

FCC Test Report

Report No.: AGC07716190801FE02A

FCC ID : 2AFENXK03S

APPLICATION PURPOSE : Class II Equipment

PRODUCT DESIGNATION : LED Projector

BRAND NAME : XGIMI

MODEL NAME : XK03S, XK04S, XK05S, XK06S, XK07S, XK08S, XK09S, XK10S, XK11S, XK12S, XK13S, XK14S, XK15S, XK16S, XK17S, XK18S, XK19S, XK20S, XK21S, XK22S, XK23S, XK24S, XK25S, XK26S, XK27S, XK28S, XK29S, XK30S, XK31S, XK32S

APPLICANT : Chengdu XGIMI Technology Co., Ltd.

DATE OF ISSUE : Jan. 09, 2021

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 09, 2021	Valid	Re-certification Report

Note:

The original test report Ref. No. AGC07716190801FE02 dated Sep. 16, 2019, was modified on Jan. 09, 2021 to include the following changes:

- Changed the name of the Applicant
- Changed the name of the Manufacturer
- Changed the name and address of the Factory
- Changed the battery
- Change the main chip packaging substrate;
- Change the photos of EUT;
- So the Conducted Emission and Radiated Emission had been tested for the Class II permissive change.

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1. VERIFICATION OF COMPLIANCE

Applicant	Chengdu XGIMI Technology Co., Ltd.
Address	Building Building A4, Tianfu Software Park, High-tech zone, Chengdu, Sichuan, China 610041
Manufacturer	Chengdu XGIMI Technology Co., Ltd.
Address	Building A4, Tianfu Software Park, High-tech zone, Chengdu, Sichuan, China 610041
Factory 1	TCL KING ELECTRICAL APPLIANCE (CHENG DU) CO., LTD.
Address	No.18 Kexin Road, Hi-Tech Development Zone (West Park), Chengdu, Sichuan
Factory 2	Yibin XGIMI Optoelectronics Co., Ltd.
Address	A3, Intelligent Terminal Industrial Park, Cuiping District, Yibin City, Sichuan Province P.R.China Room 328, Enterprise Service Center, No.17, West Section 3, Changjiang North Road, Lingang Economic Development Zone, Yibin City, Sichuan Province P.R. China
Product Designation	LED Projector
Brand Name	XGIMI
Test Model	XK03S
Series Model	XK04S, XK05S, XK06S, XK07S, XK08S, XK09S, XK10S, XK11S, XK12S, XK13S, XK14S, XK15S, XK16S, XK17S, XK18S, XK19S, XK20S, XK21S, XK22S, XK23S, XK24S, XK25S, XK26S, XK27S, XK28S, XK29S, XK30S, XK31S, XK32S
Difference description	All the same except for the model name and different appearance color
Date of test	Dec. 04, 2020 to Jan. 08, 2021
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BLE/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By sky dong
Sky Dong
(Project Engineer)
Jan. 08, 2021

Reviewed By max zhang
Max Zhang
(Reviewer)
Jan. 09, 2021

Approved By Forrest Lei
Forrest Lei
(Authorized Officer)
Jan. 09, 2021

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2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a “LED Projector”. It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	4.070dBm(Max)
Bluetooth Version	V 4.2
Modulation	BR ☒ GFSK, EDR ☒ π /4-DQPSK, ☒ 8DPSK BLE ☒ GFSK 1Mbps ☐ GFSK 2Mbps
Number of channels	40 Channel
Antenna Designation	FPC Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	3.15dBi
Hardware Version	V03
Software Version	V1.0.0
Power Supply	DC 14.4V by battery or DC 19V by adapter

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ

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2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AFENXK03S** filing to comply with the FCC Part 15.247 requirements.

2.4 TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of total RF power, conducted, $U_c = \pm 0.8$ dB
- Uncertainty of RF power density, conducted, $U_c = \pm 2.6$ dB
- Uncertainty of spurious emissions, conducted, $U_c = \pm 2.7$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

Note:

1. Only the result of the worst case was recorded in the report, if no other cases..
2. The test software is the SecureCRTSecure_V7.0.0.326 which can set the EUT into the individual test modes.

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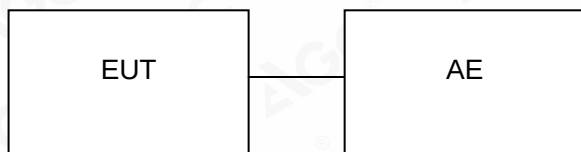
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5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	LED Projector	XK03S	2AFENXK03S	EUT
3	Adapter	HKA06519034-6J	Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 19V --- 3.42A	Market with EUT
4	Loudspeaker	--	--	AE
5	PC	Xiaomi	Air 13.3	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant

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Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02,2021
Test software	R&S	ES-K1 (Ver V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A

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7. RADIATED EMISSION

7.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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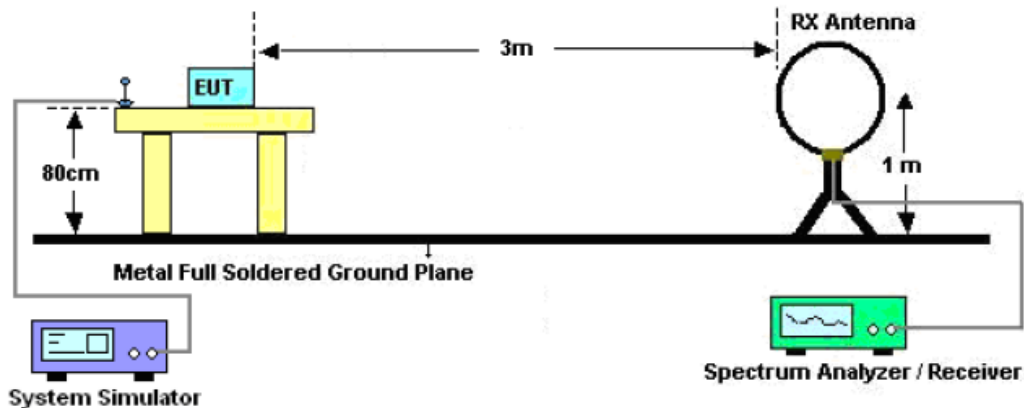
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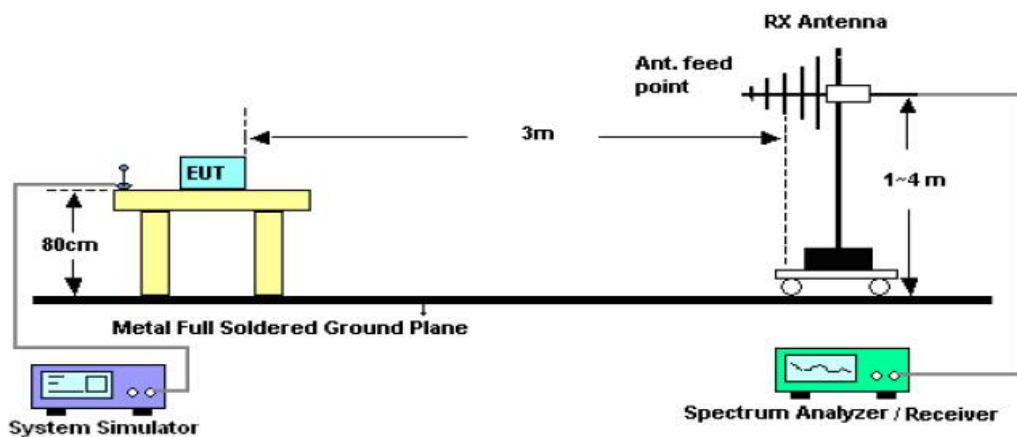


7.2. TEST SETUP

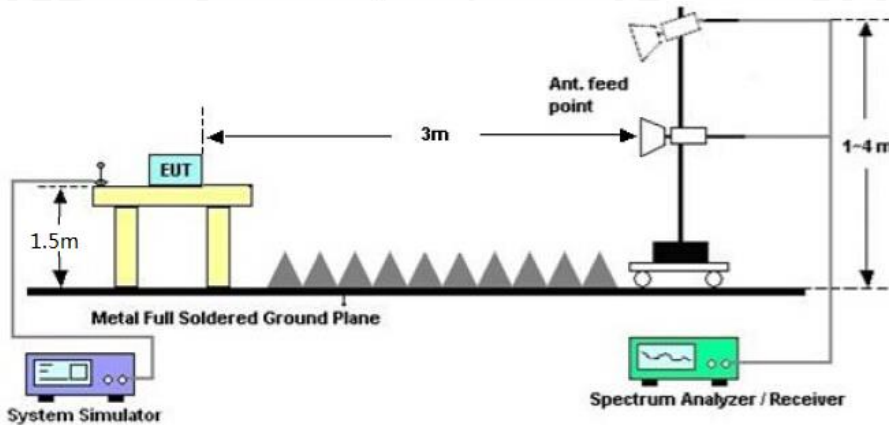
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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7.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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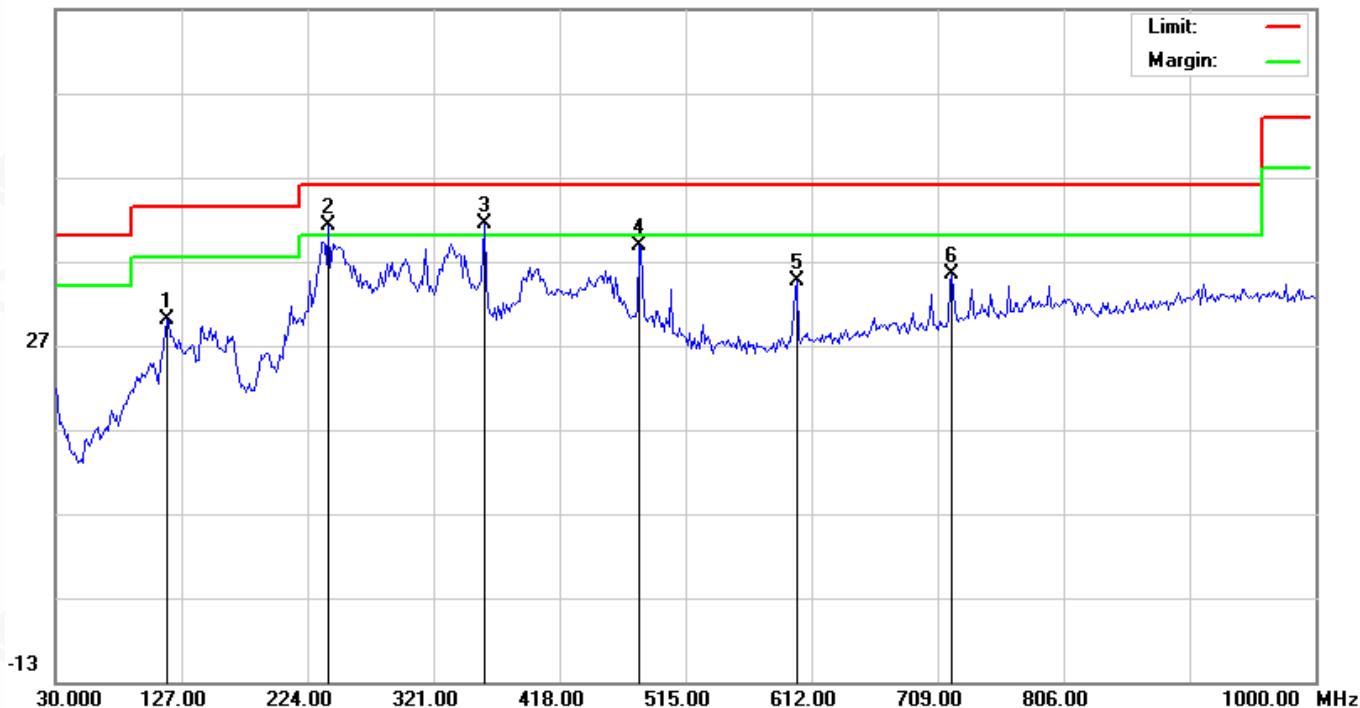
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RADIATED EMISSION BELOW 1GHZ

EUT	LED Projector	Model Name	XK03S
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		115.6833	12.52	17.55	30.07	43.50	-13.43	peak
2	!	240.1667	22.64	18.66	41.30	46.00	-4.70	peak
3	*	359.8000	19.82	21.57	41.39	46.00	-4.61	peak
4		479.4333	14.23	24.58	38.81	46.00	-7.19	peak
5		600.6833	7.71	26.96	34.67	46.00	-11.33	peak
6		720.3167	6.73	28.61	35.34	46.00	-10.66	peak

RESULT: PASS

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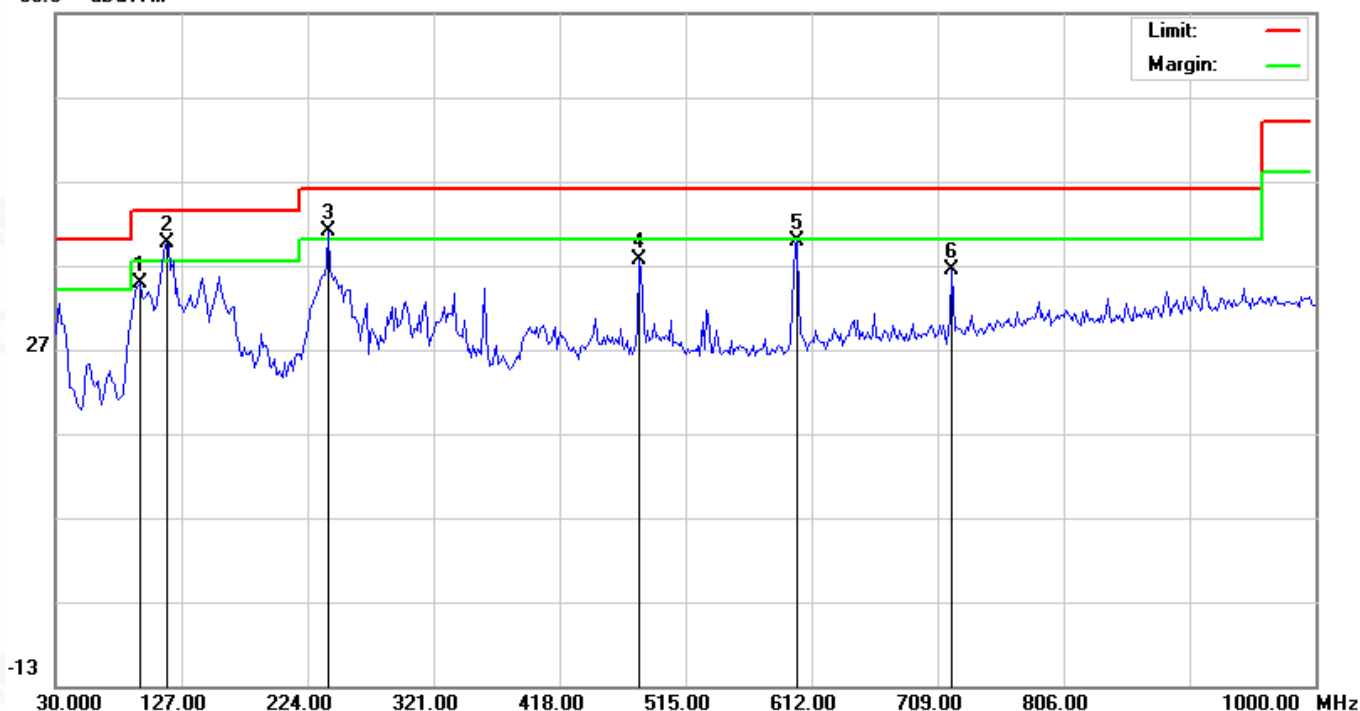
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EUT	LED Projector	Model Name	XK03S
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		94.6667	19.36	15.46	34.82	43.50	-8.68	peak
2	*	115.6833	22.09	17.55	39.64	43.50	-3.86	peak
3	!	240.1667	22.25	18.66	40.91	46.00	-5.09	peak
4		479.4333	13.04	24.58	37.62	46.00	-8.38	peak
5		600.6833	12.83	26.96	39.79	46.00	-6.21	peak
6		720.3167	7.70	28.61	36.31	46.00	-9.69	peak

RESULT: PASS

Note:

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	LED Projector	Model Name	XK03S
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.024	51.65	0.08	51.73	74.00	-22.27	peak
4804.024	47.57	0.08	47.65	54.00	-6.35	AVG
7206.036	42.89	2.21	45.10	74.00	-28.90	peak
7206.036	38.73	2.21	40.94	54.00	-13.06	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	LED Projector	Model Name	XK03S
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.024	52.35	0.08	52.43	74.00	-21.57	peak
4804.024	47.58	0.08	47.66	54.00	-6.34	AVG
7206.036	43.44	2.21	45.65	74.00	-28.35	peak
7206.036	41.08	2.21	43.29	54.00	-10.71	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	LED Projector	Model Name	XK03S
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4880.024	51.59	0.14	51.73	74.00	-22.27	peak
4880.024	46.82	0.14	46.96	54.00	-7.04	AVG
7320.036	45.67	2.36	48.03	74.00	-25.97	peak
7320.036	43.16	2.36	45.52	54.00	-8.48	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	LED Projector	Model Name	XK03S
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4880.024	52.53	0.14	52.67	74.00	-21.33	peak
4880.024	48.79	0.14	48.93	54.00	-5.07	AVG
7320.036	45.62	2.36	47.98	74.00	-26.02	peak
7320.036	43.25	2.36	45.61	54.00	-8.39	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	LED Projector	Model Name	XK03S
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.024	50.47	0.22	50.69	74.00	-23.31	peak
4960.024	46.74	0.22	46.96	54.00	-7.04	AVG
7440.036	45.35	2.64	47.99	74.00	-26.01	peak
7440.036	42.96	2.64	45.60	54.00	-8.40	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	LED Projector	Model Name	XK03S
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.024	50.49	0.22	50.71	74.00	-23.29	peak
4960.024	47.57	0.22	47.79	54.00	-6.21	AVG
7440.036	44.45	2.64	47.09	74.00	-26.91	peak
7440.036	40.43	2.64	43.07	54.00	-10.93	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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8. FCC LINE CONDUCTED EMISSION TEST

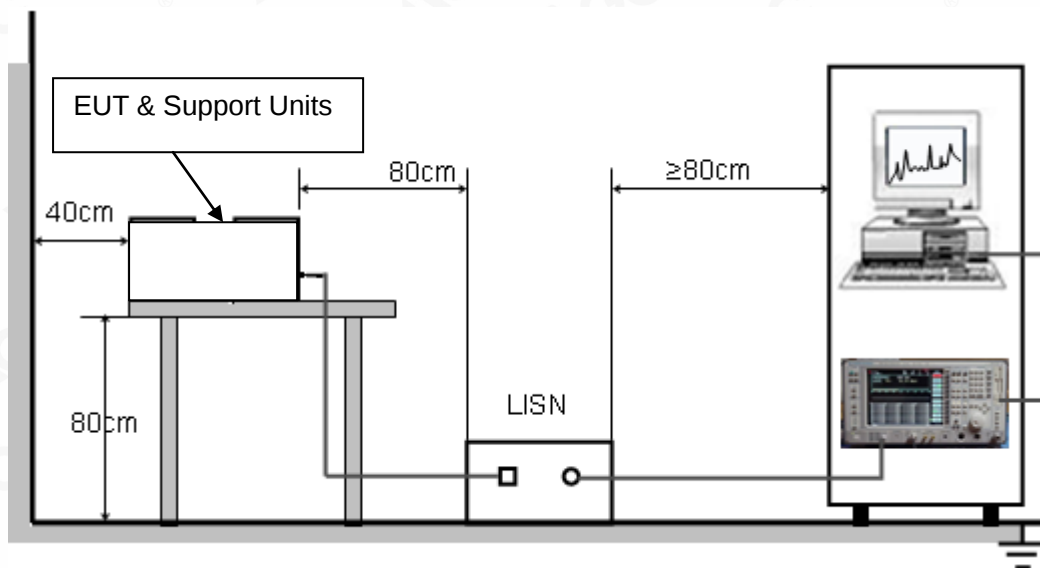
8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

8.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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8.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by adapter which received AC120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

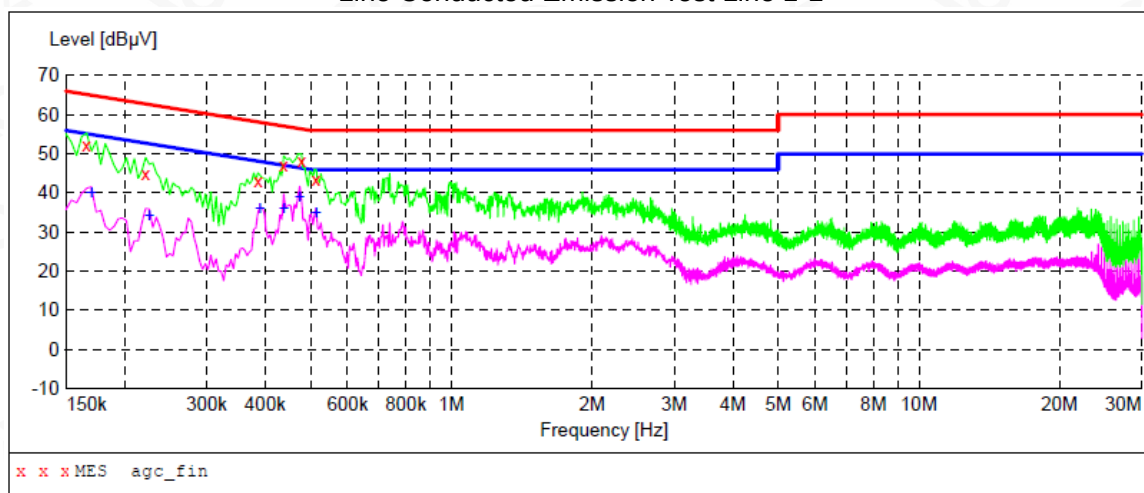
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

8.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

8.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

2020/12/7 9:29

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.166000	52.10	11.3	65	13.1	QP	L1
0.222000	44.80	11.3	63	17.9	QP	L1
0.386000	43.00	11.3	58	15.1	QP	L1
0.438000	47.00	11.3	57	10.1	QP	L1
0.478000	48.00	11.3	56	8.4	QP	L1
0.514000	43.50	11.3	56	12.5	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2020/12/7 9:29

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.170000	40.00	11.3	55	15.0	AV	L1
0.226000	34.30	11.3	53	18.3	AV	L1
0.390000	36.20	11.3	48	11.9	AV	L1
0.438000	36.30	11.3	47	10.8	AV	L1
0.474000	39.00	11.3	46	7.4	AV	L1
0.514000	34.90	11.3	46	11.1	AV	L1

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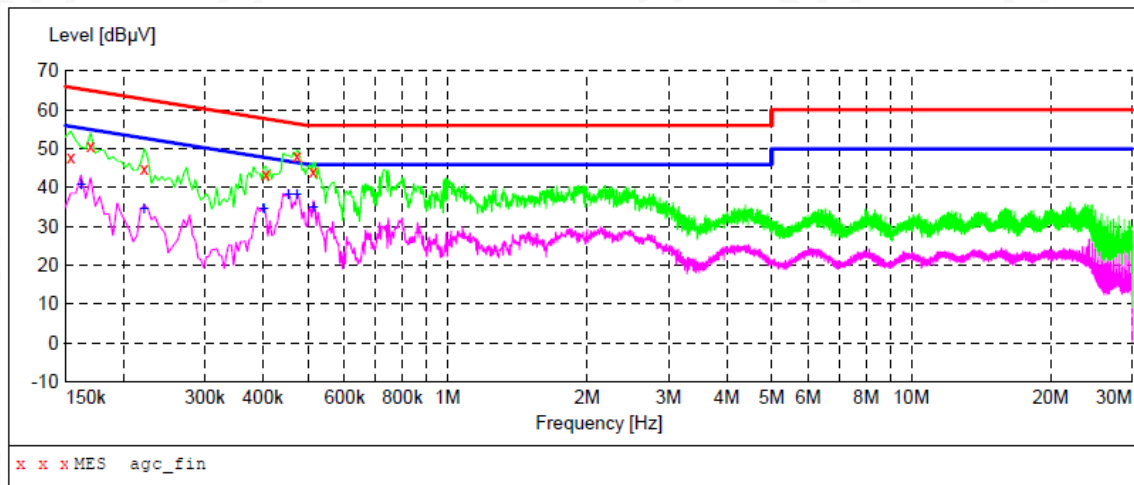
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Line Conducted Emission Test Line 2-N


MEASUREMENT RESULT: "agc_fin"

2020/12/7 9:47

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.154000	47.90	11.3	66	17.9	QP	N
0.170000	50.90	11.3	65	14.1	QP	N
0.222000	44.90	11.3	63	17.8	QP	N
0.406000	43.50	11.3	58	14.2	QP	N
0.474000	48.10	11.3	56	8.3	QP	N
0.514000	44.20	11.3	56	11.8	QP	N

MEASUREMENT RESULT: "agc_fin2"

2020/12/7 9:47

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	40.80	11.3	55	14.6	AV	N
0.222000	34.80	11.3	53	17.9	AV	N
0.402000	34.50	11.3	48	13.3	AV	N
0.454000	38.30	11.3	47	8.5	AV	N
0.474000	38.30	11.3	46	8.1	AV	N
0.514000	35.10	11.3	46	10.9	AV	N

RESULT: PASS

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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CONDUCTED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



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A white, cylindrical Harman/Kardon Citation 100 portable speaker is shown from the front. The speaker has a black top section with a circular grille and a black bottom section with a fine, woven mesh. The Harman/Kardon logo is visible on the lower front. A metal ruler is placed horizontally in front of the speaker for scale, showing the speaker is approximately 100mm wide. The background is a blue surface.

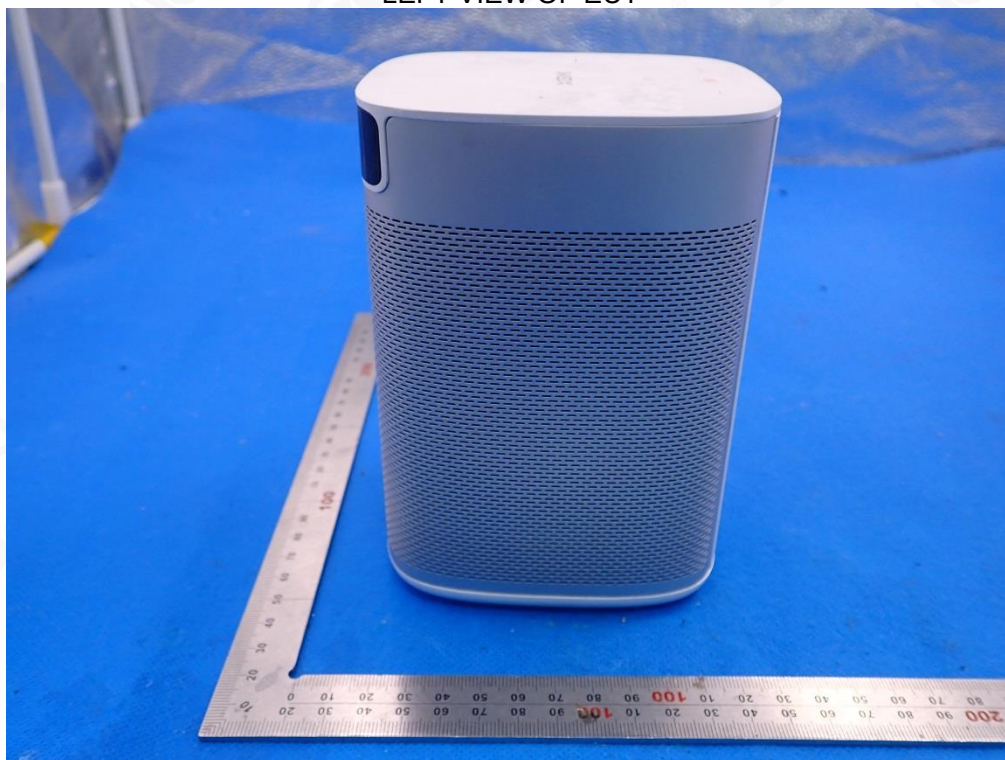
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BACK VIEW OF EUT



LEFT VIEW OF EUT



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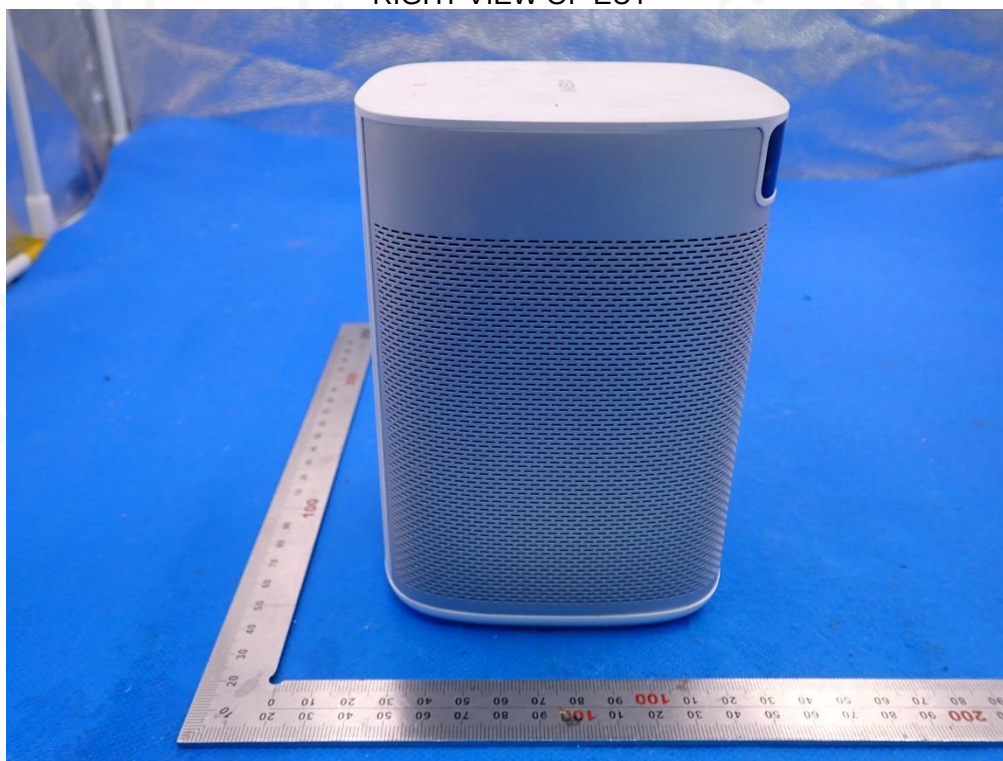
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RIGHT VIEW OF EUT



PORT VIEW OF EUT



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OPEN VIEW OF EUT



INTERNAL VIEW-1 OF EUT



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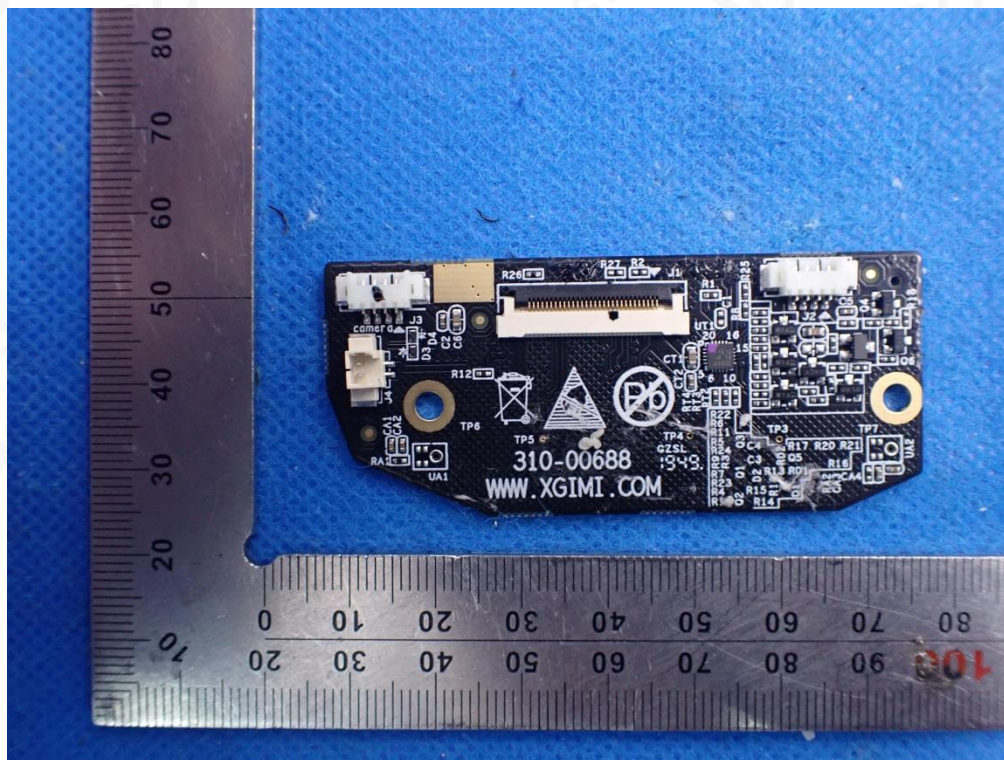
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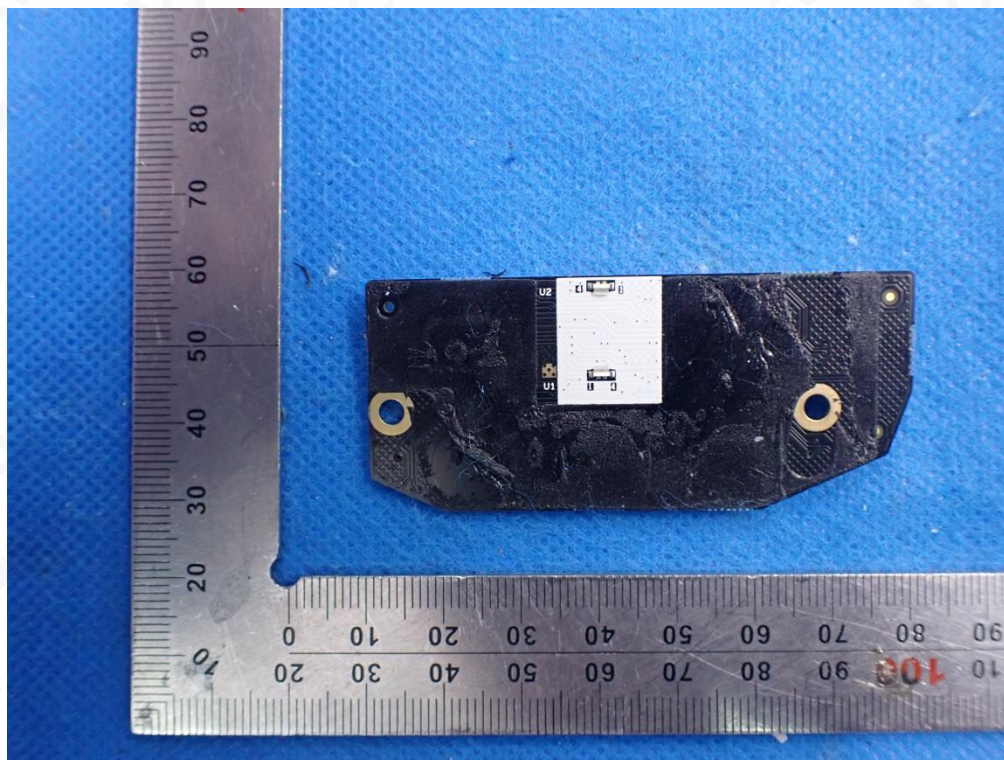
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INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT



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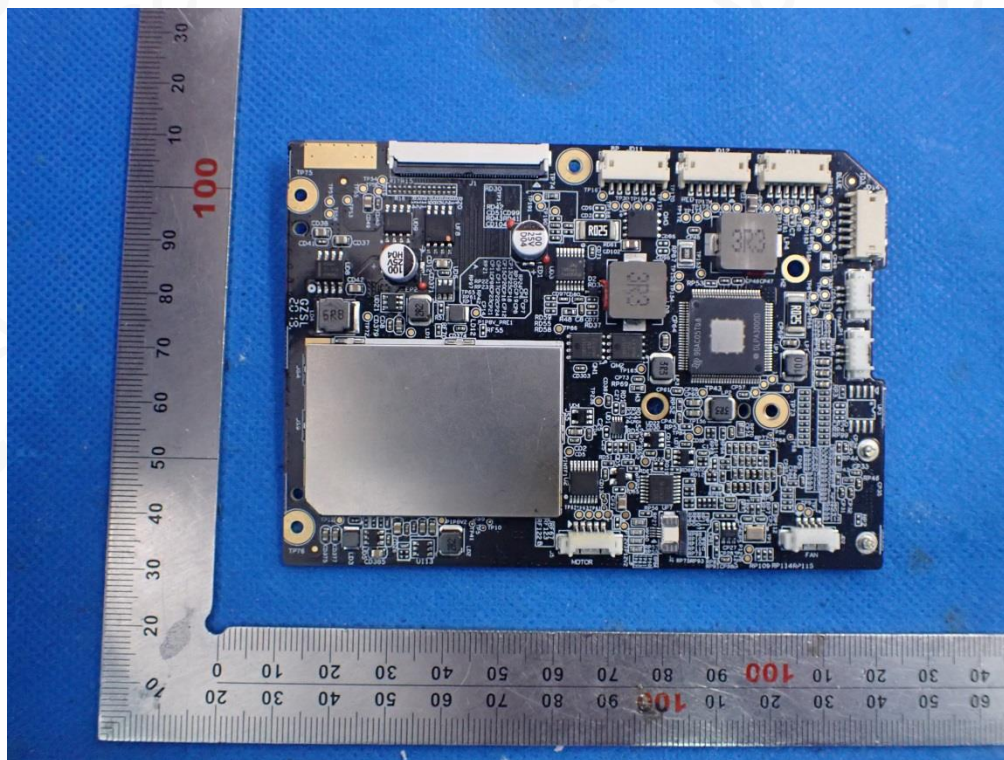
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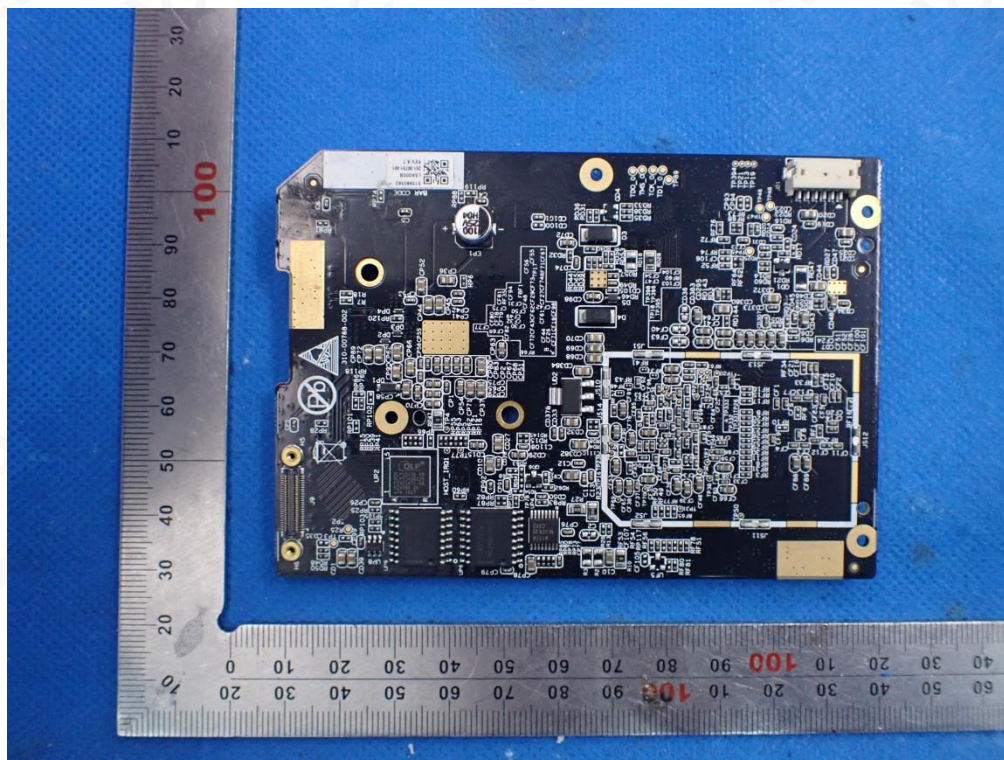
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INTERNAL VIEW-4 OF EUT



INTERNAL VIEW-5 OF EUT



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