TEST REPORT

Application No.:	GZEM2304001697HS
Applicant:	FUJIAN XINHONG MECH&ELEC CO., LTD.
Address of Applicant:	BAIJIN INDUSTRIAL ZONE, BAIZHANG TOWN, MINQING, FUZHOU, FUJIAN, CHINA
Manufacturer:	FUJIAN XINHONG MECH&ELEC CO., LTD.
Address of Manufacturer:	BAIJIN INDUSTRIAL ZONE, BAIZHANG TOWN, MINQING, FUZHOU, FUJIAN, CHINA
Factory:	FUJIAN XINHONG MECH&ELEC CO., LTD.
Address of Factory:	BAIJIN INDUSTRIAL ZONE, BAIZHANG TOWN, MINQING, FUZHOU, FUJIAN, CHINA
Equipment Under Test (EUT):	
EUT Name:	Heat Press Machine
Model No.:	HP3804D-F, HP3805N, HP3805N-2, B1-N, B1-2N, B2-N, B2-2N, HP3806-M1, HP3806-M2, HP3806-A1, HP3806-A2, HP3806-E1, HP3806-E2, HP230A, HP230B, HP230C, HP380, HP3802, HP3803, HP3804, HP3804C, HP3804DX, HP3804D-3, HP3805, HP3805B, HP3805B-X, HP3805-2, 5IN1, 8IN1, COMBO, HP3806, HP3807, HP3808, HP3809, HP680, HP680-Z, MINI, MATE230, MATE380, MATE450, MATE460, B1, B1-2, B2, B3, B4, B5, D2, MP150-X, MP150-1, MP150-2, MP150*5, MP4, MP160, MP170, MP180, MP190, MP300, MP3105, MP4105, MP5105, CP815B, CP2815, CP2815-2, CP2815-3, CP3815, PT110, HP230C-X, RP100, RP100-2, B5-3T, B5-6T, B5-15T, RPKT, MRP, HRP, ERP, RPE3, ERP-MINI, TH01, TH02 ♣
♣	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Standard(s) :	EN IEC 61000-6-3: 2021
	EN IEC 61000-6-1: 2019
Date of Receipt:	2023-04-04
Date of Test:	2023-04-10 to 2023-05-22
Date of Issue:	2023-09-13
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Jerry Chan
Manager

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Revision Record			
Version	**Report No.**	**Date**	**Remark**
01	GZEM230400169701	2023-09-13	Original

Authorized for issue by:				
		Pank Feng **Pank Feng/Project Engineer**		
		Terry Lai **Terry Lai/Reviewer**		

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2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	EN IEC 61000-6-3: 2021	CISPR 16-2-1	Table 4.3	Pass
Radiated Emissions (30MHz-1GHz)		CISPR 16-2-3	Table 3.1	Pass
Discontinuous Disturbance (150kHz-30MHz)		CISPR 14-1	Table 4.4	Pass
Harmonic Current Emission		EN IEC 61000-3-2: 2019+A1:2021	Class A	Pass
Voltage Fluctuations and Flicker		EN 61000-3-3:2013+A1:2019+A2:2021	Clause 5	Pass

Immunity Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Electrostatic Discharge	EN IEC 61000-6-1: 2019	EN 61000-4-2:2009	±4kV Contact Discharge, ±8kV Air Discharge	Pass
Radiated Immunity (80MHz1GHz, 1.4GHz-6GHz)		EN IEC 61000-4-3: 2020	3V/m, 80%, 1kHz Amp. Mod.	Pass
Conducted Immunity at AC Mains Power Port (150kHz-80MHz)		EN 61000-4-6:2014	3Vrms (emf),80%,1kHz Amp. Mod.	Pass
Electrical Fast Transients Burst at AC Mains Power Port		EN 61000-4-4:2012	1kV 5/50ns Tr/Td 5kHz or 100kHz Repetition Frequency	Pass
Surge at AC Mains Power Port		EN 61000-4-5:2014+A1:2017	1.2/50μs Tr/Td 1kV Line to Line 2kV Line to Ground	Pass
Voltage Dips and Interruptions		EN IEC 61000-4-11:2020	0 % UT for 0.5cycle 0 % UT for 1cycle 70 % UT for 25cycles 0 % UT for 250cycles UT is Supply Voltage	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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♣ Declaration of EUT Family Grouping:

Model No.:

HP3804D-F, HP3805N, HP3805N-2, B1-N, B1-2N, B2-N, B2-2N, HP3806-M1, HP3806-M2, HP3806-A1, HP3806-A2, HP3806-E1, HP3806-E2, HP230A, HP230B, HP230C, HP380, HP3802, HP3803, HP3804, HP3804C, HP3804DX, HP3804D-3, HP3805, HP3805B, HP3805B-X, HP3805-2, 5IN1, 8IN1, COMBO, HP3806, HP3807, HP3808, HP3809, HP680, HP680-Z, MINI, MATE230, MATE380, MATE450, MATE460, B1, B1-2, B2, B3, B4, B5, D2, MP150-X, MP150-1, MP150-2, MP150*5, MP4, MP160, MP170, MP180, MP190, MP300, MP3105, MP4105, MP5105, CP815B, CP2815, CP2815-2, CP2815-3, CP3815, PT110, HP230C-X, RP100, RP100-2, B5-3T, B5-6T, B5-15T, RPKT, MRP, HRP, ERP, RPE3, ERP-MINI, TH01, TH02

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on appearance, color and model number.

Therefore, only one model HP3804D-F was tested in this report.

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3 Contents

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4 General Information

4.1 Details of E.U.T.

Power supply: AC 220V
Rated Power:2400W
Test voltage: AC 220V

Cable(s): AC mains cable:3 wires about 1.0m unshielded

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	2.76dB (150kHz to 30MHz)
Radiated Emissions (30MHz-1GHz)	5.00dB (30MHz-1GHz):3m; 4.38dB (30MHz-1GHz):10m

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results

– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 EMS Monitor

Visual: LCD display
Other: Heating

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5 Equipment List

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Coaxial Cable	HangTianXing	2m	EMC0107	2022-08-24	2023-08-23
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2022-09-09	2023-09-08
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2023-05-19	2024-05-18
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A
Artificial Mains Network (LISN)	AFJ Instruments	LT32C	EMC2046	2022-10-21	2023-10-20

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2023-02-20	2024-02-19
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2023-04-13	2024-04-12
TRILOG Broadband Antenna（25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Times Microwave	BL03-NMNM-6	EMC2239	2022-05-18	2024-05-17
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A

Discontinuous Disturbance (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Click Analyzer (PMM CA0010)	Narda Safety Test Solutions	PMM CA0010	EMC2182	2022-09-09	2023-09-08
EMI Receiver (10Hz-30MHz)	Narda Safety Test Solutions	PMM 9010F	EMC2183	2022-09-09	2023-09-08
Test Software PMM Click Analysis	Narda Safety Test Solutions	Ver 1.06	GZE100-76	N/A	N/A

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Harmonic Current Emission					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable multifunctional ac/dc power source	EMTEST	NETWAVE 7-400	EMC2234	2023-04-21	2024-04-20
Digital power analyzer for harmonics & flicker testing	EMTEST	DPA 500N	EMC2235	2023-04-21	2024-04-20
NET.Control	EMTEST	Ver 3.2.0	GZE100-80	N/A	N/A

Voltage Fluctuations and Flicker					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable multifunctional ac/dc power source	EMTEST	NETWAVE 7-400	EMC2234	2023-04-21	2024-04-20
Digital power analyzer for harmonics & flicker testing	EMTEST	DPA 500N	EMC2235	2023-04-21	2024-04-20
NET.Control	EMTEST	Ver 3.2.0	GZE100-80	N/A	N/A

Electrostatic Discharge					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Temperature & Humidity	Shanghai Meteorological Instrument Factory Co., Ltd.	ZJ1-2B	EMC0078	2022-06-26	2023-06-25
ESD Ground Plane	SGS-EMC	3m x 3m	EMC0804	N/A	N/A
Aneroid Barometer	Shanghai Meteorological Instrument Factory Co., Ltd.	YM3	EMC2181	2022-11-18	2023-11-17
ESD Simulator-E	EMTEST	NX30	EMC2186	2023-02-20	2024-02-19

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Radiated Immunity (80MHz1GHz, 1.4GHz-6GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
743 Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2022-10-16	2025-10-15
Monitor System	Mitsubish Corp.	M-0552AB	EMC0909	N/A	N/A
Oscilloscope	Tektronix	TDS3052C	EMC2055	2022-11-17	2023-11-16
Laser Probe Interface	RF Microwave Instrumentation	FI7000	EMC2089	N/A	N/A
Open Switch And Control Unit	Rohde & Schwarz	OSP130	EMC2090	N/A	N/A
Broadband Amplifier (80MHz~1GHz/250W)	Rohde & Schwarz	BBA150	EMC2091	2022-12-16	2023-12-15
Broadband Amplifier (800MHz~3GHz/110W)	Rohde & Schwarz	BBA150	EMC2092	2022-12-16	2023-12-15
Signal Generator (9kHz-6GHz)	Rohde & Schwarz	SMB100A	EMC2093	2022-12-16	2023-12-15
Laser Probe	RF Microwave Instrumentation	FL7006	EMC2094	2023-04-26	2024-04-27
NRP-Z91 Power Sensor (9kHz-6GHz)	Rohde & Schwarz	NPR-Z91	EMC2095	2022-12-16	2023-12-15
NRP-Z91 Power Sensor (9kHz-6GHz)	Rohde & Schwarz	NPR-Z91	EMC2096	2022-12-16	2023-12-15
High-Gain Log-preiodic Antenna	Rohde & Schwarz	HL046E	EMC2097	2022-02-14	2025-02-13
RI Cable	Rohde & Schwarz	7m	EMC2098	2023-05-19	2024-05-18
Broadband Amplifier (2.5~6GHZ/30W)	Rohde & Schwarz	BBA150	EMC2105	2022-09-21	2023-09-20
Audio Analyzer	Keysight	U8903B	EMC2180	2022-09-07	2023-09-06
Test Software EMC32	Rohde & Schwarz	Ver. 9.26.00	GZE100-63	N/A	N/A
Stacked Logarithmic-Periodic Broadband Antenna (0.7~9GHz)/300W	Schwarzbeck	STLP 9149	SEM003-21	2021-09-18	2024-09-17

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Conducted Immunity at AC Mains Power Port (150kHz-80MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Dual Directional coupler	Werlatone Inc.	C1795	EMC1105	2023-05-15	2024-05-14
CDN M2	Schaffner Chase	CDN-M2-16	EMC1107	2020-10-23	2023-10-22
CDN M2/M3	Elektronik-Feinmechanik	L-801:M2/M3	EMC2048	2022-07-19	2024-07-18
Test System for Conducted and Radiated Immunity	TESEQ AG	NSG 4070B-80	EMC2115	2022-11-14	2023-11-13
Audio Analyzer	Keysight	U8903B	EMC2180	2022-09-07	2023-09-06
Test Software NSG4070_Ctrl1	TESEQ AG	Ver.1.3.0.1	GZE100-72	N/A	N/A
Oscilloscope	Tektronix	TDS3052C	EMC2055	2022-11-17	2023-11-16

Electrical Fast Transients Burst at AC Mains Power Port					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Oscilloscope	Tektronix	TDS3052C	EMC2055	2022-11-17	2023-11-16
EMC Immunity Test System	TESEQ AG	NSG 3060&CDN3061&INA 6502 CIB	EMC2072	2022-12-16	2023-12-15
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

Surge at AC Mains Power Port					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Oscilloscope	Tektronix	TDS3052C	EMC2055	2022-11-17	2023-11-16
EMC Immunity Test System	TESEQ AG	NSG 3060&CDN3061&INA 6502 CIB	EMC2072	2022-12-16	2023-12-15
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

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Voltage Dips and Interruptions					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Oscilloscope	Tektronix	TDS3052C	EMC2055	2022-11-17	2023-11-16
EMC Immunity Test System	TESEQ AG	NSG 3060&CDN3061&INA 6502 CIB	EMC2072	2022-12-16	2023-12-15
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23
DMM	Fluke	73	EMC0007	2022-06-24	2023-06-23

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6 Emission Test Results

6.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: CISPR 16-2-1

Limit:

0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

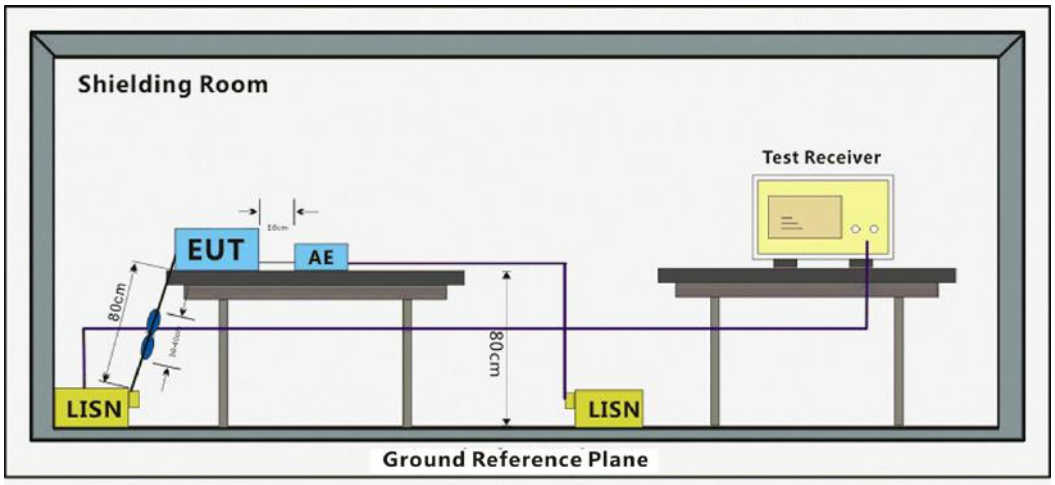
Operating Environment:

Temperature: 24.7 °C Humidity: 55.8 % RH Atmospheric Pressure: 1008 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Test the EUT in heating mode, setting the temperature in low level.
Pre-scan	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

6.1.3 Test Setup Diagram



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6.1.4 Measurement Procedure and Data

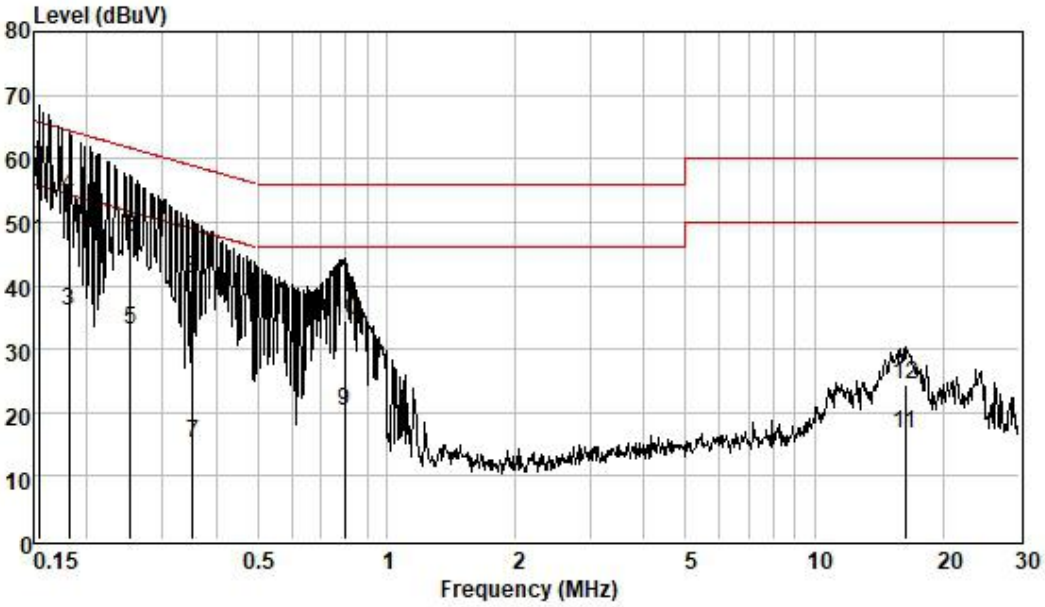
Frequency range: 150KHz-30MHz

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

The red line show in graphic is the limit in standard used in this section.

Measured Level = Read level + Cable Loss + LISN Factor

Test Mode: 02; Line: Live line



Pol :LINE
Mode :
Model :
Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.154	37.21	0.06	9.61	46.88	55.78	-8.90	Average
2	0.154	48.76	0.06	9.61	58.43	65.78	-7.35	QP
3	0.182	26.23	0.06	9.61	35.90	54.42	-18.52	Average
4	0.182	44.57	0.06	9.61	54.24	64.42	-10.18	QP
5	0.252	23.35	0.06	9.61	33.02	51.69	-18.67	Average
6	0.252	38.03	0.06	9.61	47.70	61.69	-13.99	QP
7	0.352	5.57	0.06	9.60	15.23	48.91	-33.68	Average
8	0.352	31.29	0.06	9.60	40.95	58.91	-17.96	QP
9	0.800	10.45	0.07	9.61	20.13	46.00	-25.87	Average
10	0.800	24.93	0.07	9.61	34.61	56.00	-21.39	QP
11	16.312	6.64	0.31	9.69	16.64	50.00	-33.36	Average
12	16.312	14.44	0.31	9.69	24.44	60.00	-35.56	QP

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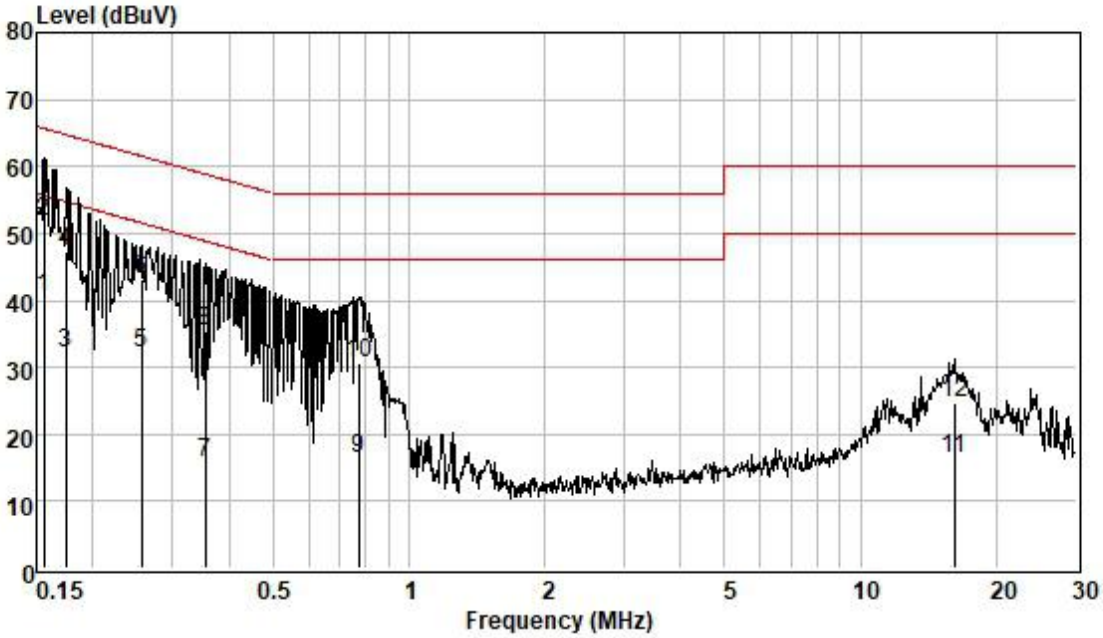
Test Mode: 02; Line: Neutral Line



Pol :NEUTRAL
Mode :
Model :
Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.156	30.91	0.06	9.62	40.59	55.69	-15.10	Average
2	0.156	42.13	0.06	9.62	51.81	65.69	-13.88	QP
3	0.174	22.42	0.06	9.60	32.08	54.77	-22.69	Average
4	0.174	37.54	0.06	9.60	47.20	64.77	-17.57	QP
5	0.256	22.46	0.06	9.61	32.13	51.56	-19.43	Average
6	0.256	33.39	0.06	9.61	43.06	61.56	-18.50	QP
7	0.354	6.20	0.06	9.62	15.88	48.87	-32.99	Average
8	0.354	25.65	0.06	9.62	35.33	58.87	-23.54	QP
9	0.775	6.76	0.07	9.62	16.45	46.00	-29.55	Average
10	0.775	21.06	0.07	9.62	30.75	56.00	-25.25	QP
11	16.140	6.18	0.31	9.81	16.30	50.00	-33.70	Average
12	16.140	14.69	0.31	9.81	24.81	60.00	-35.19	QP

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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: CISPR 16-2-3

Limit:

Test Distance: 3m

30MHz-230MHz 40 dB(μV/m) quasi-peak

230MHz-1GHz 47 dB(μV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz

6.2.1 E.U.T. Operation

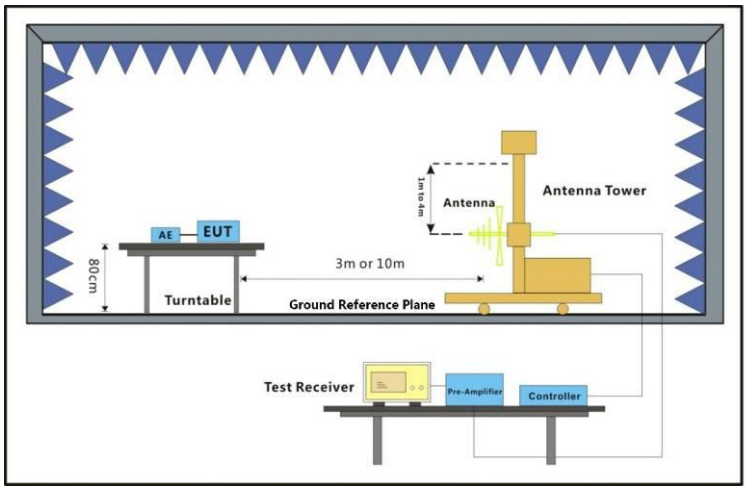
Operating Environment:

Temperature: 23.6 °C Humidity: 56.3 % RH Atmospheric Pressure: 1008 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Test the EUT in heating mode, setting the temperature in low level.
Pre-scan	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

Frequency range: 30MHz-1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

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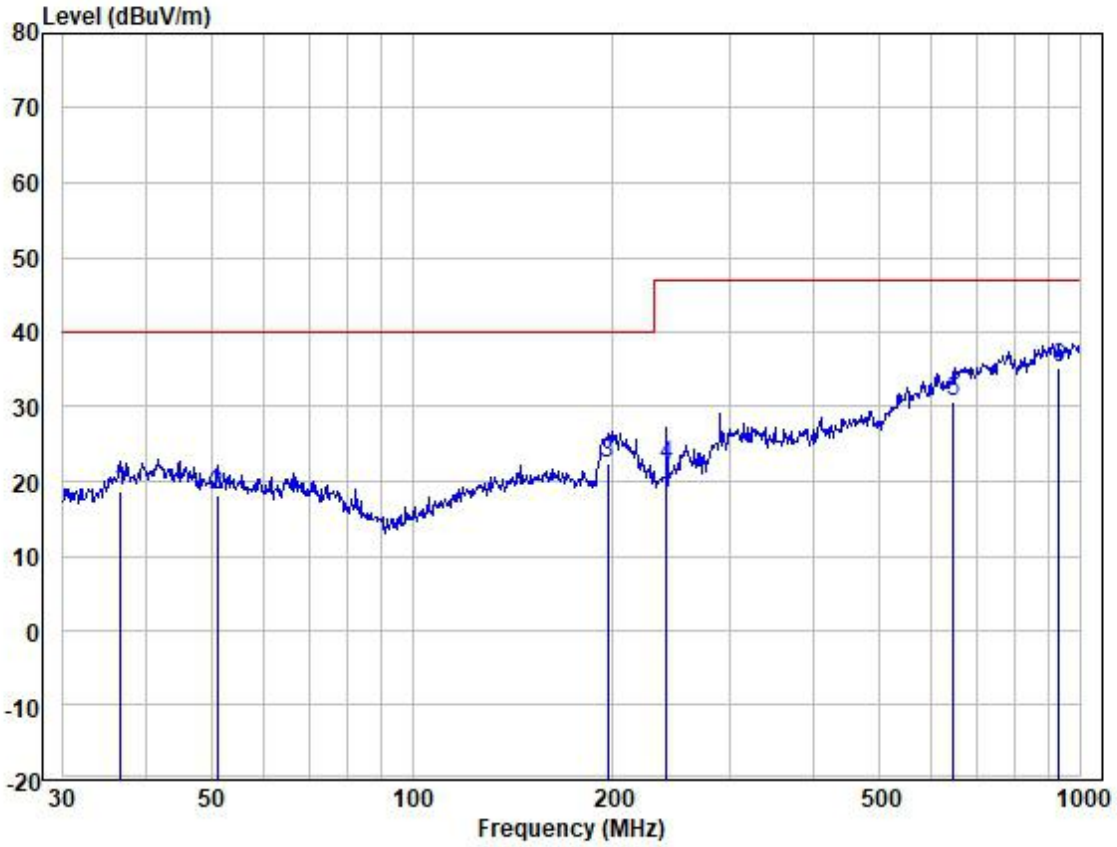
Test Mode: 02; Polarity: Horizontal



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : HIGH

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	36.637	32.31	18.59	0.70	32.96	18.64	40.00	-21.36	HORIZONTAL	QP
2	51.121	30.85	19.50	0.72	33.00	18.07	40.00	-21.93	HORIZONTAL	QP
3	196.510	37.71	15.84	1.87	33.00	22.42	40.00	-17.58	HORIZONTAL	QP
4	240.830	35.93	17.30	1.90	33.04	22.09	47.00	-24.91	HORIZONTAL	QP
5	647.386	34.14	26.66	3.30	33.35	30.75	47.00	-16.25	HORIZONTAL	QP
6	929.008	33.12	29.73	4.30	31.98	35.17	47.00	-11.83	HORIZONTAL	QP

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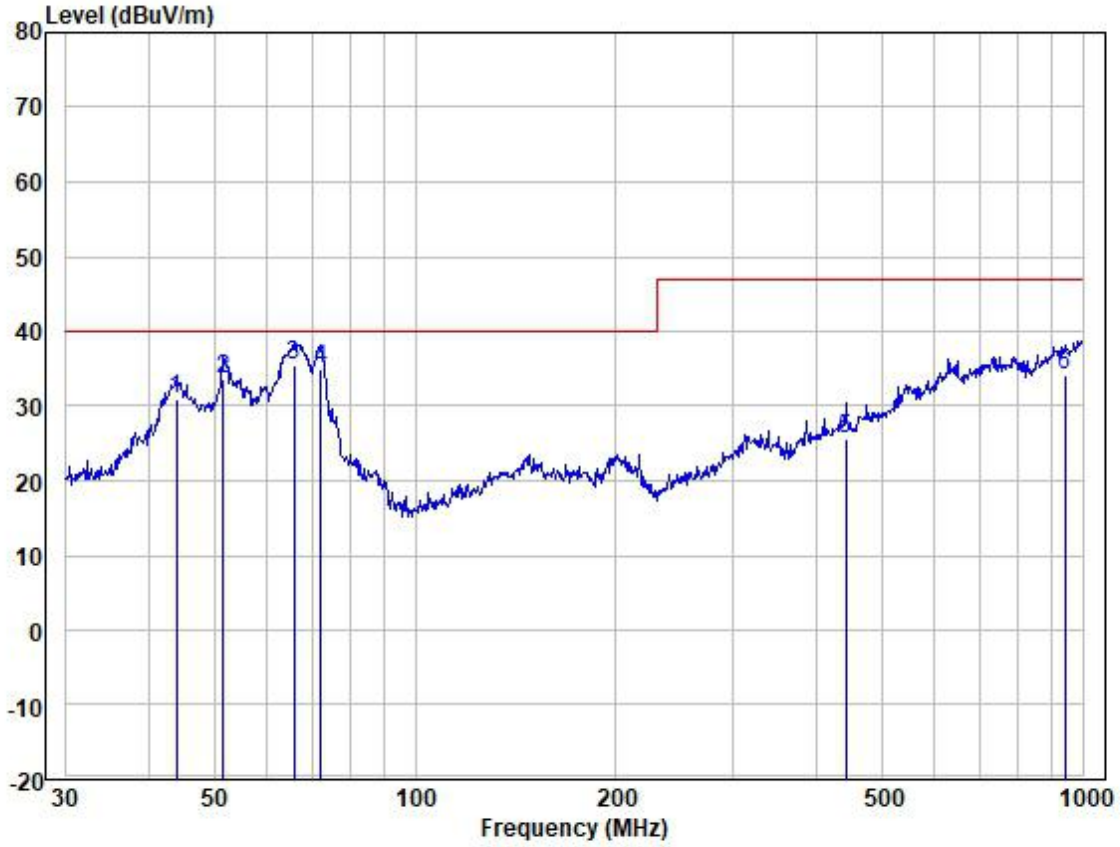
Test Mode: 02; Polarity: Vertical



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : HIGH

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	43.966	43.83	19.38	0.73	32.98	30.96	40.00	-9.04	VERTICAL	QP
2	51.662	46.45	19.50	0.72	33.00	33.67	40.00	-6.33	VERTICAL	QP
3	65.803	49.81	17.83	0.92	33.00	35.56	40.00	-4.44	VERTICAL	QP
4	72.338	50.41	16.64	1.00	33.00	35.05	40.00	-4.95	VERTICAL	QP
5	441.743	33.57	22.48	2.66	33.24	25.47	47.00	-21.53	VERTICAL	QP
6	938.833	32.06	29.80	4.24	31.87	34.23	47.00	-12.77	VERTICAL	QP

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6.3 Discontinuous Disturbance (150kHz-30MHz)

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: CISPR 14-1

Limit:

Provision	Click Rate (N)		
1	All clicks ≤ 20 ms	90 % click ≤ 10 ms	N≤5
2	N < 0,2	L_q [b]= L^a + 44	Clicks [c] ≤ 25% exceed L_q [b]
3	30 > N ≥ 0,2	L_q [b]= L^a + 20 lg(30/N)	Clicks [c] ≤ 25% exceed L_q [b]

[a] The limits L of Conducted Emissions apply also to discontinuous disturbances from all equipment which produce:

1) disturbances other than clicks, or

2) clicks with a click rate *N* equal to or greater than 30

[b] The click limit Lq is calculated by increasing the relevant quasi-peak limit L for continuous disturbances by certain value.

The click limit applies to the disturbance assessed according to the upper quartile method

[c] a quarter of the number of the clicks registered during the observation time T is allowed to exceed the click limit Lq

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 51.2 % RH Atmospheric Pressure: 1008 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Test the EUT in heating mode, setting the temperature in low level.
Pre-scan	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

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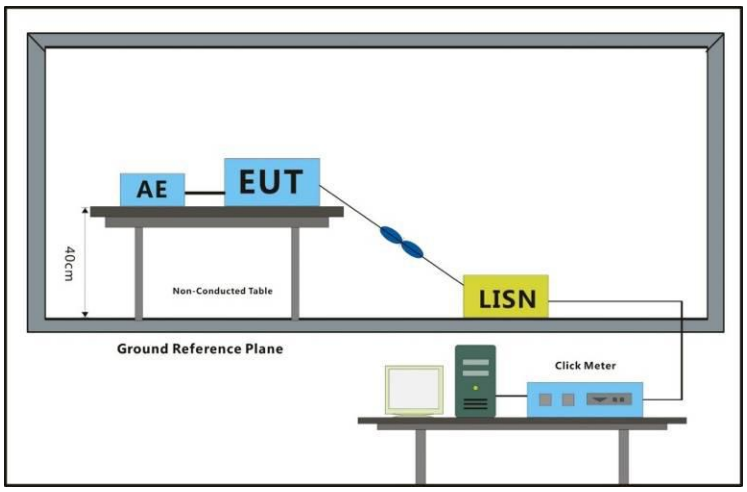
6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

Frequency Range: 150kHz to 30MHz

Test Mode: 02

Lq Calculation										
Frequency MHz	Limit dBuV	<=10ms	<=20ms	<=0.2s	From Exception E4	Other than click ms	Total Clicks	Time min.	N rate	+Lq dB
0.15	66.0	0	0	0	0	0	0	120.0	0.0	PASS
0.50	56.0	0	0	0	0	0	0	120.0	0.0	PASS
1.40	56.0	0	0	0	0	0	0	120.0	0.0	PASS
30.00	60.0	0	0	0	0	0	0	120.0	0.0	PASS

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6.4 Harmonic Current Emission

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: EN IEC 61000-3-2: 2019+A1:2021

6.4.1 E.U.T. Operation

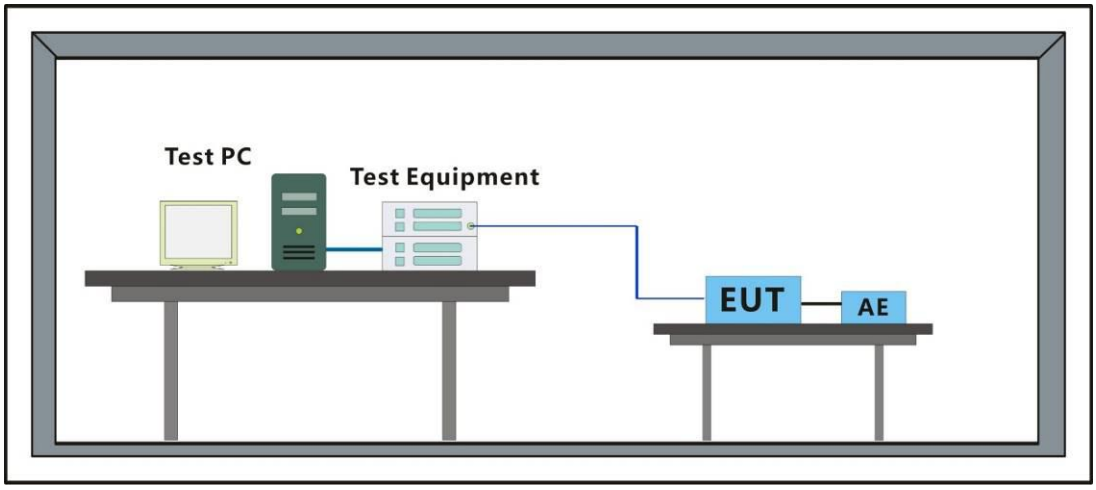
Operating Environment:

Temperature: 22.1 °C Humidity: 51.2 % RH Atmospheric Pressure: 1008 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Test the EUT in heating mode, setting the temperature in low level.
Pre-scan	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

6.4.3 Test Setup Diagram



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6.4.4 Measurement Procedure and Data

Frequency Range: 100Hz to 2kHz

Test Mode: 02

Standard Specific Results for IEC 61000-3-2 (Edition 5.1)	
Standard Group:	Industry
Standard Name:	IEC 61000-3-2 (Edition 5.1)
	Limits for harmonic current emissions (equipment input current < 16 A per phase)
Device Under Test:	PASS
Power Source:	PASS
Connection Type:	L - N
Main Line:	220 V, 50 Hz
Classification:	Class A
Appli. of Limits:	less than or equal to 150 % (Without POHC Enhancement)
Test Duration:	2 min 30 s

Check Harmonics 2..40			
First detected harmonic order > 150 %			
Line 1:	None		
Harmonics orders > 150 %			
Line 1:	None		
Harmonics orders with average > 100 %			
Line 1:	None		

Measured values			
Fundamental Current			
Line 1:	8.917 A		
Active input Power			
Line 1:	1953.163 W *		
Circuit power factor			
Line 1:	1 *		

** Absolute value.*

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Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	Ieff [A]	of Limit [%]	Limit [A]	Result	Ieff [A]	of Limit [%]	Limit [A]	Result	
1	8.913				8.917				
2	0.007	0.649	1.080	n/a	0.008	0.465	1.620	n/a	PASS
3	0.028	1.229	2.300	n/a	0.029	0.840	3.450	n/a	PASS
4	0.002	0.577	0.430	n/a	0.003	0.440	0.645	n/a	PASS
5	0.005	0.473	1.140	n/a	0.006	0.344	1.710	n/a	PASS
6	0.003	1.029	0.300	n/a	0.003	0.758	0.450	n/a	PASS
7	0.019	2.492	0.770	n/a	0.019	1.685	1.155	n/a	PASS
8	0.001	0.617	0.230	n/a	0.002	0.541	0.345	n/a	PASS
9	0.011	2.655	0.400	n/a	0.011	1.794	0.600	n/a	PASS
10	0.001	0.616	0.184	n/a	0.001	0.464	0.276	n/a	PASS
11	0.011	3.400	0.330	n/a	0.011	2.298	0.495	n/a	PASS
12	0.001	0.787	0.153	n/a	0.002	0.657	0.230	n/a	PASS
13	0.012	5.697	0.210	n/a	0.012	3.875	0.315	n/a	PASS
14	0.001	0.686	0.131	n/a	0.001	0.520	0.197	n/a	PASS
15	0.005	3.105	0.150	n/a	0.005	2.132	0.225	n/a	PASS
16	0.001	0.705	0.115	n/a	0.001	0.531	0.173	n/a	PASS
17	0.009	6.670	0.132	n/a	0.009	4.603	0.199	n/a	PASS
18	0.001	0.648	0.102	n/a	0.001	0.478	0.153	n/a	PASS
19	0.005	4.148	0.118	n/a	0.005	2.817	0.178	n/a	PASS
20	0.001	0.819	0.092	n/a	0.001	0.618	0.138	n/a	PASS
21	0.005	4.571	0.107	n/a	0.005	3.146	0.161	n/a	PASS
22	0.001	0.734	0.084	n/a	0.001	0.547	0.125	n/a	PASS
23	0.004	4.125	0.098	n/a	0.004	2.911	0.147	n/a	PASS
24	0.001	0.895	0.077	n/a	0.001	0.668	0.115	n/a	PASS
25	0.004	4.854	0.090	n/a	0.005	3.486	0.135	n/a	PASS
26	0.001	1.000	0.071	n/a	0.001	0.742	0.106	n/a	PASS
27	0.002	1.888	0.083	n/a	0.002	1.476	0.125	n/a	PASS
28	0.001	0.986	0.066	n/a	0.001	0.733	0.099	n/a	PASS
29	0.004	5.443	0.078	n/a	0.004	3.825	0.116	n/a	PASS
30	0.001	1.098	0.061	n/a	0.001	0.813	0.092	n/a	PASS
31	0.003	4.019	0.073	n/a	0.003	2.787	0.109	n/a	PASS
32	0.001	1.149	0.058	n/a	0.001	0.843	0.086	n/a	PASS
33	0.003	4.665	0.068	n/a	0.003	3.257	0.102	n/a	PASS
34	0.001	1.160	0.054	n/a	0.001	0.853	0.081	n/a	PASS
35	0.005	7.019	0.064	n/a	0.005	4.850	0.096	n/a	PASS
36	0.001	1.335	0.051	n/a	0.001	1.047	0.077	n/a	PASS
37	0.001	1.408	0.061	n/a	0.001	1.099	0.091	n/a	PASS
38	0.001	1.286	0.048	n/a	0.001	0.966	0.073	n/a	PASS
39	0.004	7.730	0.058	n/a	0.005	5.301	0.087	n/a	PASS
40	0.001	1.419	0.046	n/a	0.001	1.034	0.069	n/a	PASS

Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

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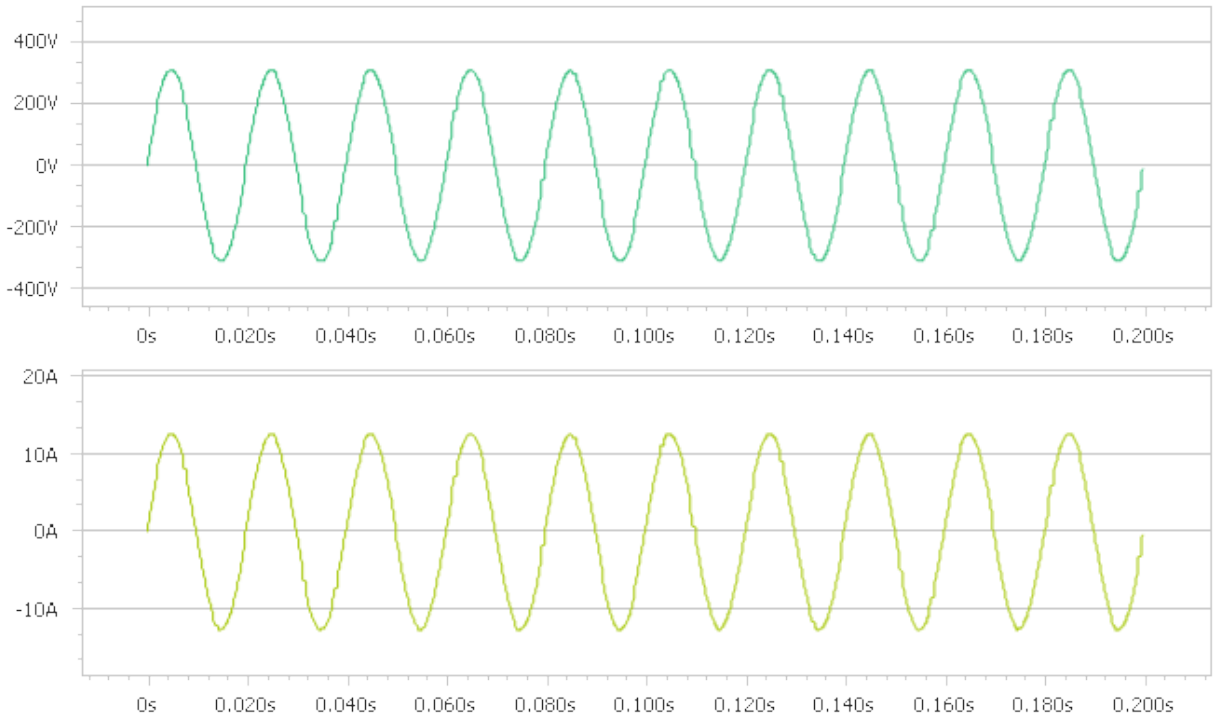
Time Window 1

Time Domain of Time Window 1



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Maximum / Average Values

	Line 1
Maximum Values	
Frequency	50 Hz
Voltage RMS	219.0 V
Current RMS	8.918 A
Peak Current	12.68 A
Fundamental Current	8.918 A
Current Crest Factor	1.439
Active Power P	1.953e+3 W
Power Factor	1.000
Total Harmonic Current (THC)	0.04446 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)	0.01221 A
Total Harmonic Distortion Current (THDC)	4.986e-3
Average Values	
Total Harmonic Current (THC)	0.04379 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)	0.01181 A
Total Harmonic Distortion Current (THDC)	4.911e-3

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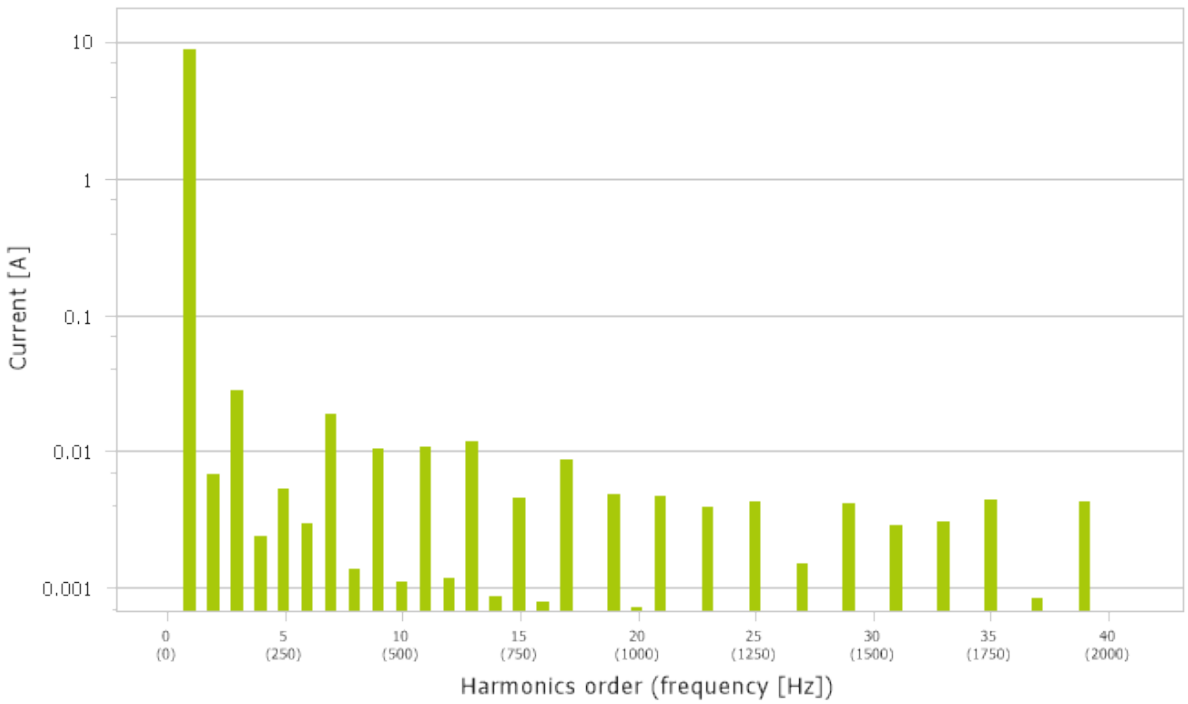
Average Harmonics

Average Harmonics (Line 1)



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6.5 Voltage Fluctuations and Flicker

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: EN 61000-3-3:2013+A1:2019+A2:2021

6.5.1 E.U.T. Operation

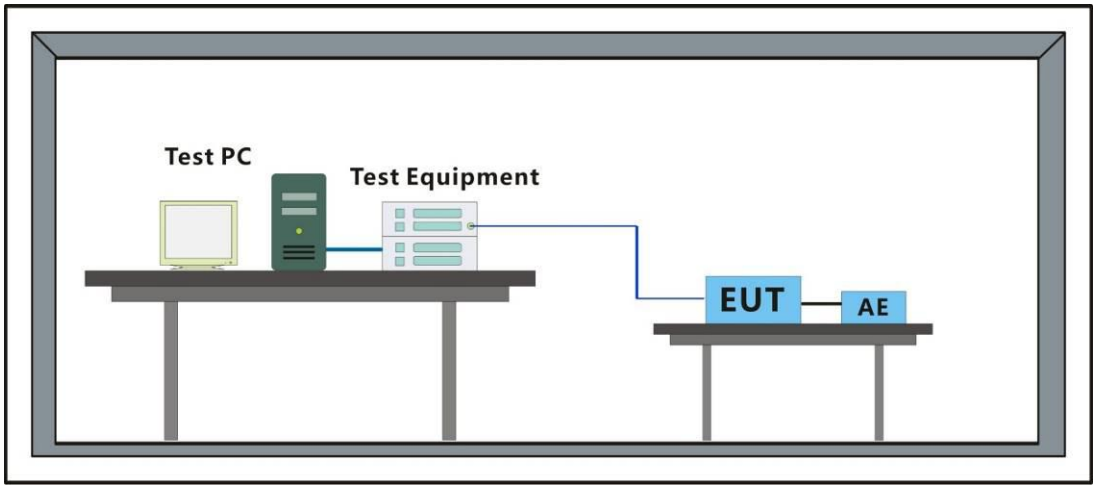
Operating Environment:

Temperature: 22.2 °C Humidity: 52.3 % RH Atmospheric Pressure: 1008 mbar

6.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Test the EUT in heating mode, setting the temperature in low level.
Pre-scan	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

6.5.3 Test Setup Diagram



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6.5.4 Measurement Procedure and Data

Test Mode: 02

Flicker Results

Standard Specific Results for IEC 61000-3-3 (Edition 3)

Standard Group: Industry

Standard Name: IEC 61000-3-3 (Edition 3)
Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

Test Condition: General Test Conditions

Analysis Status: PASS

Flicker Measurements Settings	
Main Line:	230V, 50Hz
Flicker Meter:	230V / 50Hz
Flicker Impedance:	Zref
Observation Time:	1 × 10 min
Measurements:	1

Flicker Measurements					
	P_{lt}	Max P_{st}	Max d_c	Max d_{max}	Max T_{max}
Line 1:	0.331	0.759	1.874	2.047	0
Limits:	0.65	1	3.3	4	0.5
Results:	PASS	PASS	PASS	PASS	PASS

Flicker Individual Measurements												
Measurement	P_{st} [ ]			d_c [%]			d_{max} [%]			T_{max} [s]		
	Value	Limit	Result	Value	Limit	Result	Value	Limit	Result	Value	Limit	Result
#1	0.76	1.00	PASS	1.87	3.30	PASS	2.05	4.00	PASS	0.00	0.50	PASS

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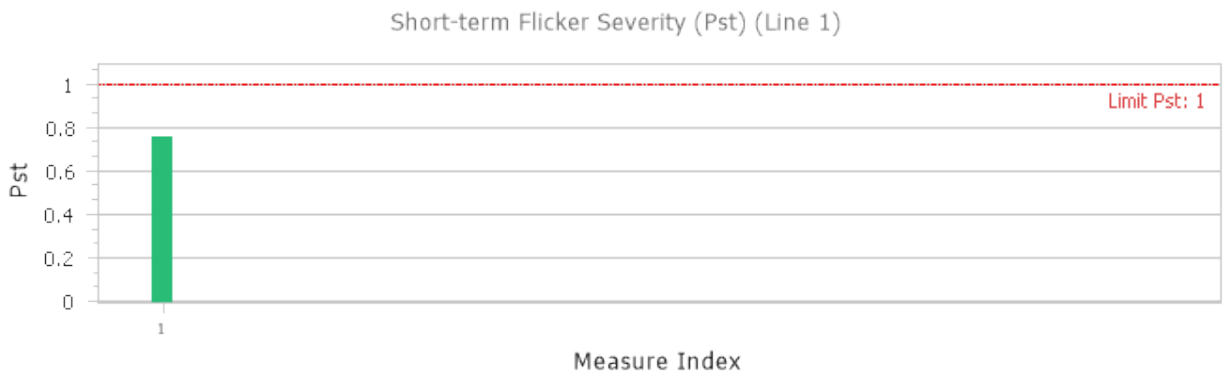
Pst Data



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7 Immunity Test Results

Performance Criteria Description in EN IEC 61000-6-1:2019

Criterion A The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

Criterion B The EUT shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. However, during the test degradation of performance is allowed but no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

Criterion C Temporary loss of function is allowed during the test, provided the function is self-recoverable or can be restored by the operation of the controls.

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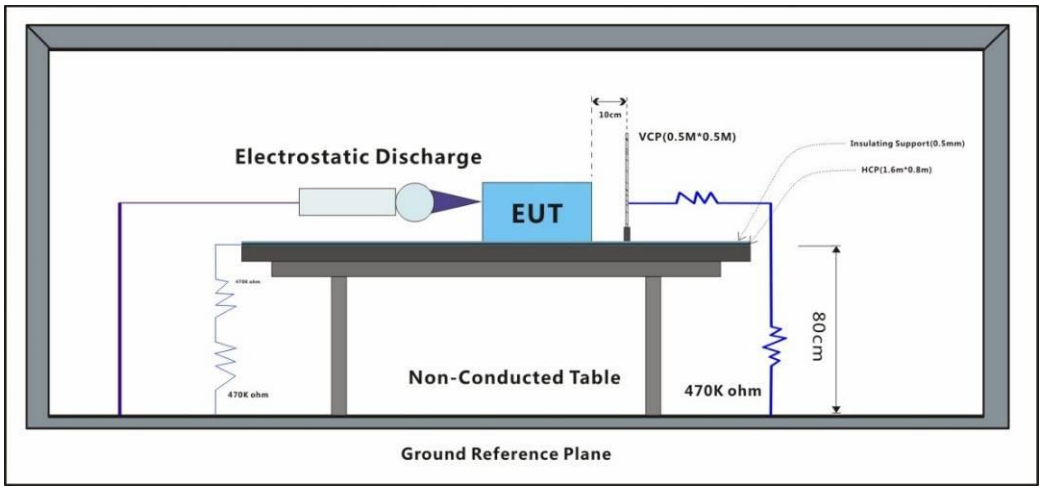
7.1 Electrostatic Discharge

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-2:2009

7.1.1 Test Setup Diagram



7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 52.9 % RH Atmospheric Pressure: 1008 mbar

7.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in heating mode, setting the temperature in low level.
Final test	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

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7.1.4 Test Condition and Results:

Performance Criterion: B
Discharge Impedance: 330Ω/150pF
Number of Discharge: Minimum 10 times at each test point
Discharge Mode: Single Discharge
Discharge Period: 1 second minimum
Test Point: 1. All insulated enclosure and seams.
2. All accessible metal parts of the enclosure.
3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	A
Air Discharge	2,4,8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A
A: No degradation in the performance of the EUT was observed				

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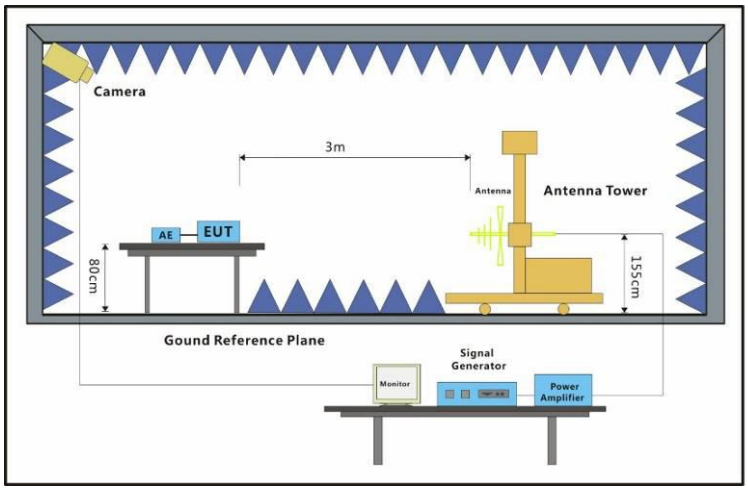
7.2 Radiated Immunity (80MHz1GHz, 1.4GHz-6GHz)

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN IEC 61000-4-3: 2020

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 58.6 % RH Atmospheric Pressure: 1008 mbar

7.2.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in heating mode, setting the temperature in low level.
Final test	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

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7.2.4 Test Condition and Results:

Performance Criterion: A
Antenna Polarisation: Vertical and Horizontal
Modulation:1kHz,80% Amp. Mod,1% increment
Frequency Range:80MHz to 1GHz, 1.4GHz to 6GHz

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	2s	A
80MHz-1GHz	3	Back	2s	A
80MHz-1GHz	3	Left	2s	A
80MHz-1GHz	3	Right	2s	A
80MHz-1GHz	3	Top	2s	A
80MHz-1GHz	3	Underside	2s	A
1.4GHz-6GHz	3	Front	2s	A
1.4GHz-6GHz	3	Back	2s	A
1.4GHz-6GHz	3	Left	2s	A
1.4GHz-6GHz	3	Right	2s	A
1.4GHz-6GHz	3	Top	2s	A
1.4GHz-6GHz	3	Underside	2s	A
A: No degradation in the performance of the EUT was observed				

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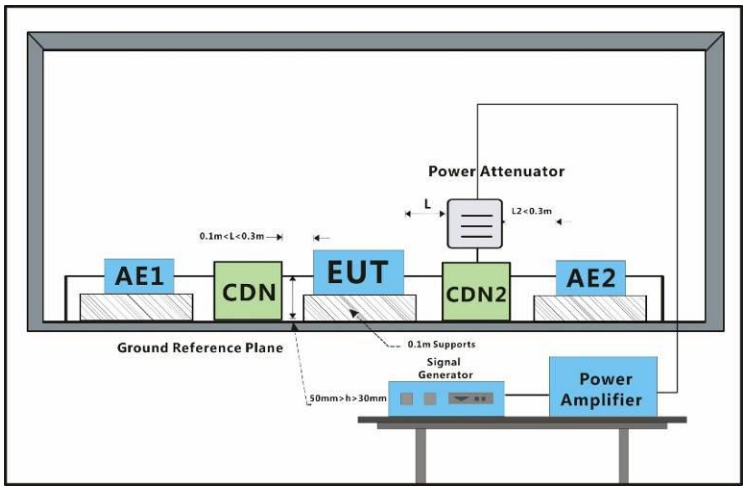
7.3 Conducted Immunity at AC Mains Power Port (150kHz-80MHz)

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-6:2014

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52.4 % RH Atmospheric Pressure: 1008 mbar

7.3.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in heating mode, setting the temperature in low level.
Final test	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

7.3.4 Test Condition and Results:

Performance Criterion: A

Frequency Range: 0.15MHz to 80MHz

Modulation: 80%, 1kHz Amplitude Modulation

Step Size 1%

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	3(0.15MHz-80MHz)	CDN	3s	A
A: No degradation in the performance of the EUT was observed				

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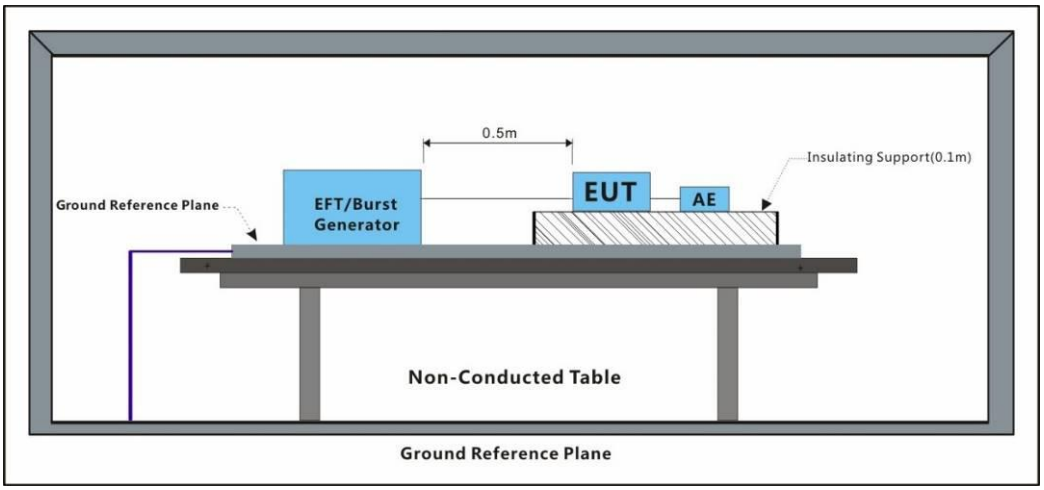
7.4 Electrical Fast Transients Burst at AC Mains Power Port

Test Requirement: EN IEC 61000-6-1: 2019
Test Method: EN 61000-4-4:2012

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:
Temperature: 23.9 °C Humidity: 50.8 % RH Atmospheric Pressure: 1008 mbar

7.4.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in heating mode, setting the temperature in low level.
Final test	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

7.4.4 Test Condition and Results:

Performance Criterion: B
Repetition Frequency: 5kHz or 100kHz
Burst Period: 300ms
Test Duration: 2 minute per level & polarity

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	1	+	CDN	A
AC power port	1	-	CDN	A
A: No degradation in the performance of the EUT was observed				

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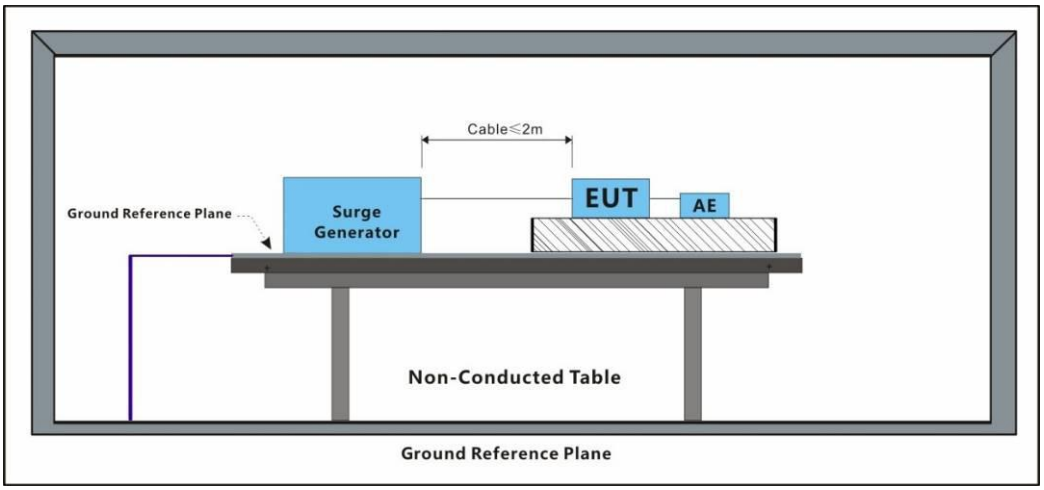
7.5 Surge at AC Mains Power Port

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-5:2014+A1:2017

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 50.7 % RH Atmospheric Pressure: 1008 mbar

7.5.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in heating mode, setting the temperature in low level.
Final test	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

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7.5.4 Test Condition and Results:

Performance Criterion: B

Interval: 60s between each surge

No. of surges: 5 positive, 5 negative at 0°, 90°, 180°, 270°.

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	0°	A
L-N	1	-	0°	A
L-N	1	+	90°	A
L-N	1	-	90°	A
L-N	1	+	180°	A
L-N	1	-	180°	A
L-N	1	+	270°	A
L-N	1	-	270°	A
L-PE	2	+	0°	B
L-PE	2	-	0°	B
L-PE	2	+	90°	B
L-PE	2	-	90°	B
L-PE	2	+	180°	B
L-PE	2	-	180°	B
L-PE	2	+	270°	B
L-PE	2	-	270°	B
N-PE	2	+	0°	B
N-PE	2	-	0°	B
N-PE	2	+	90°	B
N-PE	2	-	90°	B
N-PE	2	+	180°	B
N-PE	2	-	180°	B
N-PE	2	+	270°	B
N-PE	2	-	270°	B

A: No degradation in the performance of the EUT was observed

B: During test, the EUT stopped working. After test, it could recover automatically.

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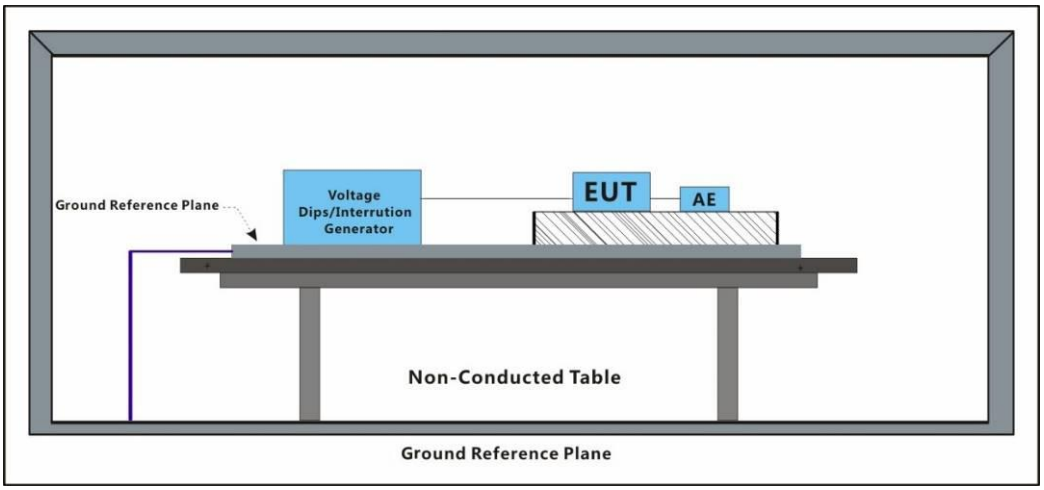
7.6 Voltage Dips and Interruptions

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN IEC 61000-4-11:2020

7.6.1 Test Setup Diagram



7.6.2 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 50.7 % RH Atmospheric Pressure: 1008 mbar

7.6.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in heating mode, setting the temperature in low level.
Final test	01	Test the EUT in heating mode, setting the temperature in middle level.
Final test	02	Test the EUT in heating mode, setting the temperature in high level.

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7.6.4 Test Condition and Results:

Performance Criterion:
0% of UT (Supply Voltage) for 0.5 Cycle:B;
0% of UT for 1 Cycle:B;
0% of UT for 250 Cycles:C;
70% of UT for 25 Cycles:C;
No. of Dips / Interruptions: 3 per Level
Time between dropout 10s

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Cycles	3	A
0	180°	0.5 Cycles	3	A
0	0°	1 Cycles	3	A
0	180°	1 Cycles	3	A
70	0°	25 Cycles	3	A
70	180°	25 Cycles	3	A
0	0°	250 Cycles	3	B
0	180°	250 Cycles	3	B

A: No degradation in the performance of the EUT was observed
B: During test, the EUT stopped working. After test, it could recover automatically.

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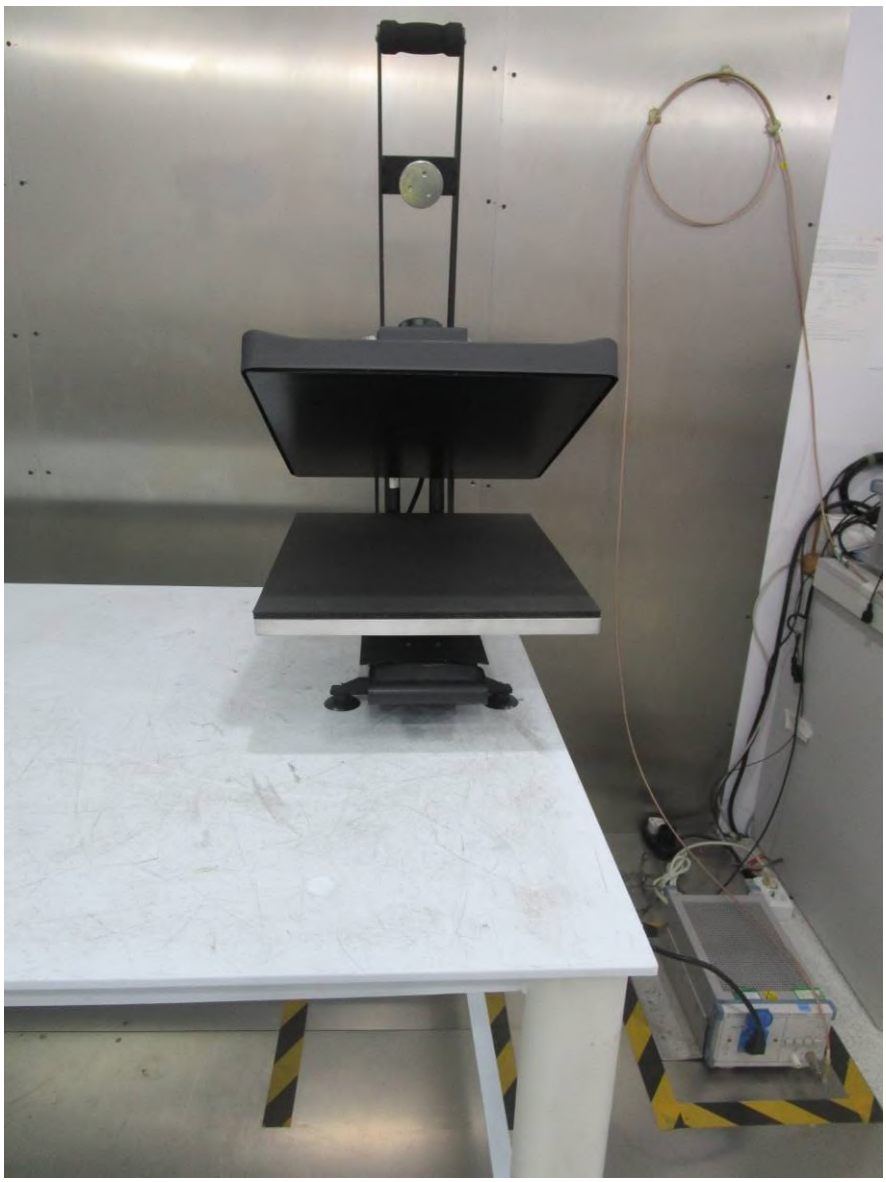
8 Test Setup Photo

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)



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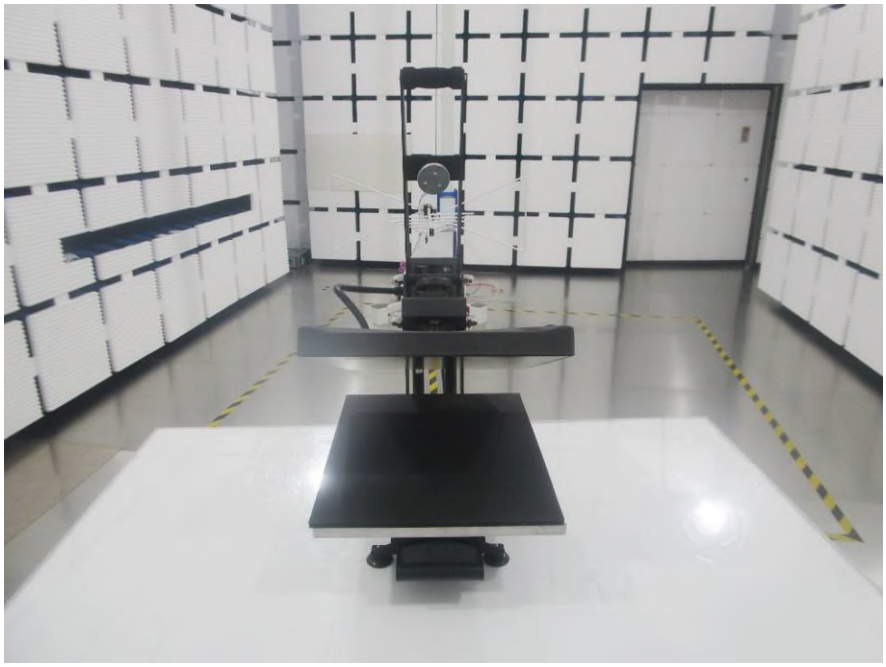
Radiated Emissions (30MHz-1GHz)



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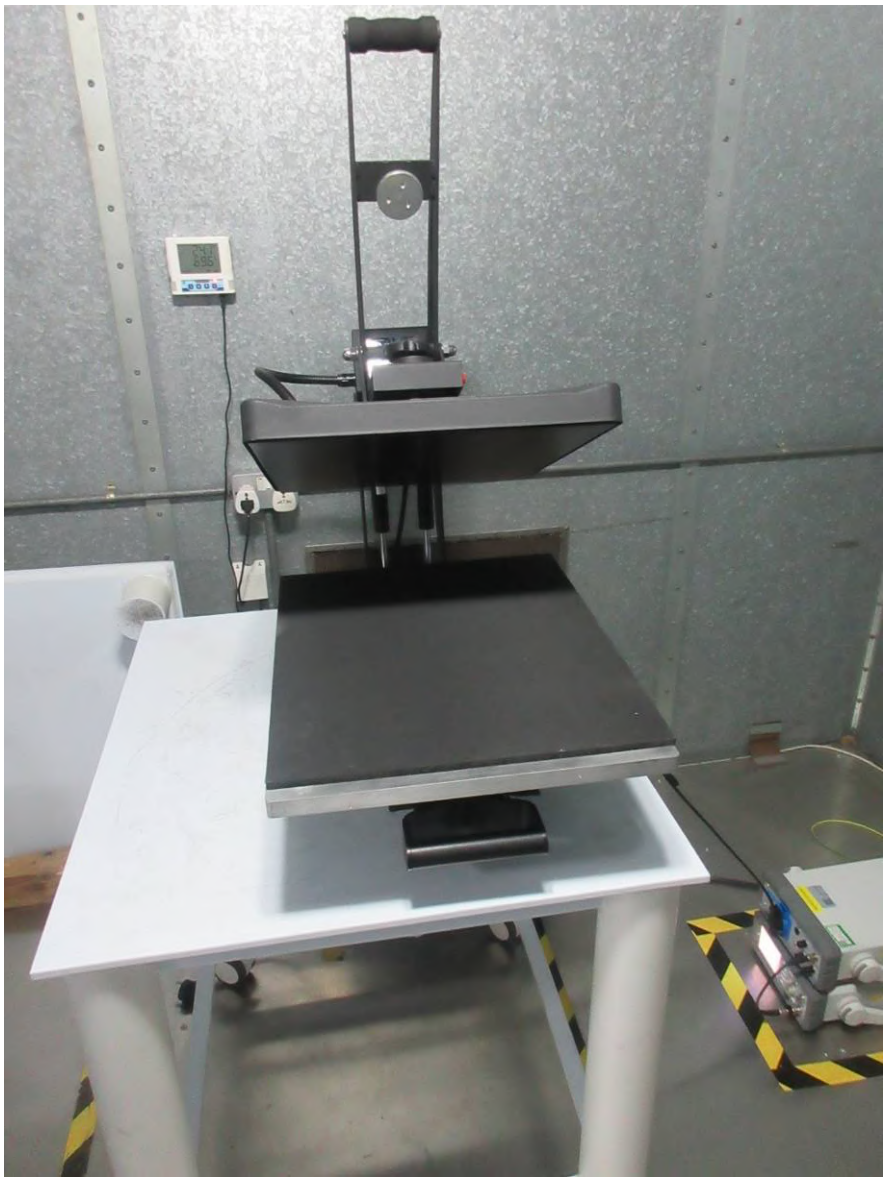
Discontinuous Disturbance (150kHz-30MHz)



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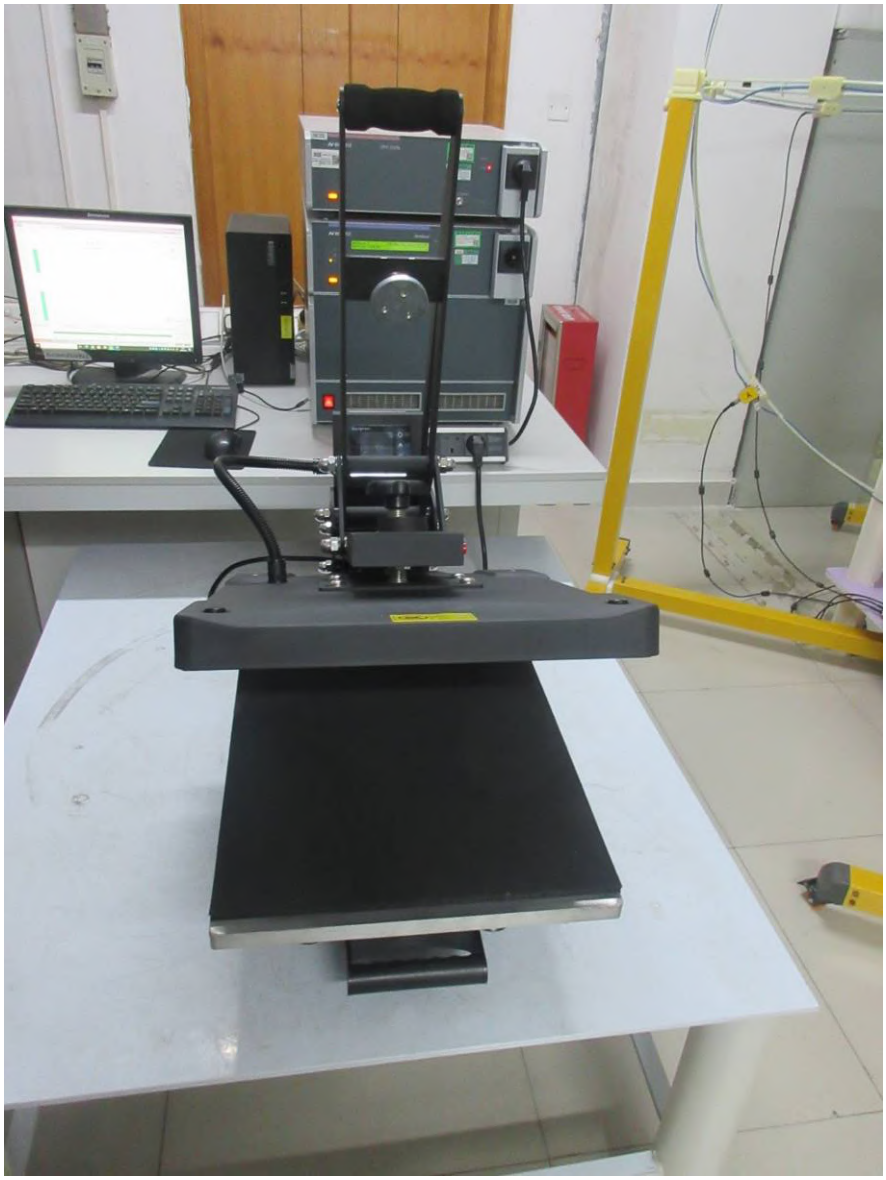
Harmonic Current Emission



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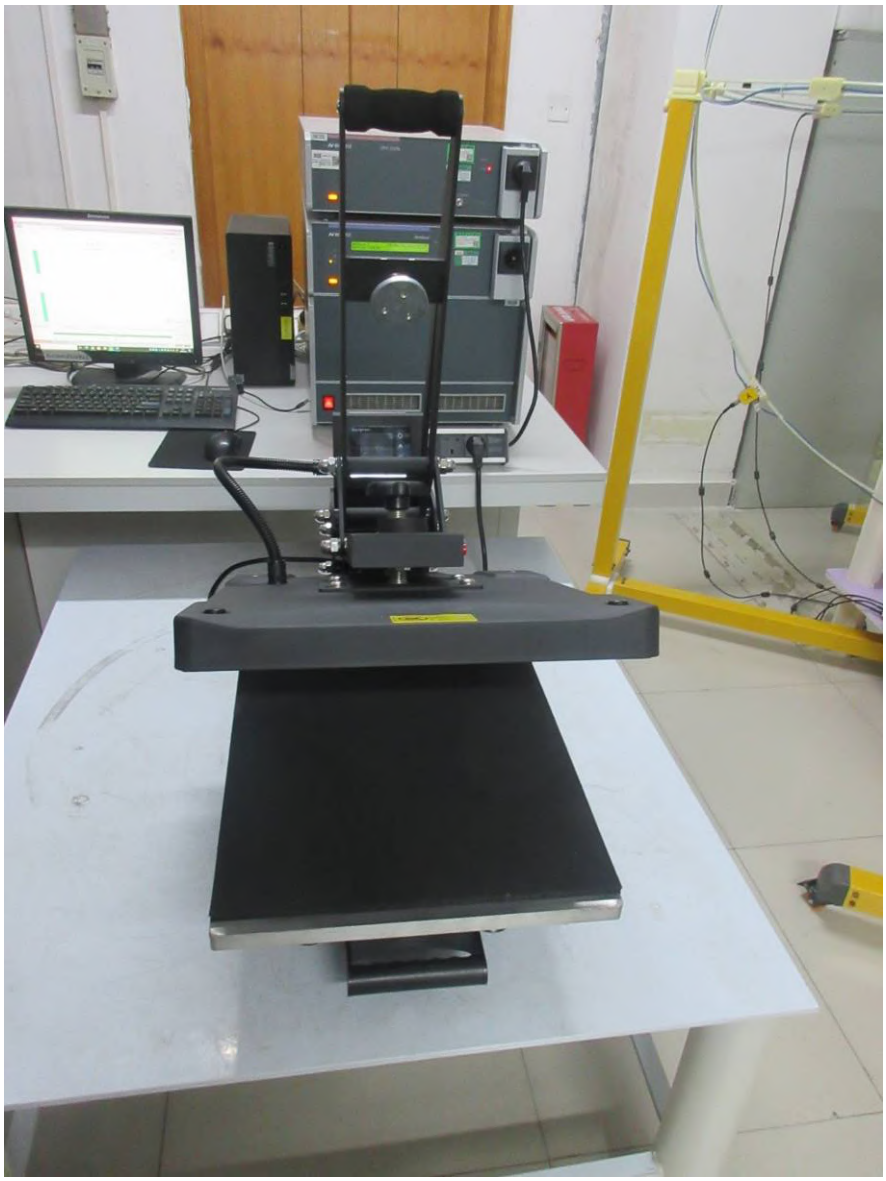
Voltage Fluctuations and Flicker



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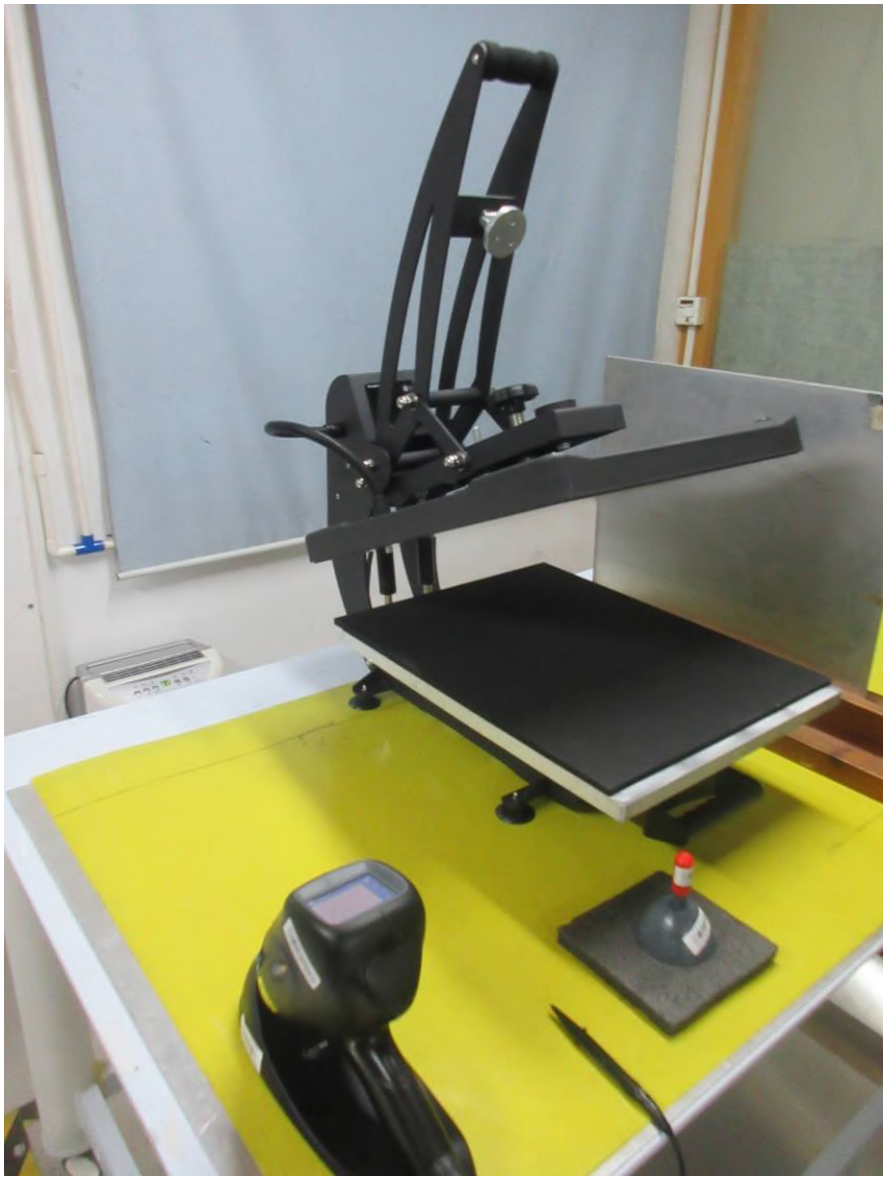
Electrostatic Discharge



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Radiated Immunity (80MHz1GHz, 1.4GHz-6GHz)

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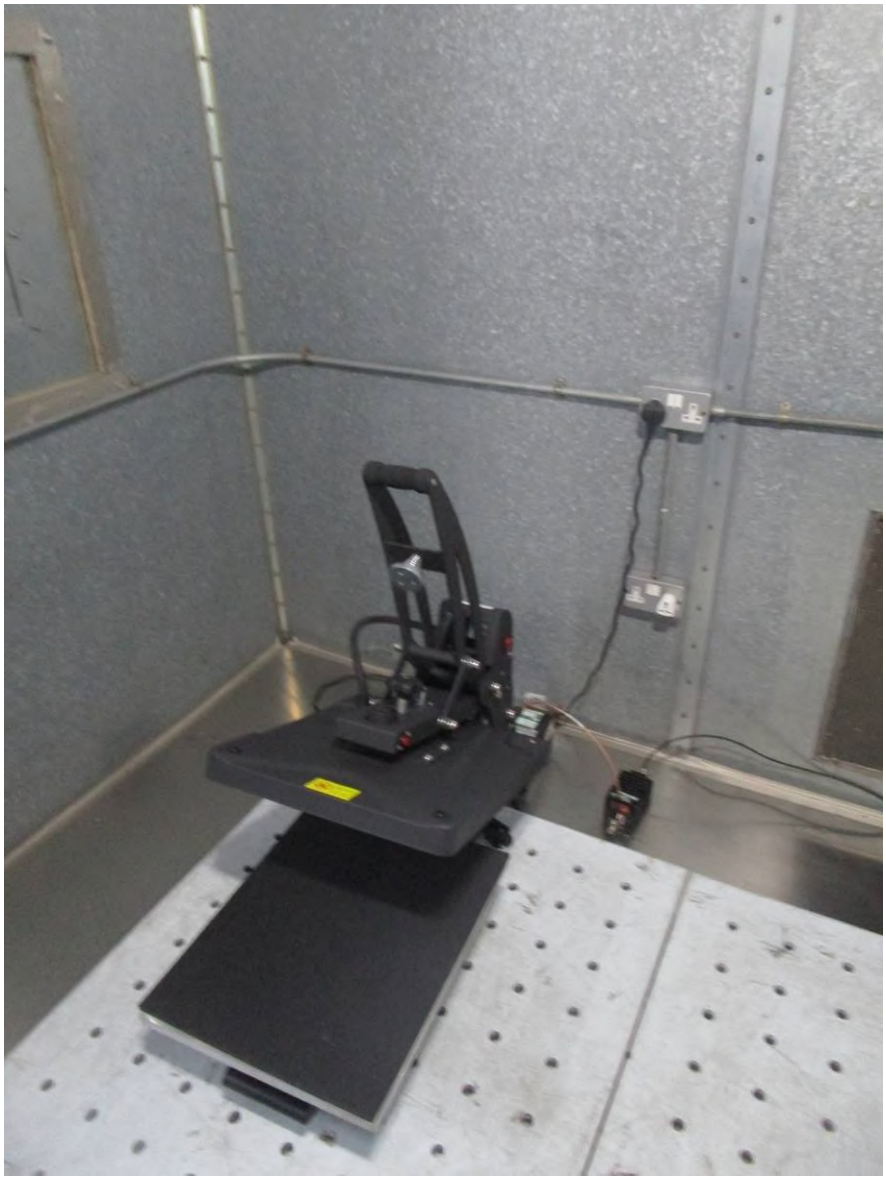
Conducted Immunity at AC Mains Power Port (150kHz-80MHz)



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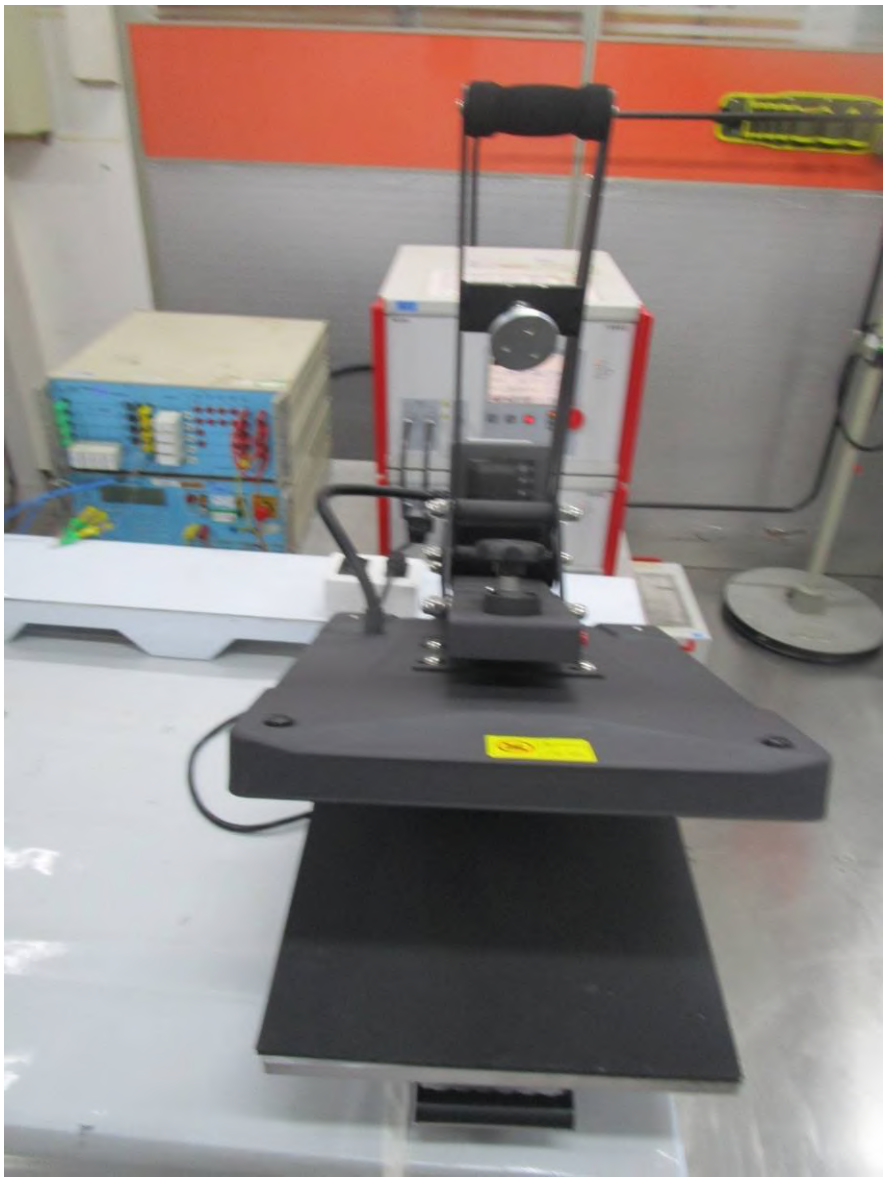
Electrical Fast Transients Burst at AC Mains Power Port



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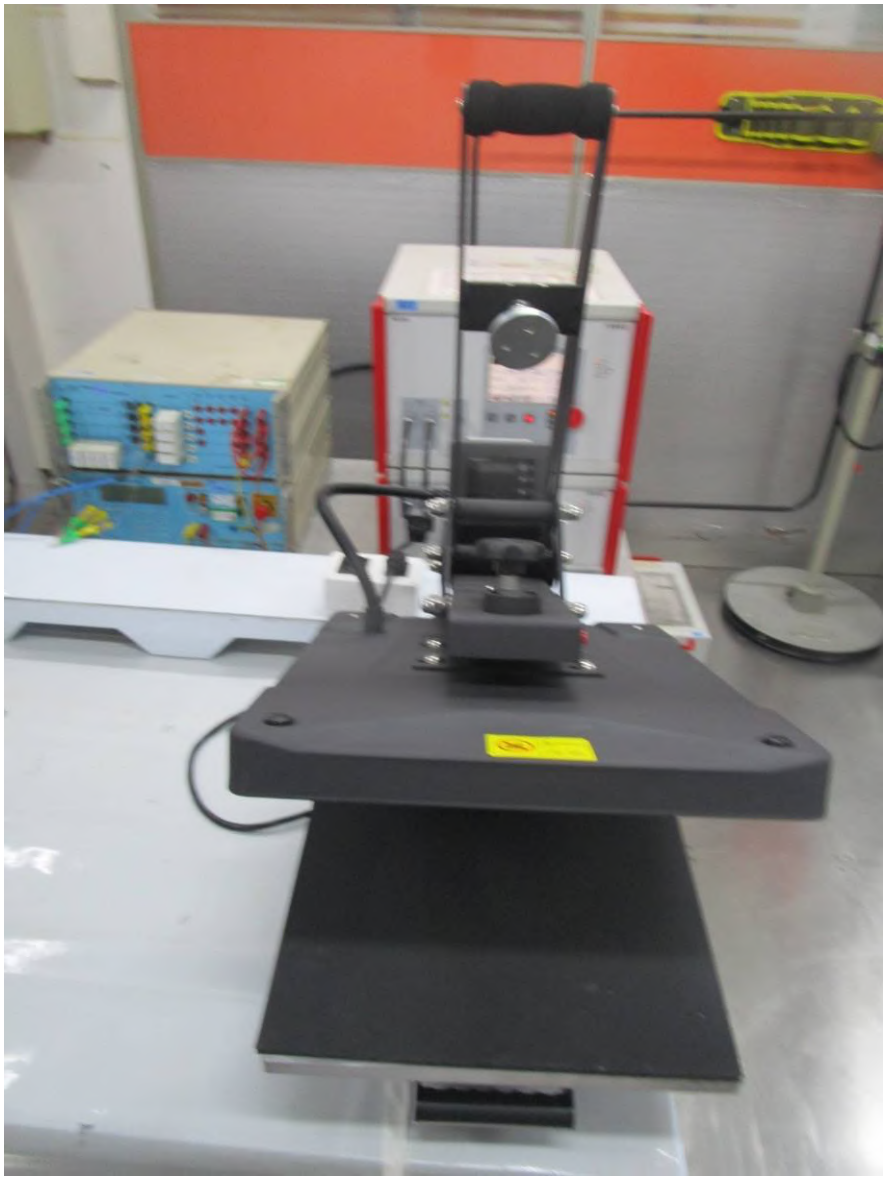
Surge at AC Mains Power Port



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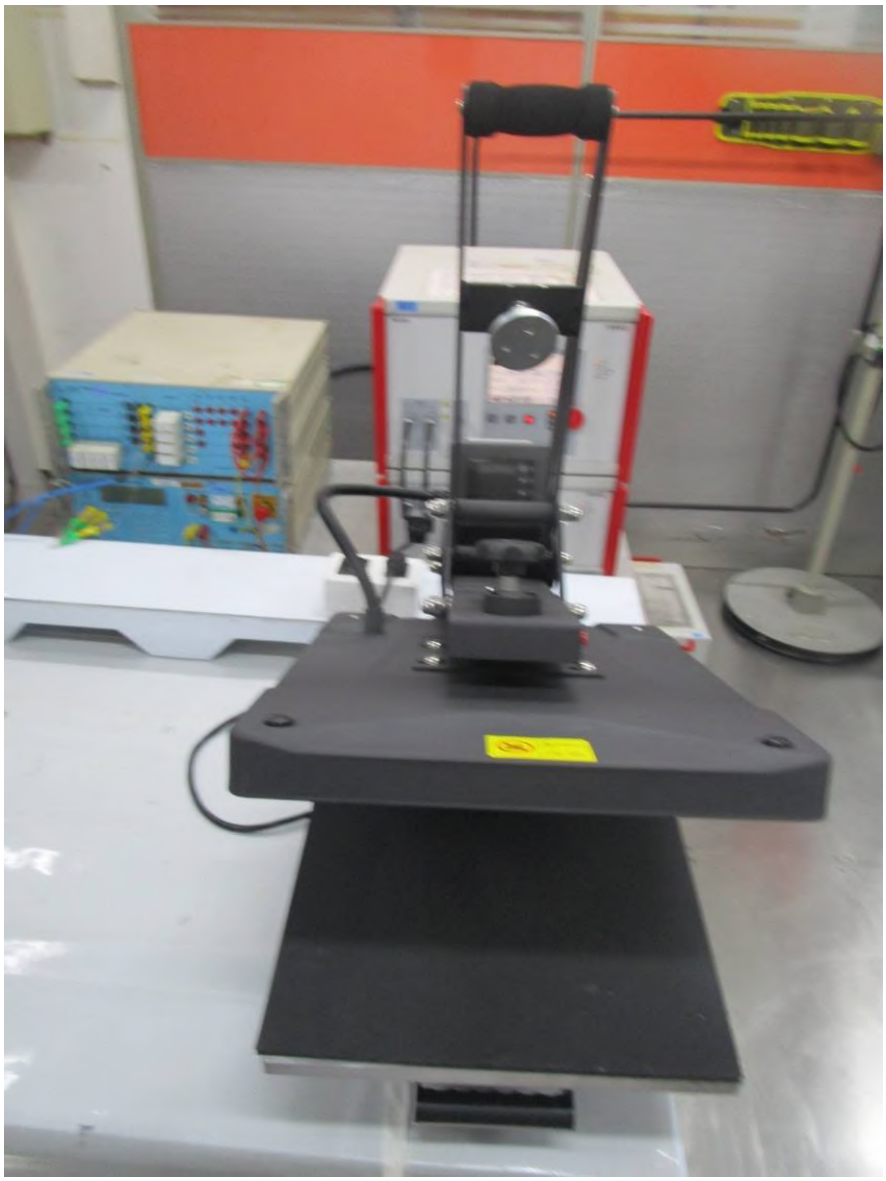
Voltage Dips and Interruptions



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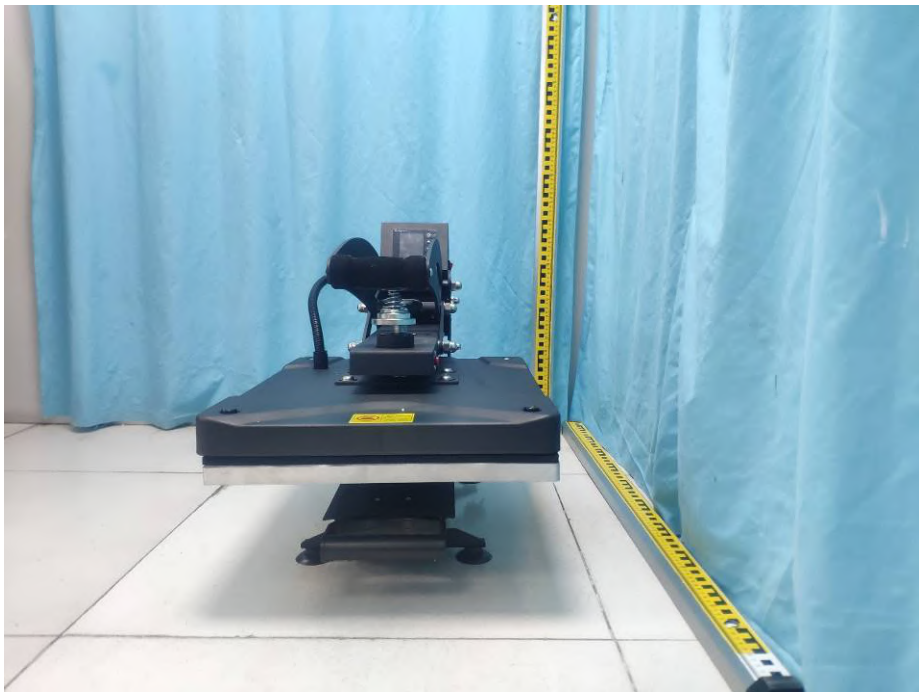
9 EUT Constructional Details (EUT Photos)



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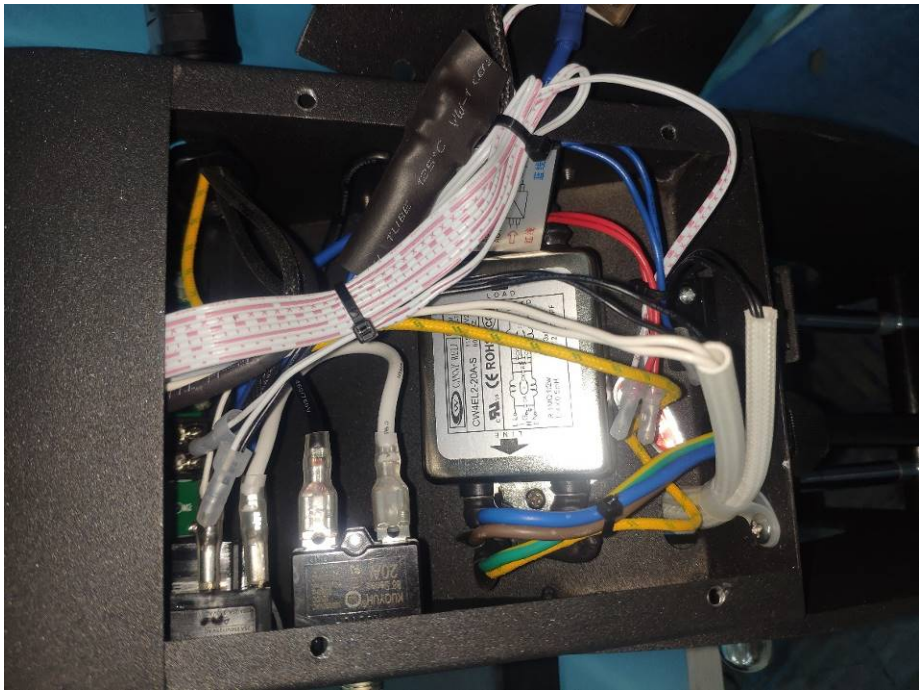

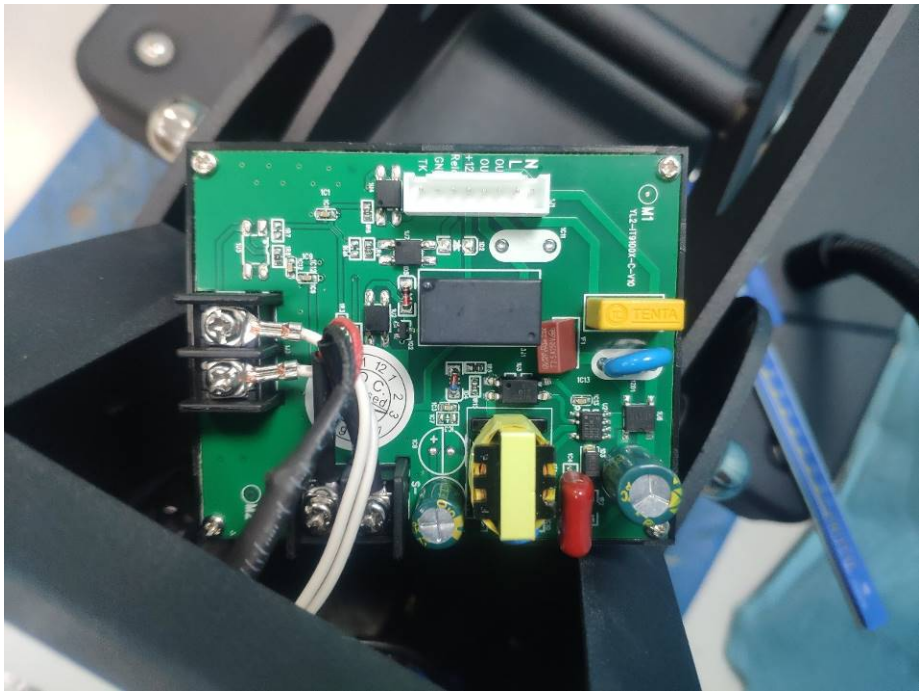

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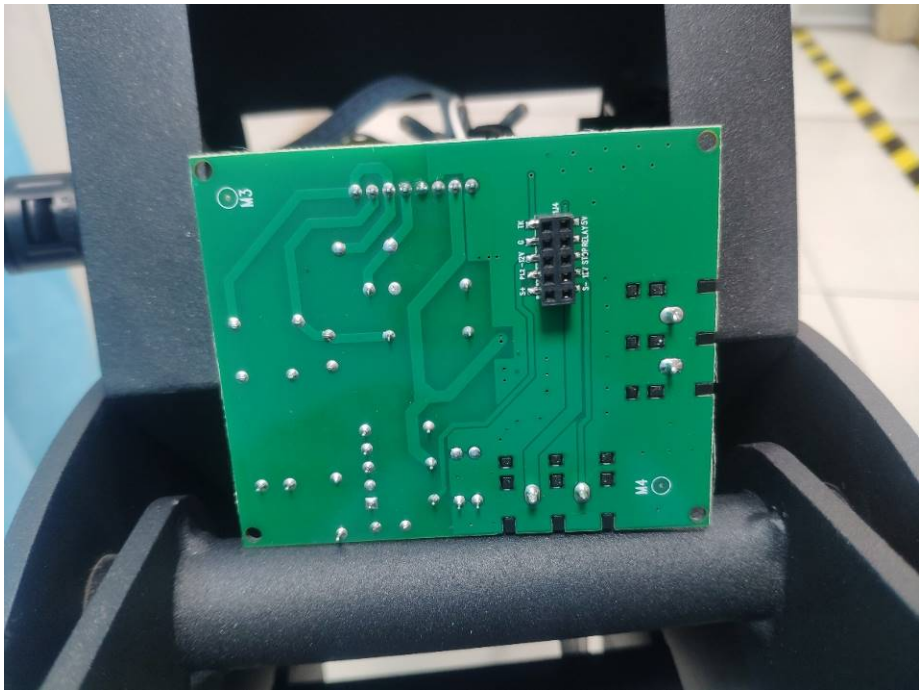

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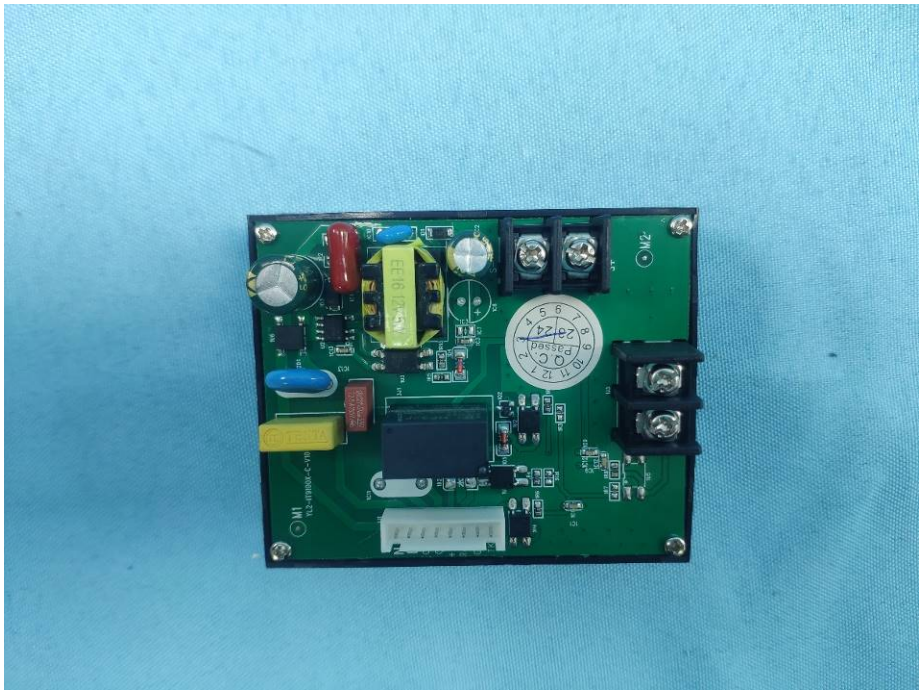

- End of the Report -

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