

FCC Part 15B Test Report

FCC ID: 2A4DV-A1362

Report No. : TBR-C-202308-0029-2
Applicant : HUNAN ETOE Technology Co., Ltd
Equipment Under Test (EUT)
EUT Name : Smart Projector
Model No. : A1362
Series Model No. : ----
Brand Name : ETOE
Sample ID : HC-C-202308-0029-01-01
Receipt Date : 2023-08-17
Test Date : 2023-08-17 to 2023-10-19
Issue Date : 2023-10-19
Standards : FCC 47 CFR Part 15 Subpart B
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above
The EUT technically complies with the FCC requirements.

Test/Witness Engineer : 
Camille Li

Engineer Supervisor : 
Ivan Su

Authorized Signatory : 
Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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1. General Information

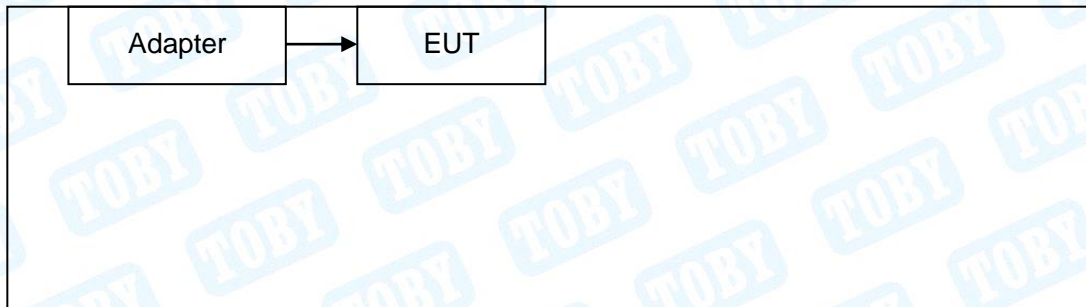
1.1 Client Information

Applicant	:	HUNAN ETOE Technology Co., Ltd
Address	:	Room 603, Building 3, Zone A, Jindaoyuan, NO.169, Huizhi Zhong Road, High-tech District, Changsha, China
Manufacturer	:	HUNAN ETOE Technology Co., Ltd
Address	:	Room 603, Building 3, Zone A, Jindaoyuan, NO.169, Huizhi Zhong Road, High-tech District, Changsha, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Smart Projector
Model(s)	:	A1362
Model Difference	:	----
Fx	:	≥ 108 MHz
Power Rating	:	Input: DC 24V, 7.5A
Software Version	:	----
Hardware Version	:	----
Equipment	:	<input type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B
<p>Class A Equipment: the Equipment is not intended primarily for use in a residential environment.</p> <p>Class B Equipment: the Equipment is intended primarily for use in a residential environment.</p> <p>Fx: Highest frequency generated or used in the device or on which the device operates or tunes (MHz).</p>		

1.3 Block Diagram Showing The Configuration of System Tested



1.4 Description of Support Units

Equipment Information				
Name	Model	S/N	Manufacturer	Used “√”
Adapter	----	-----	----	√
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
----	-----	-----	----	----
Note: The adapter is provided by applicant.				

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

Pretest Mode	Description
Mode 1	Full system Mode
Full System Mode: The EUT output used HDMI and Playing with U Disk.	

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For EMI Test	
Final Test Mode	Description
Mode 1	Full system Mode
For EMS Test	
Final Test Mode	Description
Mode 1	Full system Mode

1.6 Test standards

The objective is to determine compliance with FCC Part 15, Subpart B, and section 15.107, 15.109 rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.7 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

1.8 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 %.

Test	Parameters	Expanded Uncertainty (U_{Lab})	Expanded Uncertainty (U_{Cispr})
Conducted Emission	Level Accuracy: 9kHz~150kHz	± 3.50 dB	± 4.0 dB
	150kHz to 30MHz	± 3.10 dB	± 3.6 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.50 dB	N/A
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.40 dB	± 5.2 dB

2. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
Radiation Emission	EZ-EMC	EZ	FA-03A2RE+

3. Test Summary

Test Items	Test Requirement	Test Method	Result
Conducted Emission	FCC 47 CFR Part 15 Section 15.107	ANSI C63.4-2014	Pass
Radiated Emission	FCC 47 CFR Part 15 Section 15.109	ANSI C63.4-2014	Pass

Note: N/A is an abbreviation for Not Applicable.

4. Test Equipment Used

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 20, 2023	Jun. 19, 2024
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jun. 20, 2023	Jun. 19, 2024
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 20, 2023	Jun. 19, 2024
LISN	Rohde & Schwarz	ENV216	101131	Jun. 20, 2023	Jun. 19, 2024
ISN	SCHWARZBECK	NTFM 8131	8131-193	Jun. 20, 2023	Jun. 19, 2024
ISN	SCHWARZBECK	CAT3 8158	cat3 5158-0094	Jun. 20, 2023	Jun. 19, 2024
ISN	SCHWARZBECK	NTFM5158	NTFM5158 0145	Jun. 06, 2023	Jun. 05, 2024
ISN	SCHWARZBECK	CAT 8158	cat5 8158-179	Jun. 20, 2023	Jun. 19, 2024
Radiation Emission Test (B Site)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 30, 2023	Aug. 29, 2024
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 20, 2023	Jun. 19, 2024
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 23, 2023	Feb.22, 2024
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Dec. 05, 2021	Dec. 04, 2023
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Feb. 26, 2022	Feb.25, 2024
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Jun. 26, 2022	Jun.25, 2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 26, 2022	Jun.25, 2024
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 30, 2023	Aug. 29, 2024
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 30, 2023	Aug. 29, 2024
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 30, 2023	Aug. 29, 2024

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 23, 2022	Jun. 22, 2023
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jun. 23, 2022	Jun. 22, 2023
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 22, 2022	Jun. 21, 2023
LISN	Rohde & Schwarz	ENV216	101131	Jun. 22, 2022	Jun. 21, 2023
ISN	SCHWARZBECK	NTFM 8131	8131-193	Jun. 22, 2022	Jun. 21, 2023
ISN	SCHWARZBECK	CAT3 8158	cat3 5158-0094	Jun. 22, 2022	Jun. 21, 2023
ISN	SCHWARZBECK	NTFM5158	NTFM5158 0145	Jun. 22, 2022	Jun. 21, 2023
ISN	SCHWARZBECK	CAT 8158	cat5 8158-179	Jun. 22, 2022	Jun. 21, 2023
Radiation Emission Test (B Site)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep.01.2022	Aug. 31, 2023
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 23, 2022	Jun. 22, 2023
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 23, 2023	Feb.22, 2024
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Dec. 05, 2021	Dec. 04, 2023
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Feb. 26, 2022	Feb.25, 2024
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Jun. 26, 2022	Jun.25, 2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 26, 2022	Jun.25, 2024
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Sep.01.2022	Aug. 31, 2023
HF Amplifier	Tonscend	TAP051845	AP21C806141	Sep.01.2022	Aug. 31, 2023
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Sep.01.2022	Aug. 31, 2023

5. Label Requirements & Statement Requirements

Class B

Label Requirements

Class B digital device subject to certification by the FCC shall carry a warning label which includes the following statement:

***** WARNING *****

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.

Class A

Statement Requirements

The operator's manual for a Class A digital device shall contain the following statements or their equivalent:

***** WARNING *****

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equivalent.

If the EUT was tested with special shielded cables the operator's manual for such product shall also contain the following statements or their equivalent:

Shielded interface cables and/or AC power cord, if any, must be used in order to comply with the emission limits.

6. Conducted Emission Test

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.107

6.1.2 Test Limit

Conducted Emission Test Limit (Class A)

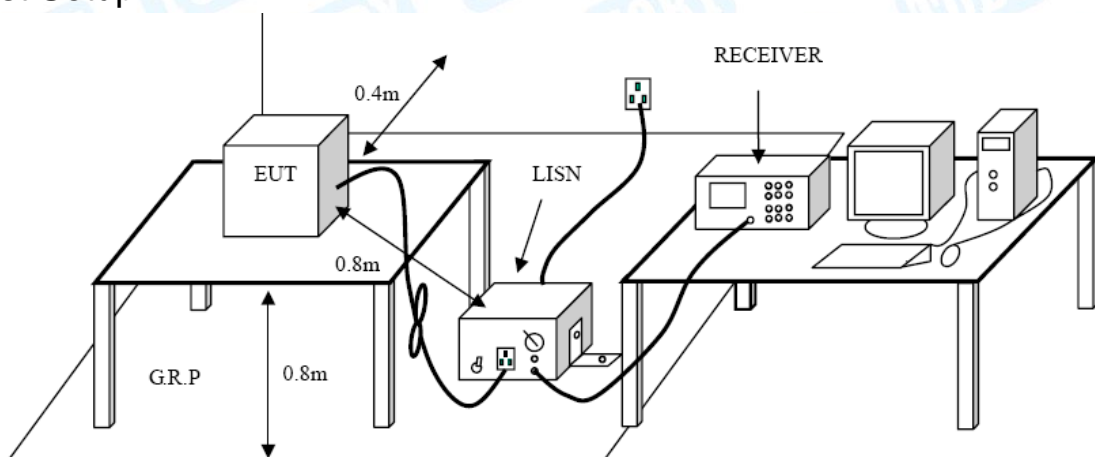
Frequency (MHz)	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
0.15~0.50	79	66
0.50~30	73	60

Conducted Emission Test Limit (Class B)

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
0.15~0.5	66 ~ 56 *	56 ~ 46 *
0.50~5	56	46
5~30	60	50

*decreasing linearly with logarithm of the frequency

6.2 Test Setup



6.3 Test Procedure

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Mode

Please refer to the description of test mode.

6.6 Test Data

Please refer to the Attachment A.

7. Radiated Emission Test

7.1 Test Standard and Limit

7.1.1 Test Standard

FCC Part 15.109

7.1.2 Test Limit

Radiated Emission Test Limit (Class A)	
Frequency MHz	Field Strengths Limits dB(μV/m)
30 ~ 88	49.0
88 ~ 216	53.5
216 ~ 960	56.4
Above 960	59.5
Radiated Emission Test Limit (Class B)	
Frequency MHz	Field Strengths Limits dB(μV/m)
30 ~ 88	40.0
88 ~ 216	43.5
216 ~ 960	46.0
Above 960	54.0

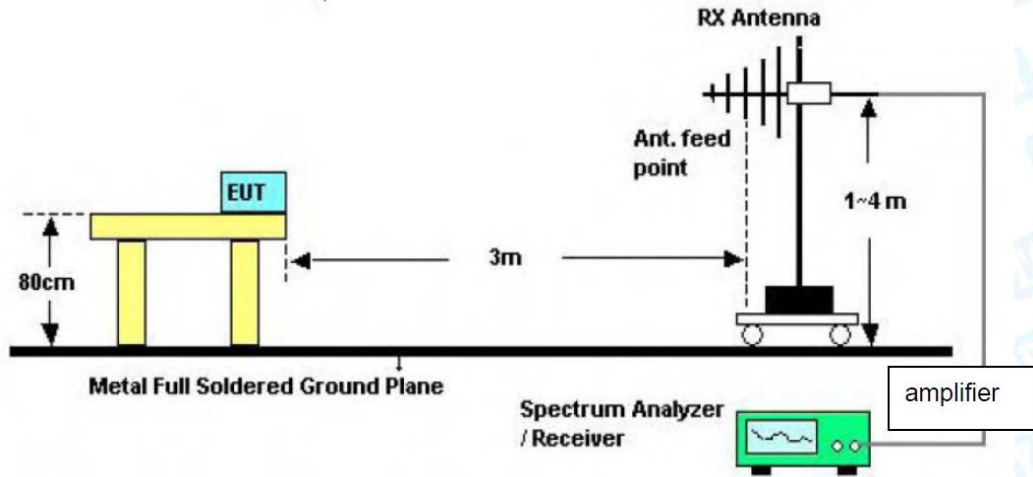
* The lower limit shall apply at the transition frequency.
* The test distance is 3m.

Frequency (MHz)	Class A Radiated Limit (dBμV/m)- Distance of 3 metres	
	Linear Average Detector	Peak Detector
> 1000	59.5	79.5
Frequency (MHz)	Class B Radiated Limit (dBμV/m)-Distance of 3 metres	
	Linear Average Detector	Peak Detector
> 1000	54	74

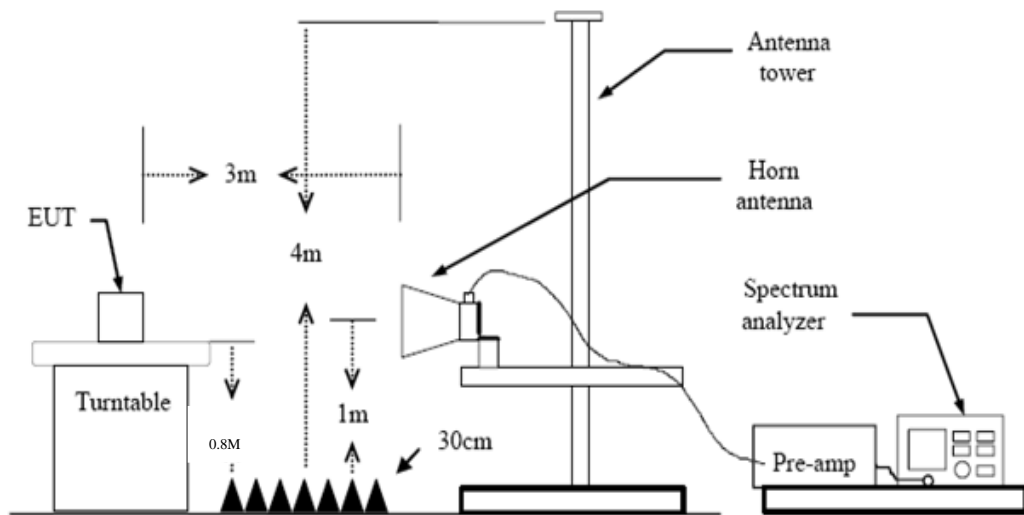
Note:

Highest Frequency Generated or Used in Device	Upper Frequency of Radiated Measurement
Below 1.705 MHz	No radiated testing required
1.705 MHz – 108 MHz	1 GHz
108 MHz – 500 MHz	2 GHz
500 MHz – 1 GHz	5 GHz
Above 1 GHz	5 th harmonic of the highest frequency or 40 GHz, whichever is lower.

7.2 Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

7.3 Test Procedure

The EUT was placed on the top of a rotating table which is 0.8 meters above the ground. EUT is set 3.0 meters away from the receiving antenna that mounted on a antenna tower. The table was rotated 360 degrees to determine the position of the highest radiation, the antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

Measurements shall be made with a quasi-peak measuring receiver in the frequency range 30MHz to 1000MHz. If the Peak Mode measured value compliance with and lower than quasi-peak mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. Measurements shall be made with a Peak and AVG measuring receiver in the frequency range Above 1000MHz.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Mode

Please refer to the description of test mode.

7.6 Test Data

Please refer to the Attachment B.

8. Photographs - Constructional Details

Photo 1 Appearance of EUT



Photo 2 Appearance of EUT



Photo 3 Appearance of EUT



Photo 4 Appearance of EUT



Photo 5 Appearance of EUT

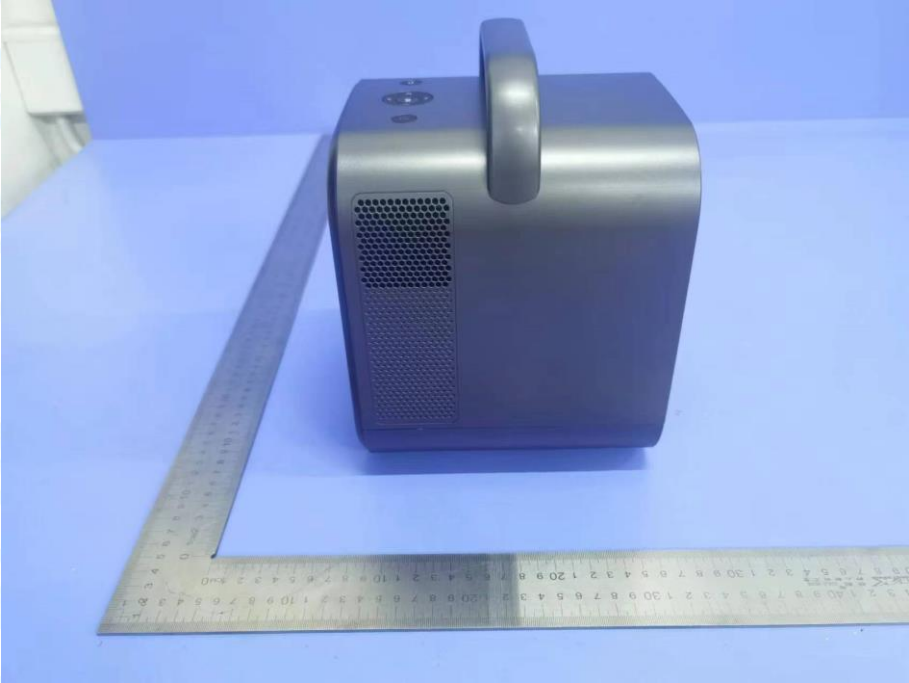


Photo 6 Appearance of EUT

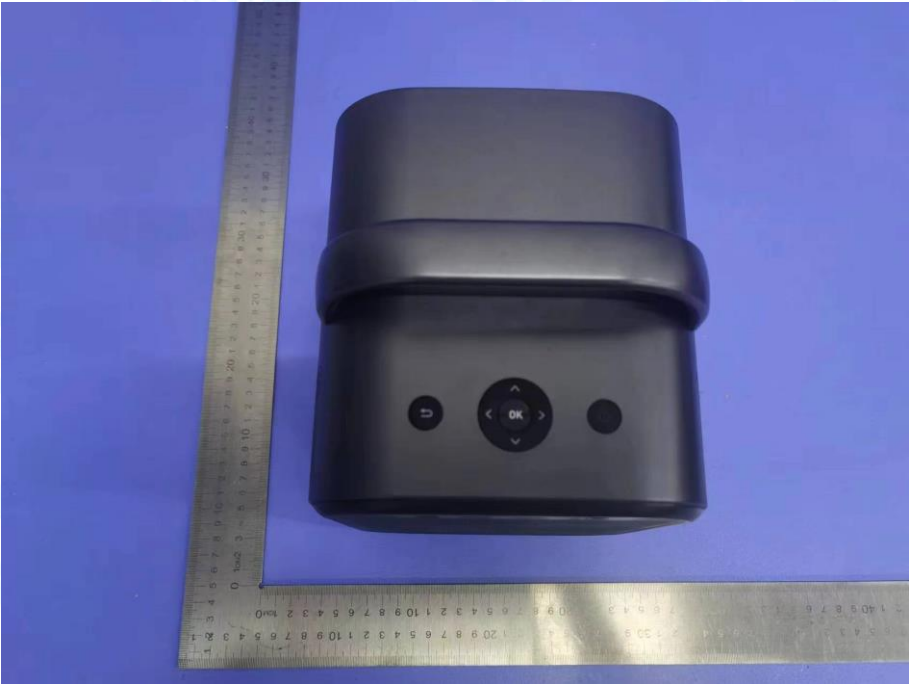


Photo 7 Appearance of EUT



Photo 8 Appearance of EUT



Photo 9 Internal of EUT



Photo 10 Internal of EUT



Photo 11 Internal of EUT

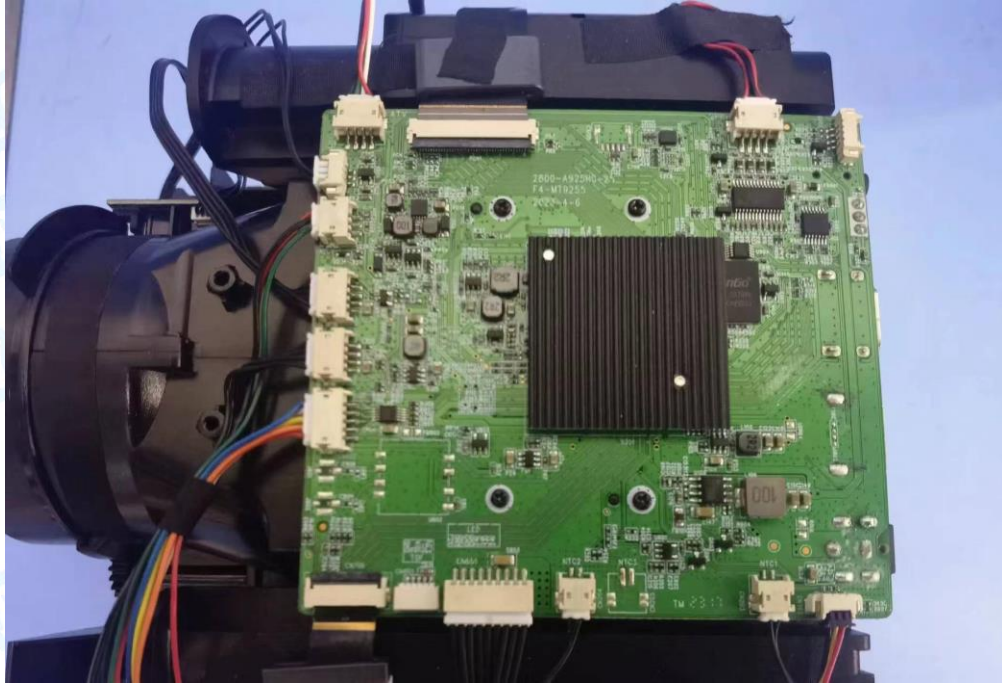


Photo 12 Internal of EUT



Photo 13 Internal of EUT

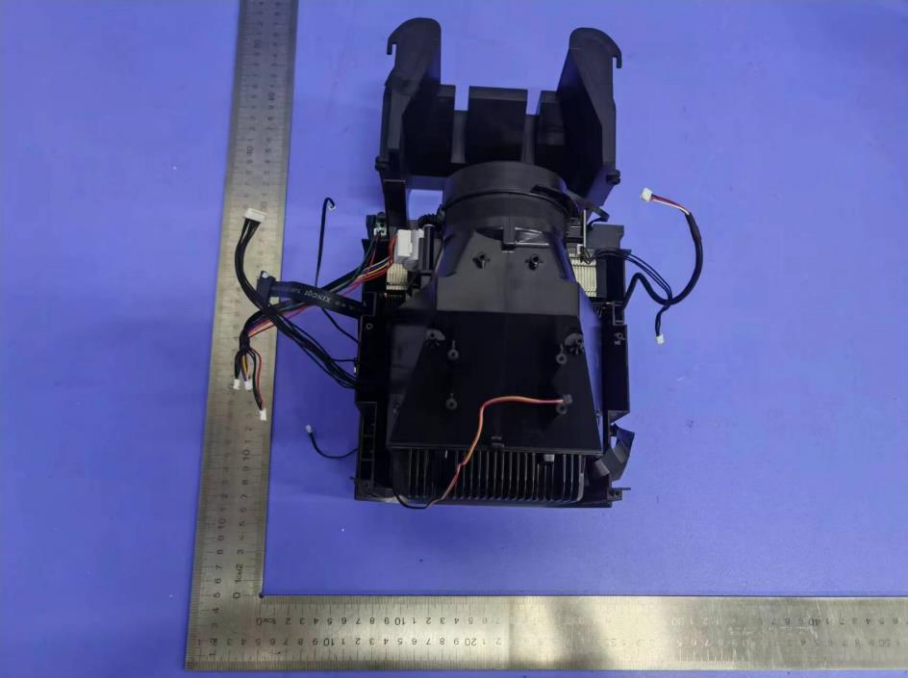


Photo 14 Appearance of PCB

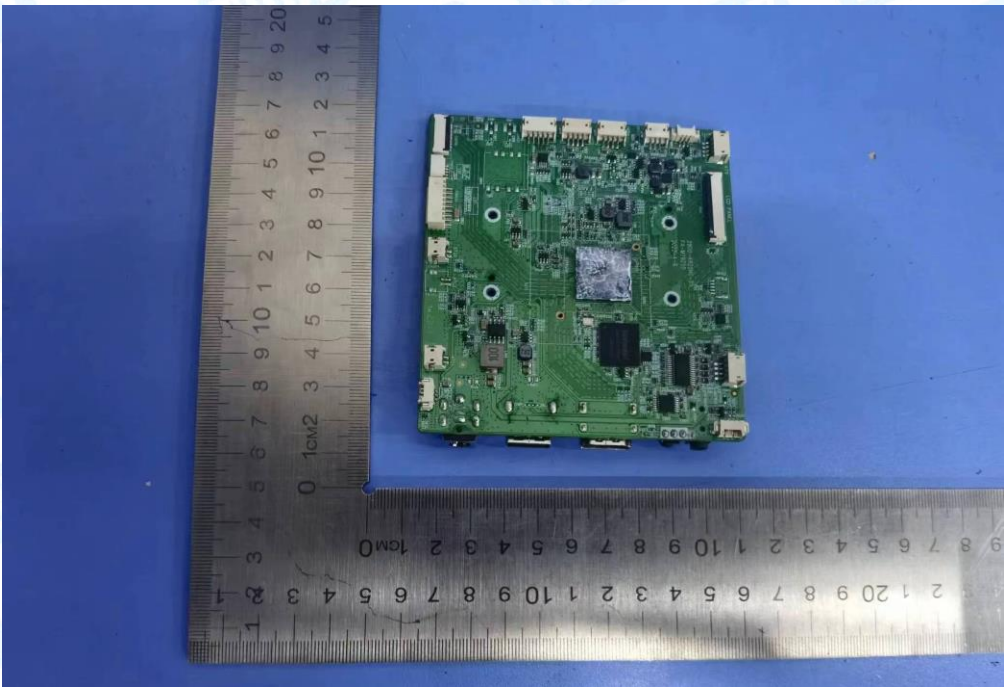
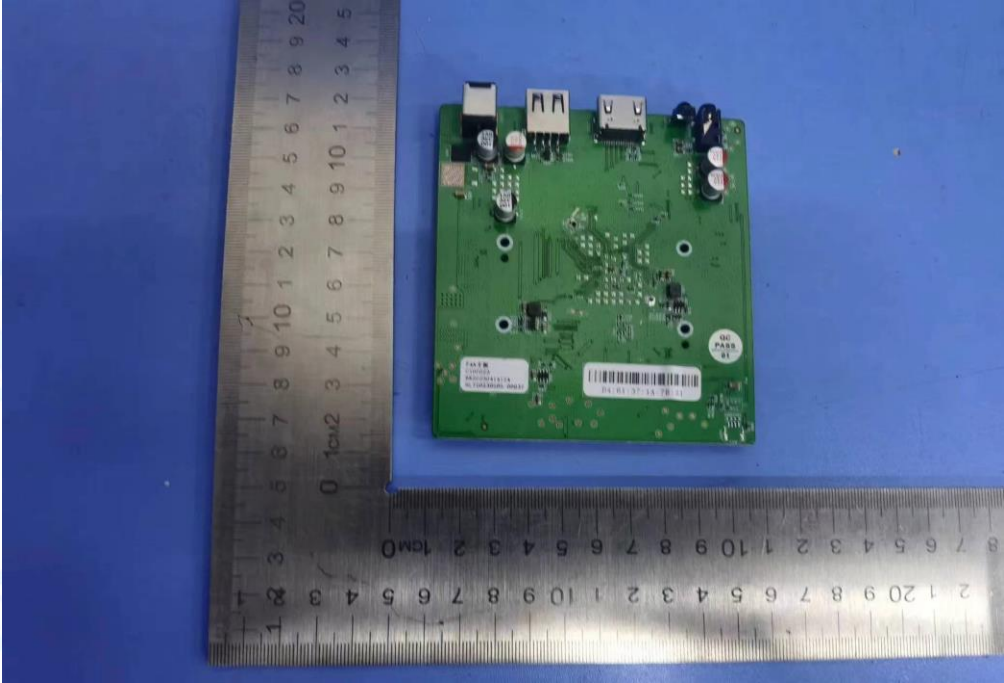
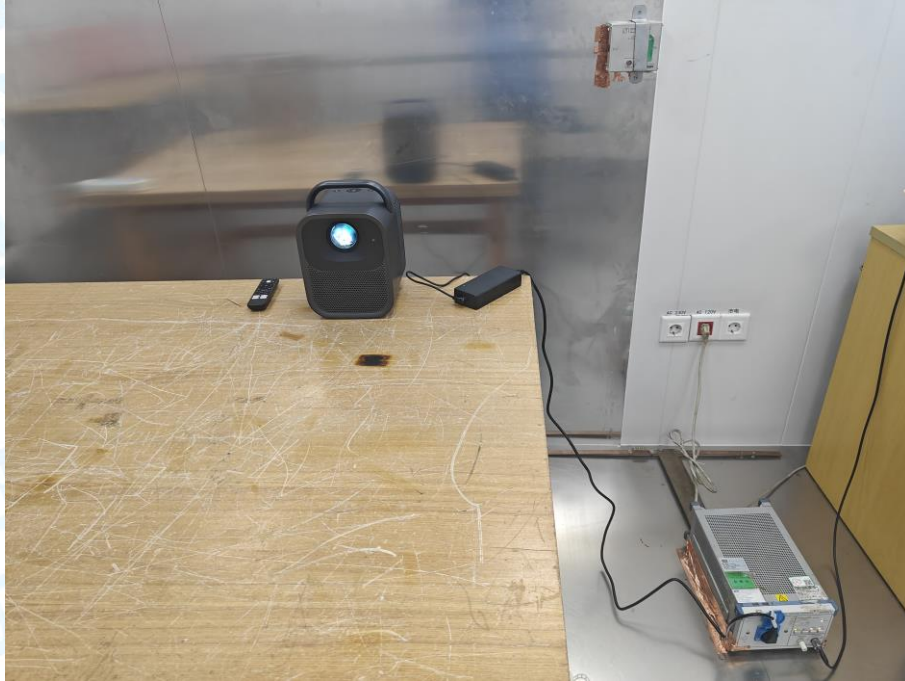


Photo 15 Appearance of PCB



9. Photographs - Test Setup

Conducted Emission Test Setup



Radiated Emission Test Setup-Below 1GHz

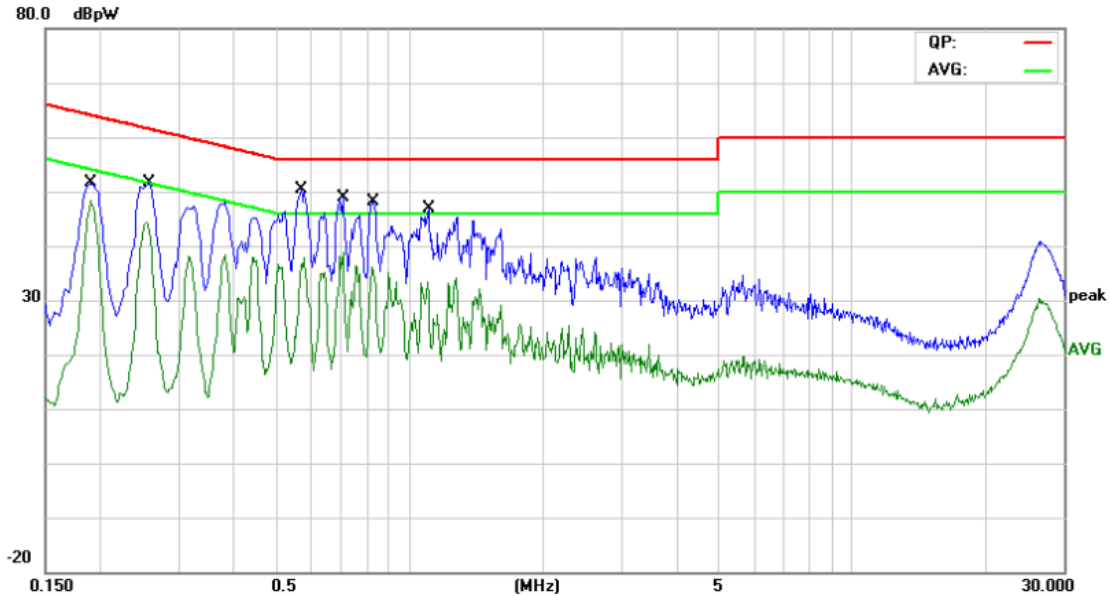


Radiated Emission Test Setup-Above 1GHz



Attachment A--Conducted Emission Test Data

Temperature:	23.6°C	Relative Humidity:	47%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	Mode 1		
Remark:	Only worse case is reported.		

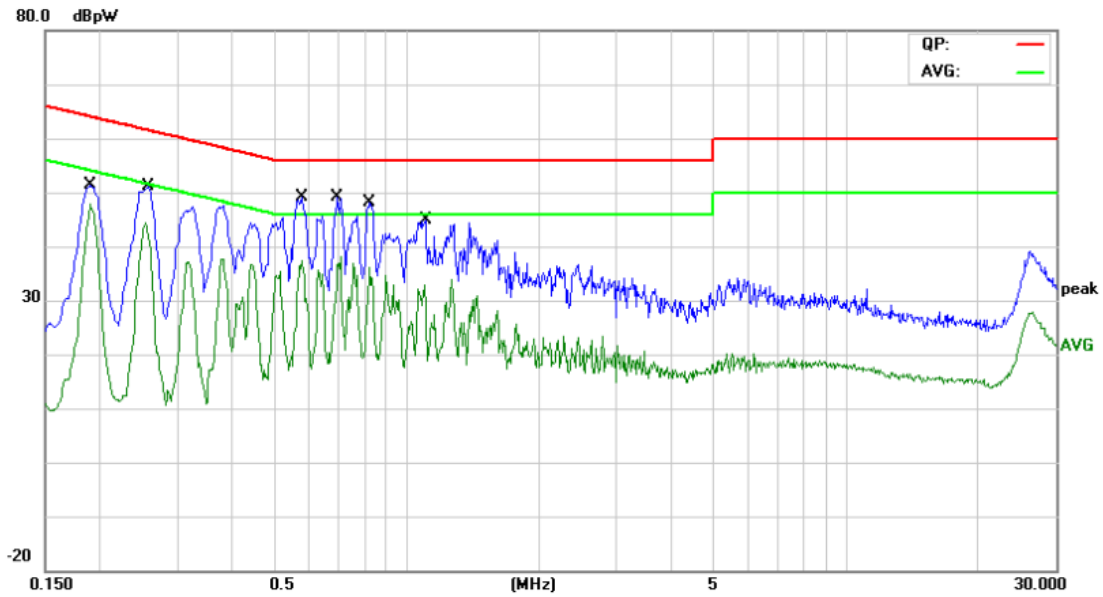


No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector
1		0.1900	39.36	11.13	50.49	64.03	-13.54	QP
2	*	0.1900	36.58	11.13	47.71	54.03	-6.32	AVG
3		0.2580	38.28	11.09	49.37	61.49	-12.12	QP
4		0.2580	30.56	11.09	41.65	51.49	-9.84	AVG
5		0.5700	35.18	11.32	46.50	56.00	-9.50	QP
6		0.5700	23.79	11.32	35.11	46.00	-10.89	AVG
7		0.7060	36.38	11.01	47.39	56.00	-8.61	QP
8		0.7060	25.45	11.01	36.46	46.00	-9.54	AVG
9		0.8300	34.78	11.05	45.83	56.00	-10.17	QP
10		0.8300	22.48	11.05	33.53	46.00	-12.47	AVG
11		1.1019	32.61	11.07	43.68	56.00	-12.32	QP
12		1.1019	20.51	11.07	31.58	46.00	-14.42	AVG

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

Temperature:	23.6°C	Relative Humidity:	47%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	Mode 1		
Remark:	Only worse case is reported.		



No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector
1		0.1900	38.95	11.13	50.08	64.03	-13.95	QP
2	*	0.1900	36.18	11.13	47.31	54.03	-6.72	AVG
3		0.2580	37.73	11.09	48.82	61.49	-12.67	QP
4		0.2580	30.37	11.09	41.46	51.49	-10.03	AVG
5		0.5780	36.28	11.30	47.58	56.00	-8.42	QP
6		0.5780	24.20	11.30	35.50	46.00	-10.50	AVG
7		0.6940	36.33	11.01	47.34	56.00	-8.66	QP
8		0.6940	25.43	11.01	36.44	46.00	-9.56	AVG
9		0.8260	34.86	11.05	45.91	56.00	-10.09	QP
10		0.8260	22.17	11.05	33.22	46.00	-12.78	AVG
11		1.1019	30.93	11.07	42.00	56.00	-14.00	QP
12		1.1019	18.63	11.07	29.70	46.00	-16.30	AVG

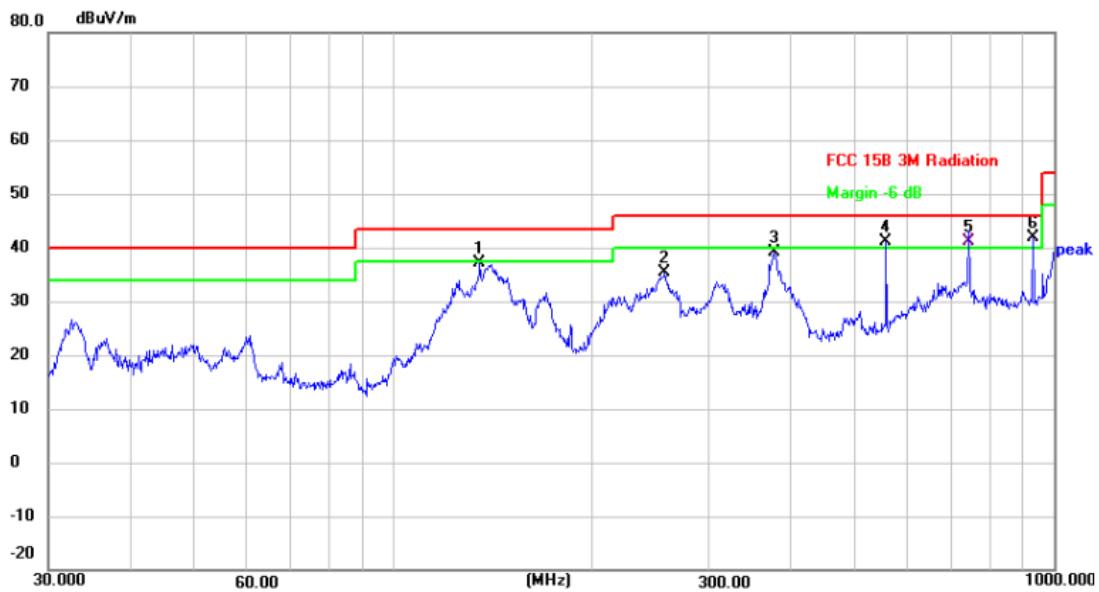
Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = QuasiPeak/Average (dBUV) - Limit (dBUV)

Attachment B--Radiated Emission Test Data

----Below 1G

Temperature:	24.3°C	Relative Humidity:	45%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	Mode 1		
Remark:	Only showed test data of the worst mode.		

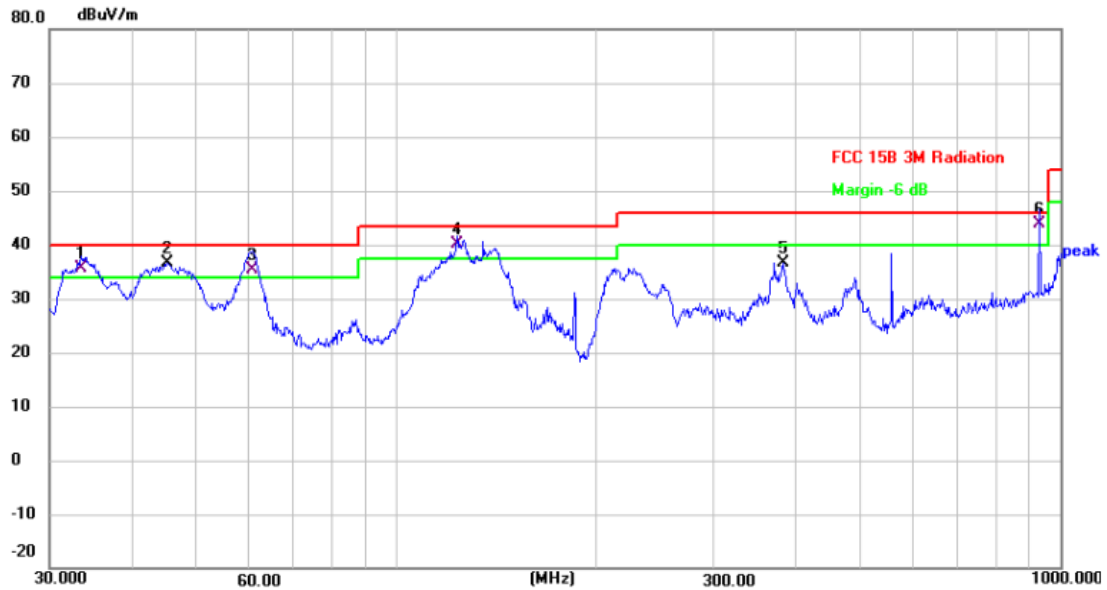


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	135.0318	60.16	-22.96	37.20	43.50	-6.30	peak
2	257.4221	58.00	-22.50	35.50	46.00	-10.50	peak
3	377.2590	57.60	-18.58	39.02	46.00	-6.98	peak
4 !	556.7743	55.19	-13.94	41.25	46.00	-4.75	peak
5 !	742.2587	51.52	-10.27	41.25	46.00	-4.75	QP
6 *	929.0081	48.96	-7.06	41.90	46.00	-4.10	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

Temperature:	24.3°C	Relative Humidity:	45%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	Mode 1		
Remark:	Only showed test data of the worst mode.		



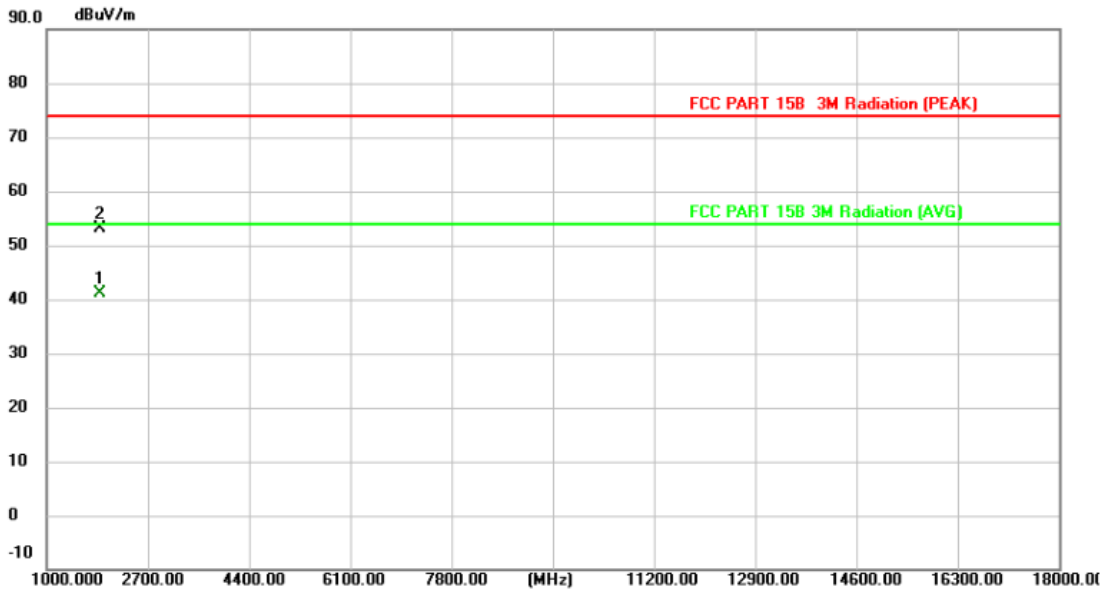
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	33.4449	58.50	-22.96	35.54	40.00	-4.46	QP
2 !	45.2166	59.35	-22.70	36.65	40.00	-3.35	peak
3 !	60.4918	59.16	-23.68	35.48	40.00	-4.52	QP
4 !	123.2654	63.67	-23.62	40.05	43.50	-3.45	QP
5	382.5878	54.93	-18.41	36.52	46.00	-9.48	peak
6 *	929.0081	50.90	-7.06	43.84	46.00	-2.16	QP

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

---- Above 1G

Temperature:	24.3°C	Relative Humidity:	45%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	Mode 1		
Remark:	Only showed test data of the worst mode.		

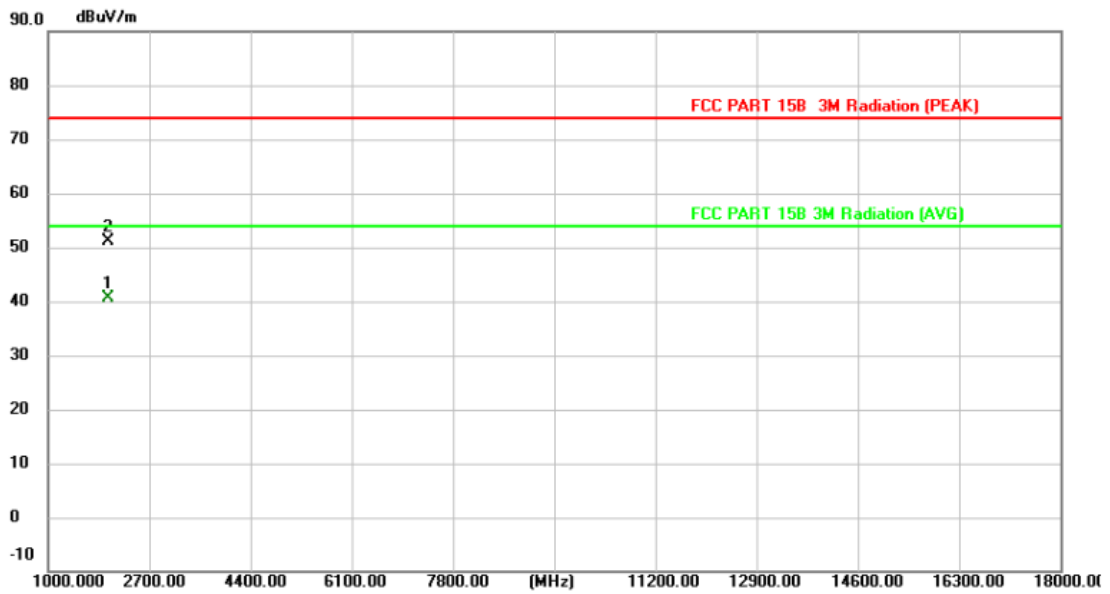


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	1895.378	58.59	-17.38	41.21	54.00	-12.79	AVG
2	1895.541	70.63	-17.38	53.25	74.00	-20.75	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
4. The test with filter

Temperature:	24.3°C	Relative Humidity:	45%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	Mode 1		
Remark:	Only showed test data of the worst mode.		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2011.254	57.63	-16.95	40.68	54.00	-13.32	AVG
2	2011.378	68.16	-16.95	51.21	74.00	-22.79	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
4. The test with filter

-----END OF THE REPORT-----