



FCC Test Report

Report No: FCS202008024W03

Issued for

Kunshan Myzy Fixture Technology Co., Ltd.

No.2618,Huanqing Road,Kunshan City, Jiangsu
Province,China.

Product Name:	HDO Fixture
Brand Name:	N/A
Model Name:	MZ20-FT012-01
Series Model:	N/A
FCC ID:	2AXI7-MZ20
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com	

TEST RESULT CERTIFICATION

Applicant's Name: Kunshan Myzy Fixture Technology Co., Ltd.
Address.....: No.2618,Huanqing Road,Kunshan City, Jiangsu Province,China.
Manufacture's Name: Kunshan Myzy Fixture Technology Co., Ltd.
Address.....: No.2618,Huanqing Road,Kunshan City, Jiangsu Province,China.

Product Description

Product Name: HDO Fixture
Brand Name: N/A
Model Name: MZ20-FT012-01
Series Model: N/A
Test Standards: FCC Part15 Subpart B
Test Procedure: ANSI C63.4-2014

This device described above has been tested by FCS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test :

Date (s) of performance of tests : 18 August. 2020 ~ 02 Sep. 2020

Date of Issue : 02 Sep. 2020

Test Result : Pass

Tested by



(Scott Shen)

Reviewed by



(Duke Qian)

Approved by



(Kait Chen)

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Revision History

Rev.	Issue Date	Effect Page	Contents
00	02 Sep. 2020	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Rules and Regulations Part 15 Subpart B AND ANSI C63.4-2014.

No.	Test Item	Result	Remark
1	Conducted Emission	PASS	--
2	Radiated Emission	PASS	--

1.1 TEST LOCATION

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901

FCC Test Firm Registration Number: 514908

Designation number: CN0127

A2LA accreditation number: 5545.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	± 4.13 dB
2	Conducted Emission (150KHz-30MHz)	± 4.74 dB
3	All emissions, radiated(<1G) 30MHz-1000MHz	± 5.2 dB
4	All emissions, radiated(>1G) 1000MHz -3000MHz	± 4.66 dB
5	All emissions, radiated(<1G) 3000MHz -6000MHz	± 5.31 dB

1.3 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2020.05.31	2021.05.30
Signal Analyzer	R&S	FSV40-N	FCS-E012	2020.06.05	2021.06.04
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2020.03.11	2021.03.10
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2020.03.26	2021.03.25
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2020.05.31	2021.05.30
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2020.05.31	2021.05.30
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2020.05.31	2021.05.30
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2020.03.03	2021.03.02
Temperature & Humidity	HTC-1	victor	FCS-E005	2020.05.31	2021.05.30

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2020.05.31	2021.05.30
LISN	R&S	ENV216	FCS-E007	2020.05.15	2021.05.14
LISN	ETS	3810/2NM	FCS-E009	2020.03.15	2021.03.14
Temperature & Humidity	HTC-1	victor	FCS-E008	2020.05.31	2021.05.30

2. GENERAL INFORMATION

2.1 General Description Of The EUT

Product Name	HDO Fixture
Trade Name	NA
Model Name	MZ20-FT012-01
Series Model	NA
Model Difference	NA
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3. CONDUCTED EMISSION MEASUREMENT

3.1 Power Line Conducted Emission Limits

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

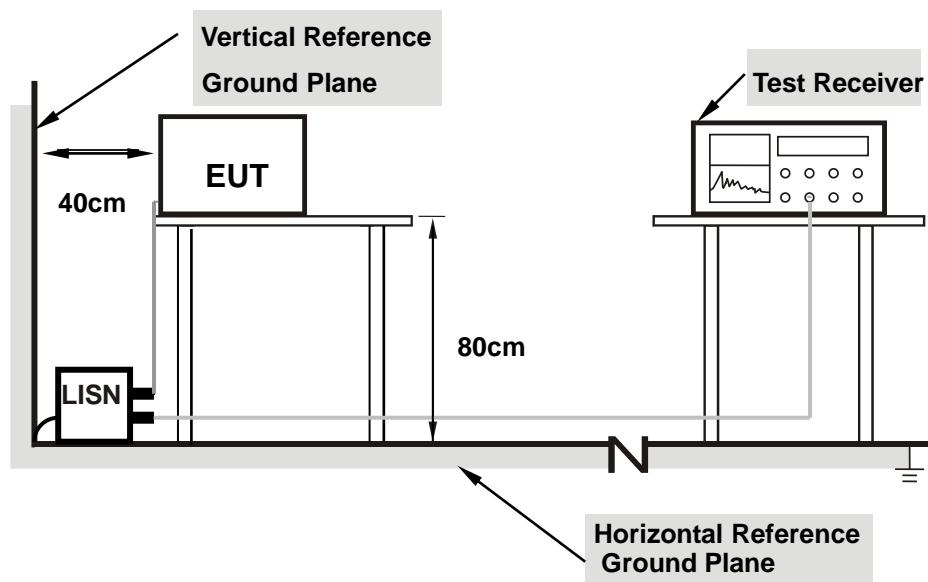
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.2 Test Procedure

- a. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. 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 C63.4.
- b. Support equipment, if needed, was placed as per ANSI C63.4.
- c. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- d. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- e. All support equipments received AC power from a second LISN, if any.
- f. The EUT 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.
- g. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes. and the test data has been listed in 3.4

3.3 Test Setup



Note:

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

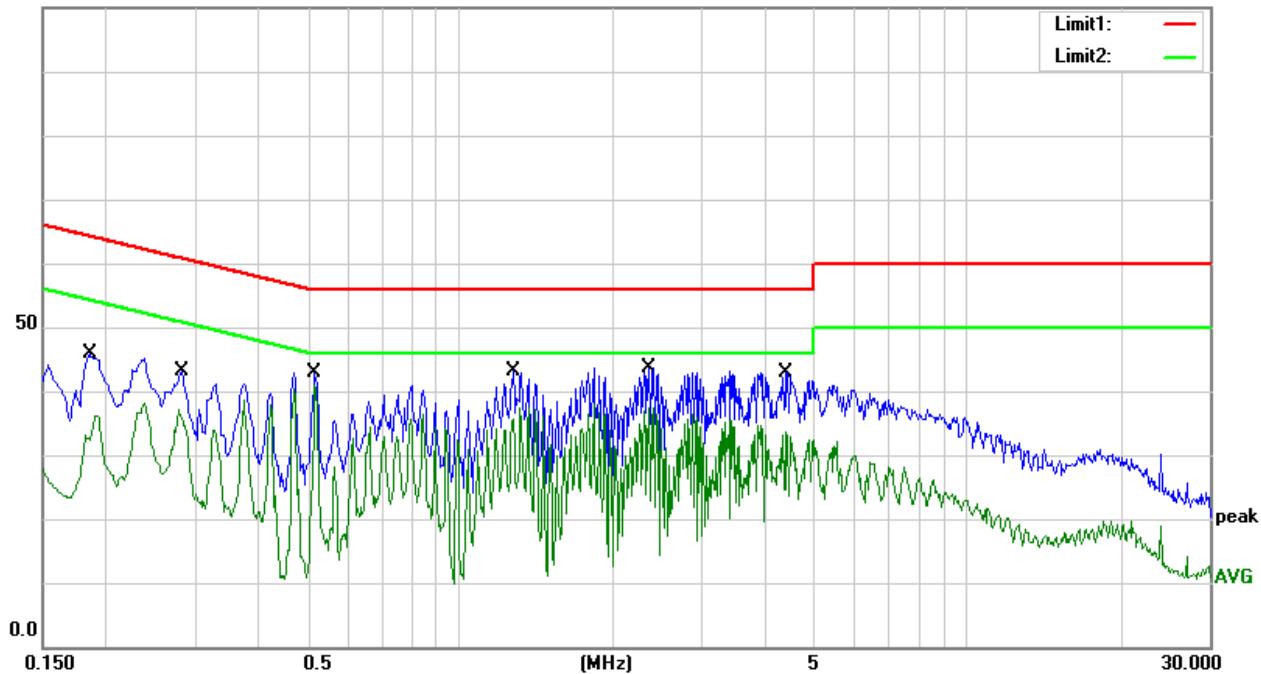
3.4 Test Result

Temperature:	23.5°C		Relative Humidity:	59%			
Phase:	L		Test Mode:	running status of test sample			
Test Voltage:	AC120V/60Hz						
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1860	36.18	9.78	45.96	64.21	-18.25	QP
2	0.1860	22.68	9.78	32.46	54.21	-21.75	AVG
3	0.2820	32.96	10.15	43.11	60.76	-17.65	QP
4	0.2820	25.57	10.15	35.72	50.76	-15.04	AVG
5	0.5180	32.87	10.01	42.88	56.00	-13.12	QP
6	0.5180	30.90	10.01	40.91	46.00	-5.09	AVG
7	1.2700	33.22	9.79	43.01	56.00	-12.99	QP
8	1.2700	25.72	9.79	35.51	46.00	-10.49	AVG
9	2.3500	33.72	9.80	43.52	56.00	-12.48	QP
10	2.3500	27.62	9.80	37.42	46.00	-8.58	AVG
11	4.3740	33.07	9.84	42.91	56.00	-13.09	QP
12	4.3740	14.79	9.84	24.63	46.00	-21.37	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

100.0 dBuV



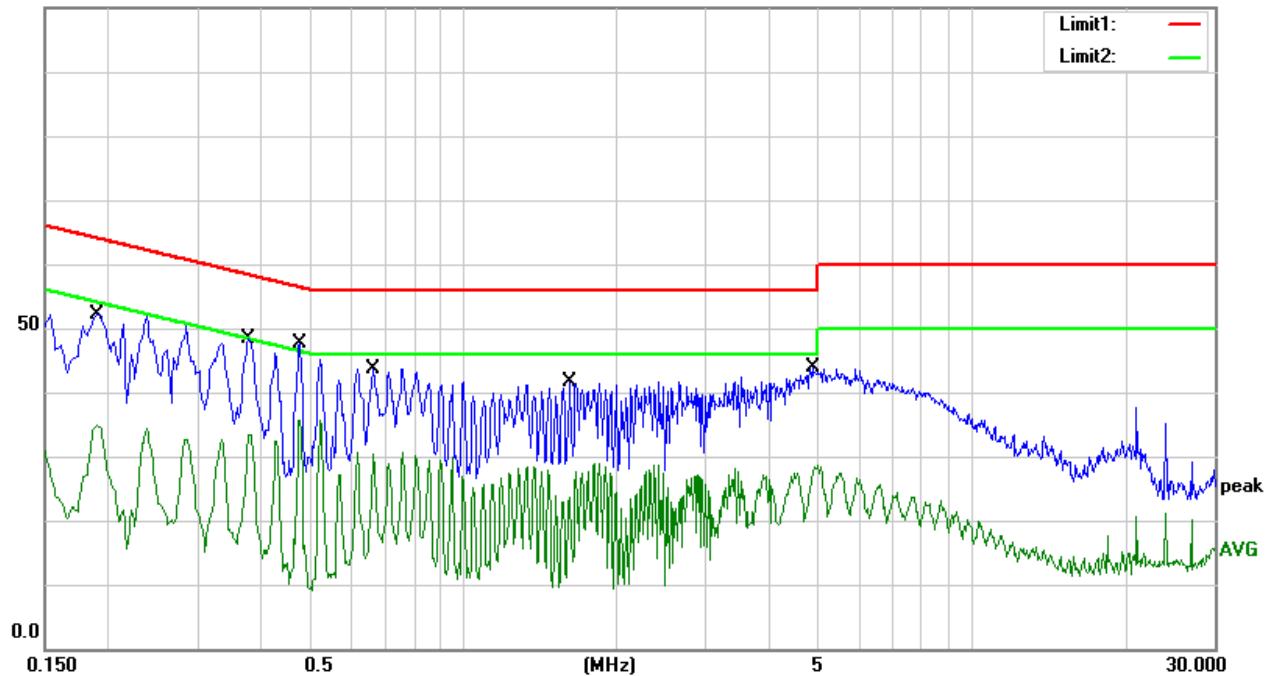
Temperature:	23.5°C	Relative Humidity:	59%
Phase:	N	Test Mode:	running status of test sample
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1900	42.39	9.85	52.24	64.04	-11.60	QP
2	0.1900	25.06	9.85	34.91	54.04	-19.23	AVG
3	0.3780	38.28	10.11	48.39	58.32	-8.93	QP
4	0.3780	23.37	10.11	33.48	48.32	-13.84	AVG
5	0.4780	37.51	10.00	47.51	56.37	-9.86	QP
6	0.4780	25.74	10.00	35.74	46.37	-11.63	AVG
7	0.6660	33.78	9.88	43.66	56.00	-13.34	QP
8	0.6660	20.42	9.88	30.30	46.00	-14.70	AVG
9	1.6220	31.75	9.84	41.59	56.00	-15.41	QP
10	1.6220	13.42	9.84	23.26	46.00	-20.74	AVG
11	4.8580	34.02	9.93	43.95	56.00	-13.05	QP
12	4.8580	17.81	9.93	27.74	46.00	-19.26	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

100.0 dBuV



4. RADIATED EMISSION MEASUREMENT

4.1 Radiated Emission Limits

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

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

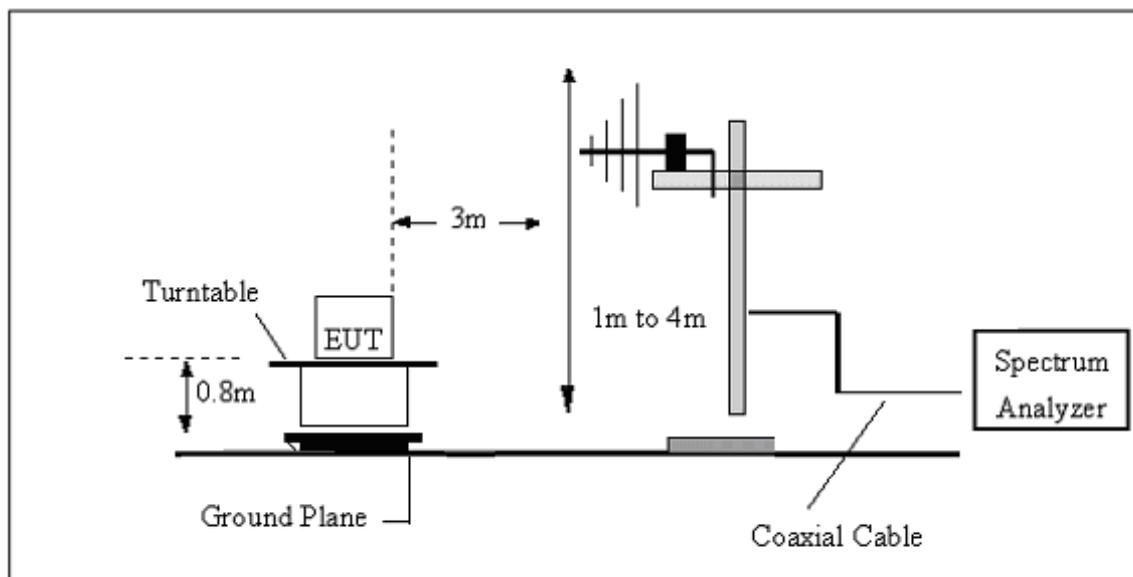
For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz /10 Hz

4.2 Test Procedure

- a. The EUT is placed on a turntable, which is 0.8m above ground plane.
- b. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- c. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- d. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- e. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical

4.3 Test setup



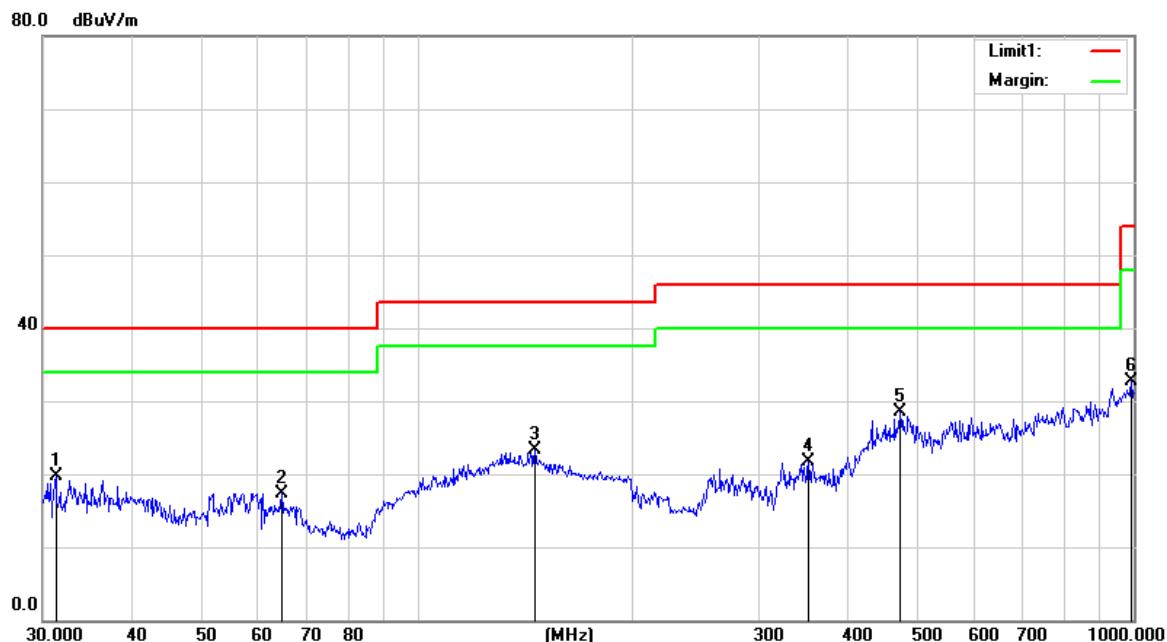
4.4 Test Results

Temperature:	23.5°C	Relative Humidity:	59%
Test Voltage:	AC120V/60Hz	Phase:	Horizontal
Test Mode:	running status of test sample		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.2893	32.81	-13.05	19.76	40.00	-20.24	QP
2	64.6594	42.83	-25.43	17.40	40.00	-22.60	QP
3	145.8610	41.90	-18.61	23.29	43.50	-20.21	QP
4	351.7078	35.62	-13.84	21.78	46.00	-24.22	QP
5	472.1760	38.74	-10.22	28.52	46.00	-17.48	QP
6	993.0113	33.01	-0.27	32.74	54.00	-21.26	QP

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit

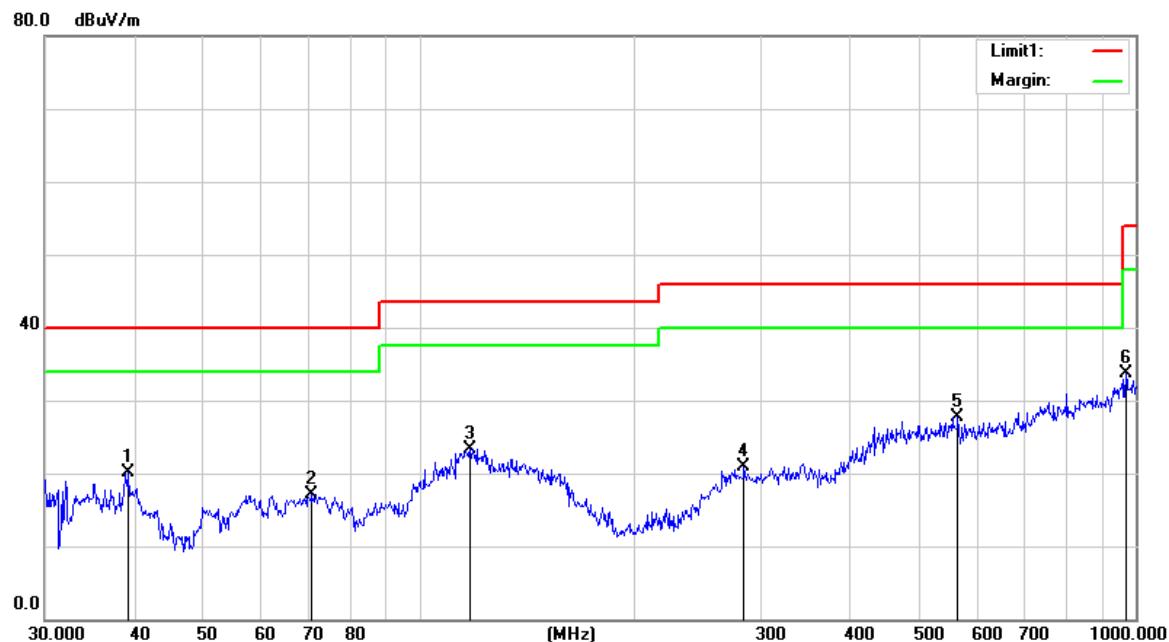


Temperature:	23.5°C	Relative Humidity:	59%
Test Voltage:	AC110V/50Hz	Phase:	Vertical
Test Mode:	running status of test sample		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	39.2991	37.27	-17.18	20.09	40.00	-19.91	QP
2	70.8315	41.60	-24.56	17.04	40.00	-22.96	QP
3	117.7724	41.94	-18.55	23.39	43.50	-20.11	QP
4	283.9791	37.09	-16.19	20.90	46.00	-25.10	QP
5	564.6390	34.97	-7.17	27.80	46.00	-18.20	QP
6	968.9338	34.08	-0.35	33.73	54.00	-20.27	QP

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit

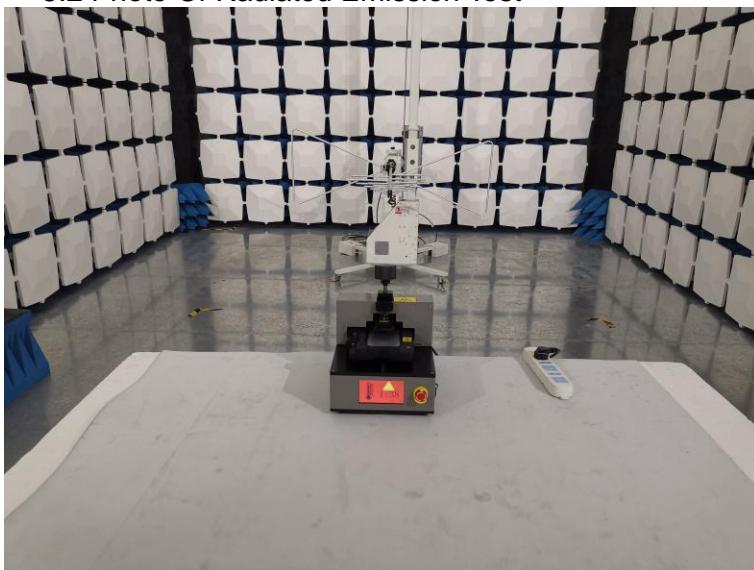


5 TEST SETUP PHOTOGRAPH

5.1 Photo of Power Line Conducted Emission Test



5.2 Photo Of Radiated Emission Test



APPENDIX I

Supplementary information for the User manual, labeling requirements

1. Devices subject to FCC part 15 Subpart B must be labelled with the following statement. The label can be affixed at any space external to the product except the battery door or detachable parts.

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.

2. In addition, for a Class B digital device or peripheral, the instructions furnished the user shall include the following statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: If shielded cables or other specialized accessories are necessary for the unit to achieve compliance, a statement similar to the following should be added:

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

*****END OF THE REPORT*****