

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Soundlab Technology Company Limited

Soundbar

Model Number: Klipsch Cinema 600-Sound Bar

Additional Model: Bar 48-Sound Bar, Klipsch Cinema 650 Sound Bar

FCC ID: 2ATKO-BAR600II

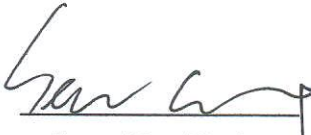
Applicant:	Soundlab Technology Company Limited
Address:	No.101,202,Building 1, Microlab Industrial Park, No.2 Baozi South Road,
	Kengzi, Pingshan District, ShenZhen, China
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Tel: 86-769-83081888-808	

Report Number:	ESTE-R2111111-1
Date of Test:	Jul. 06~09, 2022
Date of Report:	Jul. 14, 2022

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EST Technology Co., Ltd.

Applicant:	Soundlab Technology Company Limited		
Address:	No.101,202,Building 1, Microlab Industrial Park, No.2 Baozi South Road, Kengzi, Pingshan District, ShenZhen, China		
Manufacturer:	Klipsch Group Inc.		
Address:	3502 Woodview Trace, Indianapolis, IN 46268		
E.U.T:	Soundbar		
Model Number:	Klipsch Cinema 600-Sound Bar		
Additional Model:	Bar 48-Sound Bar, Klipsch Cinema 650 Sound Bar Note: They are identical except model name.		
Power Supply:	AC 100~240V, 50~60Hz		
Trade Name:	Klipsch	Serial No.:	-----
Date of Receipt:	Apr. 11, 2022	Date of Test:	Jul. 06~09, 2022
Test Specification:	FCC Part 15 Subpart C (15.249) ANSI C63.10:2013		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.		
Prepared by:	Reviewed by:	Date: Jul 14, 2022	
			
Ring Yang/ Assistant	Seven Wang/ Engineer	Ice-man Hu / Manager	
Other Aspects: This report base on the previous report with report number: ESTE-R2111111, power supply board, audio amplifier IC and peripheral circuit were changed and model number were added in this report, so just re-tested spurious emissions (30MHz-1GHz) and conducted emissions.			
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Soundbar
Model Number	:	Klipsch Cinema 600-Sound Bar
Software Version	:	V1.1
Hardware Version	:	V1.1
Operation frequency	:	2404.5MHz-2479.5MHz
Number of channel	:	16
Modulation Type	:	GFSK
Sample Type	:	Prototype production

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	1.34

Note: This information is provided by the applicant.

2. SUMMARY OF TEST

2.1. Summary of test result

Report Section	Description of Test Item	FCC Standard Section	Results
3	Field Strength of Fundamental	15.249(a)	N/A
4	Radiated Spurious Emissions and Band Edge	15.205 15.209 15.249(a)(c)(d)(e) 15.35(b)	PASS
5	20dB Bandwidth	15.215	N/A
6	AC Power Line Conducted Emissions	15.207	PASS
7	Antenna Requirement	15.203	N/A

Note: "N/A" denotes test is not applicable in this test report

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA
Designation Number: CN1215
This Certificate is valid until: January 31, 2024

Certificated by A2LA, USA
Registration No.: 4366.01
This Certificate is valid until: January 31, 2024

Certificated by Industry Canada
CAB identifier No.: CN0035
This Certificate is valid until: January 31, 2024

Certificated by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Certificate is valid until: Apr. 19, 2023

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	$\pm 3.48\text{dB}$
Uncertainty for spurious emissions test (30MHz-1GHz)	$\pm 4.60\text{ dB(Polarize: H)}$
	$\pm 4.68\text{ dB(Polarize: V)}$
Uncertainty for spurious emissions test (1GHz to 18GHz)	$\pm 4.96\text{dB}$
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

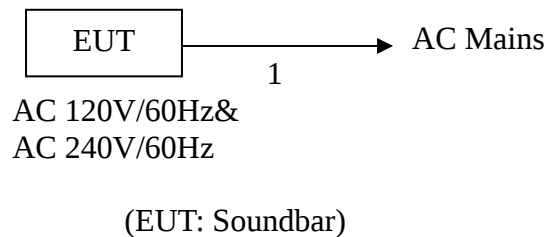
2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.8m	AC Cable

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was beset into test mode by software before test.



2.6. Test Mode

The test mode was selected for the final test as listed below.

Test Item	Test Mode	Test Channel
Radiated Spurious Emissions	TX	Low/Middle/High
AC Power Line Conducted Emissions	TX	Low/Middle/High

Note: In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis (X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7. Power Setting of Test Software

Software Name	N/A		
Frequency(MHz)	2404.5	2444.5	2479.5
Setting	Default	Default	Default

Note: This information is provided by the applicant.

2.8. Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2404.5	7	2434.5	13	2464.5
2	2409.5	8	2439.5	14	2469.5
3	2414.5	9	2444.5	15	2474.5
4	2419.5	10	2449.5	16	2479.5
5	2424.5	11	2454.5		
6	2429.5	12	2459.5		

2.9. Test Equipment List

For conducted emission test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 13,22	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 13,22	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 13,22	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 13,22	1 Year
Active Loop Antenna	SCHWABE ECK	FMZB 1519B	EST-E054	LISAI	June 13,22	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 13,22	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 13,22	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

3. RADIATED SPURIOUS EMISSIONS AND BAND EDGE

3.1. Limit

- (a) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of harmonics@3m (microvolts/meter)	Average Limit@3m dBμV/m	Peak Limit@3m dBμV/m
902-928MHz	500	54	74
2400-2483.5MHz	500	54	74
5725-5875MHz	500	54	74
24.0-24.25	2500	68	88

- (b) Field strength limits are specified at a distance of 3 meters.

- (c) 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.

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μV/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

15.205 Restricted frequency band

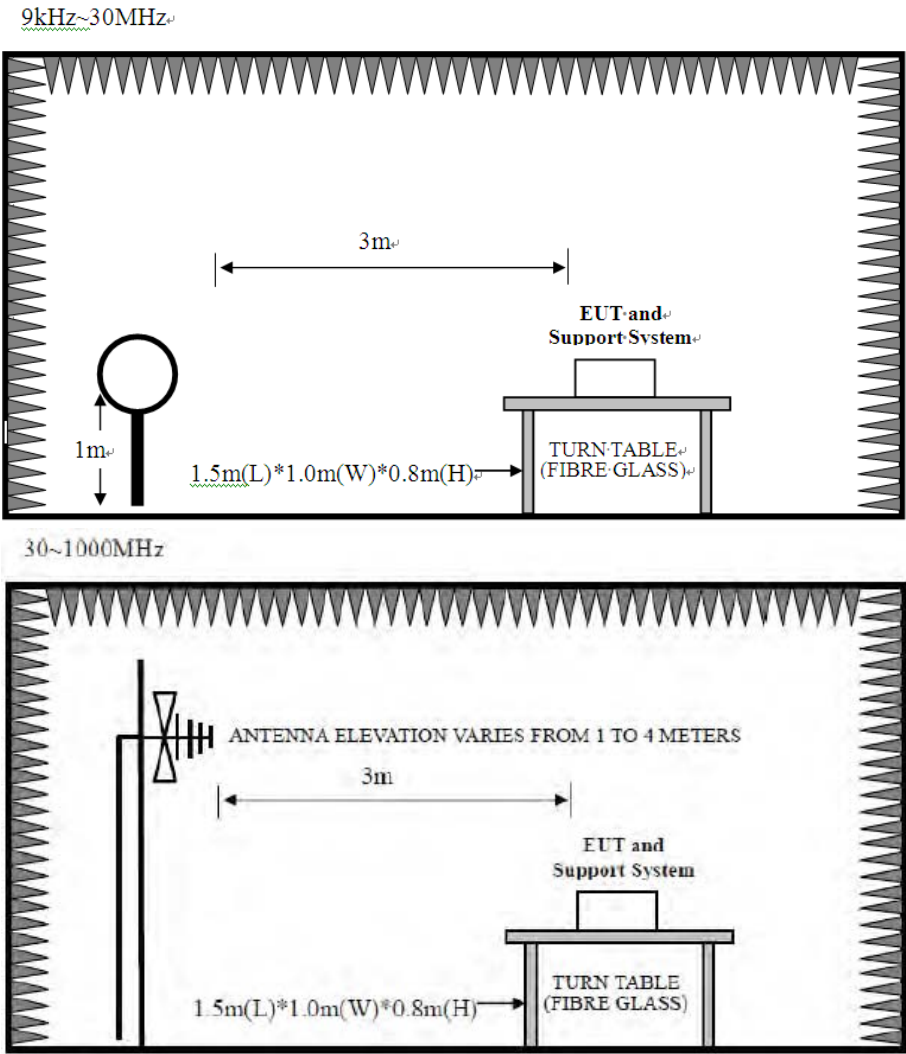
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

- (d) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation

Note:

- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$.
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.2. Test Setup



3.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For 30MHz-1000MHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1000MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

3.4. Test Procedure

- EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

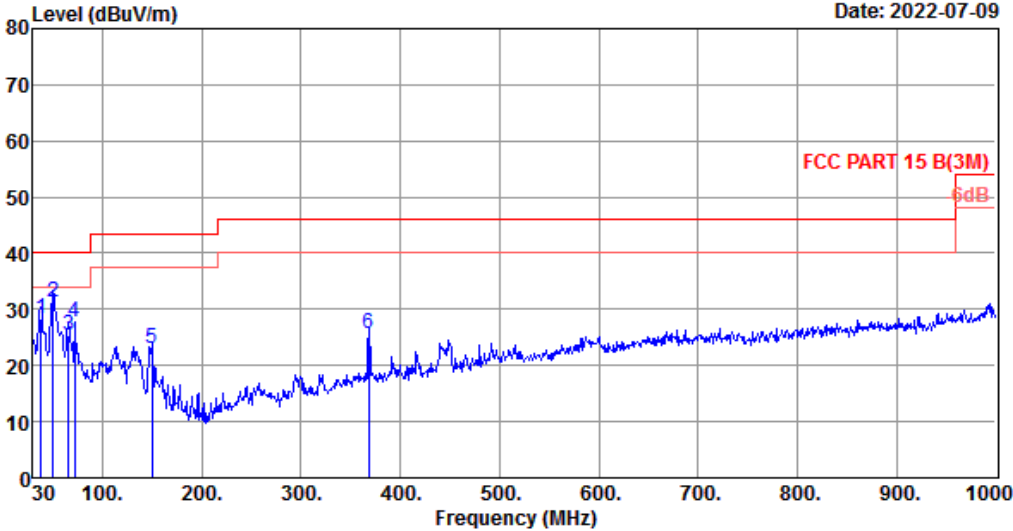
3.5. Test Result

Radiated Emissions Below 1GHz

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Data: 33 File: \\EMC-966-1\\test data\\2022\\RF\\S\\Shang lan bo\\Klipsch Cinema 600-Sound Bar.EM6 (34) Date: 2022-07-09



Site no. : 1# 966 Chamber Data no. : 33
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.2';Humi:53%;Press:101.52kPa
Engineer : JBR
EUT : Soundbar
Power : AC 120V/60Hz
M/N : Klipsch Cinema 600-Sound Bar
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37.7600	12.90	0.61	14.88	28.39	40.00	11.61	QP
2	50.3700	8.50	0.72	22.12	31.34	40.00	8.66	QP
3	65.8900	6.00	0.86	18.50	25.36	40.00	14.64	QP
4	71.7100	6.84	0.83	20.13	27.80	40.00	12.20	QP
5	150.2800	11.80	1.14	10.08	23.02	43.50	20.48	QP
6	368.5300	15.68	1.87	8.13	25.68	46.00	20.32	QP

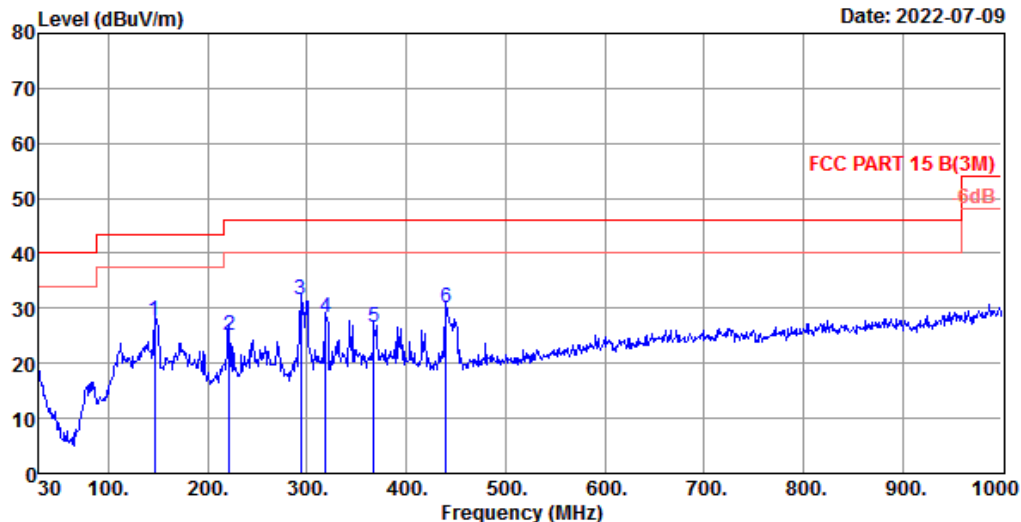
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Data: 34 File: \\EMC-966-1\\test data\\2022\\RF\\S\\Shang lan bo\\Klipsch Cinema 600-Sound Bar.EM6 (34)

Date: 2022-07-09



Site no. : 1# 966 Chamber Data no. : 34
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.2';Humi:53%;Press:101.52kPa
Engineer : JBR
EUT : Soundbar
Power : AC 120V/60Hz
M/N : Klipsch Cinema 600-Sound Bar
Test Mode : TX Mode

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 146.4000	11.88	1.19	14.71	27.78	43.50	15.72	QP
2 222.0600	10.12	1.37	13.61	25.10	46.00	20.90	QP
3 293.8400	13.78	1.65	16.14	31.57	46.00	14.43	QP
4 319.0600	14.17	1.66	12.48	28.31	46.00	17.69	QP
5 367.5600	15.67	1.87	9.00	26.54	46.00	19.46	QP
6 440.3100	17.10	1.93	11.15	30.18	46.00	15.82	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.



4. AC POWER LINE CONDUCTED EMISSIONS

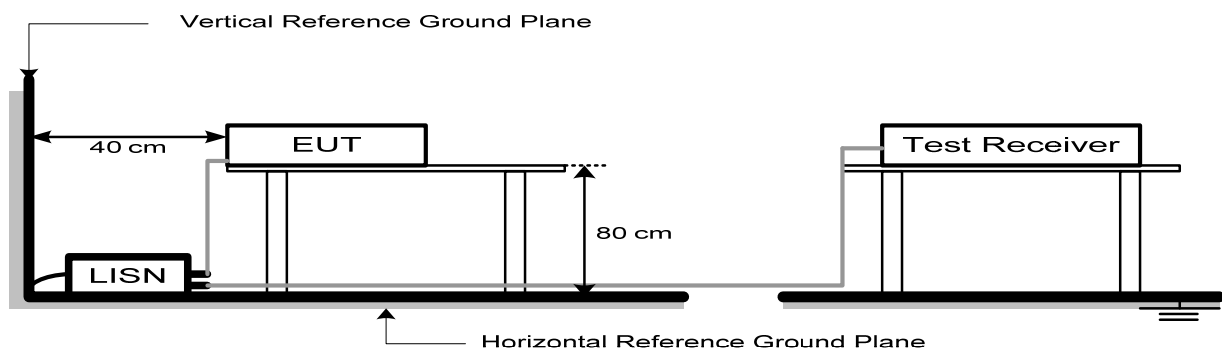
4.1. Limit

Frequency			Maximum RF Line Voltage	
			Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz	~	500kHz	66 ~ 56*	56 ~ 46*
500kHz	~	5MHz	56	46
5MHz	~	30MHz	60	50

Note:

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

4.2. Test Setup



4.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

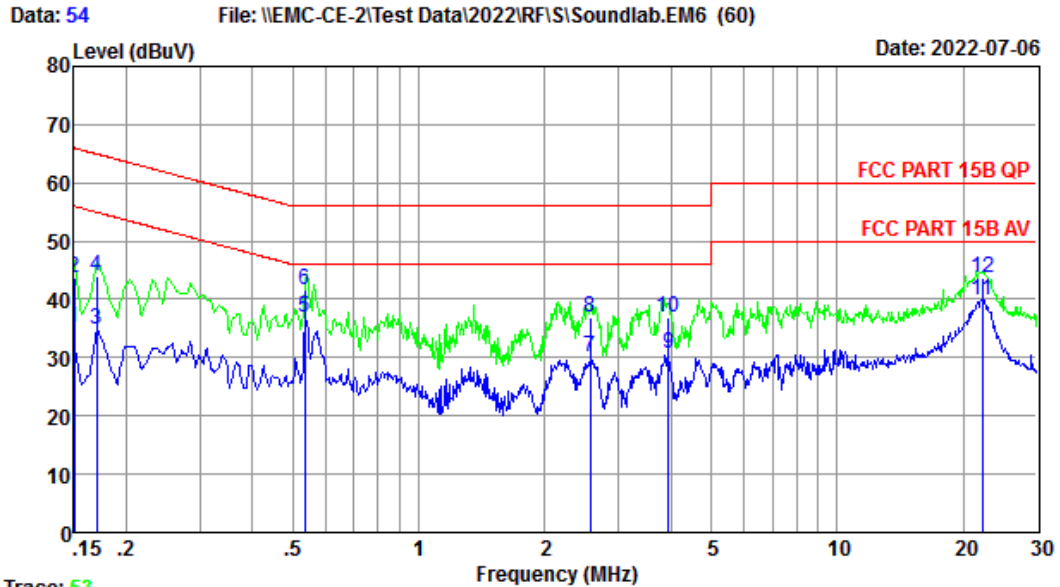
4.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 4.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

4.5. Test Result

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Trace: 53

Site no : 2#CE Shield Room Data no. : 54

Env. / Ins. : Temp:23.5°C Humi:54% Press:101.50kPa LINE Phase : LINE

Limit : FCC PART 15B QP

Engineer : MRS

EUT : Soundbar

Power : AC 120V/60Hz

M/N : Klipsch Cinema 600-Sound Bar

Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.82	9.69	15.57	35.08	56.00	20.92	Average
2	0.150	9.82	9.69	24.07	43.58	66.00	22.42	QP
3	0.170	9.82	9.69	15.20	34.71	54.94	20.23	Average
4	0.170	9.82	9.69	24.54	44.05	64.94	20.89	QP
5	0.535	9.84	9.92	17.02	36.78	46.00	9.22	Average
6	0.535	9.84	9.92	21.95	41.71	56.00	14.29	QP
7	2.567	9.96	9.96	10.23	30.15	46.00	15.85	Average
8	2.567	9.96	9.96	17.11	37.03	56.00	18.97	QP
9	3.943	9.95	9.99	10.78	30.72	46.00	15.28	Average
10	3.943	9.95	9.99	17.10	37.04	56.00	18.96	QP
11	22.180	9.85	10.16	19.98	39.99	50.00	10.01	Average
12	22.180	9.85	10.16	23.79	43.80	60.00	16.20	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

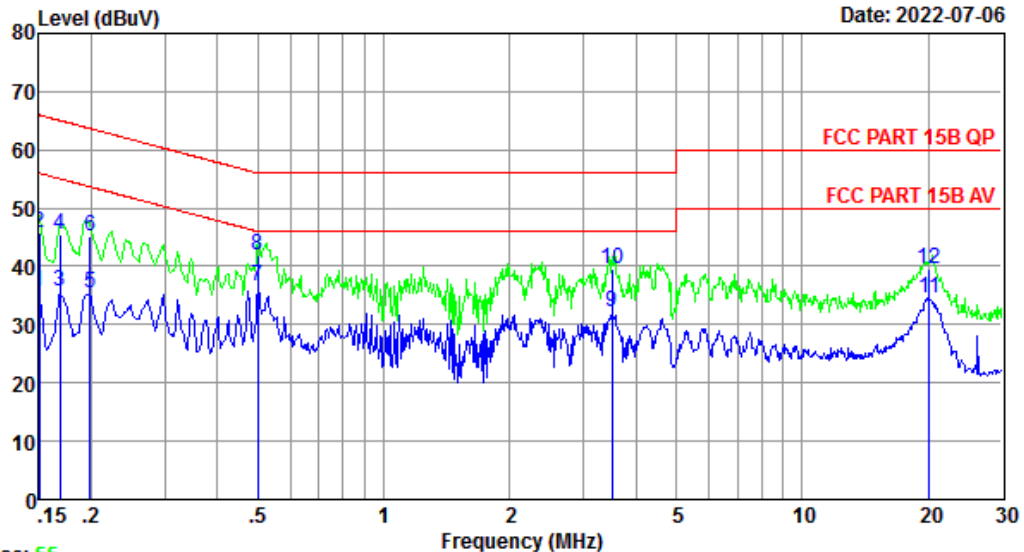
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Data: 56

File: \\EMC-CE-2\Test Data\2022\RF\SI\Soundlab.EM6 (60)

Date: 2022-07-06



Trace: 55

Site no : 2#CE Shield Room Data no. : 56
 Env. / Ins. : Temp:23.5℃ Humi:54% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : MRS
 EUT : Soundbar
 Power : AC 120V/60Hz
 M/N : Klipsch Cinema 600-Sound Bar
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.78	9.69	16.12	35.59	56.00	20.41	Average
2	0.150	9.78	9.69	26.40	45.87	66.00	20.13	QP
3	0.169	9.78	9.69	16.17	35.64	55.03	19.39	Average
4	0.169	9.78	9.69	25.91	45.38	65.03	19.65	QP
5	0.199	9.72	9.77	16.02	35.51	53.67	18.16	Average
6	0.199	9.72	9.77	25.68	45.17	63.67	18.50	QP
7	0.499	9.76	9.92	17.05	36.73	46.01	9.28	Average
8	0.499	9.76	9.92	22.16	41.84	56.01	14.17	QP
9	3.509	10.00	9.99	12.20	32.19	46.00	13.81	Average
10	3.509	10.00	9.99	19.67	39.66	56.00	16.34	QP
11	20.162	10.15	10.16	14.34	34.65	50.00	15.35	Average
12	20.162	10.15	10.16	19.37	39.68	60.00	20.32	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

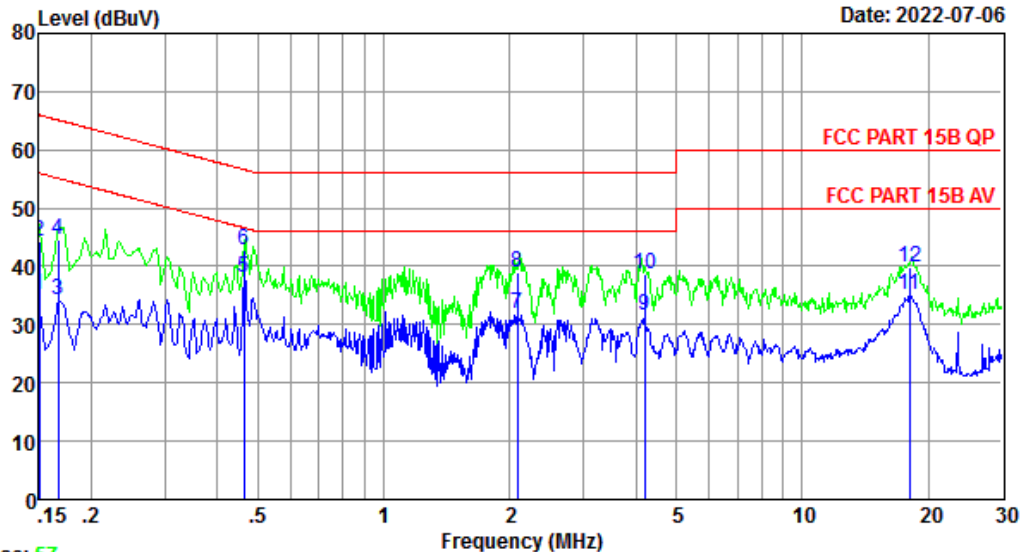
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 58

File: \\EMC-CE-2\Test Data\2022\RF\SI\Soundlab.EM6 (60)

Date: 2022-07-06



Trace: 57

Site no : 2#CE Shield Room Data no. : 58
 Env. / Ins. : Temp:23.5℃ Humi:54% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : MRS
 EUT : Soundbar
 Power : AC 240V/60Hz
 M/N : Klipsch Cinema 600-Sound Bar
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.78	9.69	15.80	35.27	56.00	20.73	Average
2	0.150	9.78	9.69	24.89	44.36	66.00	21.64	QP
3	0.167	9.78	9.69	14.82	34.29	55.12	20.83	Average
4	0.167	9.78	9.69	25.24	44.71	65.12	20.41	QP
5	0.464	9.75	9.92	18.41	38.08	46.63	8.55	Average
6	0.464	9.75	9.92	23.14	42.81	56.63	13.82	QP
7	2.088	9.96	9.96	12.01	31.93	46.00	14.07	Average
8	2.088	9.96	9.96	18.91	38.83	56.00	17.17	QP
9	4.202	10.03	9.99	11.59	31.61	46.00	14.39	Average
10	4.202	10.03	9.99	18.71	38.73	56.00	17.27	QP
11	18.039	10.14	10.14	14.88	35.16	50.00	14.84	Average
12	18.039	10.14	10.14	19.47	39.75	60.00	20.25	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

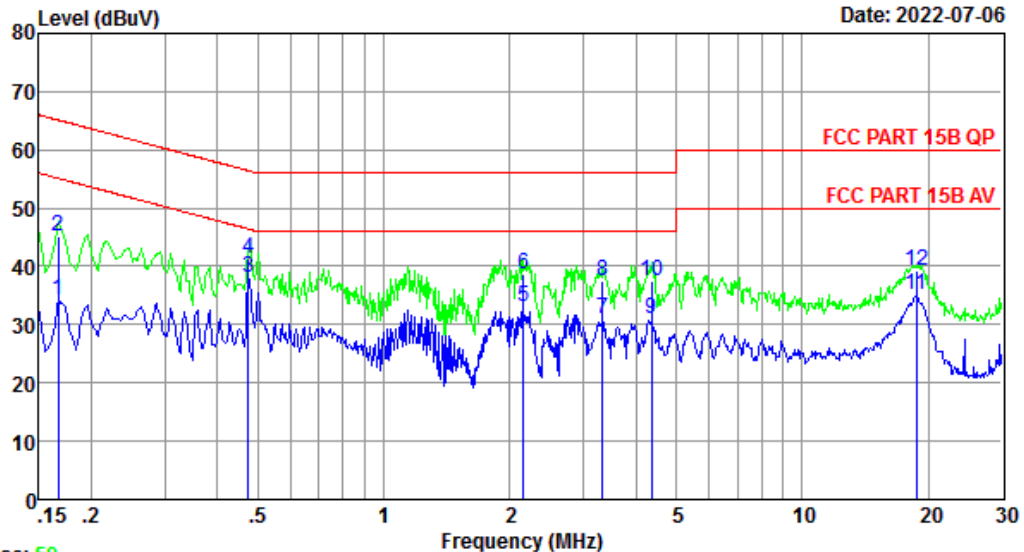
EST Technology

Chilingxiang, Qishantou, Santun,
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Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 60

File: \\EMC-CE-2\Test Data\2022\RF\SI\Soundlab.EM6 (60)

Date: 2022-07-06



Trace: 59

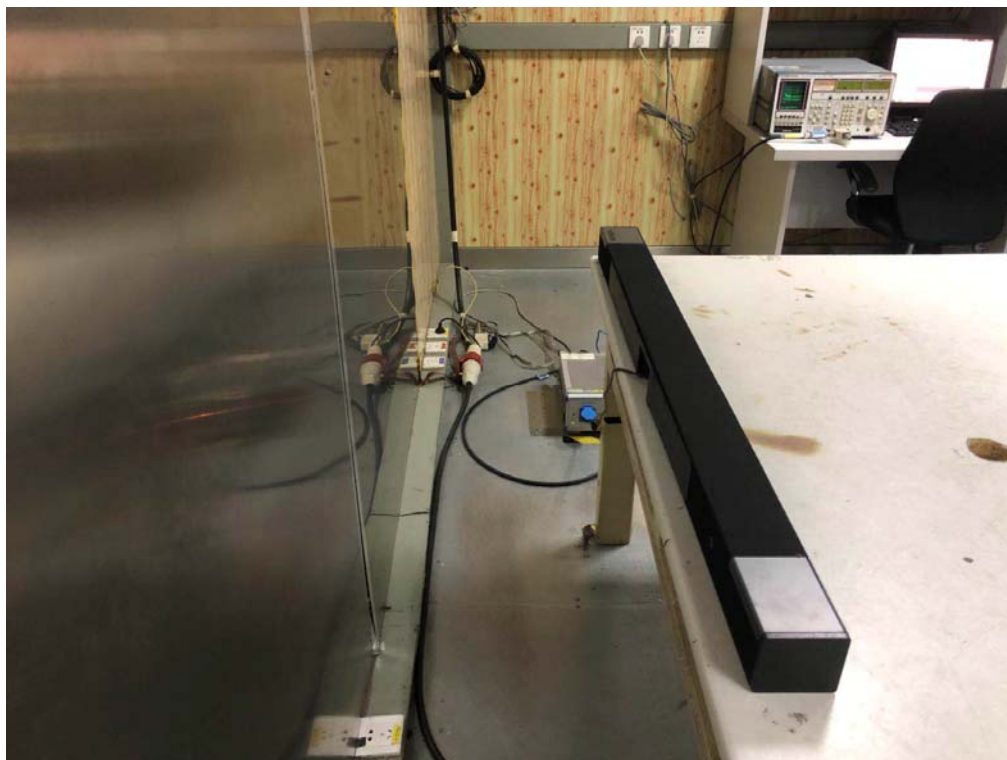
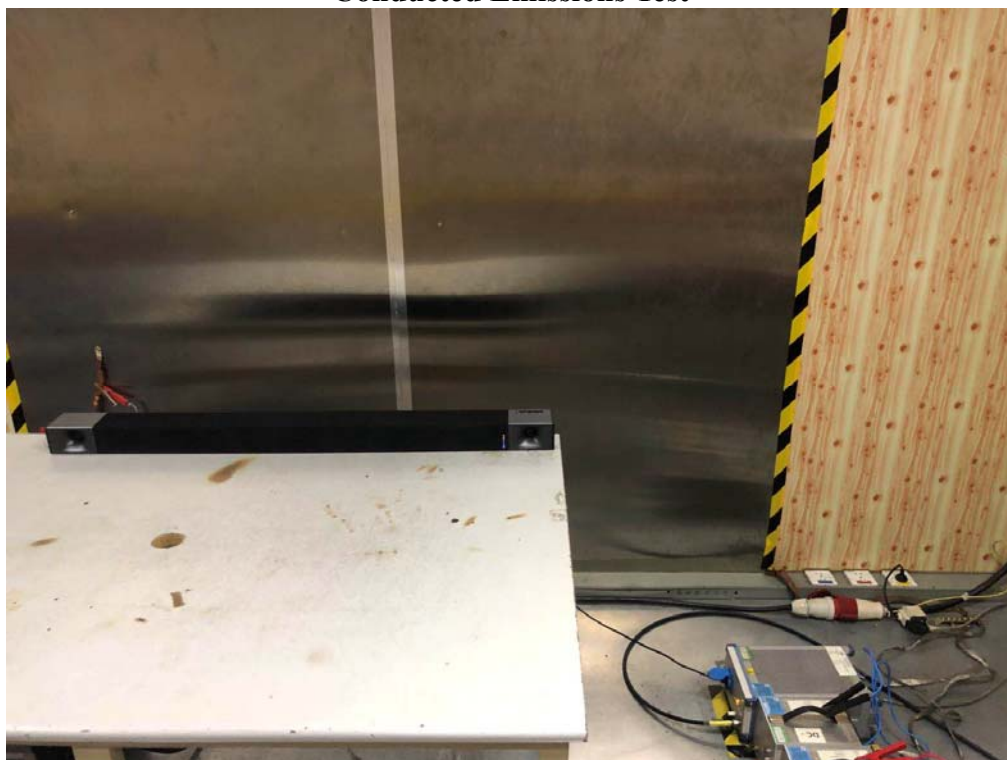
Site no : 2#CE Shield Room Data no. : 60
 Env. / Ins. : Temp:23.5℃ Humi:54% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : MRS
 EUT : Soundbar
 Power : AC 240V/60Hz
 M/N : Klipsch Cinema 600-Sound Bar
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBUV	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.167	9.82	9.69	14.76	34.27	55.12	20.85	Average
2	0.167	9.82	9.69	25.52	45.03	65.12	20.09	QP
3	0.474	9.84	9.92	18.33	38.09	46.45	8.36	Average
4	0.474	9.84	9.92	21.62	41.38	56.45	15.07	QP
5	2.155	10.04	9.96	12.92	32.92	46.00	13.08	Average
6	2.155	10.04	9.96	18.71	38.71	56.00	17.29	QP
7	3.328	9.93	9.98	11.19	31.10	46.00	14.90	Average
8	3.328	9.93	9.98	17.60	37.51	56.00	18.49	QP
9	4.361	9.92	9.99	11.05	30.96	46.00	15.04	Average
10	4.361	9.92	9.99	17.59	37.50	56.00	18.50	QP
11	18.721	9.87	10.15	15.04	35.06	50.00	14.94	Average
12	18.721	9.87	10.15	19.29	39.31	60.00	20.69	QP

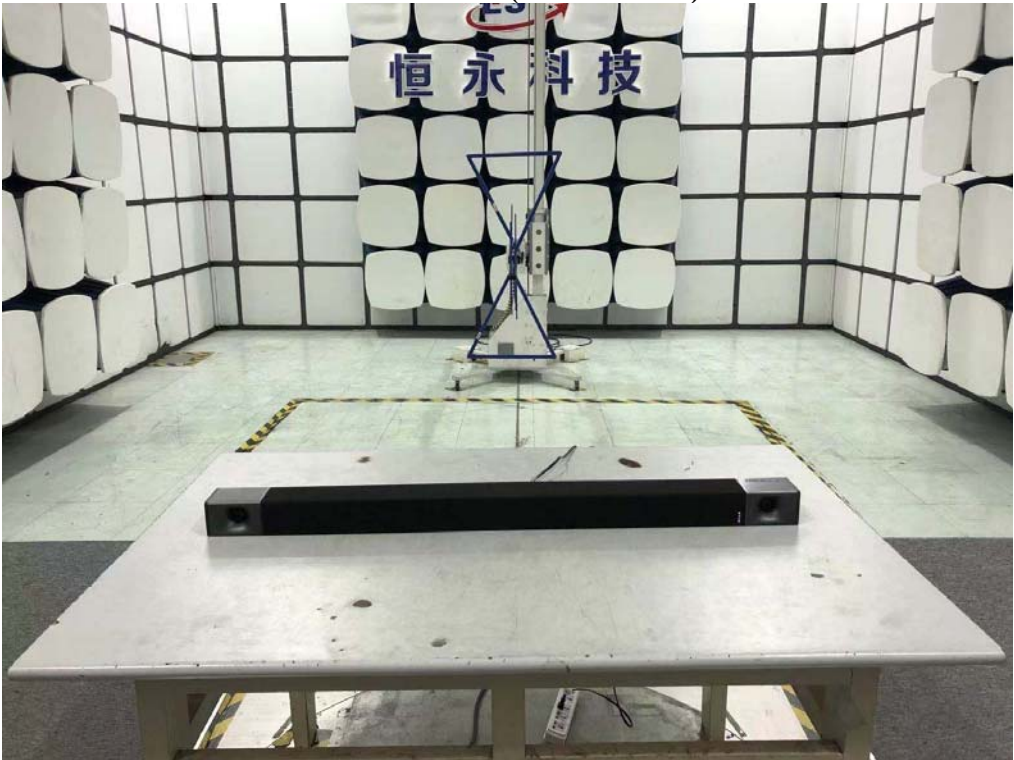
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

5. TEST SETUP PHOTO

Conducted Emissions Test

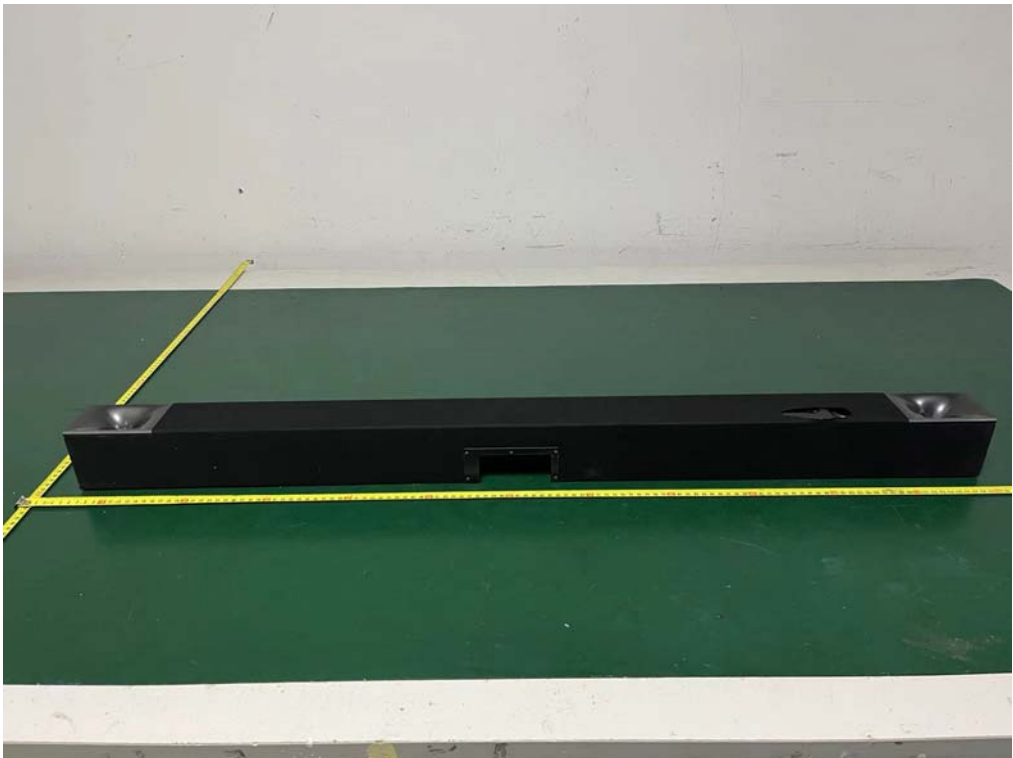
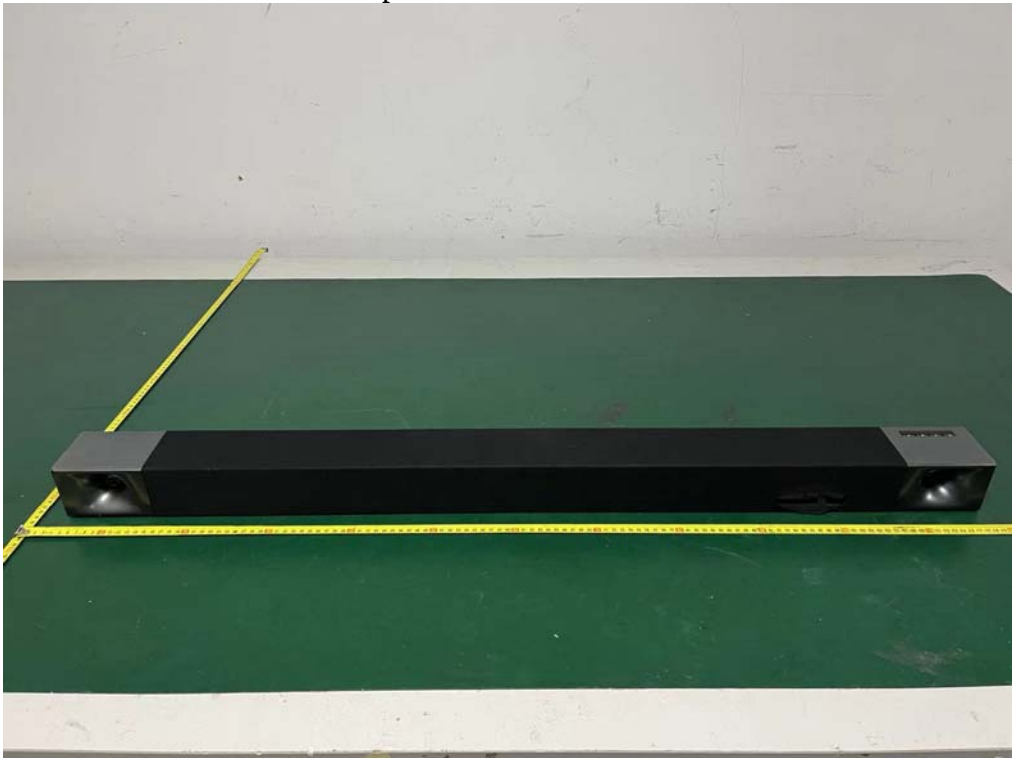


Radiated Test (Below 1GHz)

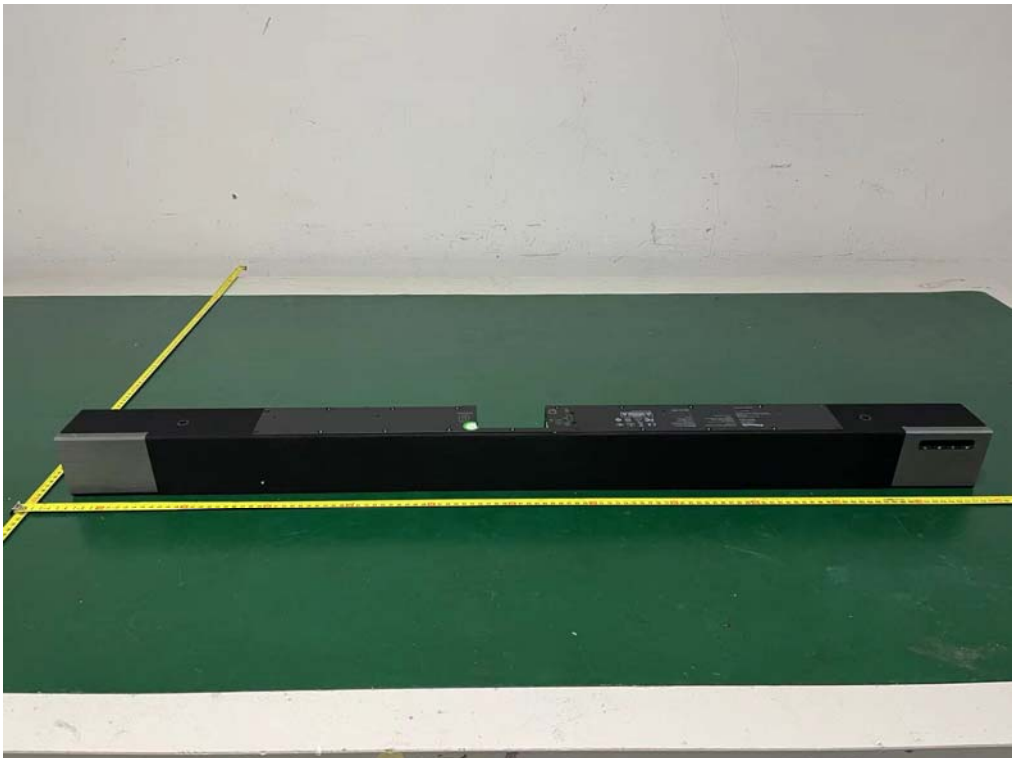


6. EUT PHOTO

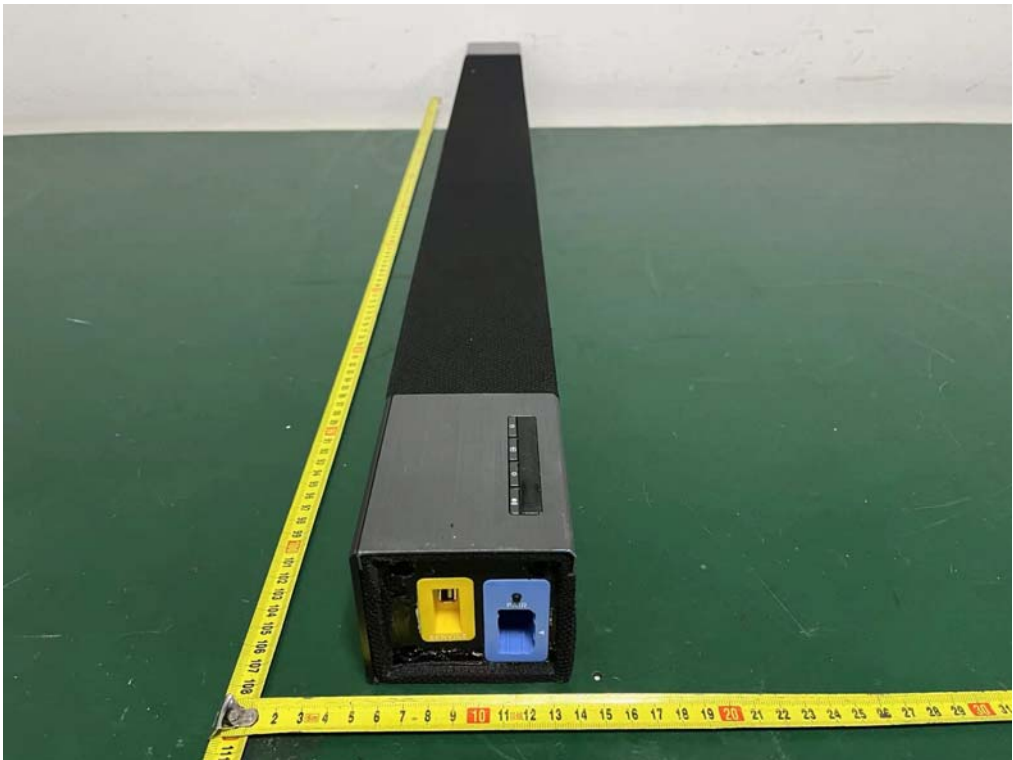
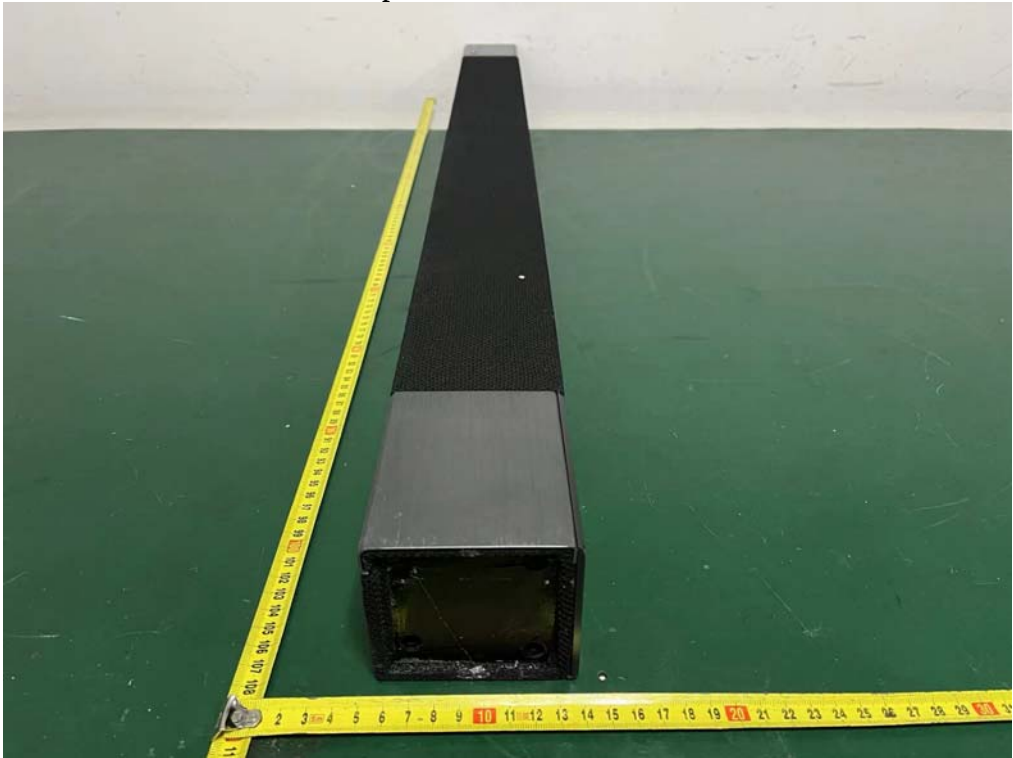
External Photos
M/N: Klipsch Cinema 600-Sound Bar



External Photos
M/N: Klipsch Cinema 600-Sound Bar



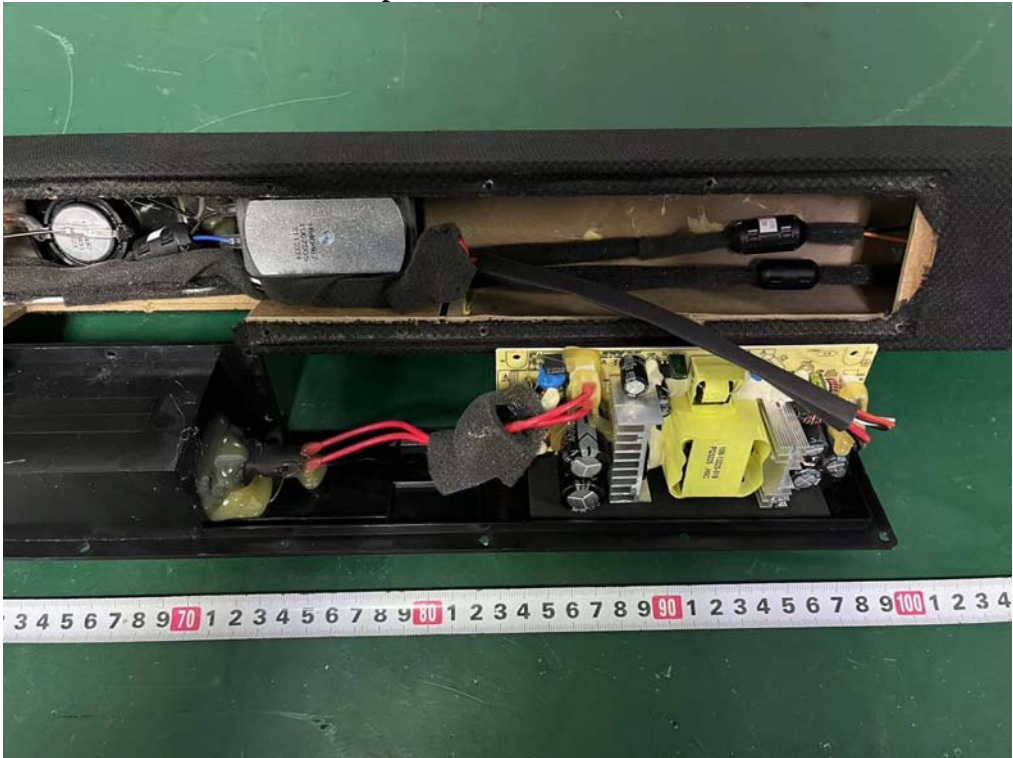
External Photos
M/N: Klipsch Cinema 600-Sound Bar



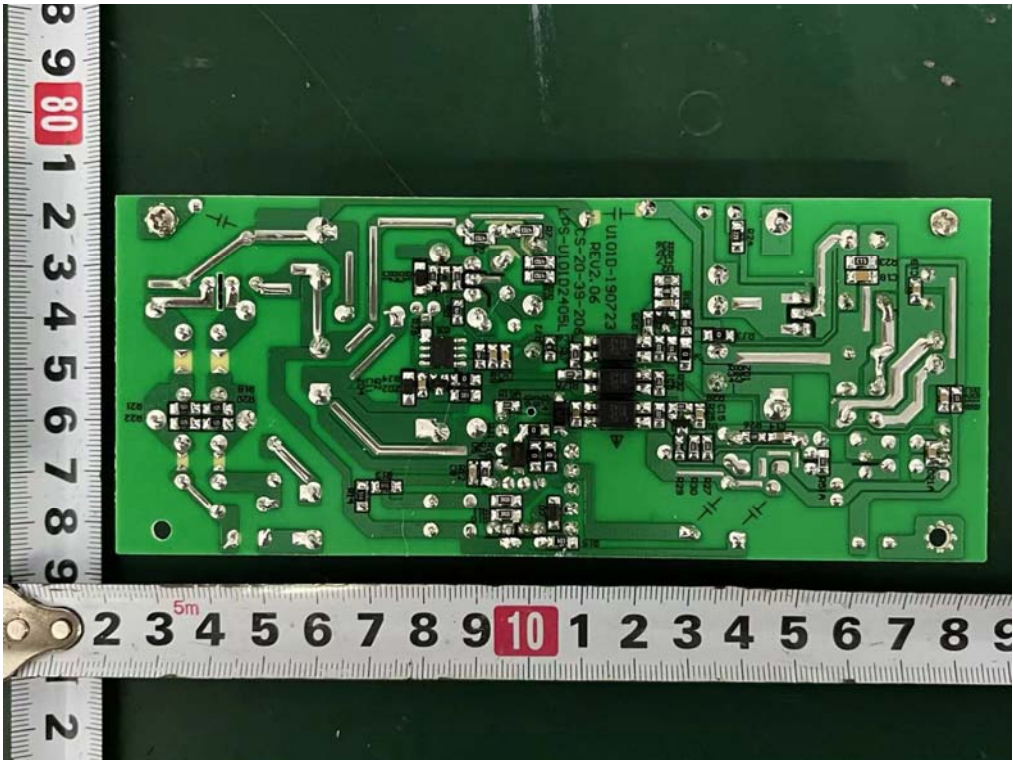
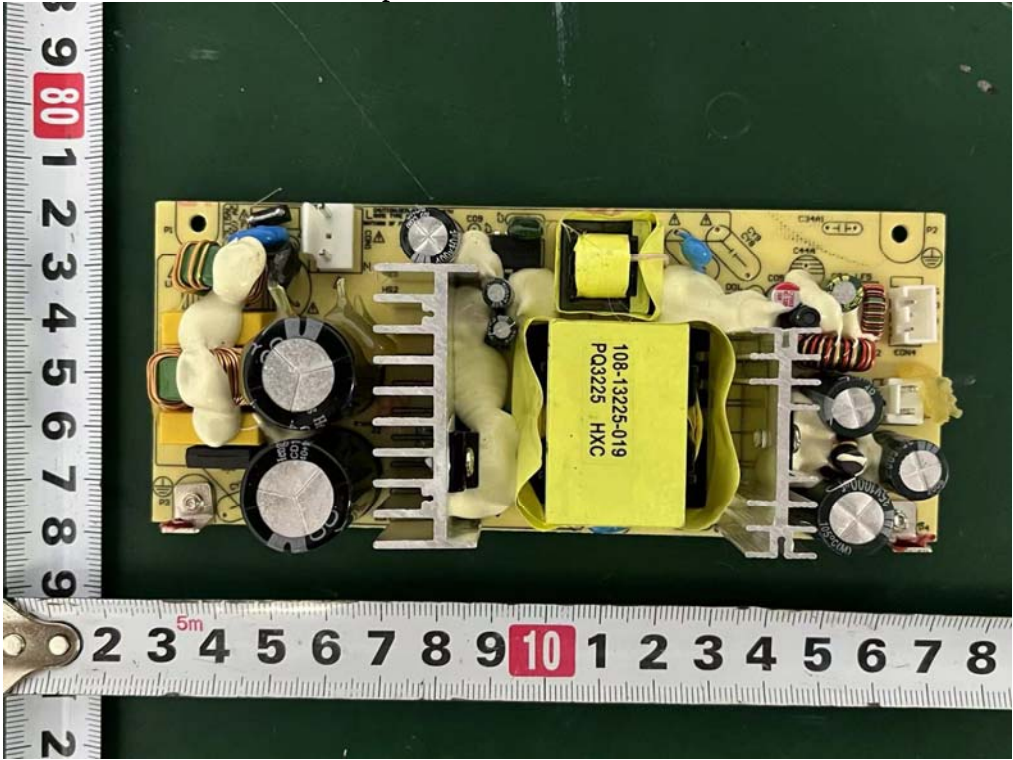
Internal Photos
M/N: Klipsch Cinema 600-Sound Bar



Internal Photos
M/N: Klipsch Cinema 600-Sound Bar



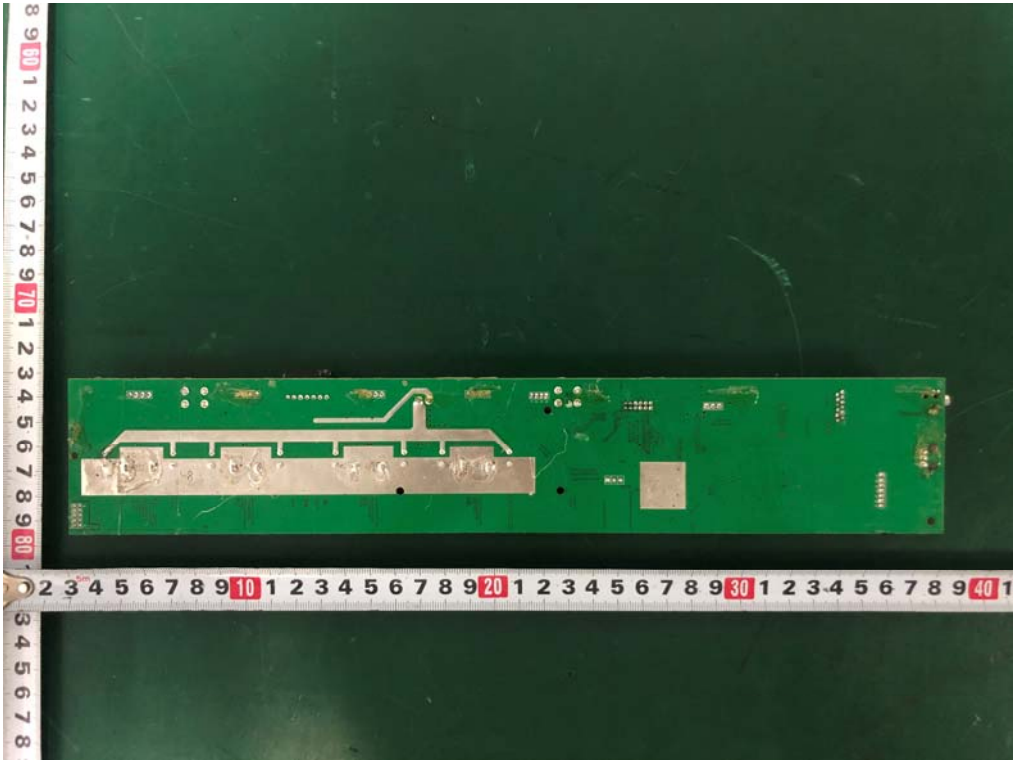
Internal Photos
M/N: Klipsch Cinema 600-Sound Bar



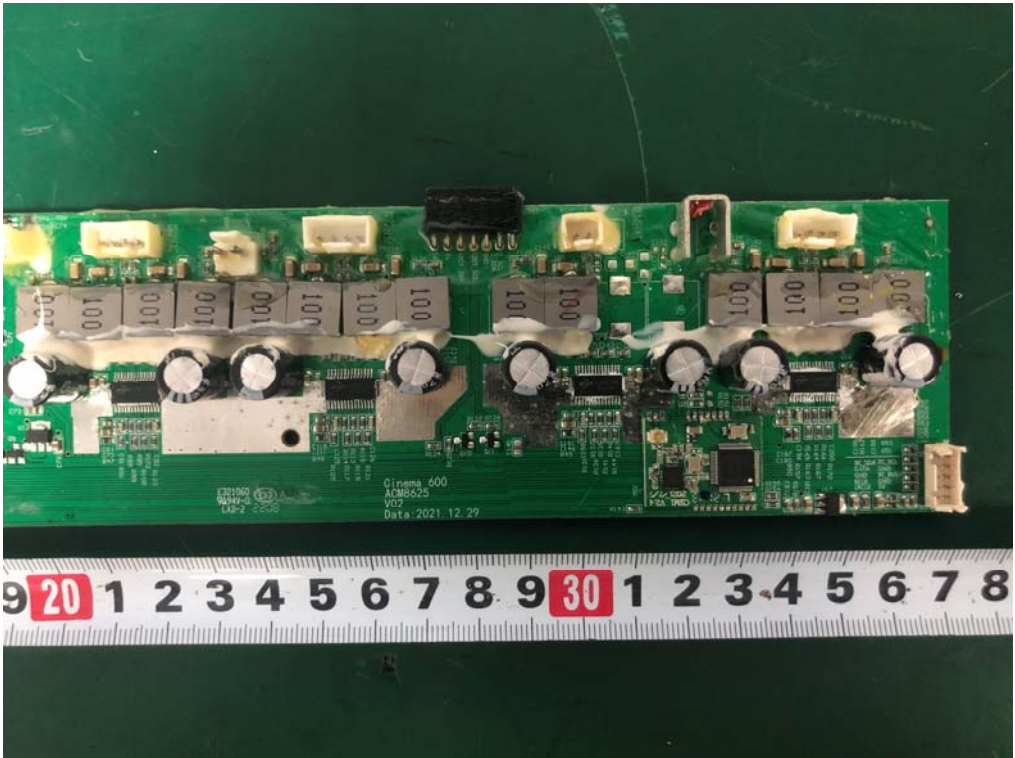
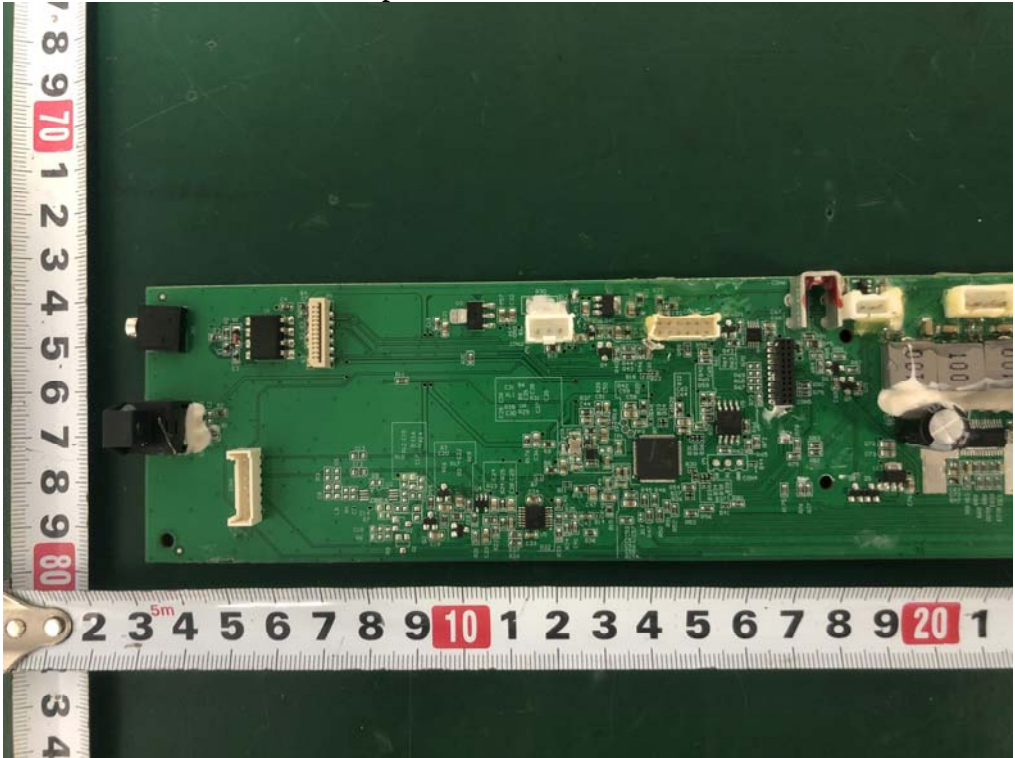
Internal Photos
M/N: Klipsch Cinema 600-Sound Bar



Internal Photos
M/N: Klipsch Cinema 600-Sound Bar

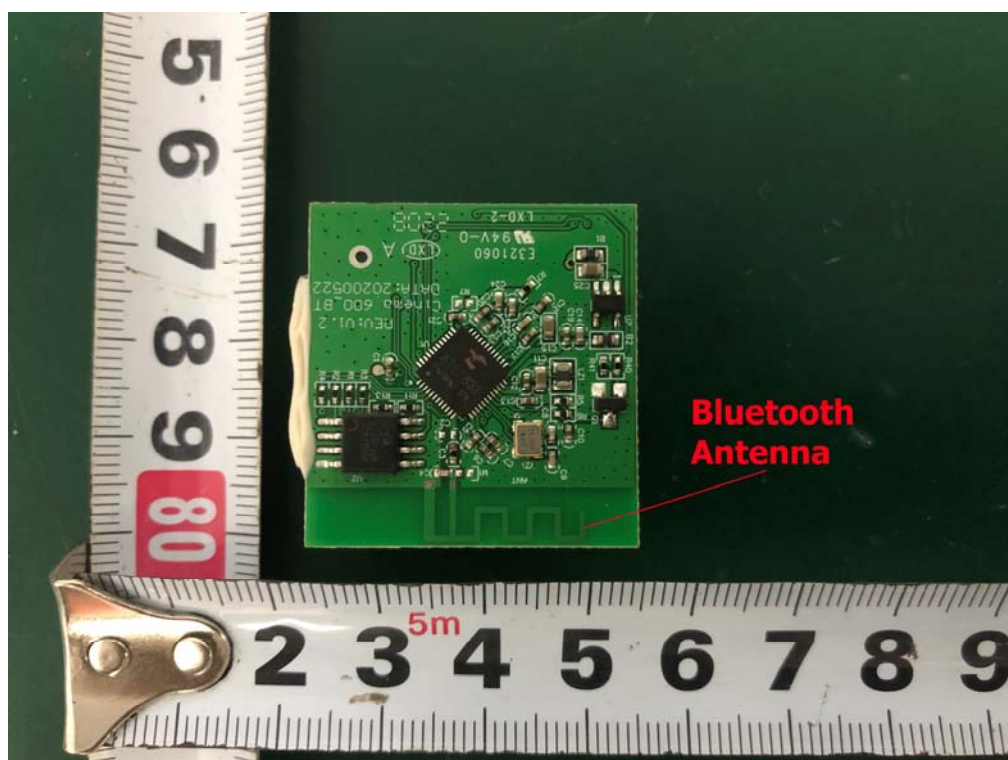
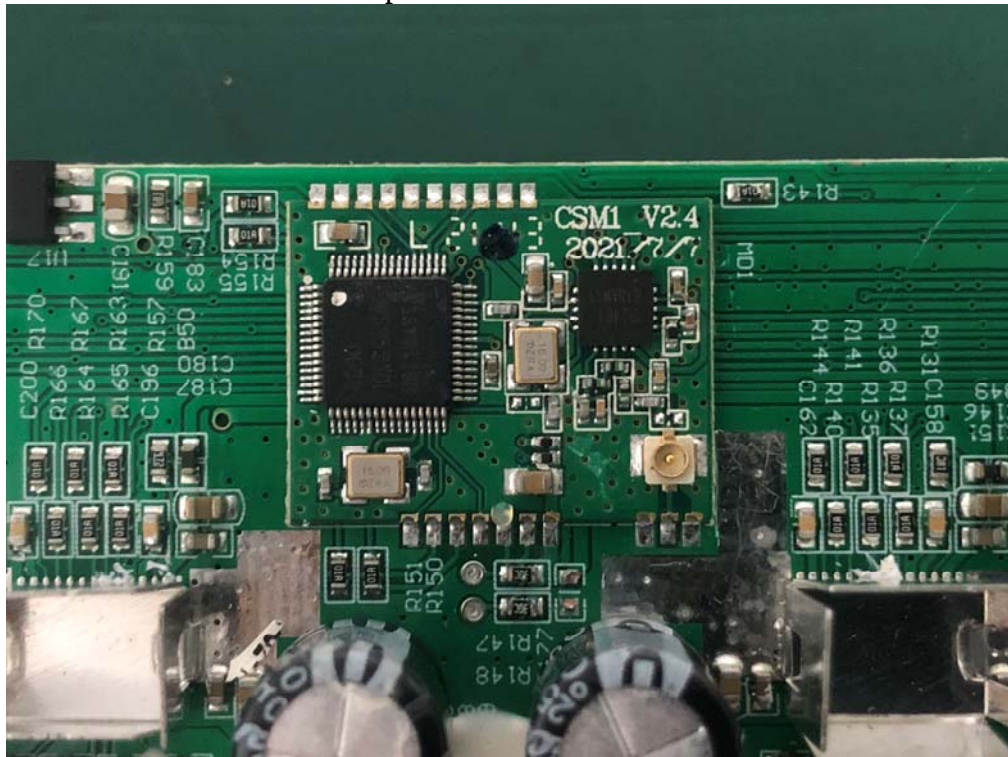


Internal Photos
M/N: Klipsch Cinema 600-Sound Bar

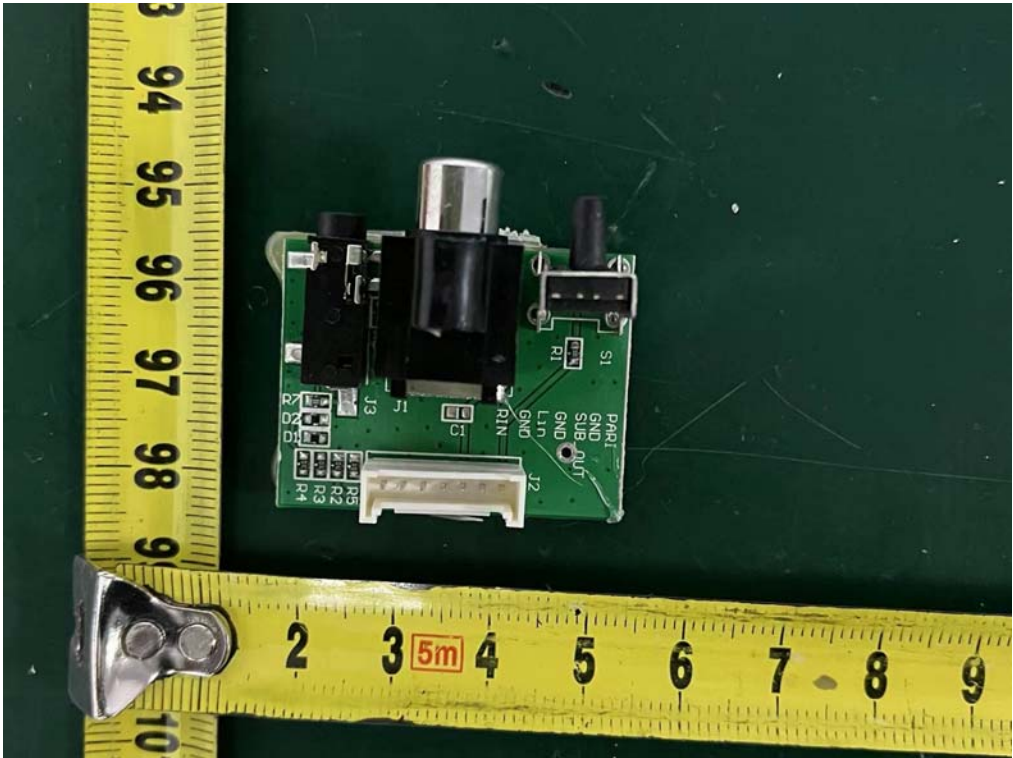
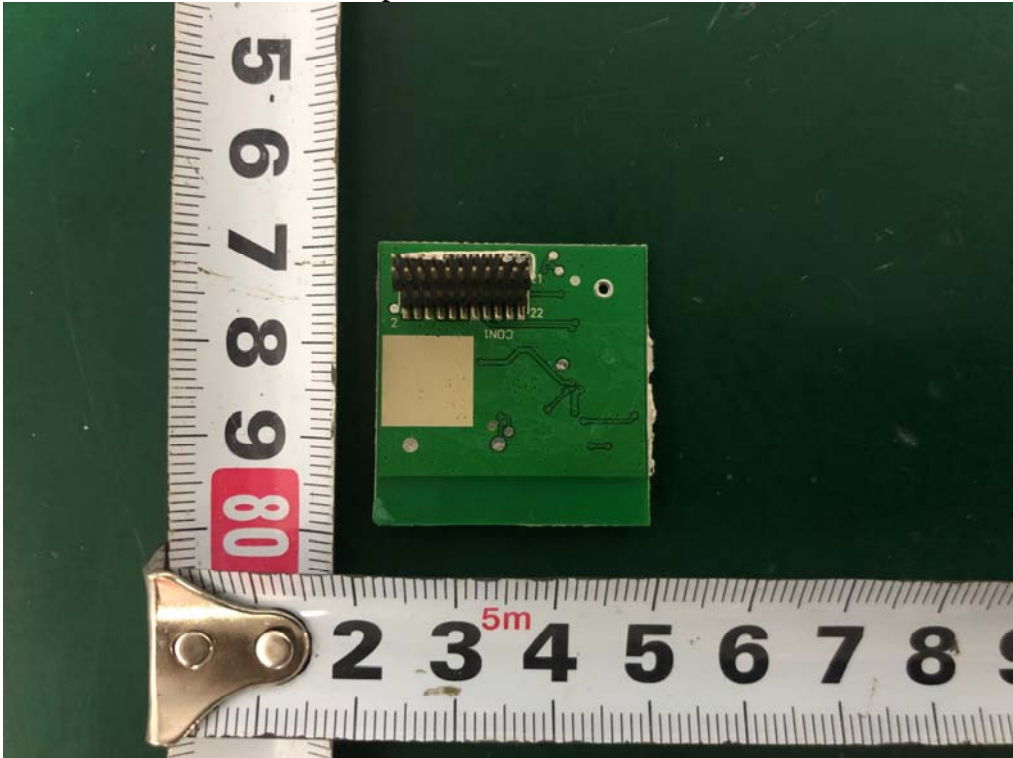


Internal Photos

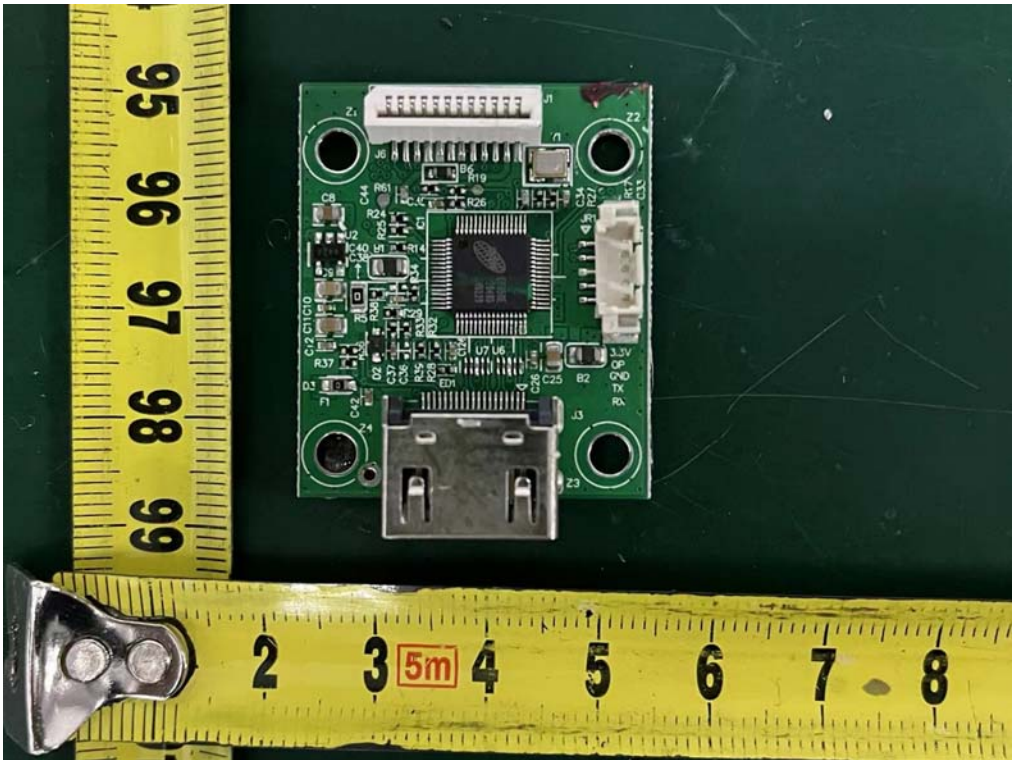
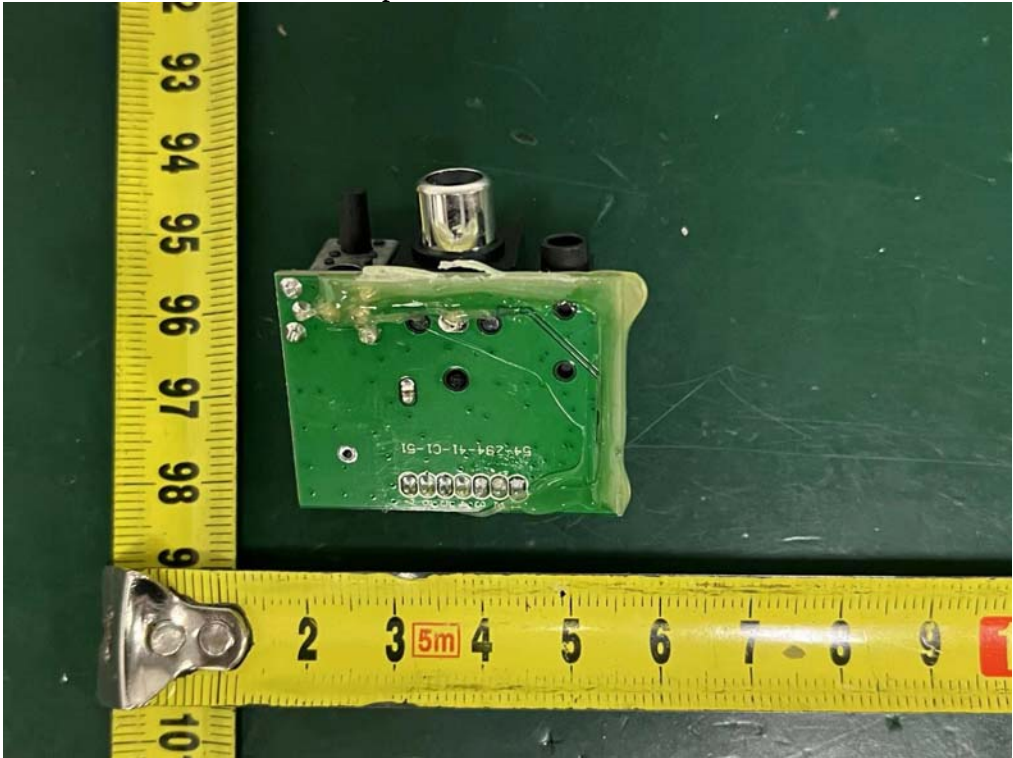
M/N: Klipsch Cinema 600-Sound Bar



Internal Photos
M/N: Klipsch Cinema 600-Sound Bar

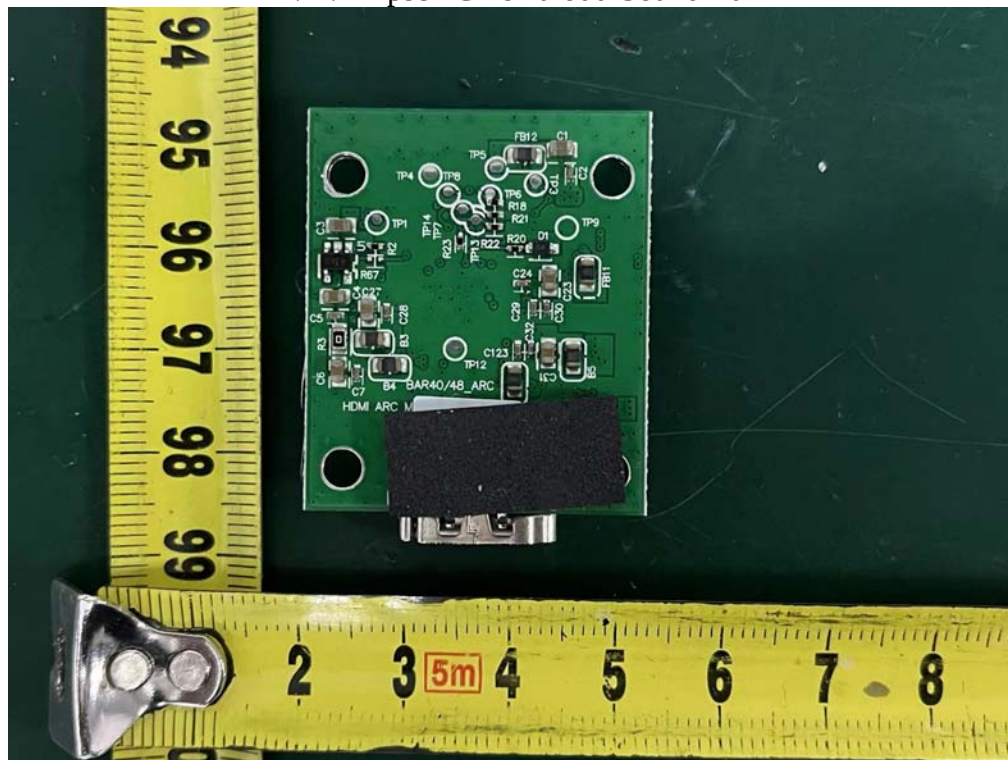


Internal Photos
M/N: Klipsch Cinema 600-Sound Bar

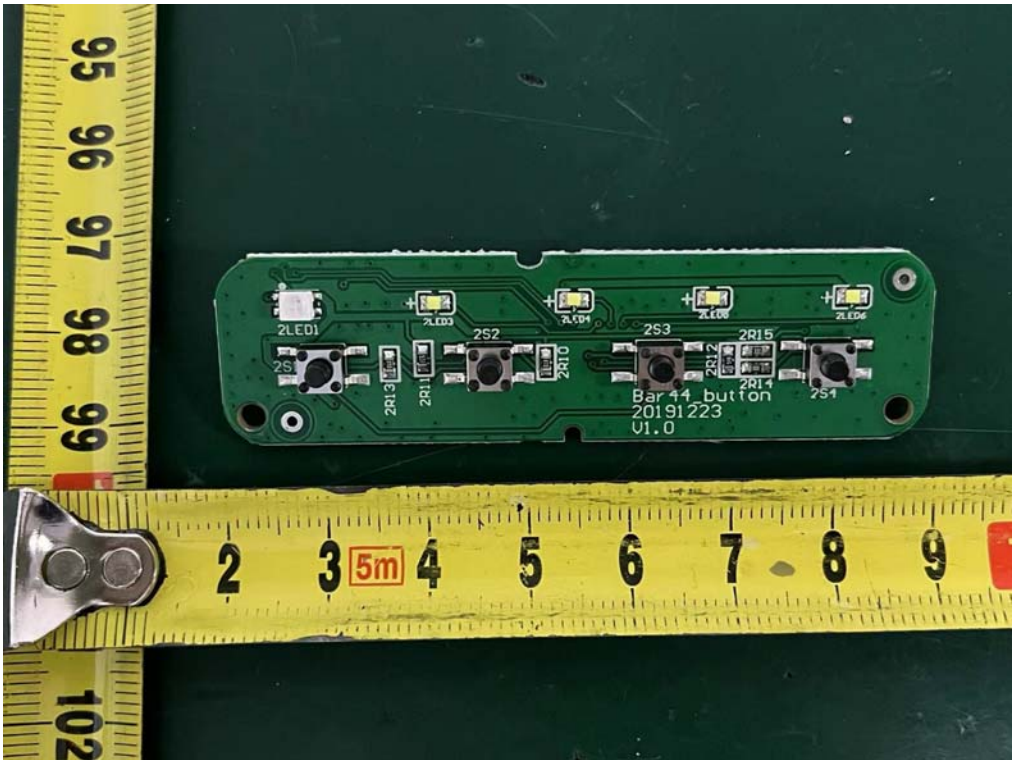
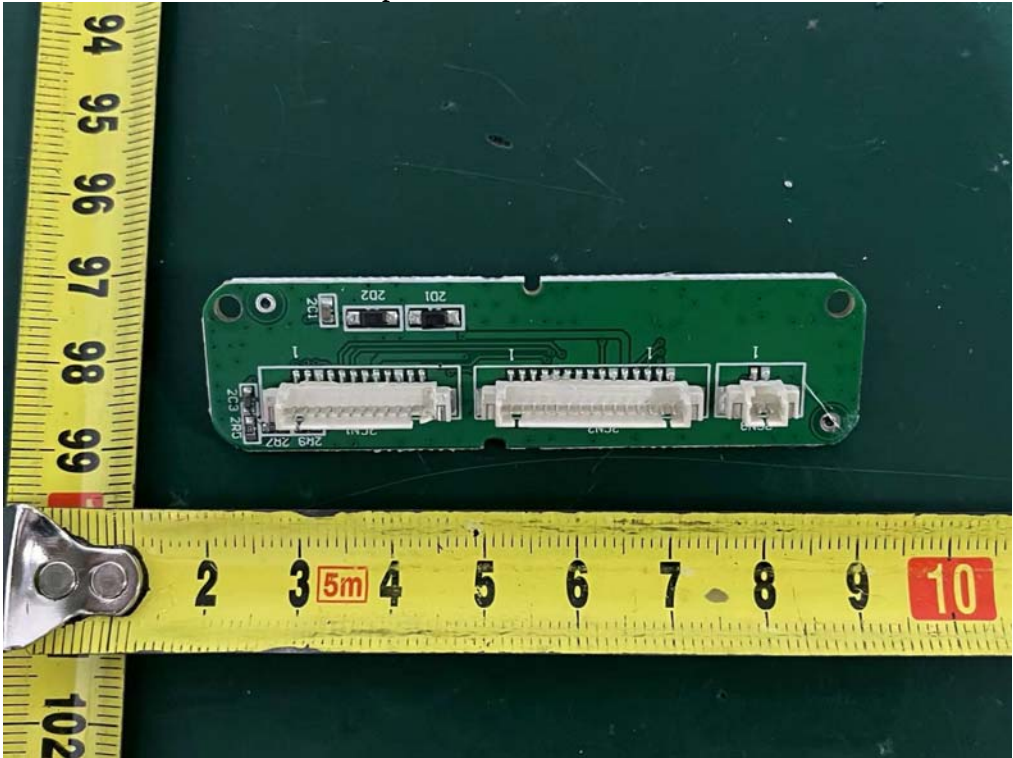


Internal Photos

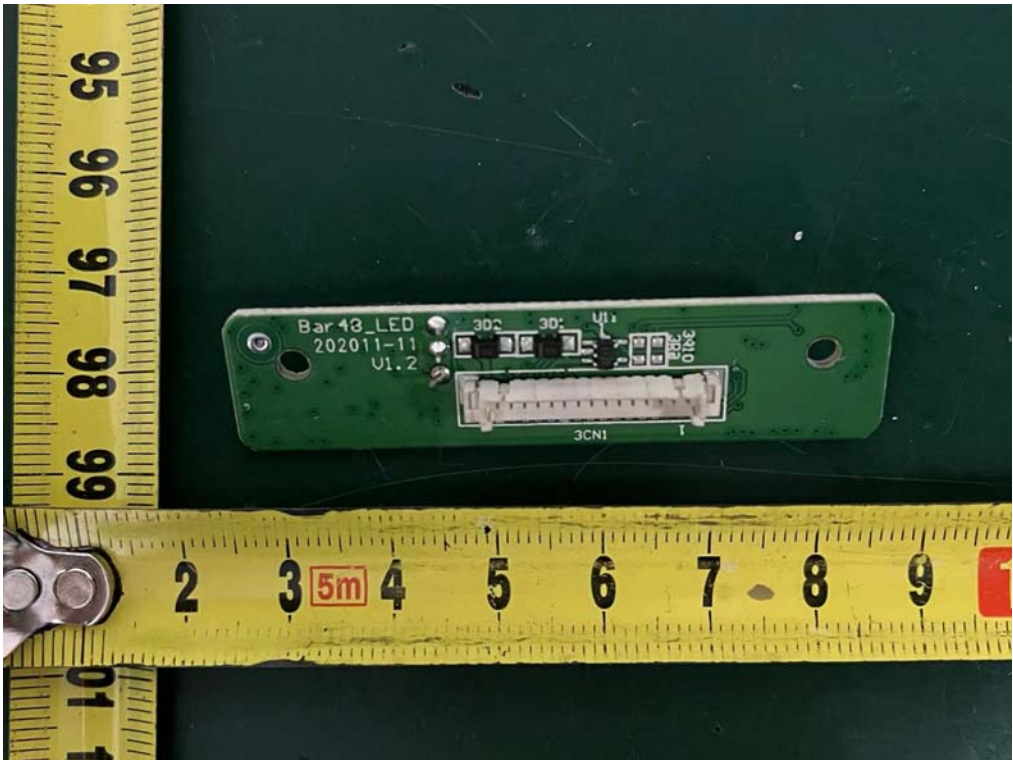
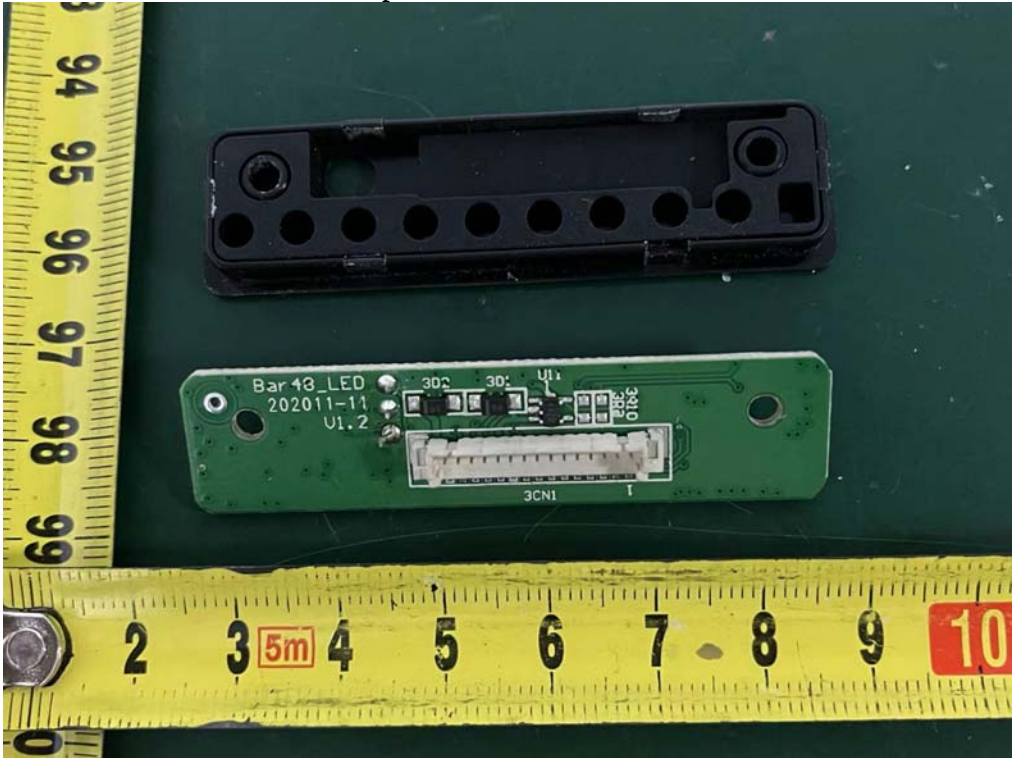
M/N: Klipsch Cinema 600-Sound Bar



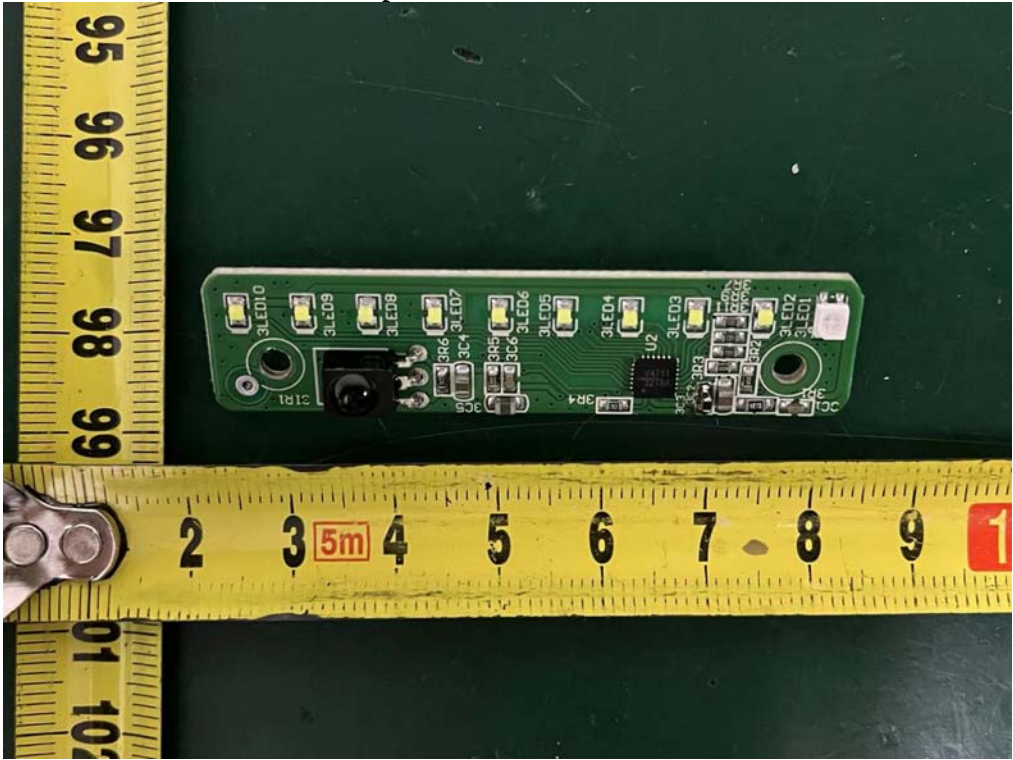
Internal Photos
M/N: Klipsch Cinema 600-Sound Bar



Internal Photos
M/N: Klipsch Cinema 600-Sound Bar



Internal Photos
M/N: Klipsch Cinema 600-Sound Bar



End of Test Report