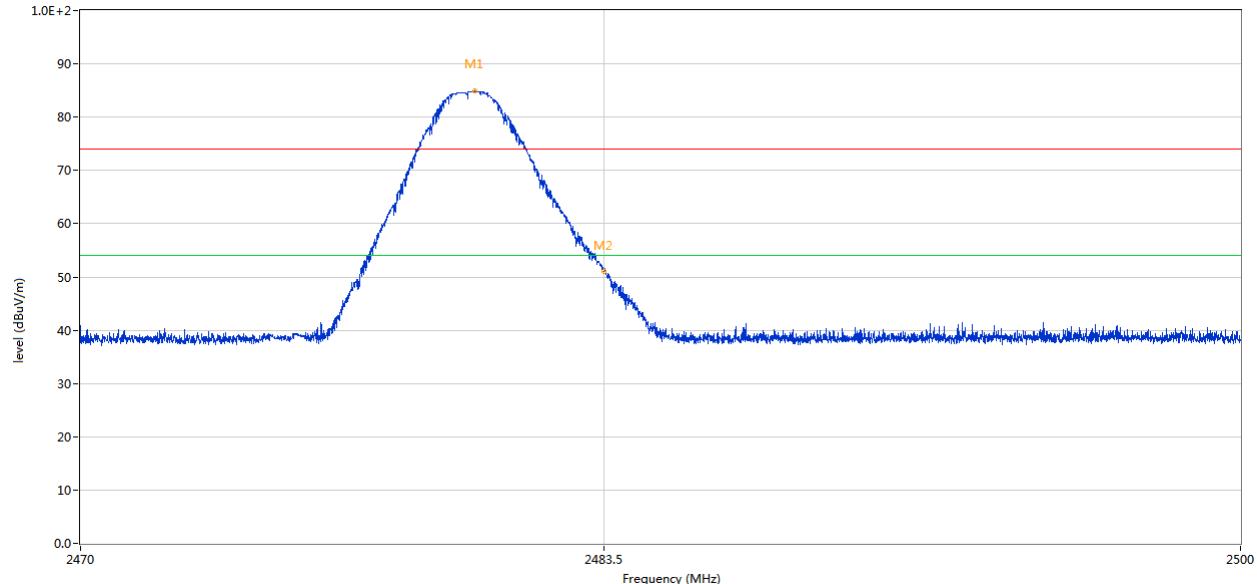
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Product:	2.0CH Soundbar	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.167	84.84	-3.57	74.0	10.84	Peak	129.00	100	Horizontal	N/A
2	2483.500	51.08	-3.57	74.0	-22.92	Peak	133.57	100	Horizontal	Pass

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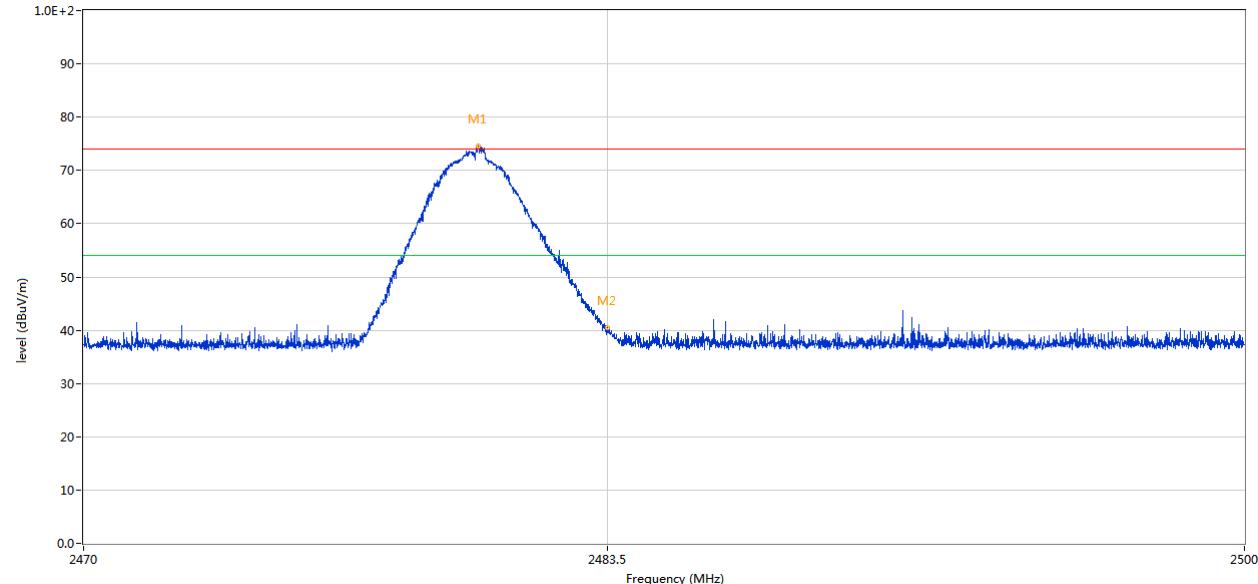
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Product:	2.0CH Soundbar	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.160	74.60	-3.57	74.0	0.60	Peak	132.00	100	Vertical	N/A
2	2483.500	40.52	-3.57	74.0	-33.48	Peak	314.57	100	Vertical	Pass

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

2. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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## 8.0 Antenna Requirement

### Applicable Standard

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

This product has a PCB antenna with gain -0.68dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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

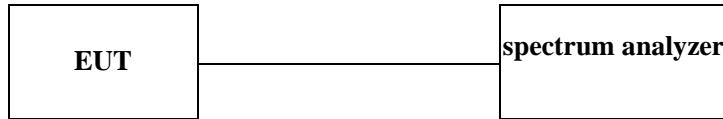
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## 9.0 20dB Bandwidth Measurement

### 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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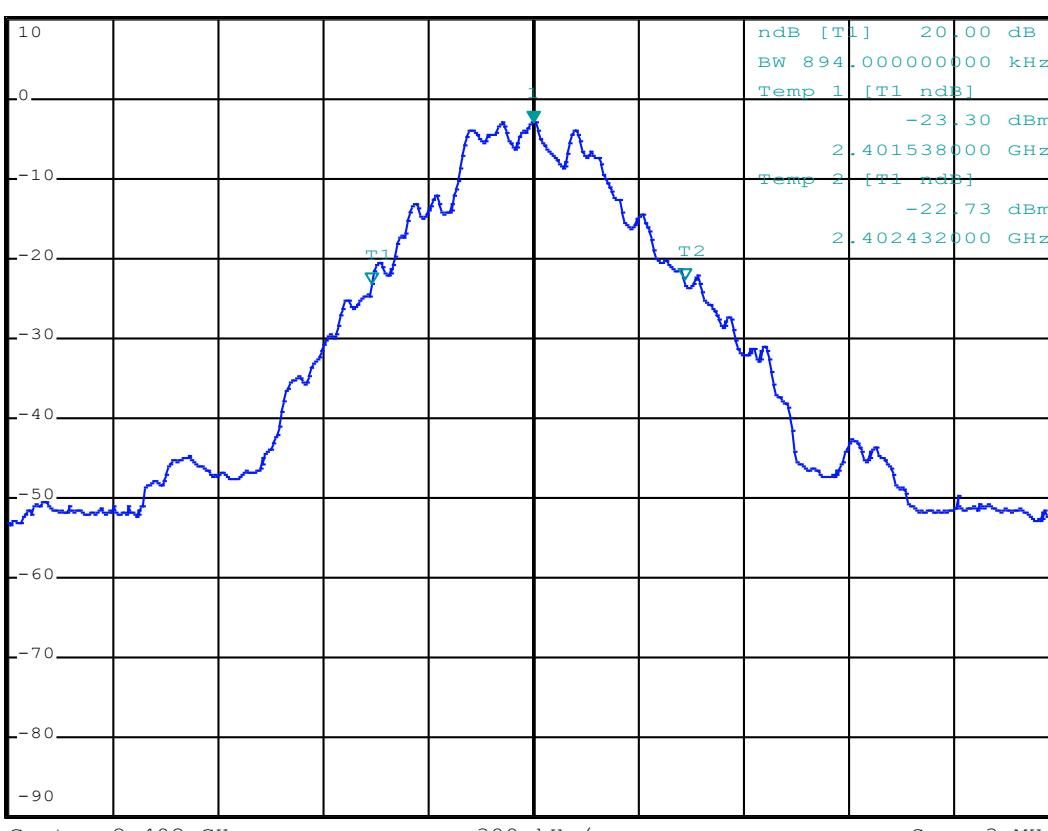
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## Test Result

<b>GFSK</b>			
Product:	2.0CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	894kHz	--	--

Ref 10 dBm      \* Att 20 dB      SWT 5 ms      \* RBW 30 kHz      Marker 1 [T1] -2.97 dBm  
\* VBW 100 kHz      2.402000000 GHz



1 PK  
MAXH

3DB

ndB [T1] 20.00 dB  
BW 894.000000000 kHz  
Temp 1 [T1 ndB] -23.30 dBm  
2.401538000 GHz  
Temp 2 [T1 ndB] -22.73 dBm  
2.402432000 GHz

Center 2.402 GHz      Span 3 MHz

Date: 16.JUL.2025 11:04:12

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

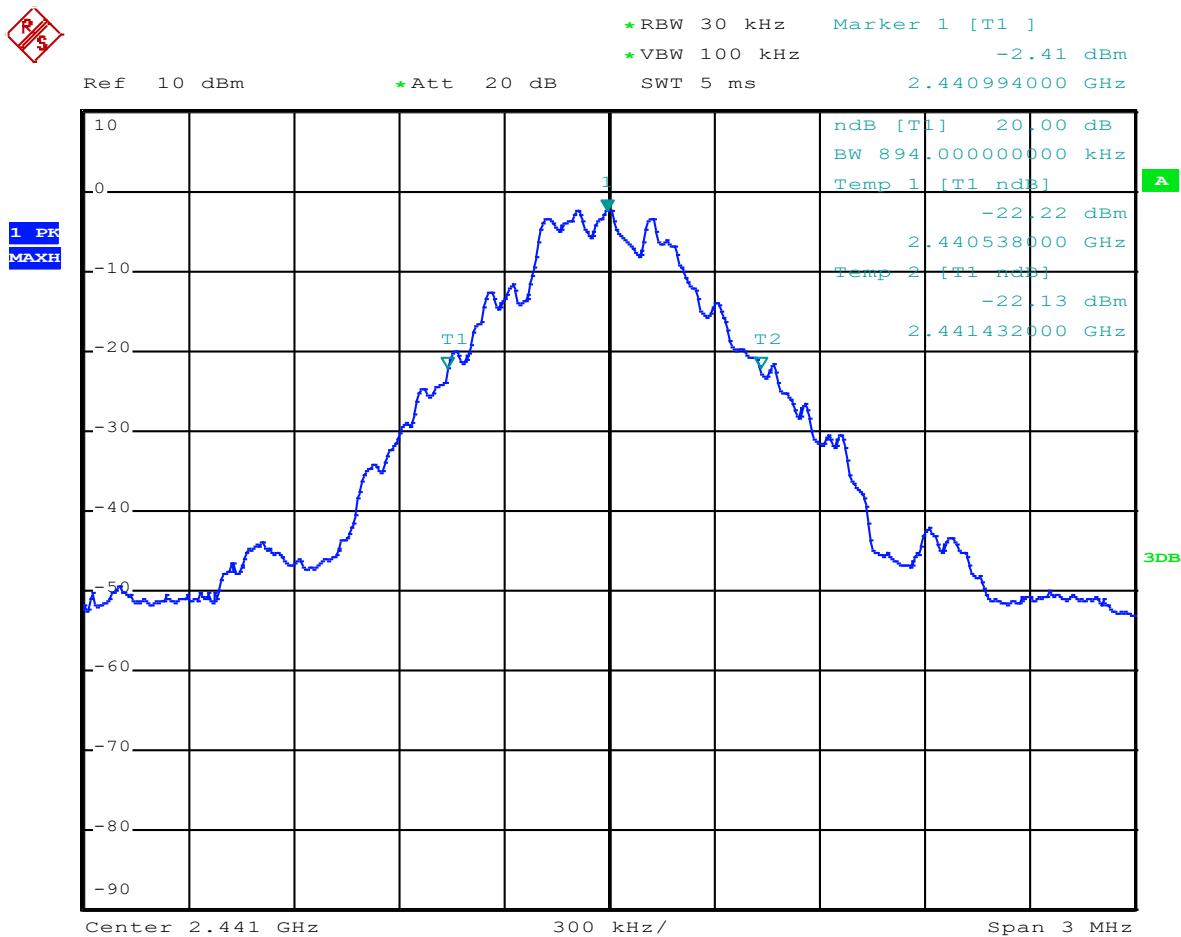
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**GFSK**

Product:	2.0CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	894kHz	--	--



Date: 16.JUL.2025 11:06:34

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

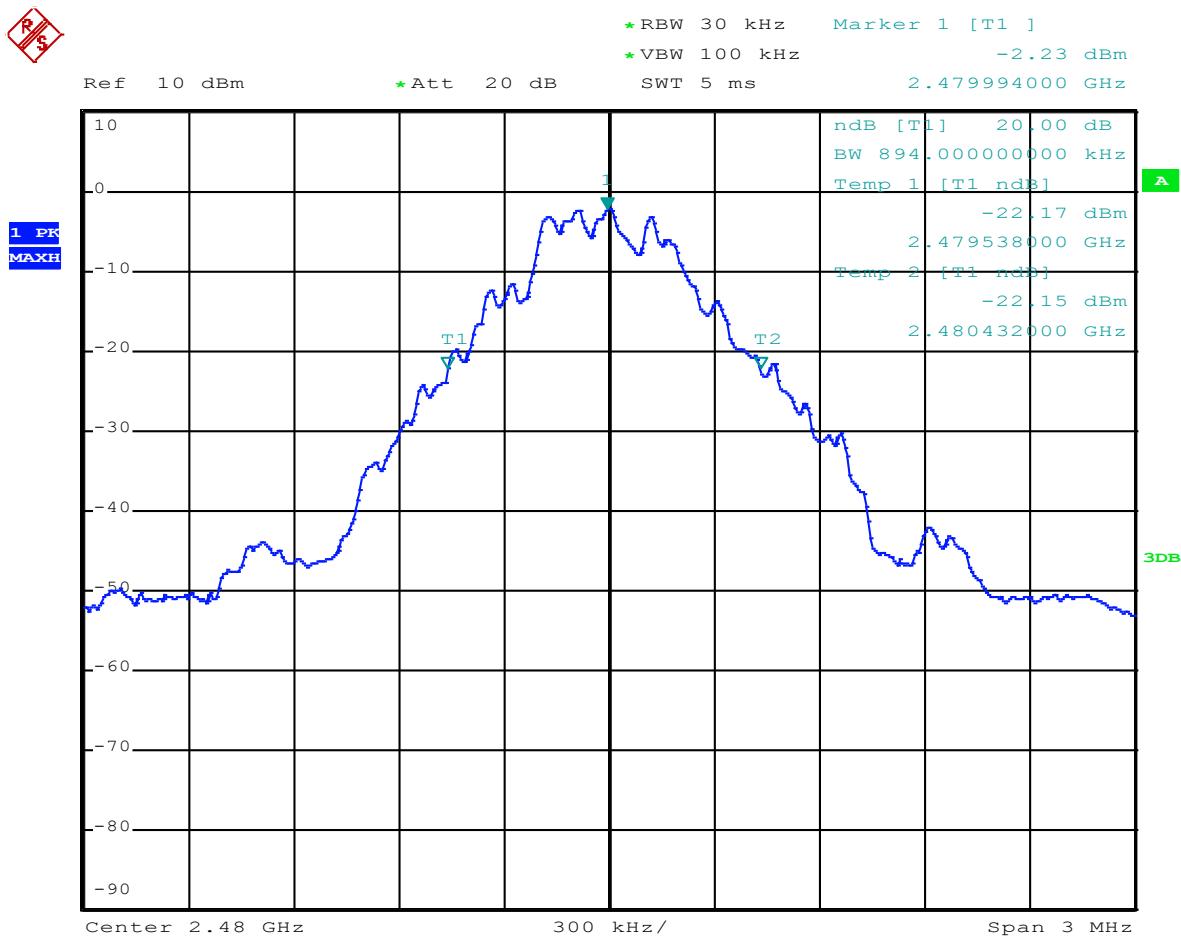
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**GFSK**

Product:	2.0CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	894kHz	--	--



Date: 16.JUL.2025 11:09:02

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

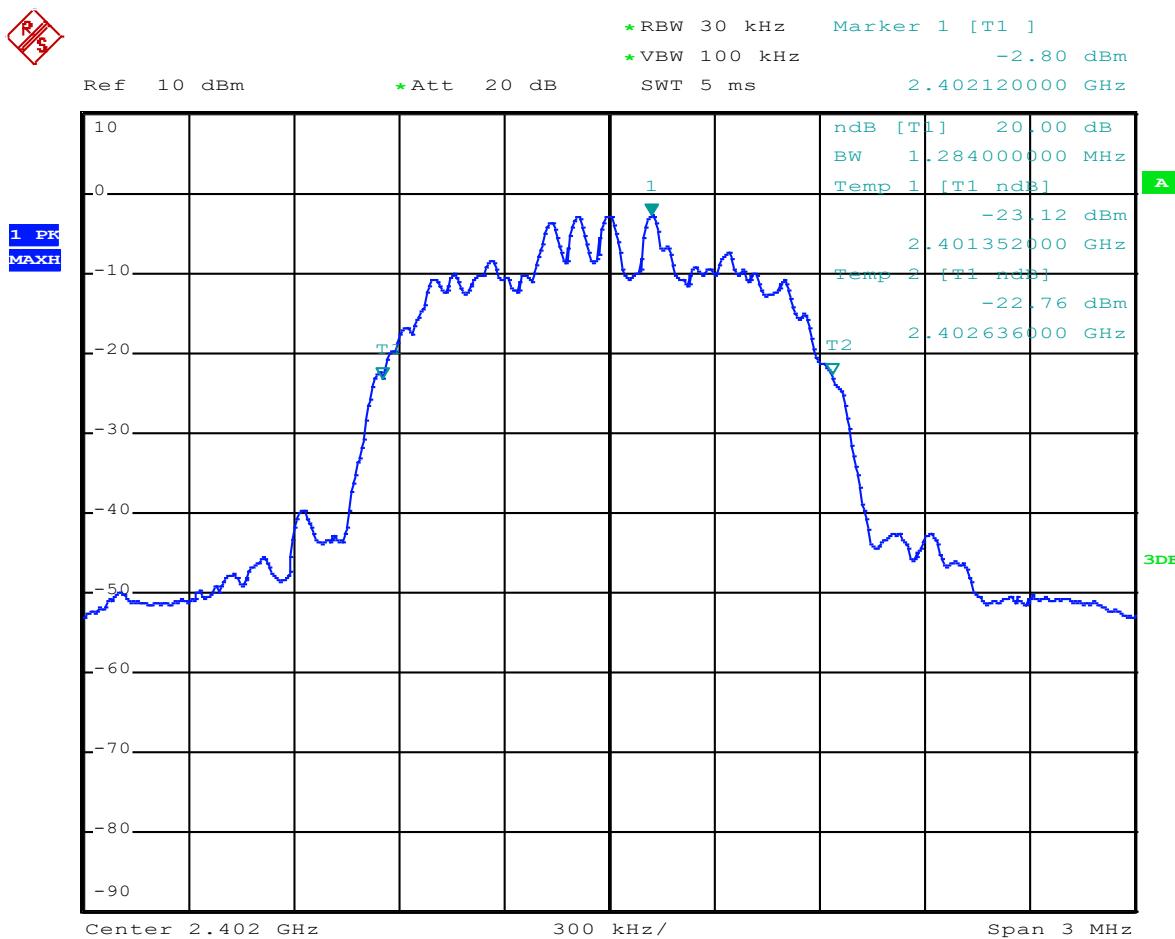
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Π/4DQPSK

Product:	2.0CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.284MHz	--	--

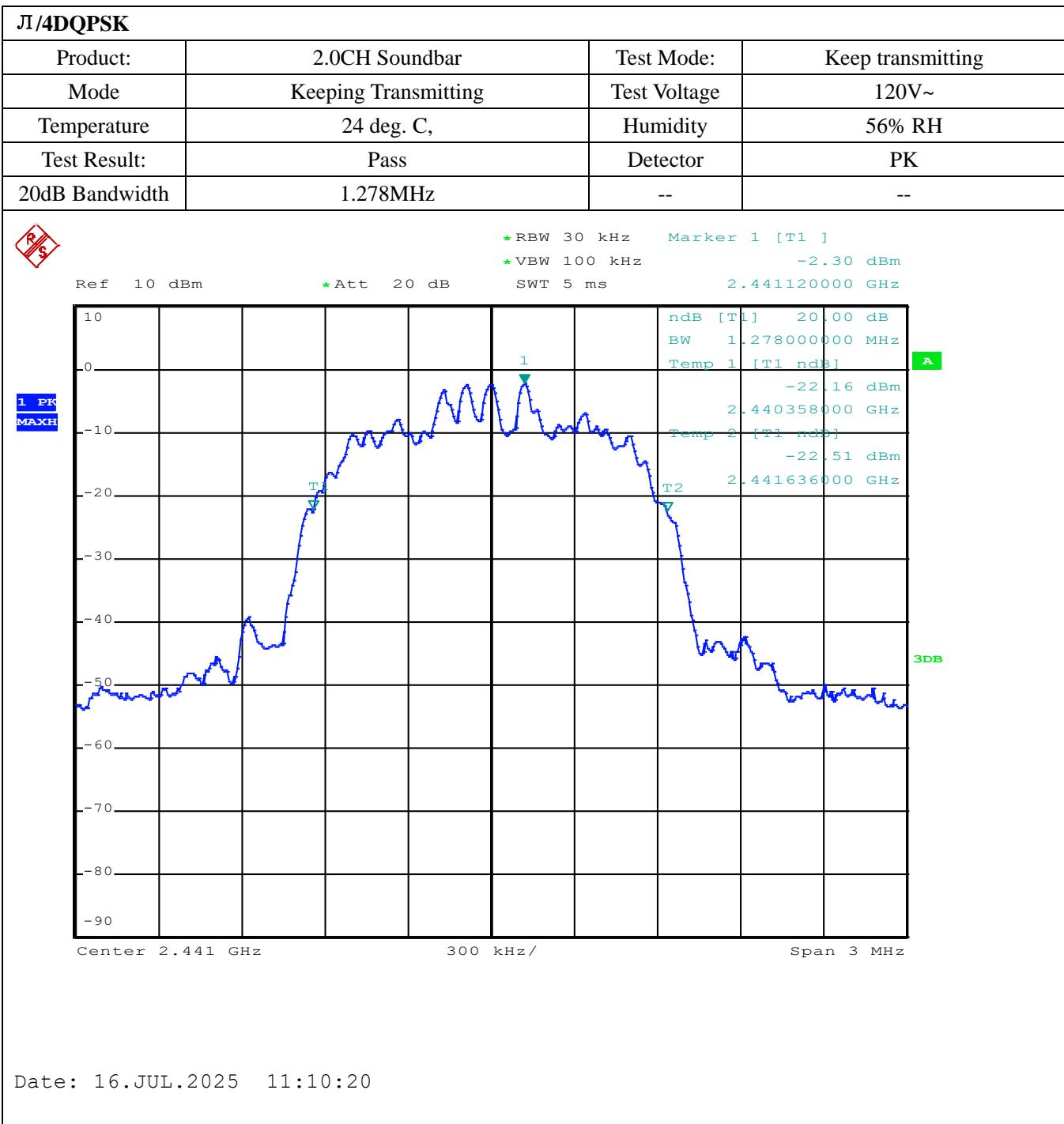


Date: 16.JUL.2025 11:27:09

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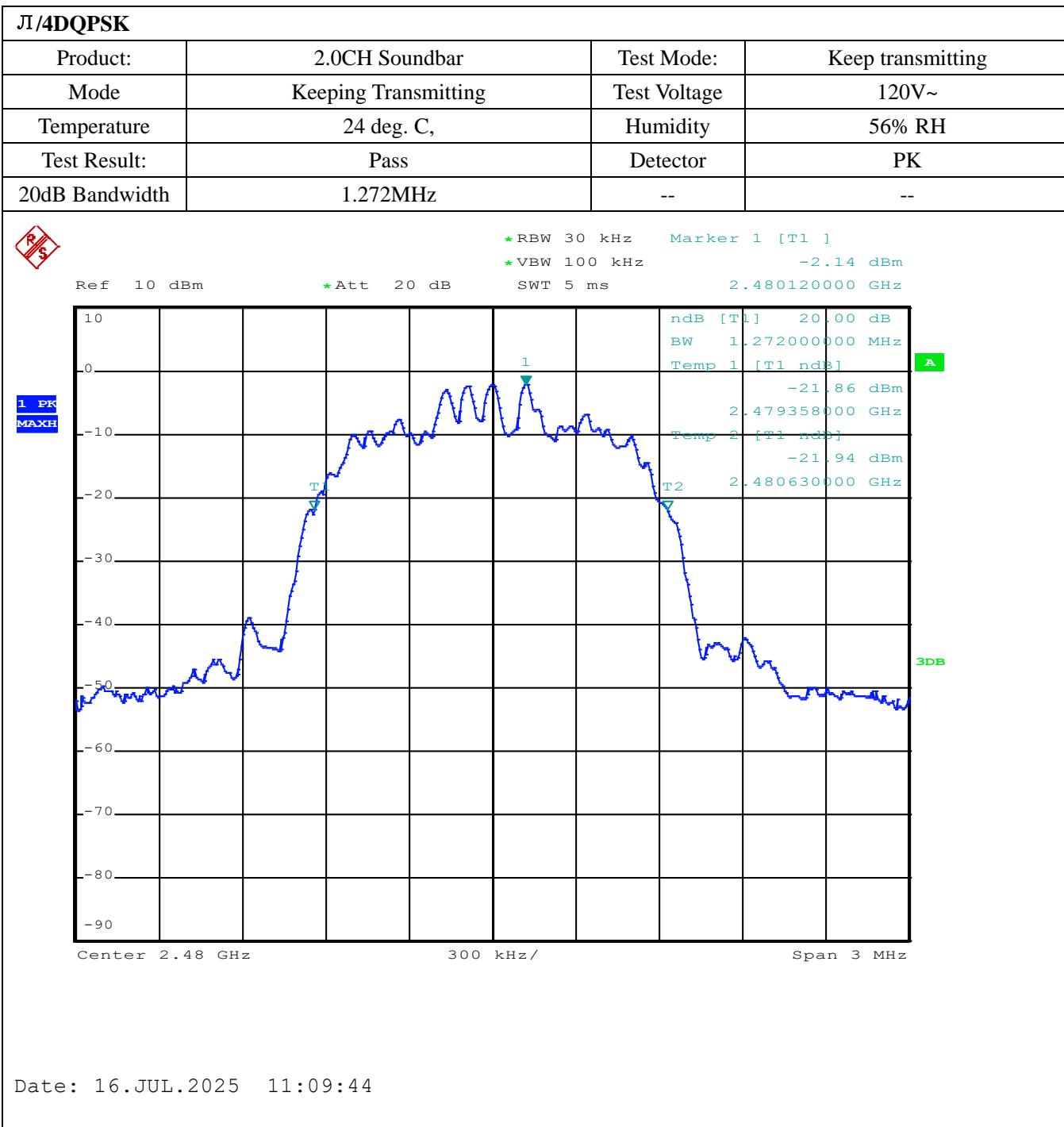
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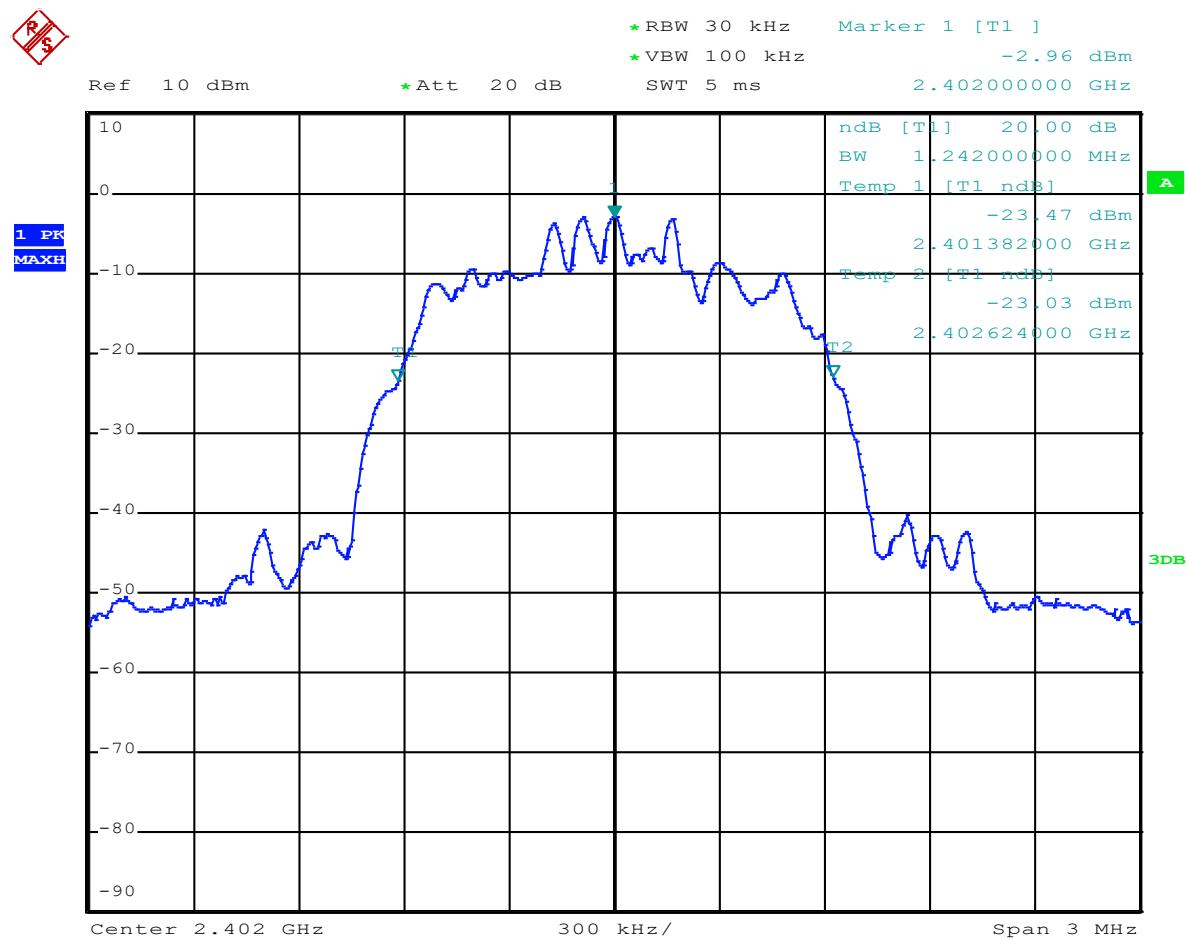
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**8DPSK**

Product:	2.0CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.242MHz	--	--



Date: 16.JUL.2025 11:29:12

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

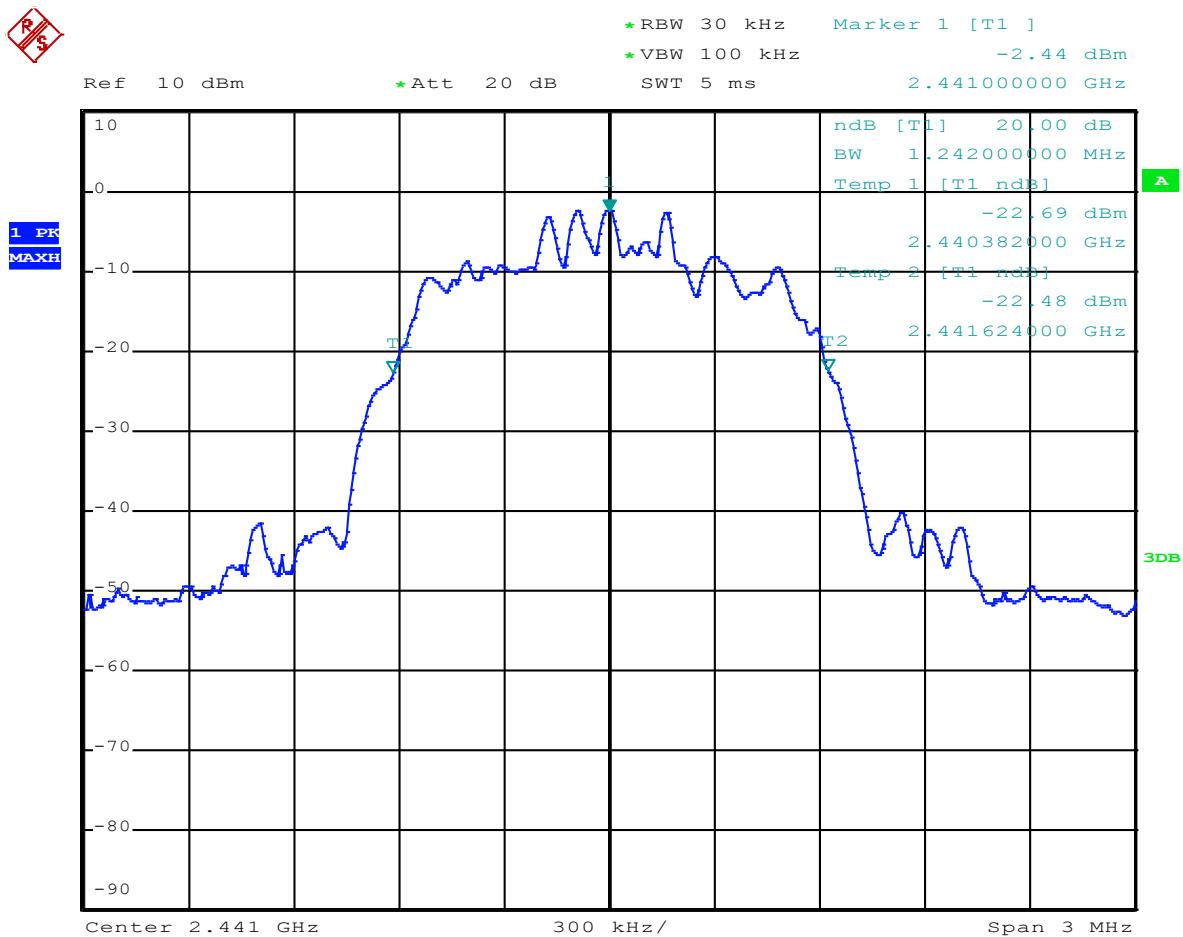
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**8DPSK**

Product:	2.0CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.242MHz	--	--



Date: 16.JUL.2025 11:30:56

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

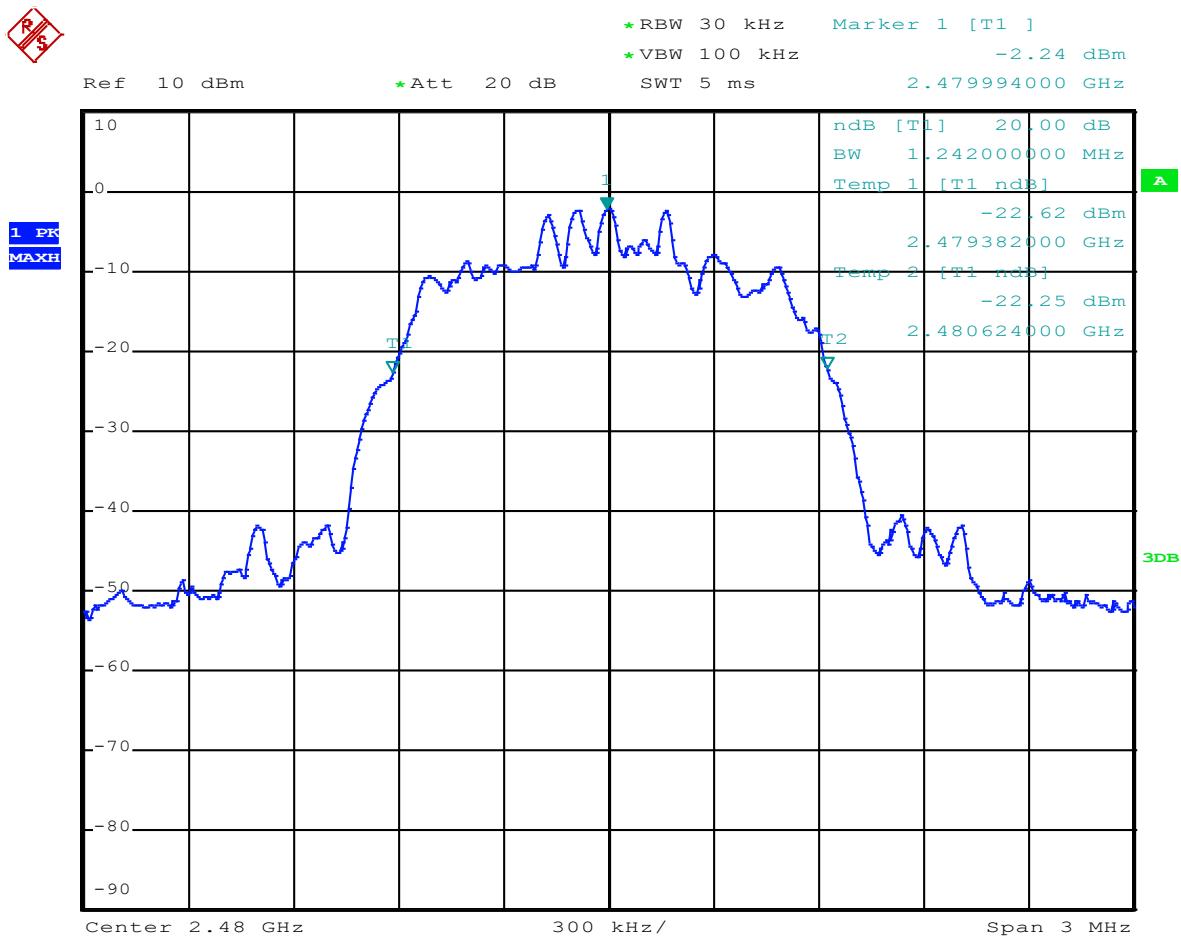
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**8DPSK**

Product:	2.0CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.242MHz	--	--



Date: 16.JUL.2025 11:34:44

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## 10.0 FCC ID Label

### FCC ID: 2BQIS-LK-S819-4

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



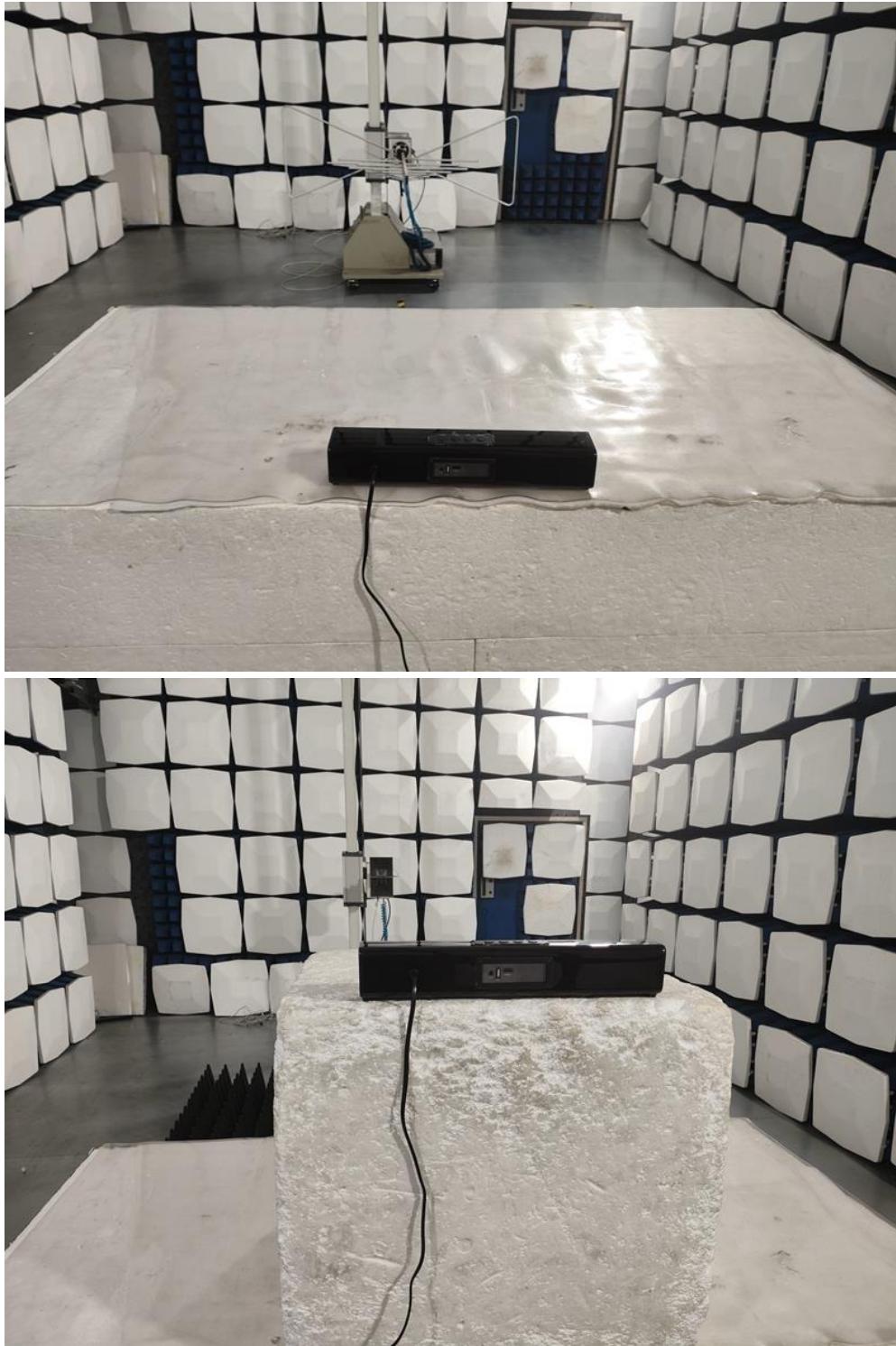
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Radiated emission test view



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### 11.2 Photographs – EUT

Outside View



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Outside View



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Outside View



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Inside View



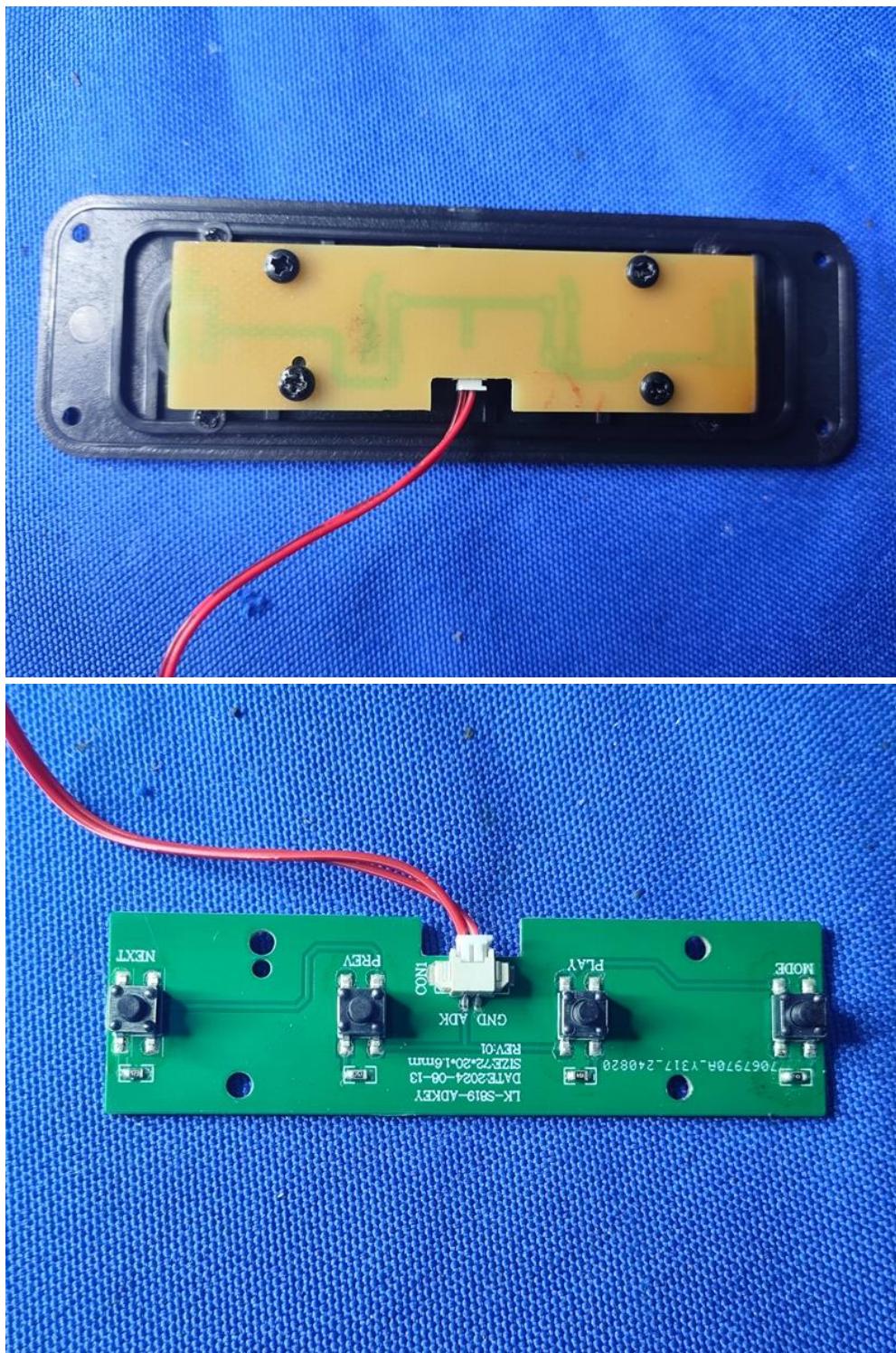
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Inside View



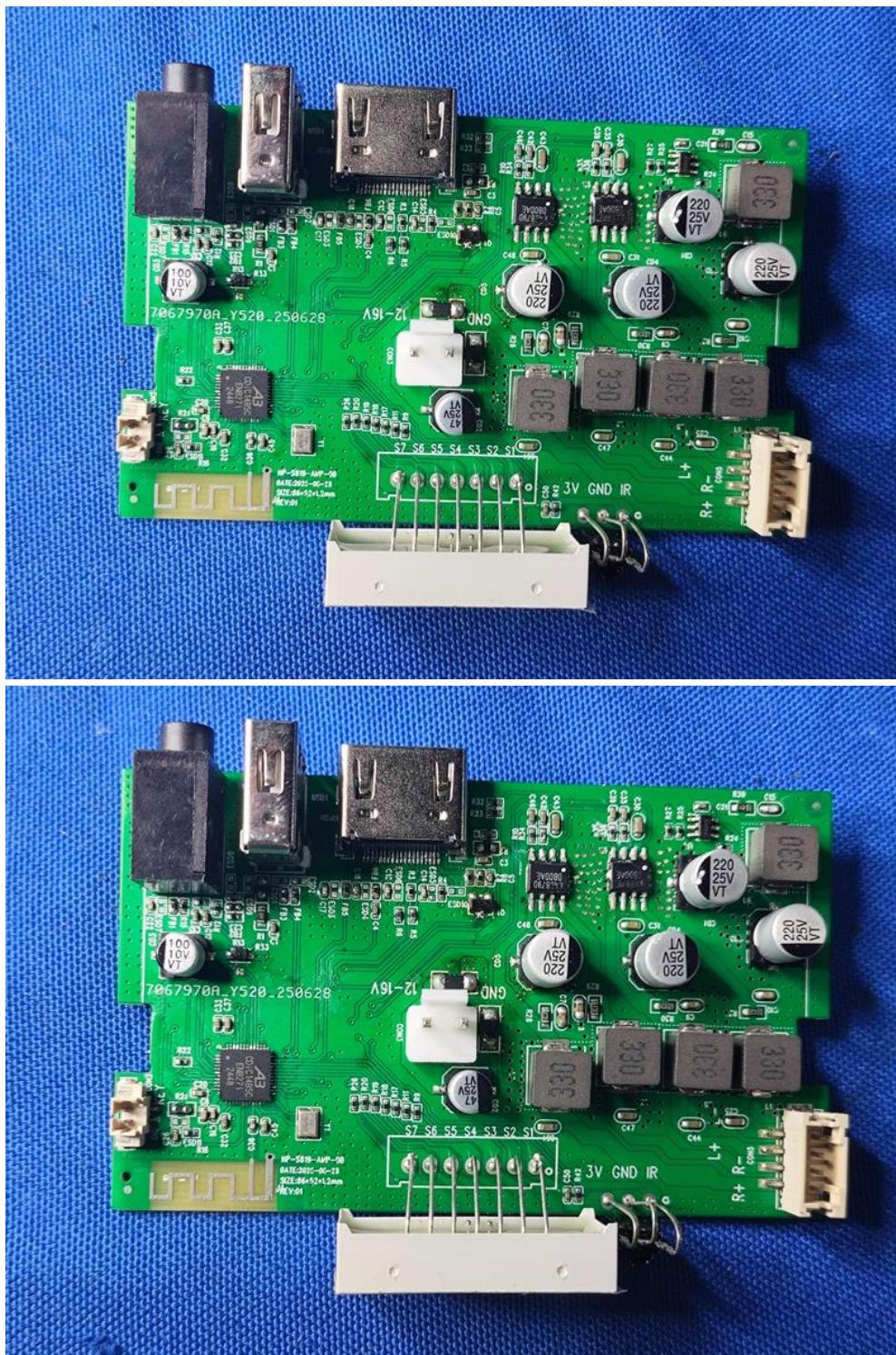
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Inside View



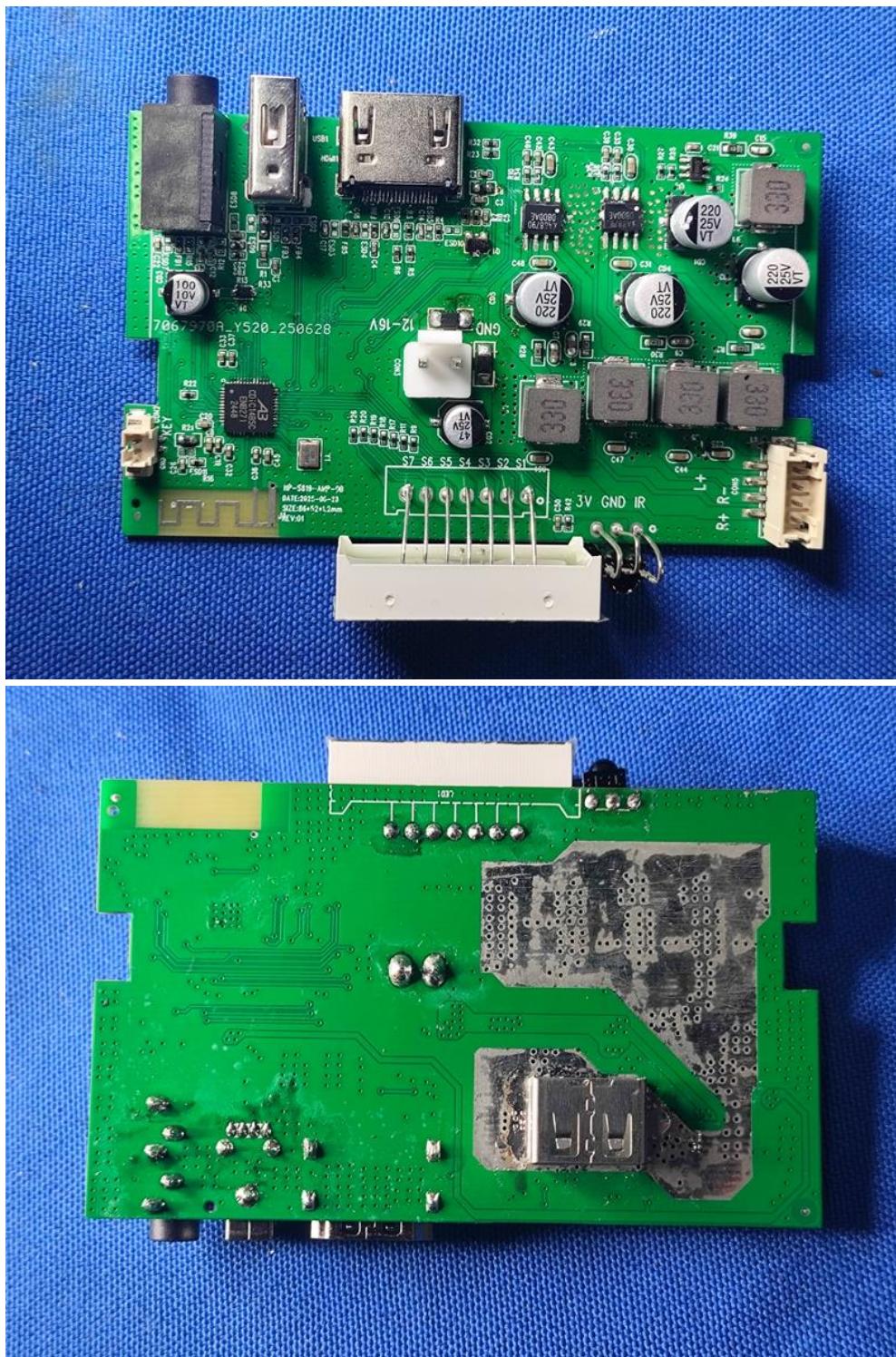
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Inside View



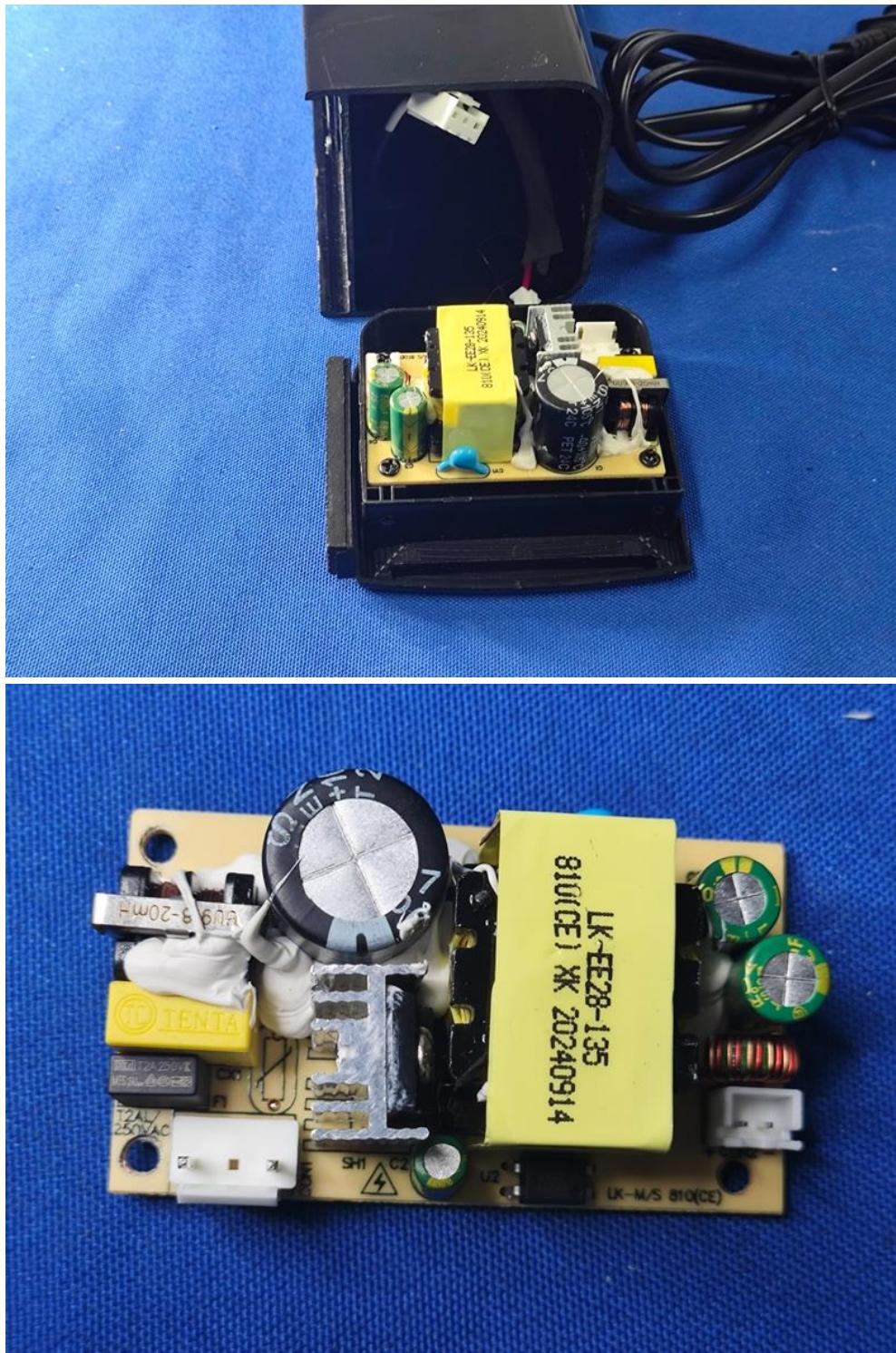
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Inside View



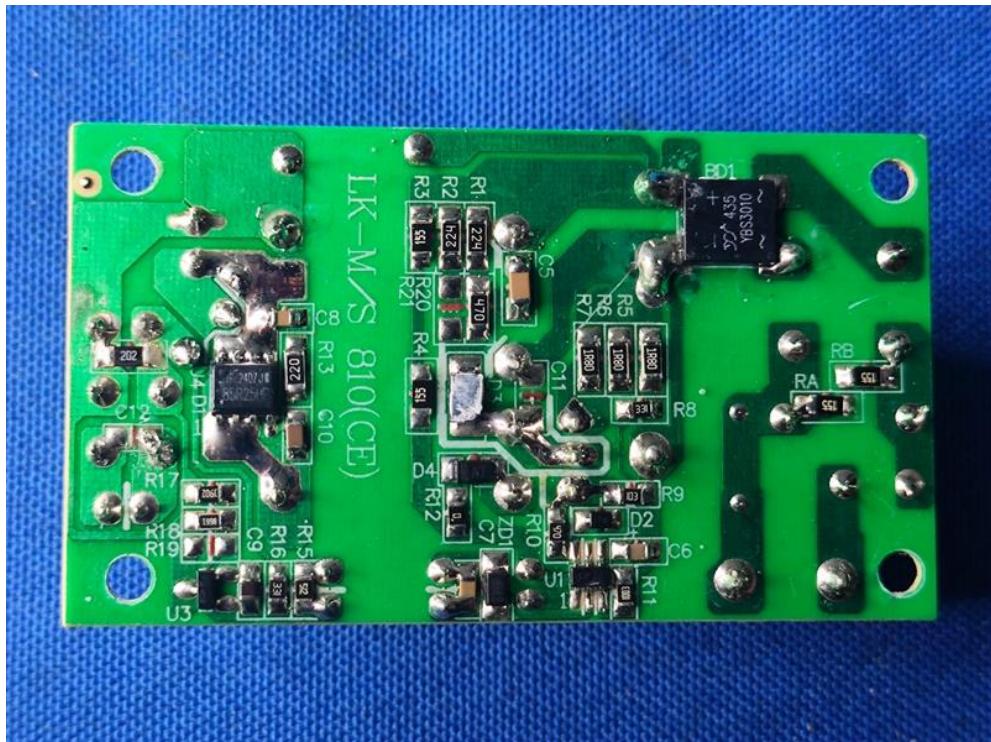
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## Inside View



--End of the report--

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