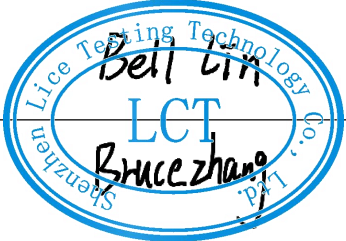




EMC Test Report

Report Number.....:	LCT-250603014784	
Applicant's name.....:	Anhui Ding Ju Welding Technology Co., Ltd.	
Address.....:	No. 21 Guangping Road, Guangde Economic Development Zone, Xuancheng City, Anhui Province	
Equipment Under Test (EUT)		
EUT Name.....:	Smart mirror	
Model No.....:	600x800mm	
Serial No.....:	Diameter500, Diameter600, Diameter700, Diameter800, 500x700, 700x1000	
Brand Name.....:	鼎聚全球	
Testing Laboratory.....:	Shenzhen Lice Testing Technology Co., Ltd. Room 112-113, Building B15, Yintian Industrial Zone, Yantian, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China	
Standards.....:	EN IEC 55015:2019/A11:2020 EN IEC 61000-3-2: 2019/A1: 2021 EN 61000-3-3: 2013/A2:2021 EN IEC 61547:2023	
Directive.....:	EMC Directive 2014/30/EU	
Conclusions.....:	PASS	
Receipt Date.....:	2025-06-20	
Test Date.....:	2025-06-20 to 2025-06-30	
Issue Date.....:	2025-07-02	
Test/Witness Engineer.....:	Bell Lin	
Approved & Authorized.....:	Bruce Zhang	

The test results of this report relate only to the tested sample identified in this report. This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory.

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1. General Information

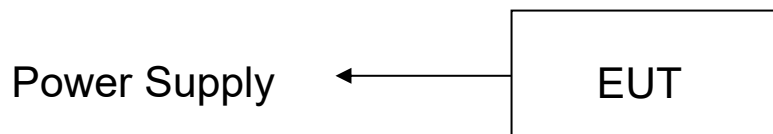
1.1. Client Information

Applicant	:	Anhui Ding Ju Welding Technology Co., Ltd.
Address	:	No. 21 Guangping Road, Guangde Economic Development Zone, Xuancheng City, Anhui Province
Manufacturer	:	Anhui Ding Ju Welding Technology Co., Ltd.
Address	:	No. 21 Guangping Road, Guangde Economic Development Zone, Xuancheng City, Anhui Province

1.2. General Description of EUT (Equipment Under Test)

EUT Name	:	Smart mirror
Model No.	:	600x800mm
Serial No.	:	Diameter500, Diameter600, Diameter700, Diameter800, 500x700, 700x1000
Brand Name	:	鼎聚全球
Power Supply	:	AC 100-240V, 2A, 50-60Hz
Remark: All models are identical except for model name and appearance shape.		

1.3. Block Diagram Showing the Configuration of System Tested



1.4. Description of Support Units

The EUT has been tested as an independent unit.

1.5. Performance Criterion

Criterion A: The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

Criterion B: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended.

Criterion C: Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the

manufacturer's instructions.

1.6. Test Facility

The testing report were performed by the Shenzhen Lice Testing Technology Co., Ltd., in their facilities located at Room 112-113, Building B15, Yintian Industrial Zone, Yantian, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China..

2. Test Results Summary

EMISSION (EN IEC 55015:2019/A11:2020)		
Description of test item	Standards	Results
Conducted Disturbance at Mains Terminals	EN IEC 55015:2019/A11:2020	Pass
Magnetic Emission	EN IEC 55015:2019/A11:2020	Pass
Radiated Disturbance	EN IEC 55015:2019/A11:2020	Pass
Harmonic Current Emissions	EN IEC 61000-3-2: 2019/A1: 2021	N/A
Voltage Fluctuation and Flicker	EN 61000-3-3: 2013/A2:2021	Pass
IMMUNITY (EN IEC 61547:2023)		
Description of Test Item	Basic Standards	Results
Electrostatic Discharge (ESD)	EN 61000-4-2: 2009	Pass
Radio-frequency, Continuous Radiated Disturbance	EN IEC 61000-4-3:2020	Pass
EFT/B Immunity	EN 61000-4-4: 2012	Pass
Surge Immunity	EN 61000-4-5: 2014/A1:2017	Pass
Conducted RF Immunity	EN 61000-4-6: 2014	Pass
Power Frequency Magnetic Field	EN 61000-4-8: 2010	Pass
Voltage Dips and Interruptions, 100% Reduction	EN IEC 61000-4-11:2020	Pass
Voltage Dips and Interruptions, 30% reduction		Pass

3. Test Equipment Used

3.1. Test Equipment Used to Measure Conducted Emission					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC001	EMI Test Receiver	Rohde & Schwarz	ESCS30	Dec. 28, 2024	1 Year
LCT-EMC002	AMN	Rohde & Schwarz	ENV216	Dec. 28, 2024	1 Year
LCT-EMC003	AMN	SCHWARZBECK	NNBL 8226-2	Dec. 28, 2024	1 Year
3.2. Test Equipment Used to Measure Magnetic Field Emission					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC001	EMI Test Receiver	Rohde & Schwarz	ESCS30	Dec. 28, 2024	1 Year
LCT-EMC027	Triple-Loop Antenna	EVERFINE	LLA-2	Dec. 28, 2024	1 Year
3.3. Test Equipment Used to Measure Radiated Emission					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC004	EMI Test Receiver	Rohde & Schwarz	ES126	Dec. 28, 2024	1 Year
LCT-EMC005	Bilog Antenna	SCHWARZBECK	VULB9163	Dec. 28, 2024	1 Year
LCT-EMC006	Positioning Controller	C&C	CC-C-1F	N/A	N/A
3.4. Test Equipment Used to Measure Harmonic Current/ Voltage Fluctuation and Flicker					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC007	Harmonic Flicker Test System	CI	5001ix-CTS-400	Dec. 28, 2024	1 Year
3.5. Test Equipment Used to Measure Electrostatic Discharge Immunity					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC008	ESD Tester	TESEQ	NSG437	Dec. 28, 2024	1 Year
3.6. Test Equipment Used to Measure Conducted Immunity					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC009	RF Generator	FRANKONIA	CIT-10/75	Dec. 28, 2024	1 Year
LCT-EMC010	Attenuator	FRANKONIA	59-6-33	Dec. 28, 2024	1 Year
LCT-EMC011	M-CDN	LUTHI	M2/M3	Dec. 28, 2024	1 Year

LCT-EMC012	CDN	LUTHI	AF2	Dec. 28, 2024	1 Year
LCT-EMC013	EM Injection Clamp	LUTHI	EM101	Dec. 28, 2024	1 Year
3.7. Test Equipment Used to Measure Radio Frequency Electromagnetic Fields Immunity					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC014	Signal Generator	Rohde & Schwarz	SMT03	Dec. 28, 2024	1 Year
LCT-EMC015	Power Meter	Rohde & Schwarz	NRVD	Dec. 28, 2024	1 Year
LCT-EMC016	Voltage Probe	Rohde & Schwarz	URV5-Z2	Dec. 28, 2024	1 Year
LCT-EMC017	Voltage Probe	Rohde & Schwarz	URV5-Z2	Dec. 28, 2024	1 Year
LCT-EMC018	Power Amplifier	AR	150W1000	Dec. 28, 2024	1 Year
LCT-EMC019	Bilog Antenna	Chase	CBL6111C	Dec. 28, 2024	1 Year
3.8. Test Equipment Used to Measure Electrical Fast Transient/Burst Immunity					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC020	Simulator	EMTEST	UCS500N5	Dec. 28, 2024	1 Year
LCT-EMC021	Auto-transformer	EMTEST	V4780S2	Dec. 28, 2024	1 Year
3.9. Test Equipment Used to Measure Surge Immunity					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC022	Simulator	EMTEST	UCS500N5	Dec. 28, 2024	1 Year
LCT-EMC023	Coupling Clamp	EMTEST	HFK	Dec. 28, 2024	1 Year
3.10. Test Equipment Used to Measure Voltage Dips and Interruptions Immunity					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC022	Simulator	EMTEST	UCS500N5	Dec. 28, 2024	1 Year
LCT-EMC023	Coupling Clamp	EMTEST	HFK	Dec. 28, 2024	1 Year
3.11. Test Equipment Used to Measure Power frequency Magnetic Field					
No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LCT-EMC026	Power Frequency Magnetic Field Generator	EVERFINE	EMS61000-8K	Dec. 28, 2024	1 Year

4. Conducted Emission Test

4.1. Test Standard and Limit

4.1.1. Test Standard

EN IEC 55015:2019/A11:2020.

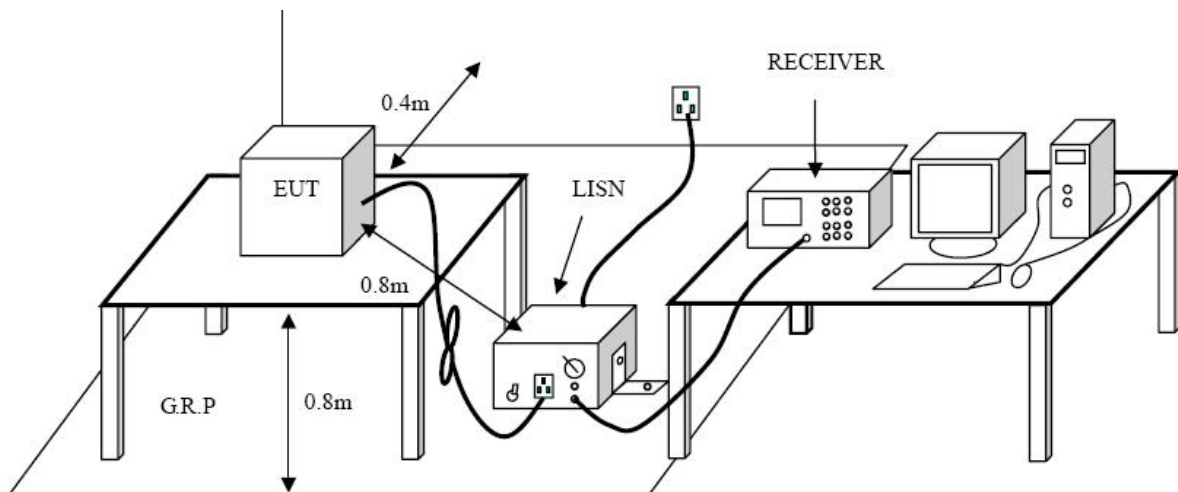
4.1.2. Test Limit

Conducted Disturbance Test Limit (Class B)

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
9kHz~50kHz	110	--
50kHz ~150kHz	90 to 80*	--
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Remark: 1. *Decreasing linearly with logarithm of the frequency
 2. At the transition frequency, the lower limit applies.
 3. For electrodeless lamps and luminaries, the limit in the frequency range of 2,51 MHz to 3,0 MHz is 73 dB(μ V) quasi-peak and 63 dB(μ V) average

4.2. Test Setup



4.3. Test Procedure

The EUT was placed 0.4 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 9kHz, and the test frequency band is from 9KHz to 30MHz.

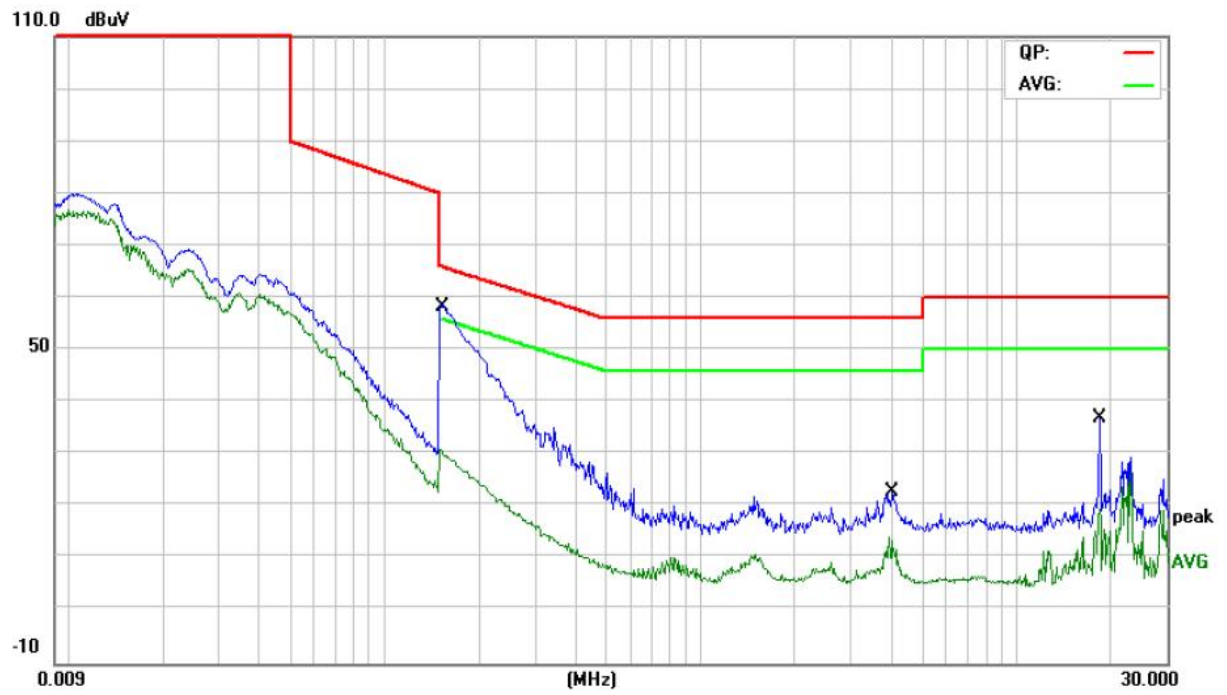
4.4. Test Condition

Temperature	:	25 °C
Relative Humidity	:	48 %
Pressure	:	1010 hPa
Test Power	:	AC 230V/50Hz

4.5. Test Data

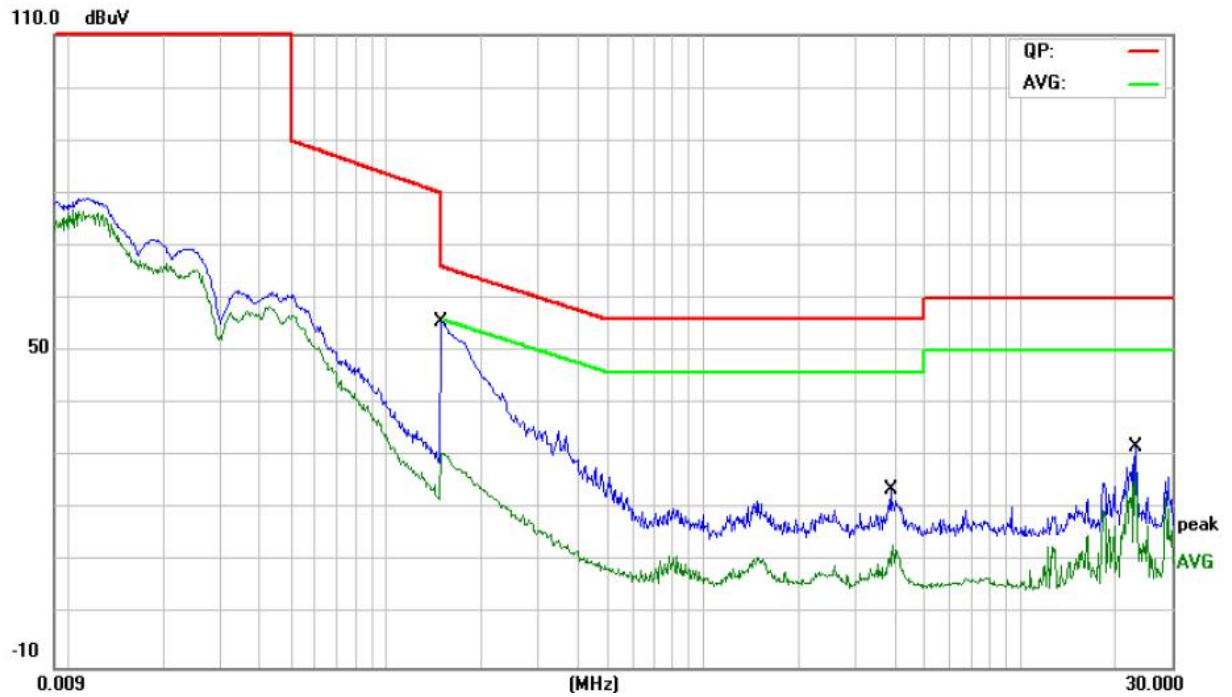
Please refer to the following pages.

Operating Mode: ON
Test Specification: L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	38.58	10.90	49.48	65.99	-16.51	QP	
2		0.1500	19.24	10.90	30.14	55.99	-25.85	AVG	
3		4.0580	5.46	9.41	14.87	56.00	-41.13	QP	
4		4.0580	-0.06	9.41	9.35	46.00	-36.65	AVG	
5		18.3060	13.03	10.07	23.10	60.00	-36.90	QP	
6		18.3060	9.00	10.07	19.07	50.00	-30.93	AVG	

Operating Mode: ON
Test Specification: N



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	37.92	10.93	48.85	65.99	-17.14	QP	
2		0.1500	19.01	10.93	29.94	55.99	-26.05	AVG	
3		3.9060	6.92	9.45	16.37	56.00	-39.63	QP	
4		3.9060	2.15	9.45	11.60	46.00	-34.40	AVG	
5		23.1299	20.16	10.22	30.38	60.00	-29.62	QP	
6		23.1299	16.88	10.22	27.10	50.00	-22.90	AVG	

5. Magnetic field emission Measurement

5.1. Test Standard and Limit

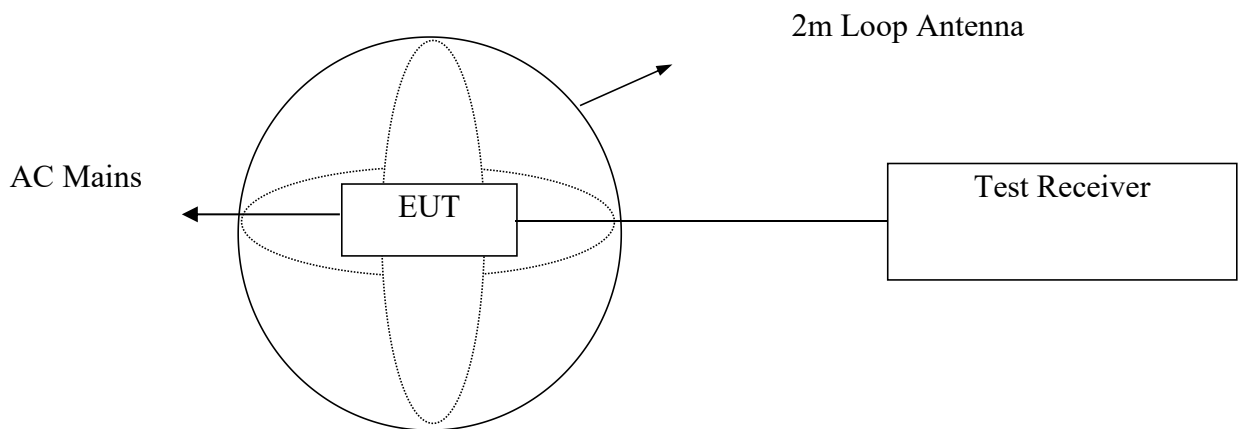
5.1.1. Test Standard

EN IEC 55015:2019/A11:2020.

5.1.2. Test Limit

Frequency			Limits for loop diameter (dB μ A)
			2m
9KHz	~	70KHz	88
70KHz	~	150KHz	88 ~ 58*
150KHz	~	2.2MHz	58 ~ 26*
2.2MHz	~	3.0MHz	58
3.0MHz	~	30MHz	22
Remark: 1. At the transition frequency the lower limit applies. 2. * Decreasing linearly with logarithm of the frequency.			

5.2. Test Setup



5.3. Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. Three field components are checked by means of a coaxial switch.

The frequency range from 9KHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9KHz to 150KHz, the bandwidth of the field strength meter is set at 200Hz. For frequency band 150KHz to 30MHz, the bandwidth is set at 9KHz.

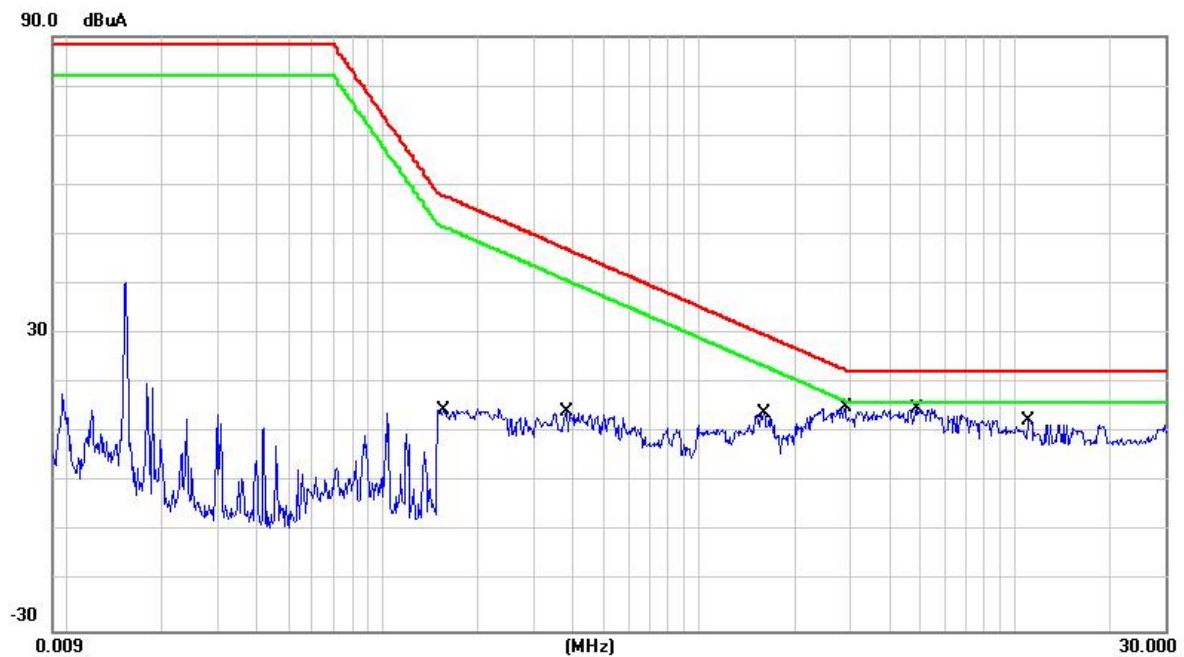
5.4. Test Condition

Temperature	:	25 °C
Relative Humidity	:	48 %
Pressure	:	1010 hPa
Test Power	:	AC 230V/50Hz

5.5. Test Data

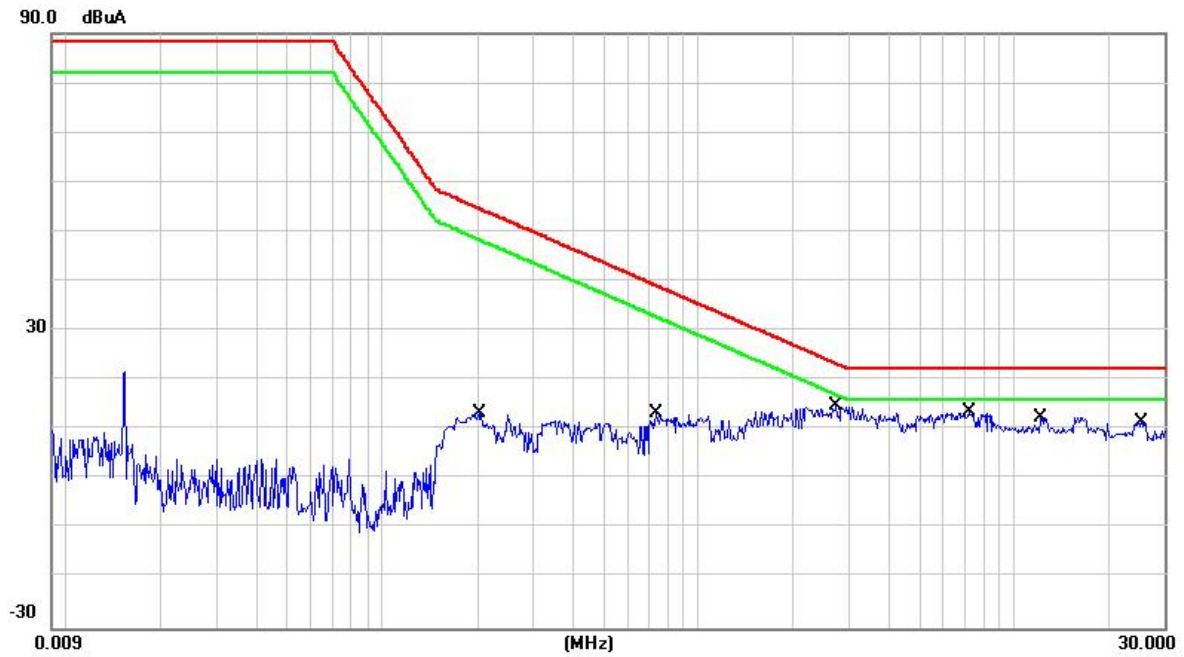
Please refer to the following pages.

Operating Mode: ON
Test Specification: X Direction



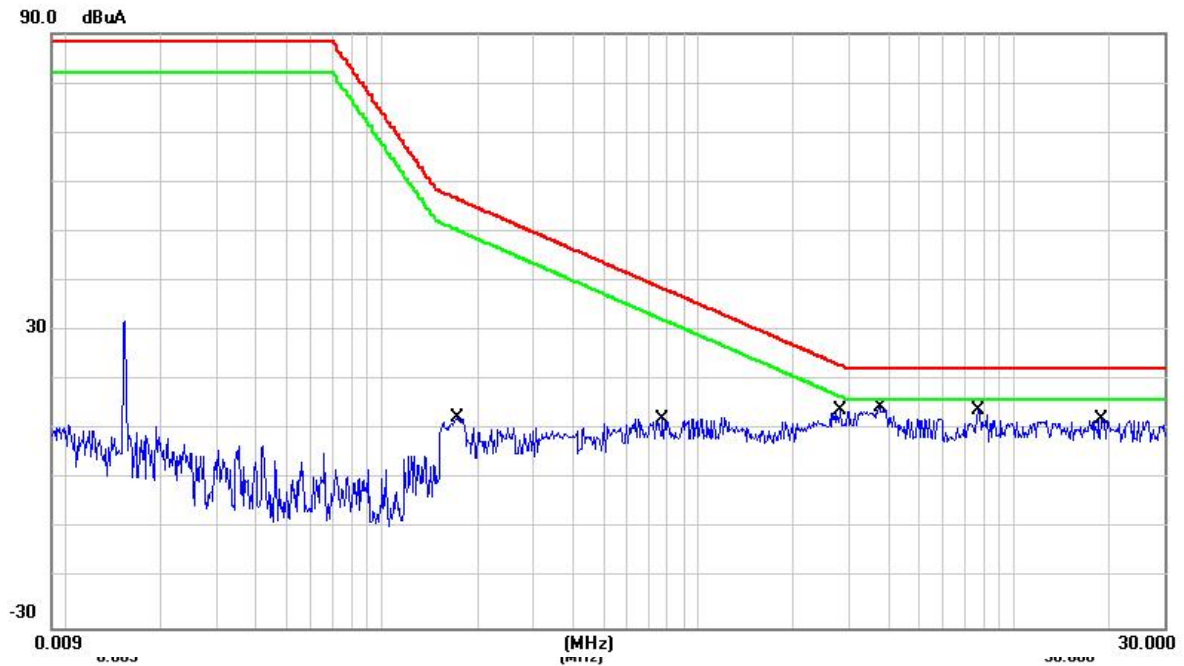
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuA	dB	dBuA	dBuA	dB		
1		0.1550	-20.97	35.52	14.55	57.61	-43.06	QP	
2		0.3820	-21.68	35.88	14.20	46.77	-32.57	QP	
3		1.6060	-21.75	35.80	14.05	29.51	-15.46	QP	
4		2.9100	-20.81	35.89	15.08	22.37	-7.29	QP	
5	*	4.9260	-21.31	36.09	14.78	22.00	-7.22	QP	
6		11.0820	-23.24	35.56	12.32	22.00	-9.68	QP	

Operating Mode: ON
Test Specification: Y Direction



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.2060	-22.94	36.30	13.36	54.19	-40.83	QP	
2		0.7380	-22.60	35.86	13.26	38.85	-25.59	QP	
3	*	2.7500	-21.59	36.33	14.74	23.05	-8.31	QP	
4		7.2220	-23.10	36.65	13.55	22.00	-8.45	QP	
5		12.2500	-22.91	35.44	12.53	22.00	-9.47	QP	
6		25.4420	-23.14	34.84	11.70	22.00	-10.30	QP	

Operating Mode: ON
Test Specification: Z Direction



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		0.1740	-22.58	34.98	12.40	56.22	-43.82	QP	
2		0.7740	-23.37	35.52	12.15	38.28	-26.13	QP	
3		2.8340	-21.74	35.60	13.86	22.68	-8.82	QP	
4	*	3.7900	-20.95	35.60	14.65	22.00	-7.35	QP	
5		7.7940	-20.58	34.42	13.84	22.00	-8.16	QP	
6		18.9260	-23.65	35.75	12.10	22.00	-9.90	QP	

6. Radiated Disturbance Test

6.1. Test Standard and Limit

6.1.1. Test Standard

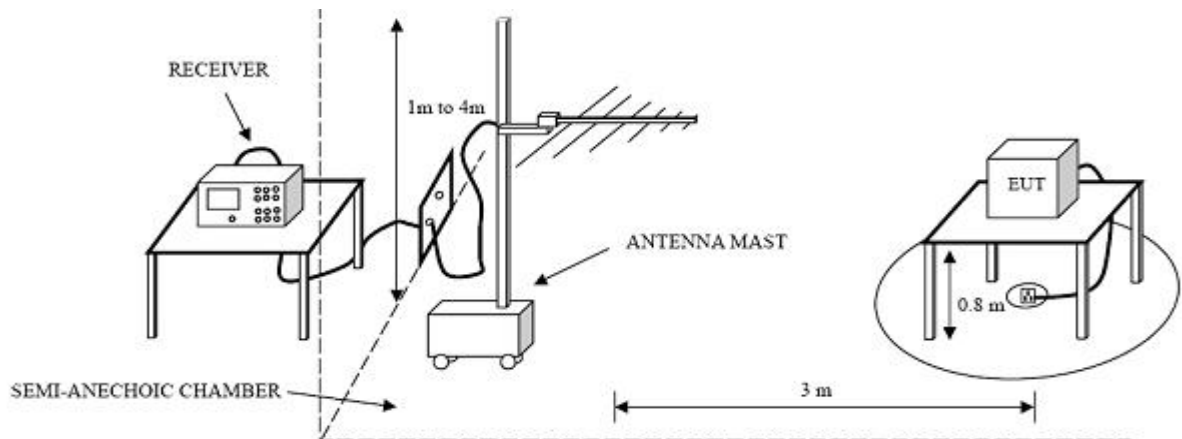
EN IEC 55015:2019/A11:2020.

6.1.2. Test Limit

Radiated Disturbance Test Limit (Class B)

Frequency	Limit (dB μ V/m)
	Quasi-peak Level
30MHz~230MHz	40
230MHz~300MHz	47
Remark: 1. The lower limit shall apply at the transition frequency. 2. The test distance is 3m.	

6.2. Test Setup



6.3. Test Procedure

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m. The table was rotated 360 degrees to determine the position of the highest radiation.

The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

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.

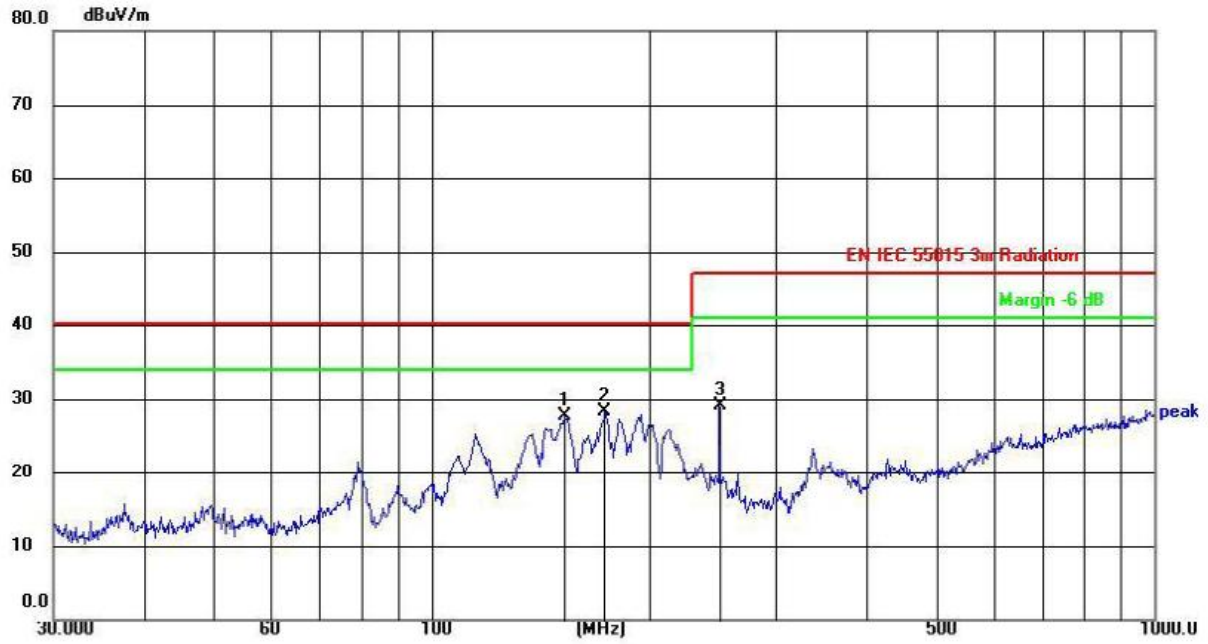
6.4. Test Condition

Temperature	:	25 °C
Relative Humidity	:	48 %
Pressure	:	1010 hPa
Test Power	:	AC 230V/50Hz

6.5. Test Data

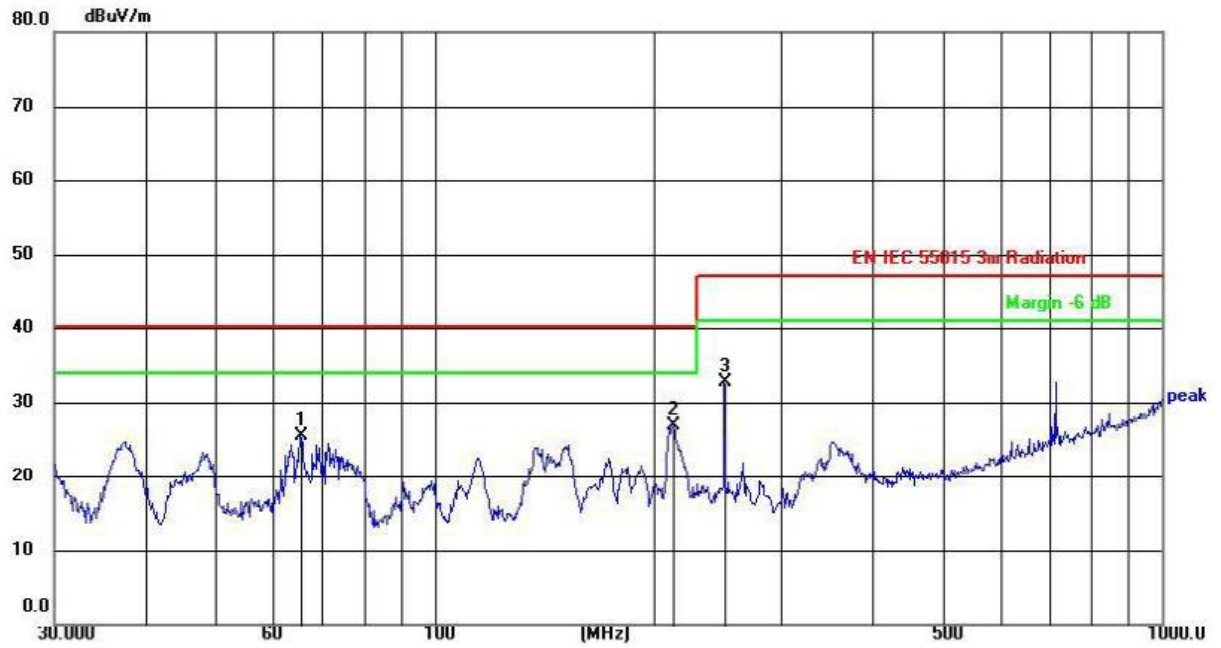
Please refer to the following pages.

Operating Mode: ON
Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	152.6641	46.37	-18.70	27.67	40.00	-12.33	peak				
2	173.8135	46.61	-18.23	28.38	40.00	-11.62	peak				
3	250.3012	47.31	-18.25	29.06	47.00	-17.94	peak				

Operating Mode: ON
Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	65.3432	46.17	-20.61	25.56	40.00	-14.44	peak				
2	213.0151	45.42	-18.49	26.93	40.00	-13.07	peak				
3	250.3012	51.05	-18.25	32.80	47.00	-14.20	peak				

7. Harmonic Current Emission Test

7.1. Test Standard and Limit

7.1.1. Test Standard

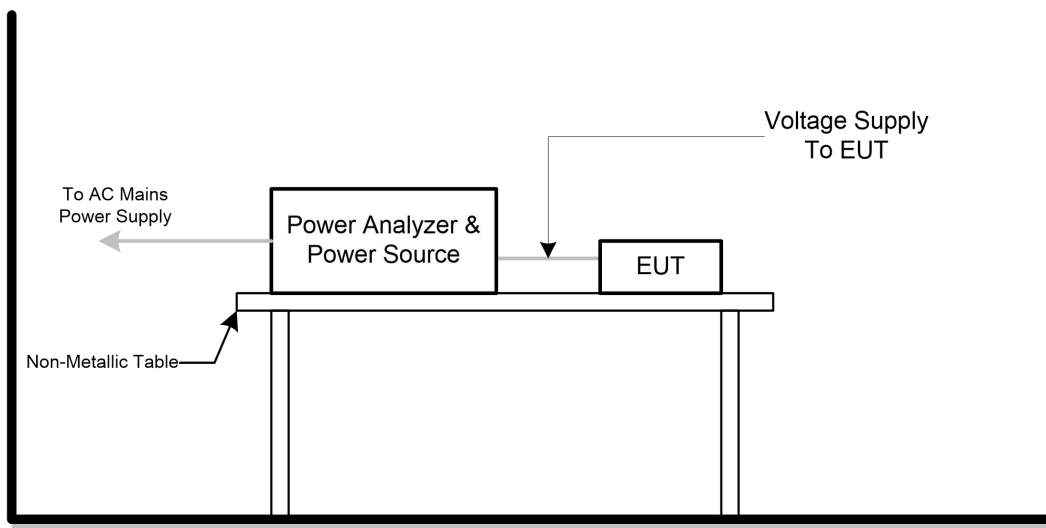
EN IEC 61000-3-2: 2019/A1: 2021

7.1.2. Limits

Harmonic Current Test Limit (Class C)

Harmonic order (n)	Maximum permissible harmonic current Expressed as a percentage of the input Current at the fundamental frequency %
2	2
3	$30.\lambda$
5	10
7	7
9	5
$15 \leq n \leq 39$ (odd harmonics only)	3
Remark: λ is the circuit power factor	

7.2. Test Setup



7.3. Test Procedure

The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.

The classification of EUT is according to section 5 of EN IEC 61000-3-2. The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class B: Portable tools. Arc welding equipment which is not professional equipment.

Class C: Lighting equipment.

Class D: Equipment having a specified power less than or equal to 600 W of the following types: Personal computers and personal computer monitors and television receivers.

7.4. Test Condition

Temperature	:	25 °C
Relative Humidity	:	48 %
Pressure	:	1010 hPa
Test Power	:	--

7.5. Test Data

N/A

8. Voltage Fluctuation and Flicker test

8.1. Test Standard and Limit

8.1.1. Test Standard

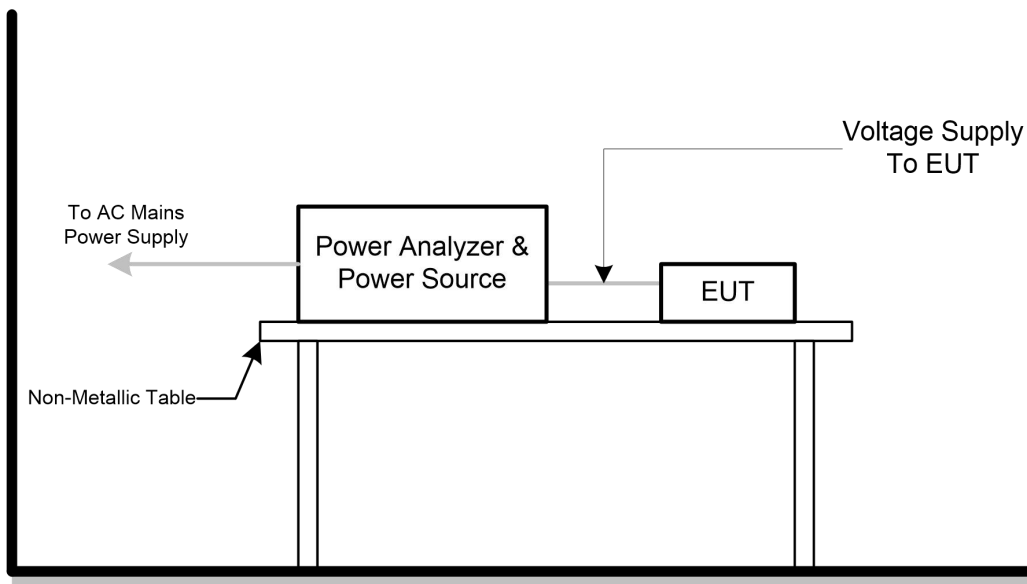
EN 61000-3-3: 2013/A2:2021

8.1.2. Limit

Voltage Fluctuation and Flicker Test Limit

Test Items	Limits
Pst	1.0
dc	3.3%
dmax	4.0%
dt	Not exceed 3.3% for 500ms

8.2. Test Setup



8.3. Test Procedure

8.3.1. Harmonic Current Test:

Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.

8.3.2. Fluctuation and Flickers Test:

Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

8.3.3. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

8.3.4. For the actual test configuration, please refer to the related Item –Block Diagram of system tested (please refer to 1.3).

8.4. Test Condition

Temperature	:	25 °C
Relative Humidity	:	48 %
Pressure	:	1010 hPa
Test Power	:	AC 230V/50Hz

8.5. Test Data

Please refer to the following page.

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: All parameters (European limits)

Test Margin: 100

Tested by: LCT

Start time: 15:18:45

End time: 15:29:07

Test duration (min): 10

Data file name: F-000473.cts_data

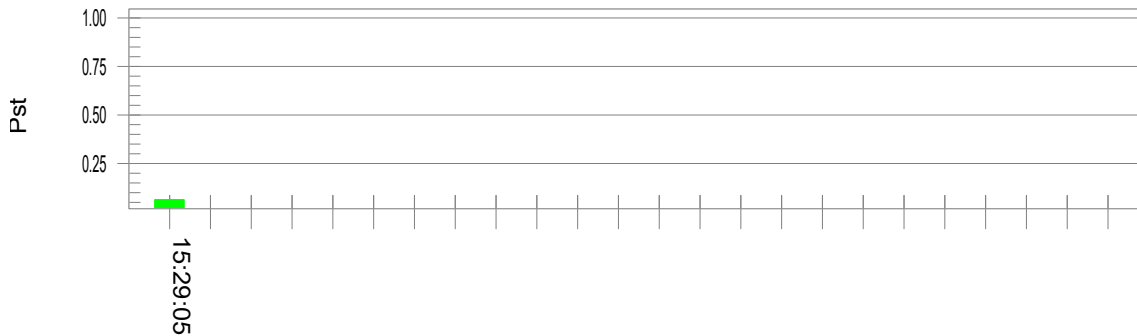
Customer: Customer

Test Result: Pass

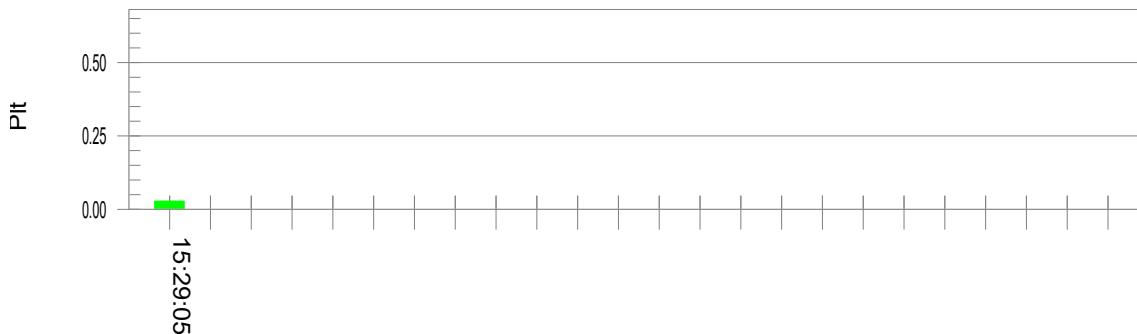
Status: Test Completed

Pst and limit line

European Limits



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.86			
Highest dt (%):	0.00	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.00	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.064	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.028	Test limit:	0.650	Pass

9. Electrostatic Discharge Immunity Test

9.1. Test Requirements

9.1.1. Test Standard

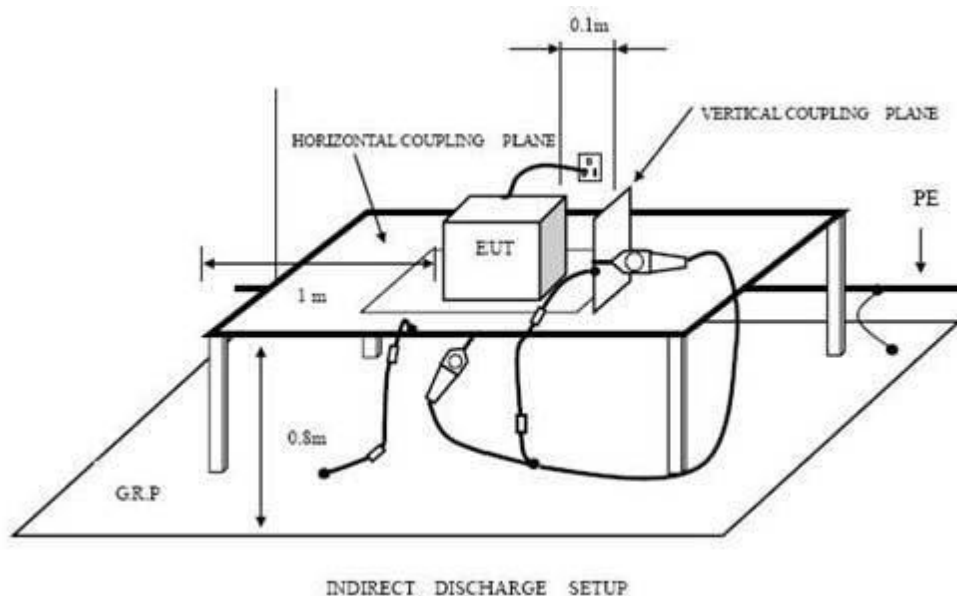
EN IEC 61547:2023 (EN 61000-4-2: 2009)

9.1.2. Test Level

Level	Test Voltage Contact Discharge (kV)	Test Voltage Air Discharge (kV)
1	±2	±2
2	±4	±4
3	±6	±8
4	±8	±15
X	Special	Special

9.1.3. Performance criterion: **B**

9.2. Test Setup



9.3. Test Procedure

9.3.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test

point. This procedure shall be repeated until all the air discharge completed.

9.3.2. Contact Discharge:

All the procedure shall be same as air discharge. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

9.3.3. Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

9.3.4. Indirect discharge for vertical coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

9.4. Test Data

Please refer to the following page.

Electrostatic Discharge Test Result

EUT	: Smart mirror	M/N	: 600x800mm
Temperature	: 22°C	Humidity	: 50%
Power supply	: AC 230V/50Hz	Test Mode	: Normal
Criterion: B			
Air Discharge: $\pm 8\text{kV}$ Contact Discharge: $\pm 4\text{kV}$			
For each point positive 10 times and negative 10 times discharge.			
Location	Kind A-Air Discharge C-Contact Discharge	Result	
Nonconductive Enclosure	A	PASS	
Slot of EUT	A	PASS	
HCP	C	PASS	
VCP of front	C	PASS	
VCP of rear	C	PASS	
VCP of left	C	PASS	
VCP of right	C	PASS	
Remark:			

10. Radiated Electromagnetic Field Immunity Test

10.1. Test Requirements

10.1.1. Test Standard

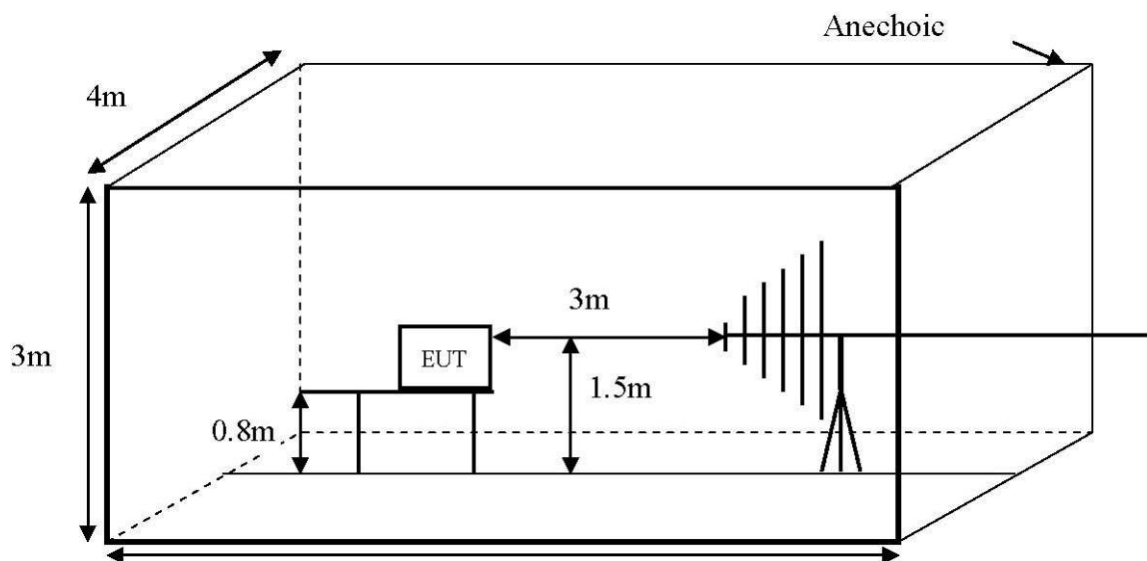
EN IEC 61547:2023 (EN IEC 61000-4-3:2020)

10.1.2. Test Level

Level	Field Strength V/m
1	1
2	3
3	10
X	Special

10.1.3. Performance criterion: **A**

10.2. Test Setup



10.3. Test Procedure

The EUT are placed on a table, which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna, which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a camera is used to monitor its screen.

All the scanning conditions are as following:

Condition of Test	Remark
-------------------	--------

Fielded strength	3V/m (Severity Level 2)
Radiated signal	Modulated
Scanning frequency	80-1000MHz
Sweep time of radiated	0.0015 Decade/s
Dwell time	1 Sec.

10.4. Test Data

Please refer to the following page.

RF Field Strength Susceptibility Test Results

EUT	: <u>Smart mirror</u>	M/N	: <u>600x800mm</u>	
Temperature	: <u>22°C</u>	Humidity	: <u>50%</u>	
Power supply	: <u>AC 230V/50Hz</u>	Test Mode	: <u>Normal</u>	
Criterion: A				
Modulation: Unmodulated				
Pulse: AM 1KHz 80%				
	Frequency Rang 1		Frequency Rang 2	
	80~1000MHz			
	Horizontal	Vertical	Horizontal	Vertical
Front	PASS	PASS	/	/
Right	PASS	PASS	/	/
Rear	PASS	PASS	/	/
Left	PASS	PASS	/	/
Remark:				

11. Electrical Fast Transient/Burst Test

11.1. Test Requirements

11.1.1. Test Standard

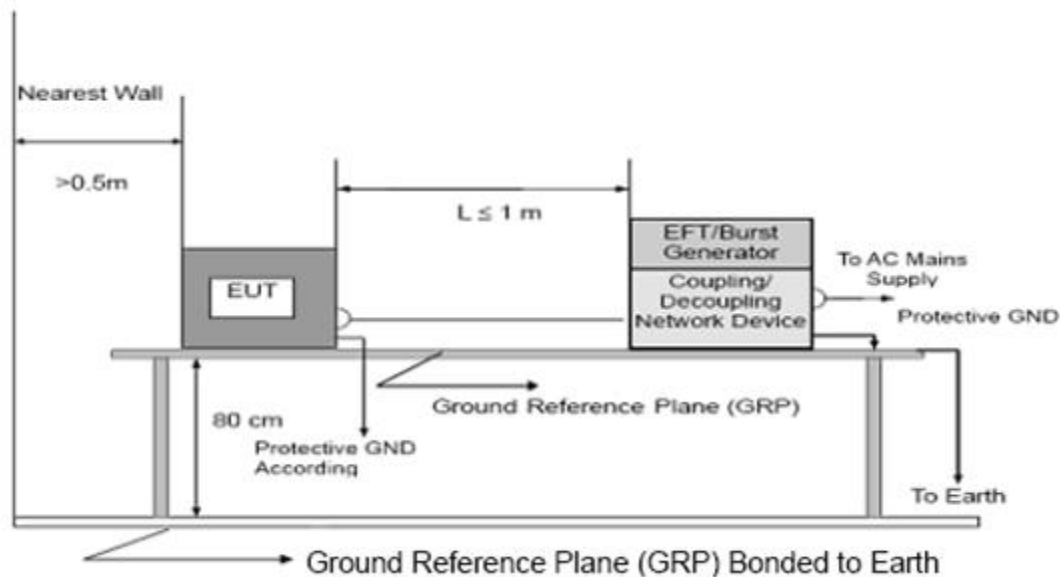
EN IEC 61547:2023 (EN 61000-4-4: 2012)

11.1.2. Level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Switching Adapter Lines	On I/O (Input/Output) Signal data and control lines
1	0.5 kV	0.25 kV
2	1 kV	0.5 kV
3	2 kV	1 kV
4	4 kV	2 kV
X	Special	Special

11.1.3. Performance criterion: **B**

11.2. Test Setup



11.3. Test Procedure

11.3.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 1 minute.

11.3.2. For signal lines and control lines ports:

A coupling clamp is use to couple the EFT interference signal to the signal and control lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 1 minute.

11.3.3. For DC input and DC output power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 1 minute.

11.4. Test Data

Please refer to the following page.

Electrical Fast Transient/Burst Test Results

EUT : <u>Smart mirror</u>	M/N : <u>600x800mm</u>		
Temperature : <u>22°C</u>	Humidity : <u>50%</u>		
Power supply : <u>AC 230V/50Hz</u>	Test Mode : <u>Normal</u>		
Criterion: B			
Line : ☒ AC Mains Coupling : ☒ Direct Line : ☐ Signal ☐ I/O Cable Coupling : ☐ Capacitive			
Line	Voltage(kV)	Result(+)	Result(-)
L	1	PASS	PASS
N	1	PASS	PASS
L-N	1	PASS	PASS
PE	/	/	/
L-PE	/	/	/
N-PE	/	/	/
L-N-PE	/	/	/

12. Surge Immunity Test

12.1. Test Requirements

12.1.1. Test Standard

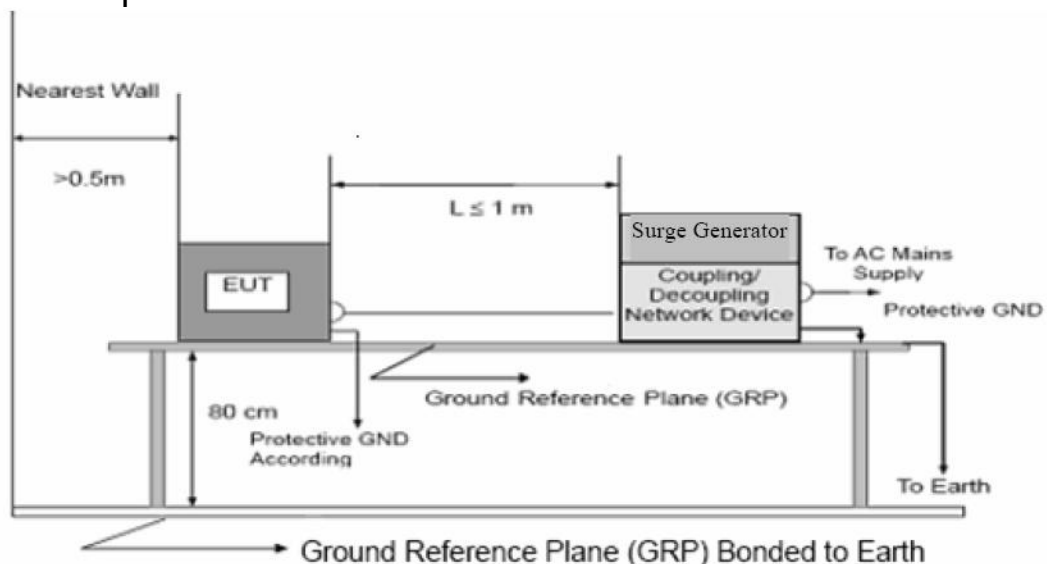
EN IEC 61547:2023 (EN 61000-4-5: 2014/A1:2017)

12.1.2. Level

Characteristics	Test levels		
	Device		
	Self-ballasted lamps and semi-luminaires	Luminaires and independent auxiliaries	
		Input power	
		$\leq 25W$	$>25W$
Wave-shape data	1,2/50	1,2/50	1,2/50
Test level: line to line	0,5kV	0,5kV	1,0kV
line to ground	1,0kV	1,0kV	2,0kV

12.1.3. Performance criterion: **C**

12.2. Test Setup



12.3. Test Procedure

12.3.1. Set up the EUT and test generator.

12.3.2. For line to line coupling mode, provide a 1.0 KV 1.2/50us voltage surge

12.3.3. (at open-circuit condition) and 8/20us current surge to EUT selected points.

- 12.3.4. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 12.3.5. Different phase angles are done individually.
- 12.3.6. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

12.4. Test Data

Please refer to the following page.

Surge Immunity Test Results

EUT : Smart mirror M/N : 600x800mm

Temperature : 22°C Humidity : 50%

Power supply : AC 230V/50Hz Test Mode : Normal

Criterion: C

Injected Line	Voltage(kV)	Phase	Result	
			(+)	(-)
L-N	0.5	0°	PASS	PASS
		90°	PASS	PASS
		180°	PASS	PASS
		270°	PASS	PASS
L-PE	1.0	/	/	/
		/	/	/
		/	/	/
		/	/	/
N-PE	1.0	/	/	/
		/	/	/
		/	/	/
		/	/	/
L-N-PE	1.0	/	/	/
		/	/	/
		/	/	/
		/	/	/

13. Conducted Immunity Test

13.1. Test Requirements

13.1.1. Test Standard

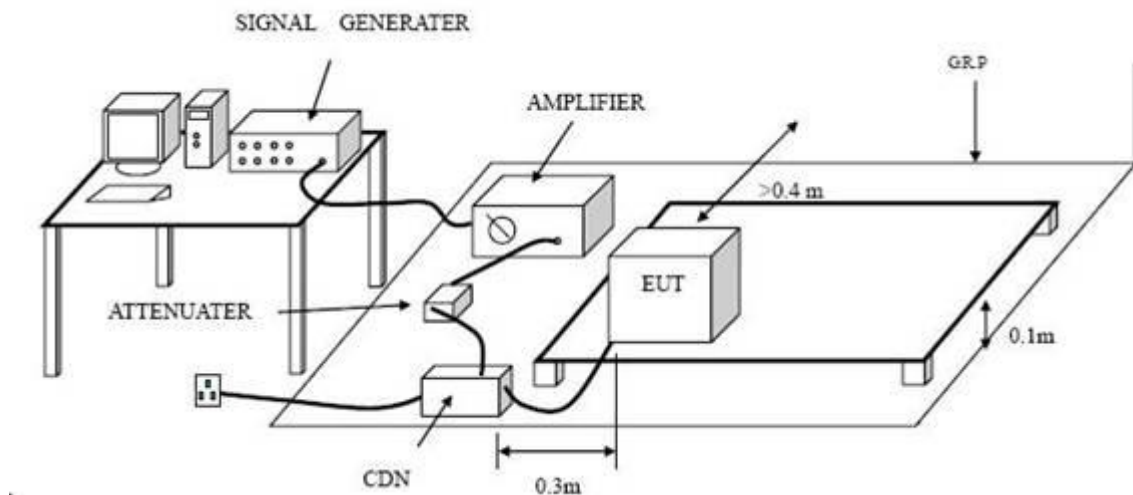
EN IEC 61547:2023 (EN 61000-4-6: 2014)

13.1.2. Level

Level	Voltage Level (e.m.f.) V
1	1
2	3
3	10
X	Special

13.1.3. Performance criterion: **A**

13.2. Test Setup



13.3. Test Procedure

13.3.1. Set up the EUT, CDN and test generators.

13.3.2. Let the EUT work in test mode and test it.

13.3.3. The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).

13.3.4. The disturbance signal description below is injected to EUT through CDN.

- 13.3.5. The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 13.3.6. The frequency range is swept from 0.150MHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
- 13.3.7. The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 13.3.8. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

13.4. Test Data

Please refer to the following page.

Injected Currents Susceptibility Test Results

EUT : <u>Smart mirror</u> M/N : <u>600x800mm</u>			
Temperature : <u>22°C</u> Humidity : <u>50%</u>			
Power supply : <u>AC 230V/50Hz</u> Test Mode : <u>Normal</u>			
Criterion: A			
Frequency Range (MHz)	Injected Position	Voltage Level (e.m.f.)	Result
0.15 ~ 80	AC Mains	3V(rms), Unmodulated	PASS
0.15 ~ 80	DC Mains	3V(rms), Unmodulated	/
0.15 ~ 80	Signal Line	3V(rms), Unmodulated	/

14. Power frequency Magnetic Field Immunity Test

14.1. Test Requirements

14.1.1. Test Standard

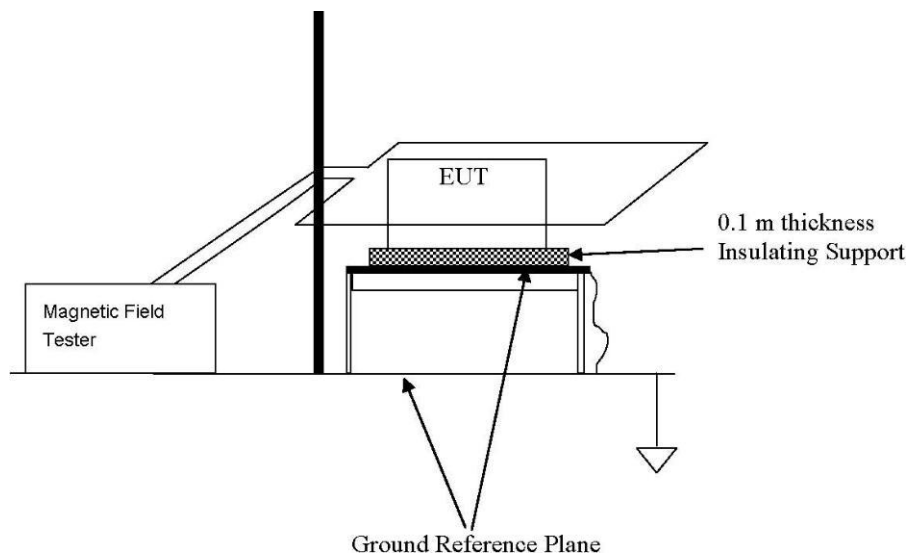
EN IEC 61547:2023 (EN61000-4-8: 2010)

14.1.2. Level

Level	Field Strength A/m
1	1
2	3
3	10
4	30
5	100
X	Special

14.1.3. Performance criterion: **A**

14.2. Test Setup



14.3. Test Procedure

The EUT is placed in the middle of a induction coil (1*1m), under which is a 1*1*0.1m (high) table, this small table is also placed on a larger table, 0.8 m above the ground. The X, Y and Z polarization of the induction coil is set on test, so that each side of the EUT is affected by the magnetic field. Also can reach the same aim by change the position of the EUT.

14.4. Test Data

Magnetic Field Immunity Test Results

EUT : <u>Smart mirror</u> M/N : <u>600x800mm</u>			
Temperature : <u>22°C</u> Humidity : <u>50%</u>			
Power supply : <u>AC 230V/50Hz</u> Test Mode : <u>ON</u>			
Criterion: A			
Test Level	Testing Duration	Coil Orientation	Result
3A/m	5 mins	X	PASS
3A/m	5 mins	Y	PASS
3A/m	5 mins	Z	PASS

15. Voltage Dips and Interruptions Immunity Test

15.1. Test Requirements

15.1.1. Test Standard

EN IEC 61547:2023 (EN IEC 61000-4-11:2020)

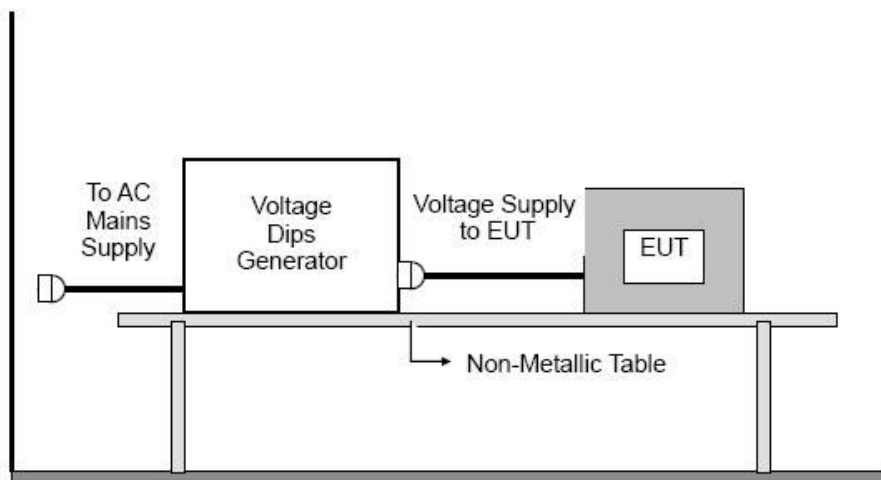
15.1.2. Level

Test Level for Voltage Dips and Interruptions

Test Level %U _T	Voltage dip and short interruptions %U _T	Duration (in period)
0	100	0.5
70	30	10

15.1.3. Performance criterion: **B&C**

15.2. Test Setup



15.3. Test Procedure

Set up the EUT and test generator as shown above. The EUT is tested for each selected combination of test level and duration with a sequence of three dips/interruptions with intervals of 10s minimum.

15.4. Test Data

Voltage Dips and Interruptions Test Results

EUT : Smart mirror M/N : 600x800mm

Temperature : 22°C Humidity : 50%

Power supply : AC 230V/50Hz Test Mode : ON

Criterion: B&C

Test Level % U_T	Voltage Dips & Short Interruptions % U_T	Duration (in period)	Phase Angle	Result
0	100	0.5P	0°~360°	PASS
70	30	10P	0°~360°	PASS

Remark: U_T is the rated voltage for the equipment.

16. Photographs - Constructional Details

Photo 1 Appearance of EUT

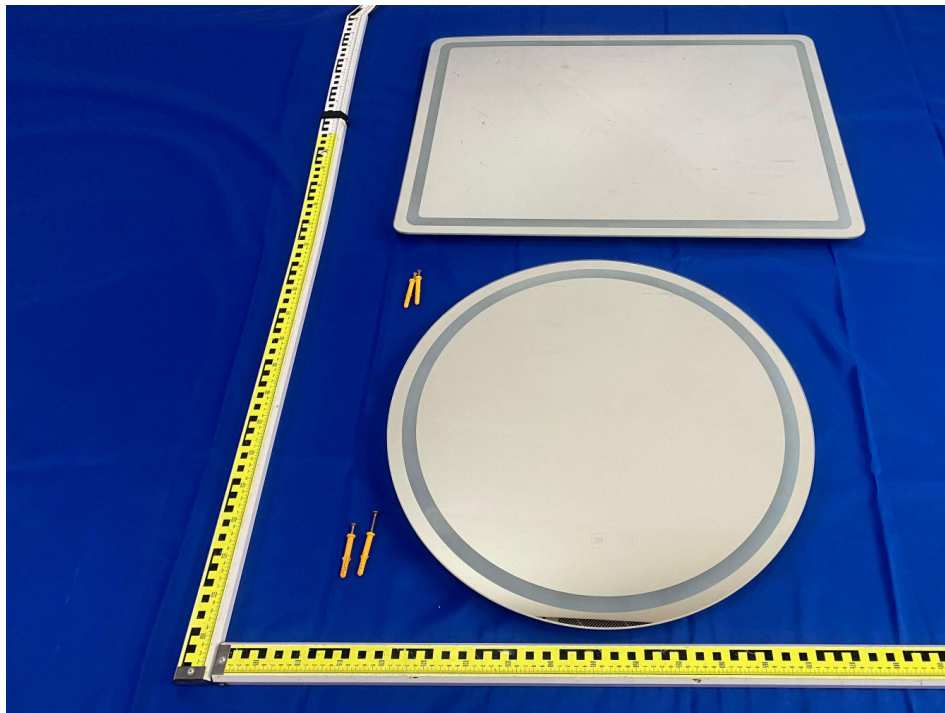


Photo 2 Appearance of EUT

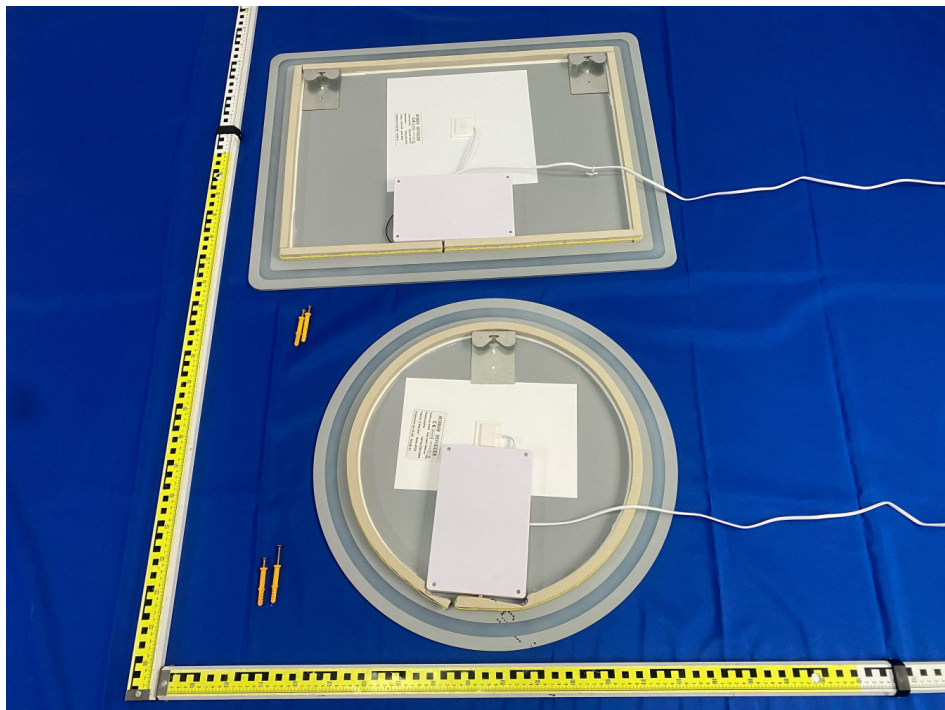


Photo 3 Appearance of EUT

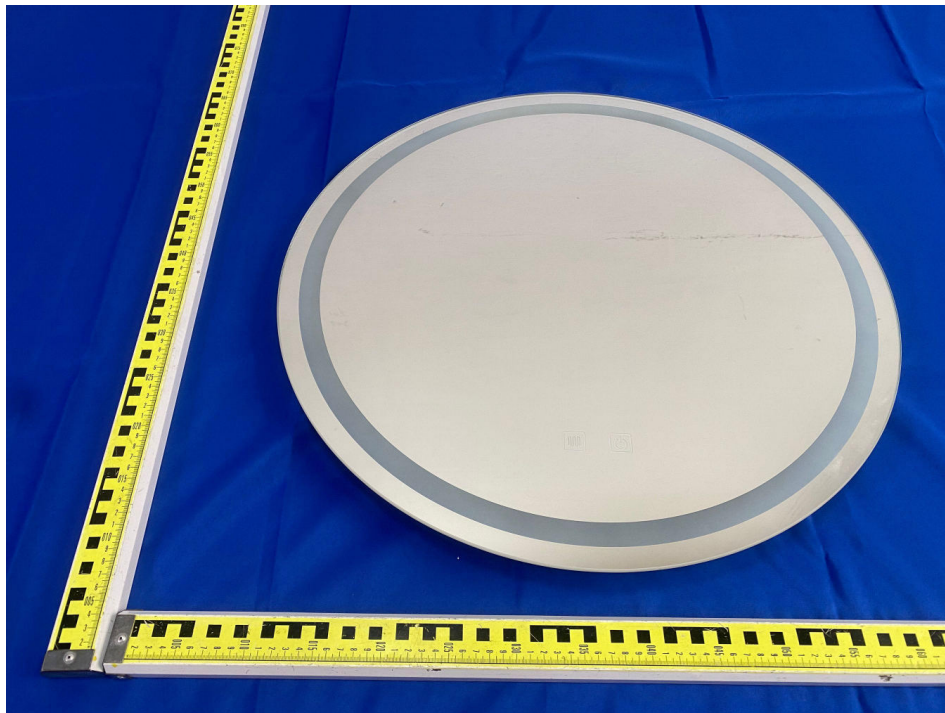


Photo 4 Appearance of EUT

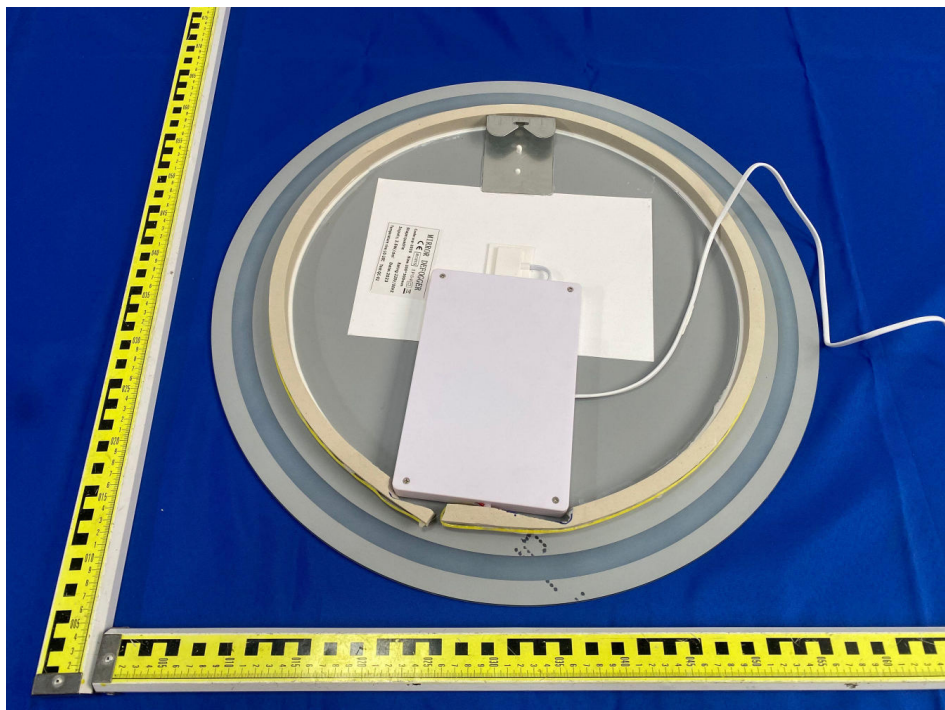


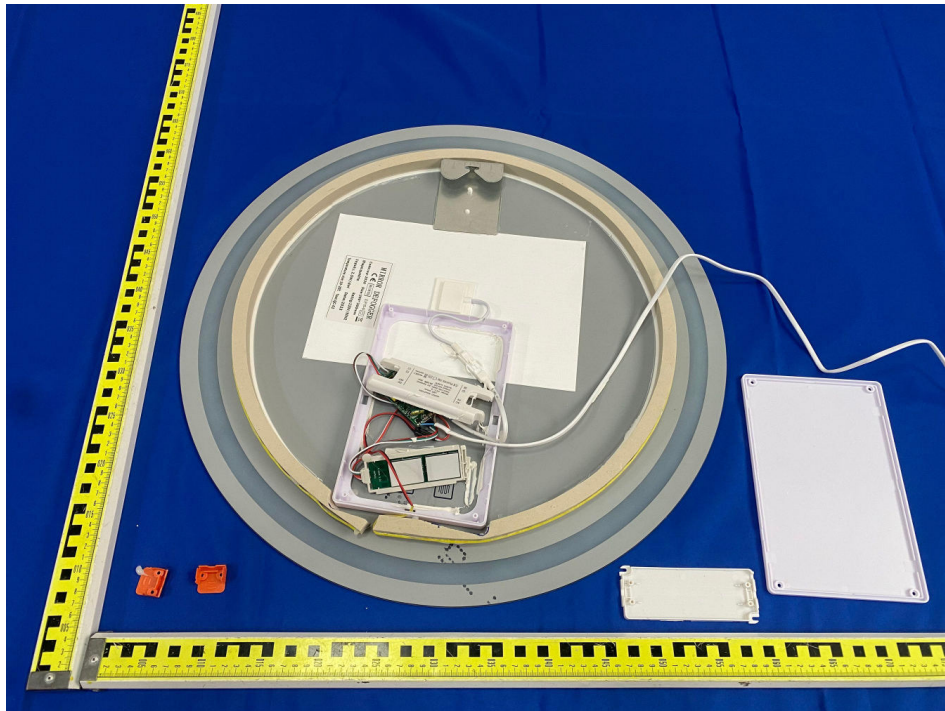
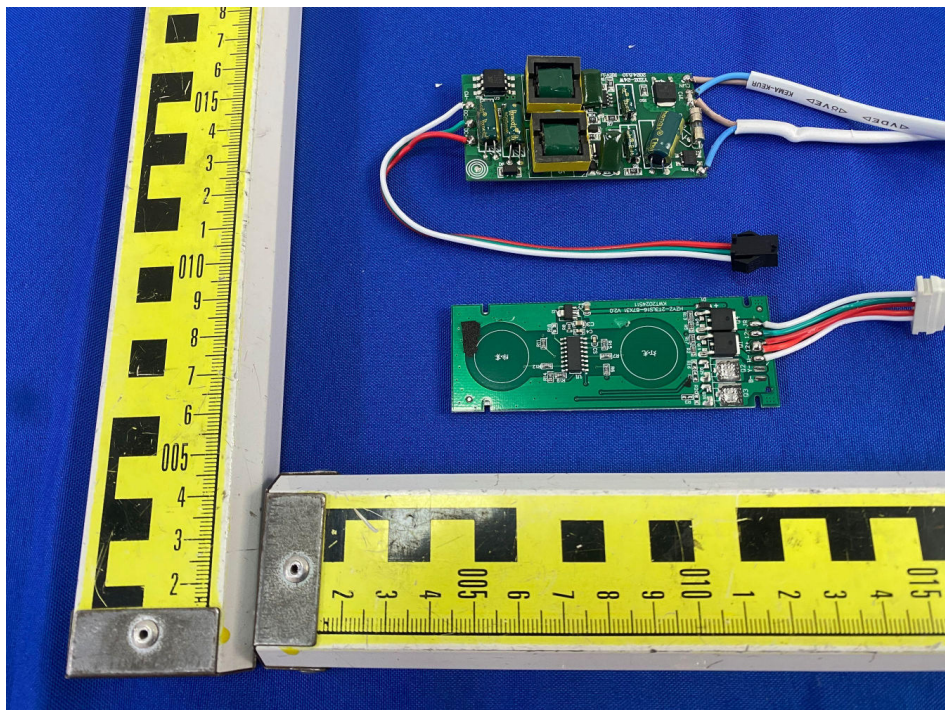
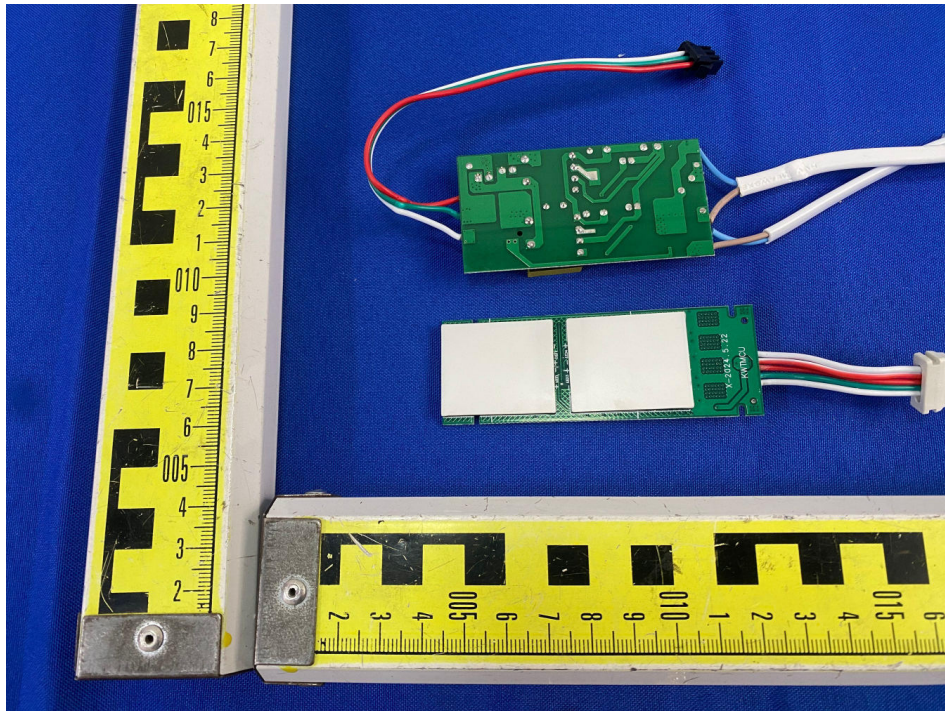
Photo 5 Inside of EUT**Photo 6 Appearance of PCB**

Photo 7 Appearance of PCB



END OF REPORT