TEST REPORT

Reference No.	:	WTX24X12287765E
Applicant	:	GlobTek,Inc.
Address	:	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer	:	GlobTek, Inc.
Address	:	186 Veterans Dr. Northvale, NJ 07647 USA
Product Name	:	ITE Power Supply
Model No.	:	GT-43007-*** series
Standards	:	**EN 55032:2015+A1:2020** **EN IEC 61000-3-2:2019+A1:2021** **EN 61000-3-3:2013+A2:2021** **EN 55035:2017+A11:2020**
Date of Receipt sample	:	2024-12-16
Date of Test	:	2024-12-16 to 2024-12-25
Date of Issue	:	2024-12-27
Test Report Form No.	:	WTX_EN 55032_2015_B
Test Result	:	**Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

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Tested by:

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Toby Zhang

Approved by:

Evan Cai

Evan Cai

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Report version

Version No.	Date of issue	Description
Rev.00	2024-12-27	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Factory name1: 1. GlobTek, Inc.

Factory address1: 186 Veterans Dr. Northvale, NJ 07647 USA

Factory name2: 2. GlobTek (Suzhou) Co., Ltd

Factory address2: Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou, JiangSu 215021, China

General Description of EUT	
Product Name:	ITE Power Supply
Trade Name:	GlobTek, Inc.
Model No.:	GT-43007-*** series
Adding Model(s):	/
Note: The test data is gathered from production sample, provided by the manufacturer. *GT-43007-**** *The 1st "*" part denotes the rated output wattage designation, which can be "01" to "40", with interval of 1.* *The 2nd "*" part denotes the standard rated output voltage designation, which can be "12", and "24".* *Each standard rated output voltage designation corresponds to a transformer model. Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil.* *The 3rd "*" part is optional, which can be "-0.1" to "-11.9" with interval of 0.1 to denote voltage deviation or blank to indicate no voltage different. The result by subtracting the deviation value from the standard rated output voltage denotes the rated output voltage, with a range of 12-24 volts.*	

Technical Characteristics of EUT	
Power Supply:	GT-43007-3612 Input: 100-240V~,50-60Hz,1.0A Output: 12.0V⎓3.0A, 36.0W
	GT-43007-4024 Input: 100-240V~,50/60Hz,1.0A Output: 24.0V⎓1.66A, 40.0W
Cable:	DC line *1 (length 1.98m, Unshielded, With Ferrite, Without Chip)
Rated Power:	/
Rated Current:	/
Highest Internal Frequency:	Below 108MHz
Classification of Equipment:	Class B

1.2 Test Standards

The tests were performed according to following standards:

EN 55032:2015+A1:2020: Electromagnetic compatibility of multimedia equipment - Emission requirements
EN IEC 61000-3-2:2019+A1:2021: Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16A per phase)
EN 61000-3-3:2013+A2:2021: Electromagnetic compatibility (EMC) -- Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16A per phase and not subject to conditional connection
EN 55035:2017+A11:2020: Electromagnetic compatibility of multimedia equipment - Immunity requirements.
Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

1.3 Test Location

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address:
1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70
Bao'an District, Shenzhen, Guangdong, China

1.4 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

No	Title	Description
TM1	Adapter Model: GT-43007-3612	AC 230V/50Hz
TM2	Adapter Model: GT-43007-4024	AC 230V/50Hz

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Cement load	/	/	/

1.5 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions (AC Mains 150k - 30MHz)	±3.34dB
Radiated Emissions (30M - 1000MHz)	30-200MHz：±4.52dB 200-1000MHz：±5.56dB

1.6 Test Equipment List and Details

Conducted emissions from AC mains power ports (150kHz-30MHz)					
Description	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Due. Date**
LISN	Rohde & Schwarz	ENV 216	100097	2024-02-24	2025-02-23
EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2024-02-24	2025-02-23
EMI Test Software (Conducted Emission Room 2#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3	/	/

Radiated emissions (30MHz-1GHz)					
Description	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Due. Date**
EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2024-02-24	2025-02-23
Amplifier	Agilent	8447D	2944A10457	2024-02-24	2025-02-23
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
EMI Test Software (Radiated Emission B)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)	/	/

Voltage fluctuations and flicker					
Description	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Due. Date**
Power Source	California Instrument	5001IX-CTS-400	60077	2024-02-24	2025-02-23
Digital Power Analyzer	California Instrument	CTS	72831	2024-02-24	2025-02-23
Test Software (Harmonics &Flicker)	AMETEK	CTS4	4.30	/	/

Electrostatic discharges					
Description	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Due. Date**
ESD Generator	LIONCEL	ESD-203B	0170901	2024-02-26	2025-02-25

RF electromagnetic field disturbances					
Description	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Due. Date**
Power Meter	Agilent	E4419B	GB42420578	2024-02-27	2025-02-26
Antenna	SCHWARZBECK	STLP 9129	9129 114	/	/
RF Power Amplifier	MicoTop	MPA-1000-6000-100	MPA1906238	2024-02-27	2025-02-26
RF Power Amplifier	MicoTop	MPA-80-1000-250	MPA1906239	2024-02-27	2025-02-26
Power Sensor	Agilent	E9304A	MY55081055	2024-02-27	2025-02-26
Power Sensor	Agilent	E9301A	MY52450001	2024-02-27	2025-02-26
Signal Generator	HP	8665B	3438A00604	2024-02-27	2025-02-26
Test Software (Radio frequency electromagnetic Field)	EMtrace	EM3	V1.2.6.2	/	/

Electrical fast transients / burst for AC mains power ports Surges for AC mains power ports Voltage dips and interruptions					
Description	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Due. Date**
Couple Clamp	EMC PARTNER	CN-EFT1000	513	2024-03-19	2025-03-18
Transient 2000	EMC PARTNER	TRA2000	836	2024-03-19	2025-03-18

Continuous induced RF disturbances for AC mains power ports (150kHz-80MHz)					
Description	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Due. Date**
EM Clamp	TESEQ	KEMZ801A	45028	2024-02-26	2025-02-25
CDN	LIONCEL	CDN-T8	0210401	2024-02-24	2025-02-23
CDN	Luthi	L-801M2/M3	2665	2024-02-27	2025-02-26
Attenuator	EMTEST	MA-5100/6BF2	1009	2024-02-27	2025-02-26
CONDUCTED IMMUNITY TEST SYSTEM	FRANKONIA	CIT-10/75	126B1247/2013	2024-02-27	2025-02-26
Test Software (Radio frequency, Continuous conducted)	SKET	EMC-S	V1.4.0.16	/	/

Power frequency magnetic field					
Description	**Manufacturer**	**Model**	**Serial No.**	**Cal. Date**	**Due. Date**
Instantaneous PMF Generator Module	LIONCEL	PMF-801C-T	0171001	2024-02-24	2025-02-23
PMF Antenna	LIONCEL	PMF-801C-A	0180302	2024-02-24	2025-02-23
PMF Generator	LIONCEL	PMF-801C-C	0171101	2024-02-24	2025-02-23

2. SUMMARY OF TEST RESULTS

Item	Standard	Method	Result
Conducted emissions from AC mains power ports (150kHz-30MHz)	EN 55032:2015+A1:2020	Clause 7 of CISPR 16-2-1:2014/AMD1:2017	Compliant
Radiated emissions (30MHz-1GHz)	EN 55032:2015+A1:2020	Clause 7.3 of CISPR 16-2-3:2016	Compliant
Harmonic current emission	EN IEC 61000-3-2:2019+A1:2021	EN IEC 61000-3-2:2019+A1:2021	Compliant
Voltage fluctuations and flicker	EN 61000-3-3:2013+A2:2021	EN 61000-3-3: 2013+A2:2021	Compliant
Electrostatic discharges	EN 55035:2017+A11:2020	EN 61000-4-2: 2009	Compliant
RF electromagnetic field disturbances	EN 55035:2017+A11:2020	EN IEC 61000-4-3: 2020	Compliant
Electrical fast transients / burst for AC mains power ports	EN 55035:2017+A11:2020	EN 61000-4-4: 2012	Compliant
Surges for AC mains power ports	EN 55035:2017+A11:2020	EN 61000-4-5: 2014 +A1: 2017	Compliant
Continuous induced RF disturbances for AC mains power ports (150kHz-80MHz)	EN 55035:2017+A11:2020	EN 61000-4-6: 2014	Compliant
Power frequency magnetic field	EN 55035:2017+A11:2020	EN 61000-4-8: 2010	Compliant
Voltage dips and interruptions	EN 55035:2017+A11:2020	EN IEC 61000-4-11:2020	Compliant

3. Evaluation Results (Evaluation)

3.1 Harmonic current emission

Test Requirement:	Class A
Test Limit:	Not specified
Test Method:	EN IEC 61000-3-2:2019+A1:2021

3.1.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

3.1.2 Summary of Test Results

Refer to EN IEC 61000-3-2 clause 7.1:
"For the following categories of equipment, limits are not specified in this document:
– lighting equipment with a rated power less than but not equal to 5 W;
– equipment with a rated power of 75 W or less, other than lighting equipment;"
Since the rated power of the EUT is less than above described, it is deemed to comply with the requirement.

4. Emission Test Results (EMI)

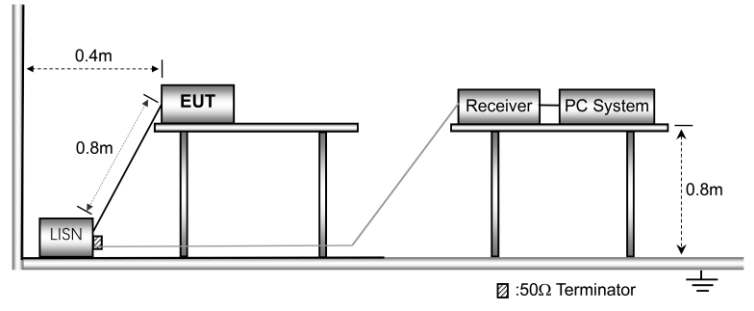
4.1 Conducted emissions from AC mains power ports (150kHz-30MHz)

Test Requirement:	Class B
Test Limit:	**Frequency Range** / **Limit (Quasi-Peak)** / **Limit (Average)** 0.15MHz to 0.5MHz / 66dB(μV) to 56dB(μV) / 56dB(μV) to 46dB(μV) 0.5MHz to 5MHz / 56dB(μV) / 46dB(μV) 5MHz to 30MHz / 60dB(μV) / 50dB(μV) Detector: / Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz
Test Method:	Clause 7 of CISPR 16-2-1:2014/AMD1:2017
Procedure:	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. Remark: Level= Read Level+ Cable Loss+ LISN Factor

4.1.1 E.U.T. Operation

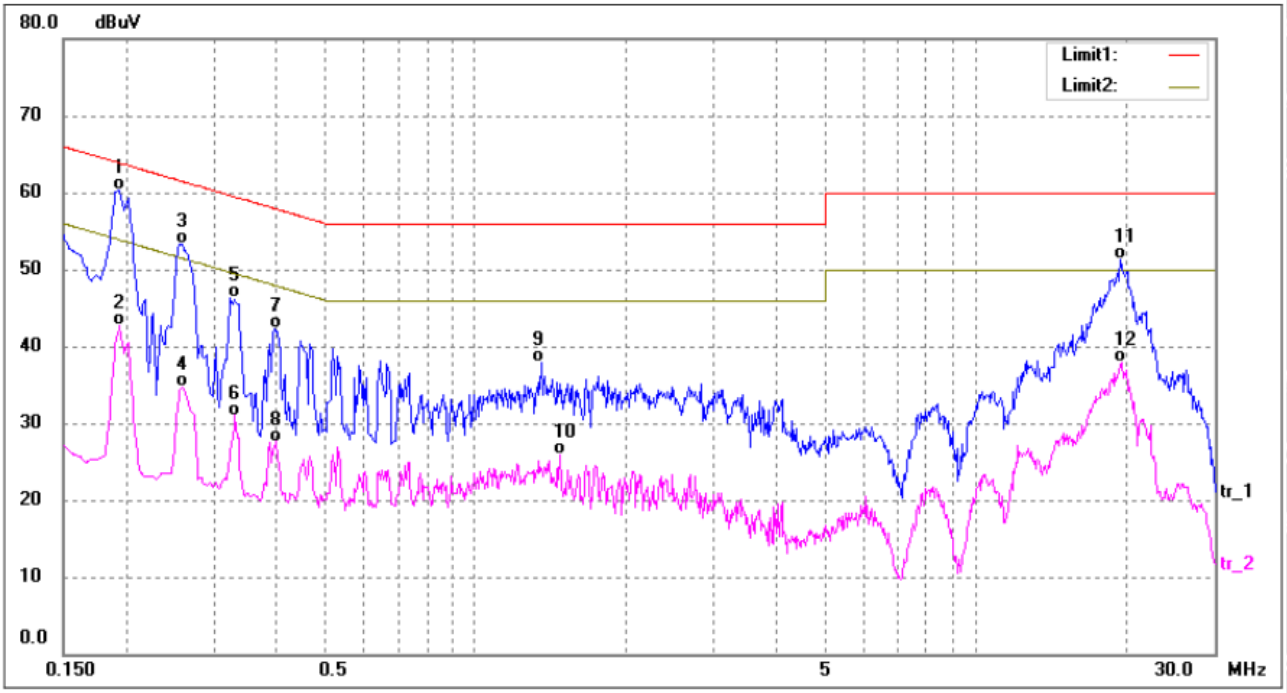
Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	54 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

4.1.2 Basic Test Setup Block Diagram



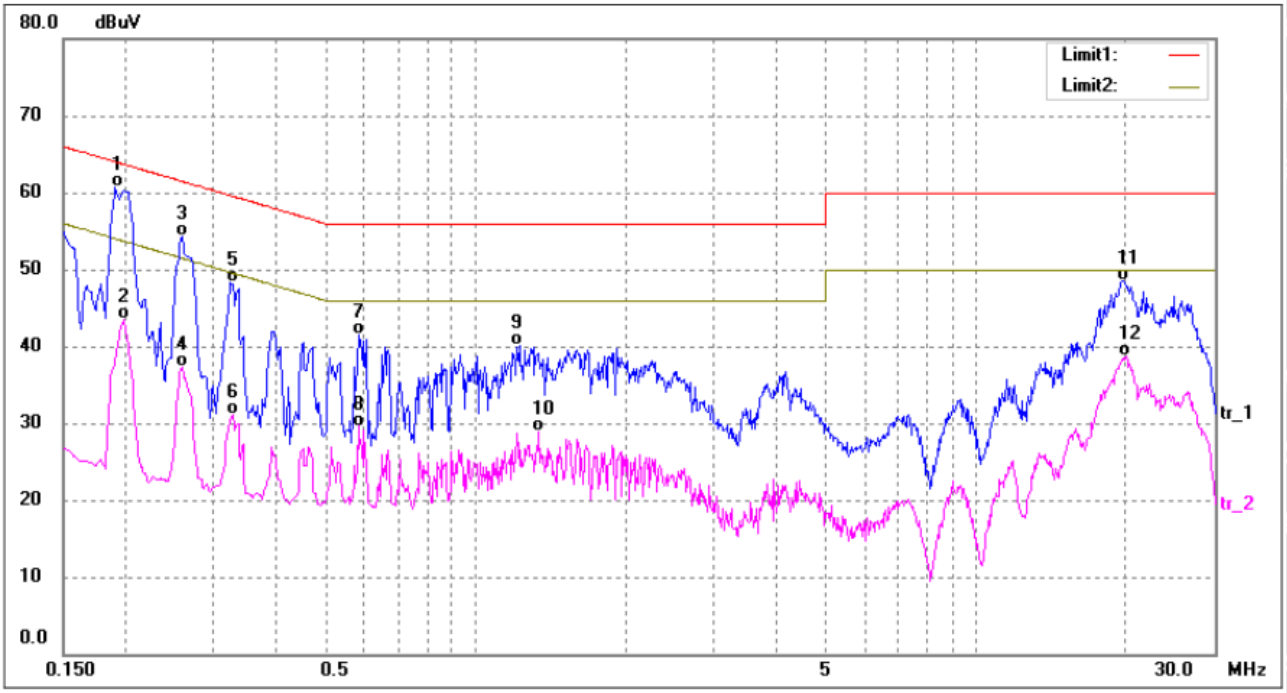
4.1.3 Summary of Test Results

TM1 / Line: Line



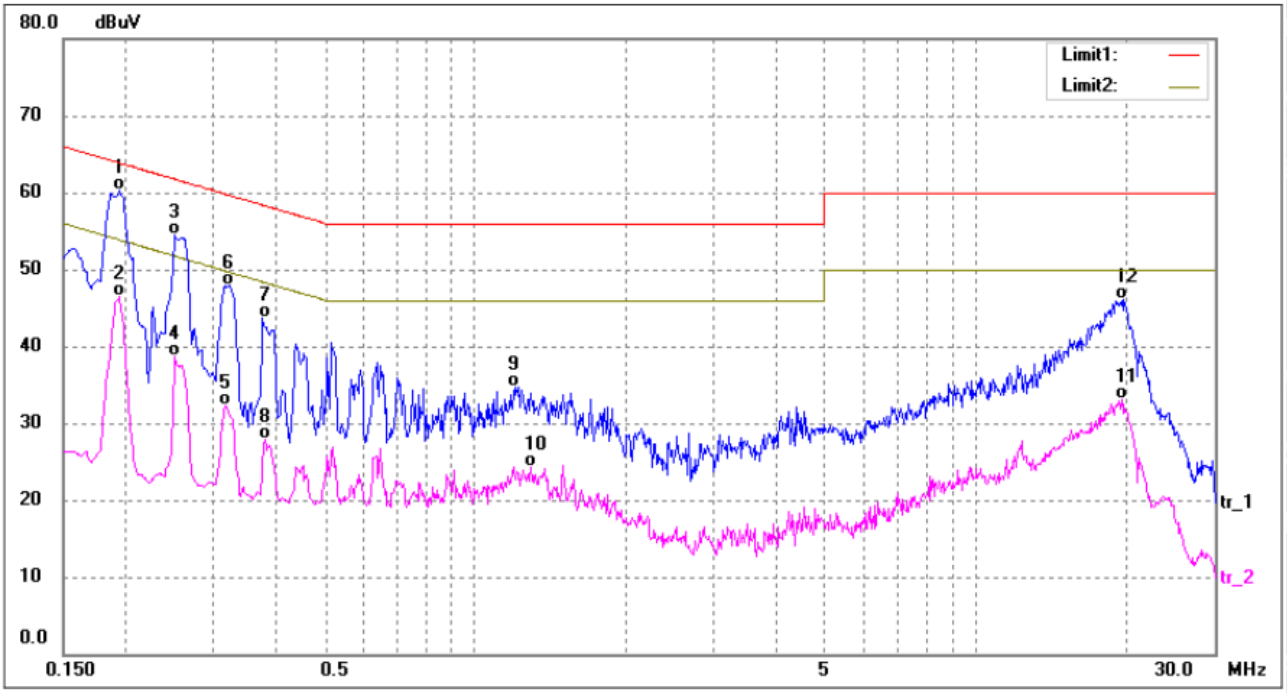
No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1*	0.1940	50.80	9.59	60.39	63.86	-3.47	QP
2	0.1940	33.06	9.59	42.65	53.86	-11.21	AVG
3	0.2540	43.74	9.61	53.35	61.62	-8.27	QP
4	0.2580	25.16	9.61	34.77	51.49	-16.72	AVG
5	0.3220	36.65	9.65	46.30	59.65	-13.35	QP
6	0.3300	21.35	9.65	31.00	49.45	-18.45	AVG
7	0.3940	32.61	9.69	42.30	57.98	-15.68	QP
8	0.3980	17.91	9.69	27.60	47.89	-20.29	AVG
9	1.3580	28.33	9.65	37.98	56.00	-18.02	QP
10	1.4780	16.30	9.65	25.95	46.00	-20.05	AVG
11	19.5100	41.05	10.21	51.26	60.00	-8.74	QP
12	19.6060	27.60	10.22	37.82	50.00	-12.18	AVG

TM1 / Line: Neutral



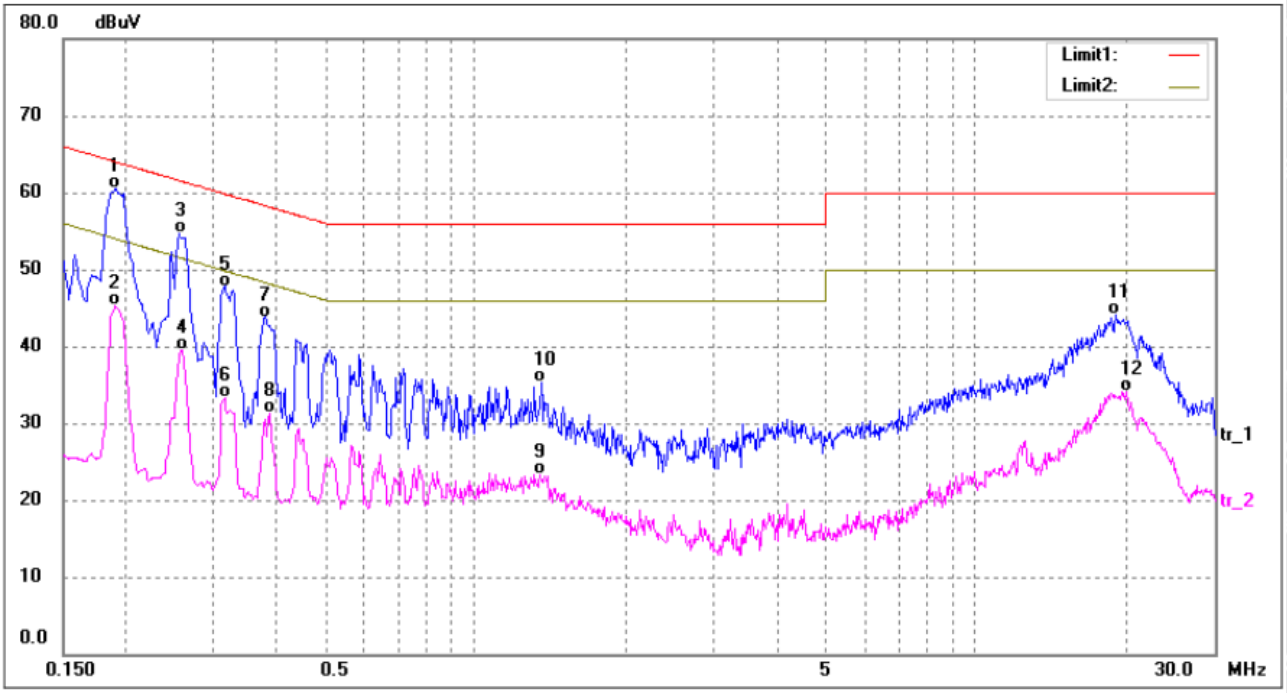
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1900	51.15	9.61	60.76	64.03	-3.27	QP
2	0.1980	33.89	9.58	43.47	53.69	-10.22	AVG
3	0.2580	44.73	9.61	54.34	61.49	-7.15	QP
4	0.2580	27.70	9.61	37.31	51.49	-14.18	AVG
5	0.3220	38.65	9.65	48.30	59.65	-11.35	QP
6	0.3260	21.37	9.65	31.02	49.55	-18.53	AVG
7	0.5820	31.84	9.72	41.56	56.00	-14.44	QP
8	0.5820	19.88	9.72	29.60	46.00	-16.40	AVG
9	1.2260	30.37	9.66	40.03	56.00	-15.97	QP
10	1.3420	19.24	9.65	28.89	46.00	-17.11	AVG
11	19.6540	38.23	10.22	48.45	60.00	-11.55	QP
12	20.0020	28.41	10.24	38.65	50.00	-11.35	AVG

TM2 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1940	50.63	9.59	60.22	63.86	-3.64	QP
2	0.1940	36.85	9.59	46.44	53.86	-7.42	AVG
3	0.2500	44.98	9.60	54.58	61.75	-7.17	QP
4	0.2500	29.07	9.60	38.67	51.75	-13.08	AVG
5	0.3140	22.59	9.65	32.24	49.86	-17.62	AVG
6	0.3220	38.32	9.65	47.97	59.65	-11.68	QP
7	0.3740	34.05	9.68	43.73	58.41	-14.68	QP
8	0.3780	18.20	9.68	27.88	48.32	-20.44	AVG
9	1.2020	25.00	9.66	34.66	56.00	-21.34	QP
10	1.2900	14.69	9.66	24.35	46.00	-21.65	AVG
11	19.5580	22.86	10.22	33.08	50.00	-16.92	AVG
12	19.7660	35.90	10.23	46.13	60.00	-13.87	QP

TM2 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1900	50.81	9.61	60.42	64.03	-3.61	QP
2	0.1900	35.63	9.61	45.24	54.03	-8.79	AVG
3	0.2540	45.03	9.61	54.64	61.62	-6.98	QP
4	0.2580	29.96	9.61	39.57	51.49	-11.92	AVG
5	0.3140	38.15	9.65	47.80	59.86	-12.06	QP
6	0.3140	23.73	9.65	33.38	49.86	-16.48	AVG
7	0.3780	34.12	9.68	43.80	58.32	-14.52	QP
8	0.3860	21.53	9.68	31.21	48.15	-16.94	AVG
9	1.3460	13.65	9.65	23.30	46.00	-22.70	AVG
10	1.3580	25.62	9.65	35.27	56.00	-20.73	QP
11	19.1100	33.97	10.18	44.15	60.00	-15.85	QP
12	19.9540	23.84	10.24	34.08	50.00	-15.92	AVG

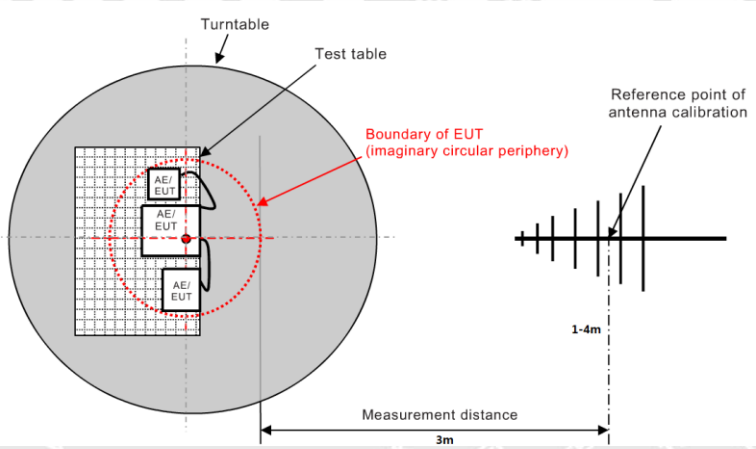
4.2 Radiated emissions (30MHz-1GHz)

Test Requirement:	Class B
Test Limit:	**Frequency (MHz)** / **Limit [dB(uV/m) at 10m]** / **Limit [dB(uV/m) at 3m]** 30 to 230 / 30 / 40 230 to 1000 / 37 / 47 Detector: / Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz
Test Method:	Clause 7.3 of CISPR 16-2-3:2016
Procedure:	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. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

4.2.1 E.U.T. Operation

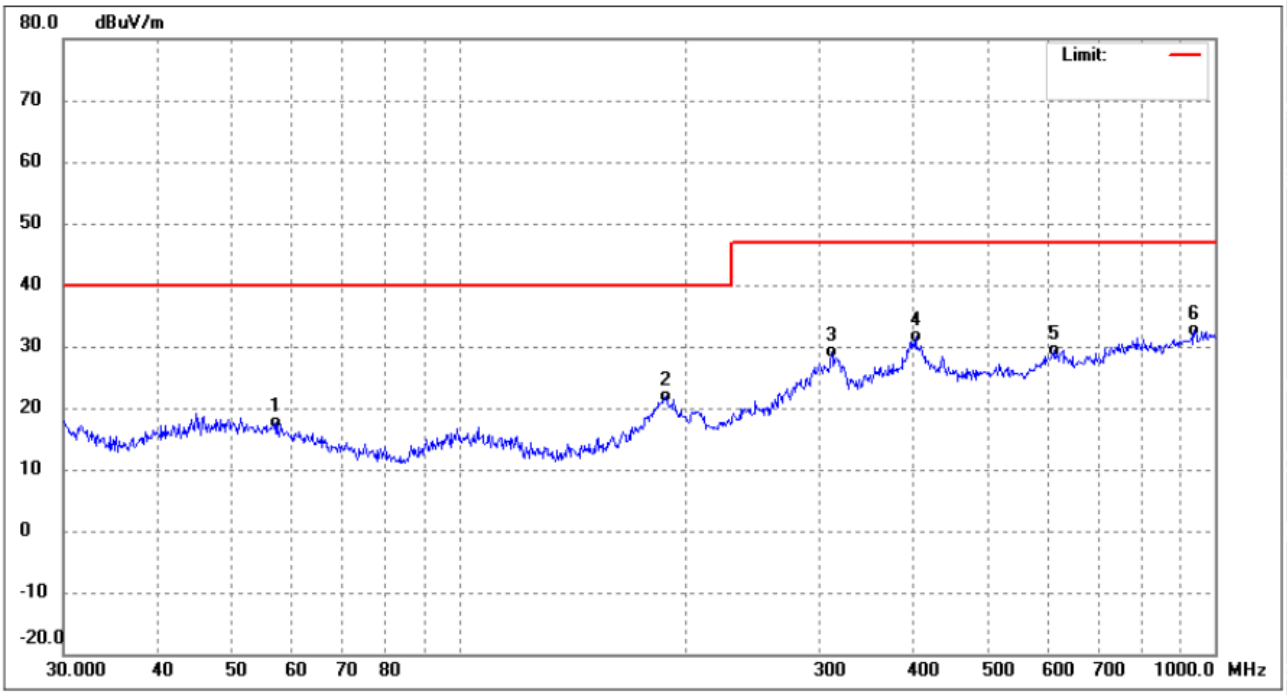
Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	54 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

4.2.2 Basic Test Setup Block Diagram



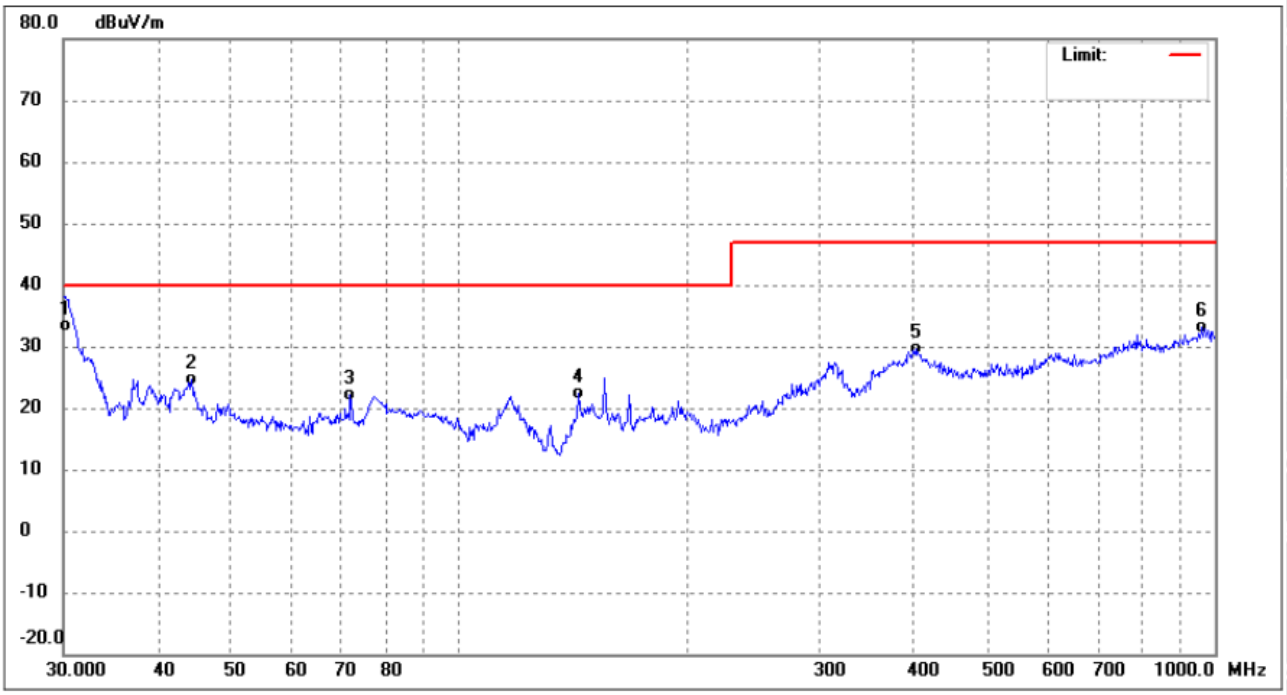
4.2.3 Summary of Test Results

TM1 / Polarization: Horizontal



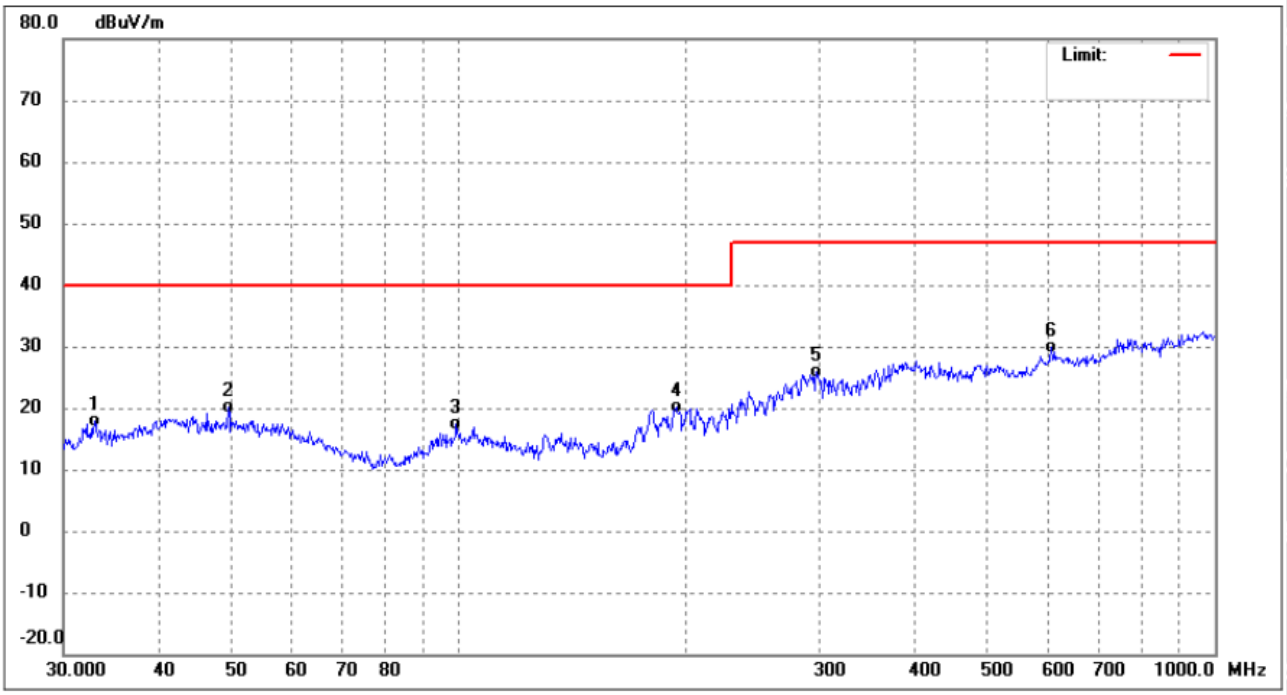
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	57.3923	28.30	-10.62	17.68	40.00	-22.32	QP
2	187.7530	33.21	-11.24	21.97	40.00	-18.03	QP
3	311.0867	35.79	-6.68	29.11	47.00	-17.89	QP
4	401.8385	33.99	-2.30	31.69	47.00	-15.31	QP
5	612.0642	28.84	0.62	29.46	47.00	-17.54	QP
6	938.8326	28.79	3.92	32.71	47.00	-14.29	QP

TM1 / Polarization: Vertical



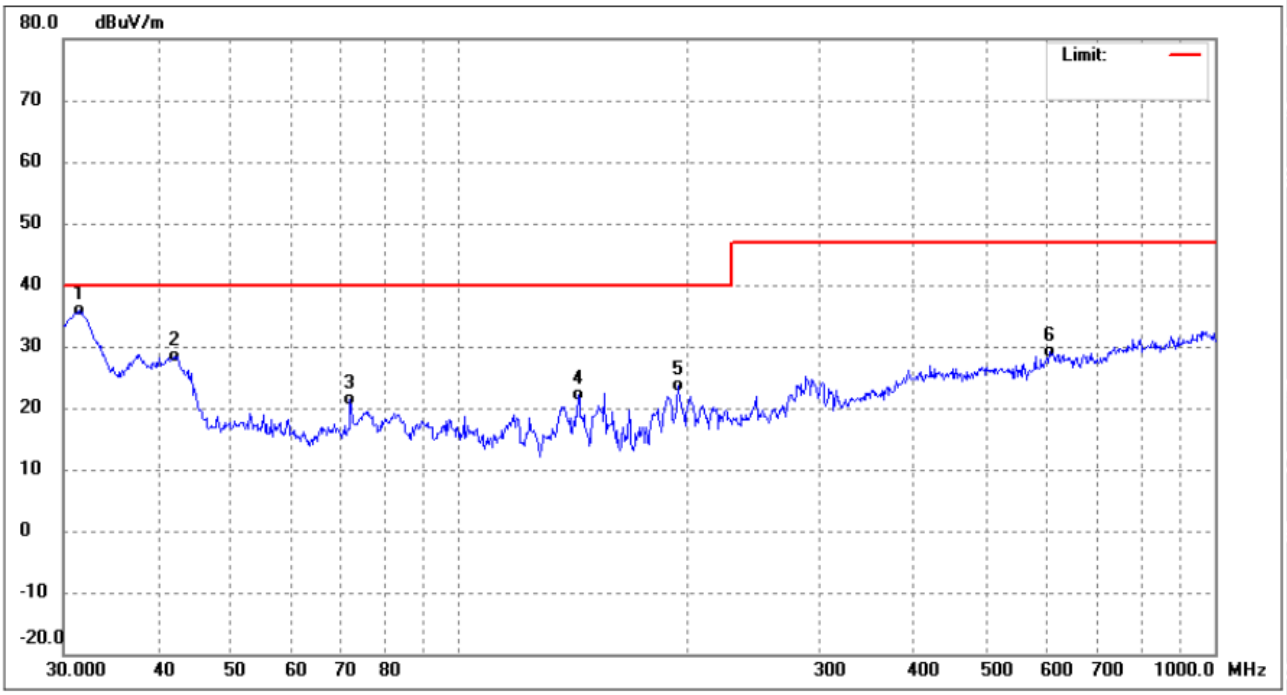
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	47.13	-13.73	33.40	40.00	-6.60	QP
2	44.2752	34.89	-10.35	24.54	40.00	-15.46	QP
3	71.8320	36.97	-14.77	22.20	40.00	-17.80	QP
4	143.8295	37.13	-14.66	22.47	40.00	-17.53	QP
5	403.2500	31.86	-2.29	29.57	47.00	-17.43	QP
6	962.1623	28.42	4.75	33.17	47.00	-13.83	QP

TM2 / Polarization: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.9791	31.26	-13.41	17.85	40.00	-22.15	QP
2	49.5328	29.92	-9.91	20.01	40.00	-19.99	QP
3	99.1797	29.28	-11.85	17.43	40.00	-22.57	QP
4	193.7728	30.28	-10.26	20.02	40.00	-19.98	QP
5	297.2241	32.79	-6.86	25.93	47.00	-21.07	QP
6	607.7867	29.22	0.55	29.77	47.00	-17.23	QP

TM2 / Polarization: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.5095	49.70	-13.92	35.78	40.00	-4.22	QP
2	42.0066	39.12	-10.79	28.33	40.00	-11.67	QP
3	71.8320	36.13	-14.77	21.36	40.00	-18.64	QP
4	143.8295	36.77	-14.66	22.11	40.00	-17.89	QP
5	195.1365	33.89	-10.15	23.74	40.00	-16.26	QP
6	603.5392	28.88	0.33	29.21	47.00	-17.79	QP

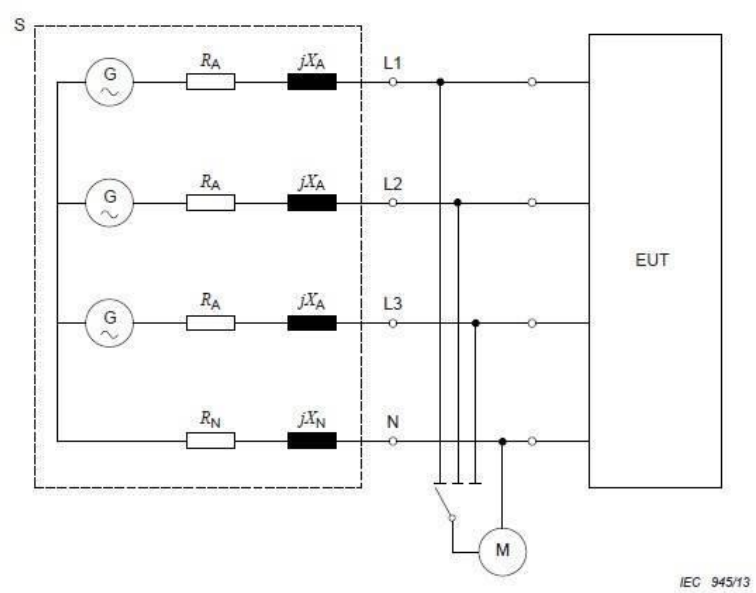
4.3 Voltage fluctuations and flicker

Test Requirement:	Clause 4
Test Limit:	Clause 5
Test Method:	EN 61000-3-3: 2013+A2:2021

4.3.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

4.3.2 Basic Test Setup Block Diagram



4.3.3 Summary of Test Results

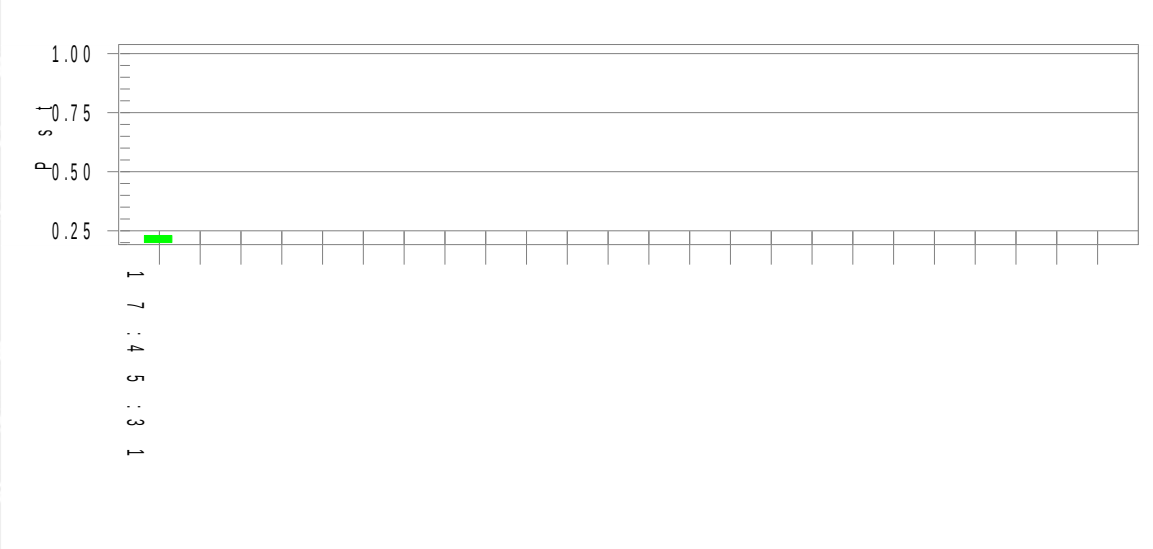
Flicker Test Summary per IEC61000-3-3:2013+AMD2:2021 (Run time)

Comment: TM1

Customer: Customer information

Test Result: Pass **Status: Test Completed**

Pst_i and limit line **European Limits**



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**229.77**			
Highest dt (%):		**Test limit (%):**		
T-max (mS):	**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):	**0.230**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.101**	**Test limit:**	**0.650**	**Pass**

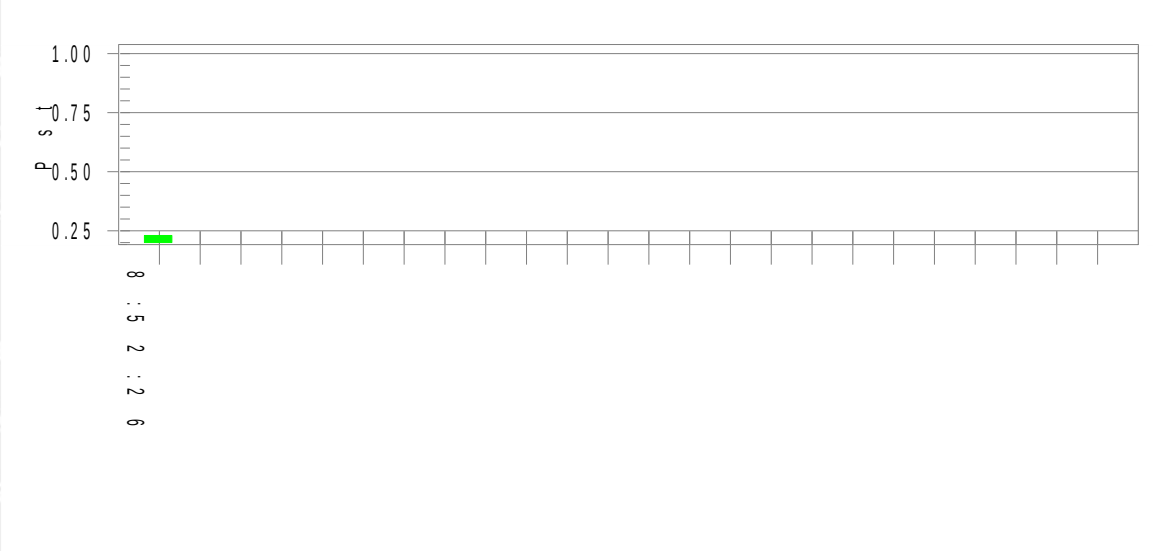
Flicker Test Summary per IEC61000-3-3:2013+AMD2:2021 (Run time)

Comment: TM2

Customer: Customer information

Test Result: Pass **Status: Test Completed**

Pst_i and limit line **European Limits**



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**231.21**			
Highest dt (%):		**Test limit (%):**		
T-max (mS):	**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):	**0.230**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.101**	**Test limit:**	**0.650**	**Pass**

5. Immunity Test Results (EMS)

Performance Criteria Description in EN 55035

General Performance Criteria

Performance Criteria A

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

The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance Criteria B

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.

After the test, 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.

The performance level may be replaced by a permissible loss of performance.

If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance Criteria 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. A reboot or re-start operation is allowed. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

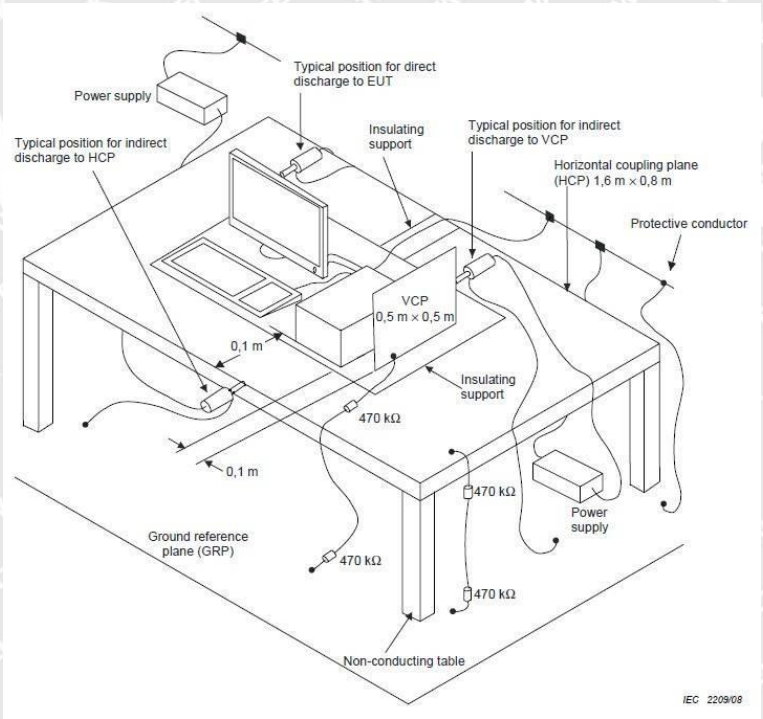
5.1 Electrostatic discharges

Test Requirement:	Contact Discharge: +/- 4kV Air Discharge: +/- 8kV
Test Method:	EN 61000-4-2: 2009
Procedure:	Discharge Impedance: 330Ω/150pF Number of Discharge: Minimum 10 times at each test point Discharge Mode: Single Discharge Discharge Period: 1 second minimum
Performance Criteria:	B

5.1.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

5.1.2 Basic Test Setup Block Diagram



5.1.3 Summary of Test Results

Discharge type	Volt (kV)	Polarity	Test Point	Result/ Observations
Air discharge	2,4,8	+	1	A
Air discharge	2,4,8	-	1	A
Contact discharge	4	+	2	N/A
Contact discharge	4	-	2	N/A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Test Point: 1. All insulated enclosure and seams.

2. All accessible metal parts of the enclosure.

3. All side.

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

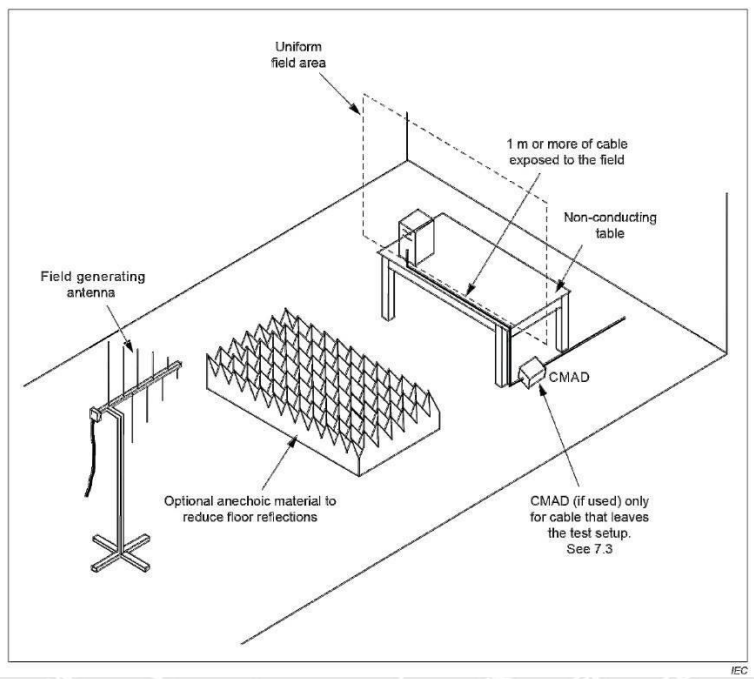
5.2 RF electromagnetic field disturbances

Test Requirement:	3V/m, 80%, 1kHz Amp. Mod.
Test Method:	EN IEC 61000-4-3: 2020
Procedure:	Frequency Range: 80MHz to 1GHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz Antenna Polarisation: Vertical and Horizontal Modulation: 1kHz,80% Amp. Mod,1% increment
Performance Criteria:	A

5.2.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

5.2.2 Basic Test Setup Block Diagram



5.2.3 Summary of Test Results

Frequency	Field Strength (V/m)	EUT face	Dwell time	Result/ Observations
80MHz-1GHz	3	Front	1s	A
80MHz-1GHz	3	Back	1s	A
80MHz-1GHz	3	Left	1s	A
80MHz-1GHz	3	Right	1s	A
80MHz-1GHz	3	Top	1s	A
80MHz-1GHz	3	Bottom	1s	A
1800MHz	3	Front	1s	A
1800MHz	3	Back	1s	A
1800MHz	3	Left	1s	A
1800MHz	3	Right	1s	A
1800MHz	3	Top	1s	A
1800MHz	3	Bottom	1s	A
2600MHz	3	Front	1s	A
2600MHz	3	Back	1s	A
2600MHz	3	Left	1s	A
2600MHz	3	Right	1s	A
2600MHz	3	Top	1s	A
2600MHz	3	Bottom	1s	A
3500MHz	3	Front	1s	A
3500MHz	3	Back	1s	A
3500MHz	3	Left	1s	A
3500MHz	3	Right	1s	A
3500MHz	3	Top	1s	A
3500MHz	3	Bottom	1s	A
5000MHz	3	Front	1s	A
5000MHz	3	Back	1s	A
5000MHz	3	Left	1s	A
5000MHz	3	Right	1s	A
5000MHz	3	Top	1s	A
5000MHz	3	Bottom	1s	A

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

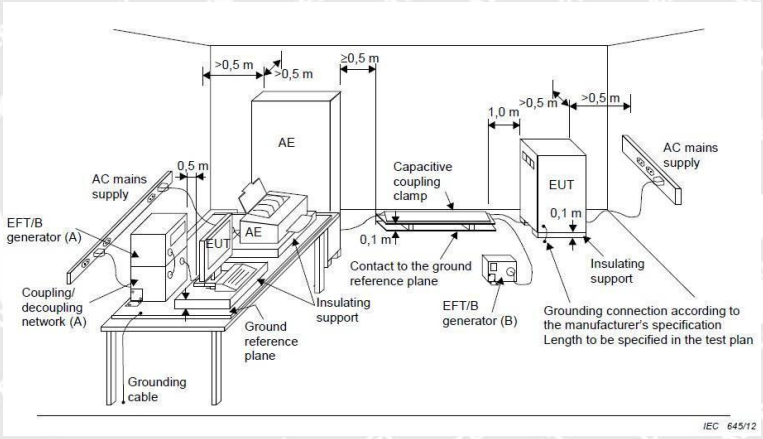
5.3 Electrical fast transients / burst for AC mains power ports

Test Requirement:	1kV; 5/50ns Tr/Th; 5kHz Repetition Frequency
Test Method:	EN 61000-4-4: 2012
Procedure:	Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level polarity
Performance Criteria:	B

5.3.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

5.3.2 Basic Test Setup Block Diagram



5.3.3 Summary of Test Results

Port	Volt (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.

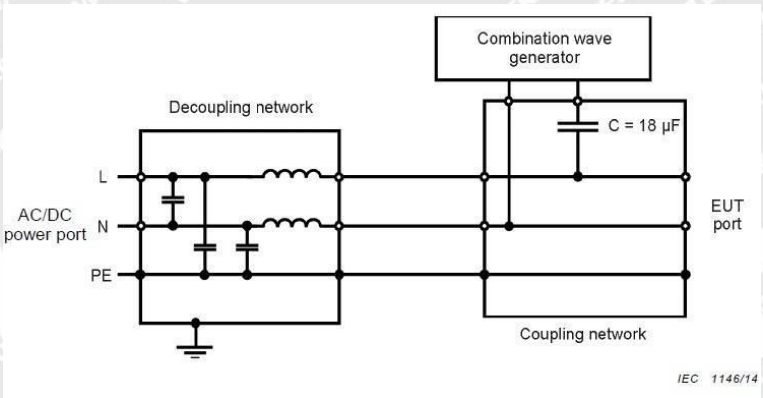
5.4 Surges for AC mains power ports

Test Requirement:	1.2/50μs Tr/Td; 1kV Line to Line
Test Method:	EN 61000-4-5: 2014 +A1: 2017
Procedure:	Interval: 60s between each surge No. of surges: 5 positive, 5 negative at 90°, 270°
Performance Criteria:	B

5.4.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

5.4.2 Basic Test Setup Block Diagram



5.4.3 Summary of Test Results

Port	Volt (kV)	Polarity	Phase(degree)	Result/ Observations
L-N	1	+	90°	A
L-N	1	-	270°	A

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

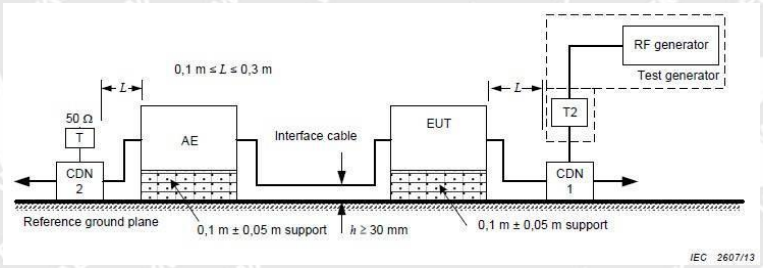
5.5 Continuous induced RF disturbances for AC mains power ports (150kHz-80MHz)

Test Requirement:	0,15 to 10MHz 3Vrms (emf), 10 to 30MHz 3V to 1Vrms(emf), 30 to 80MHz 1Vrms(emf), 80%,1kHz Amp. Mod.
Test Method:	EN 61000-4-6: 2014
Procedure:	Frequency Range: 0.15MHz to 80MHz Modulation: 80%, 1kHz Amplitude Modulation Step Size: 1%
Performance Criteria:	A

5.5.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

5.5.2 Basic Test Setup Block Diagram



5.5.3 Summary of Test Results

Port	Strength (Vrms)	CDN/Clamp	Dwell time	Result/ Observations
AC power port	3(0.15MHz-10MHz)	CDN	1s	A
AC power port	3 to 1(10MHz-30MHz, Lines)	CDN	1s	A
AC power port	1(30MHz-80MHz)	CDN	1s	A

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

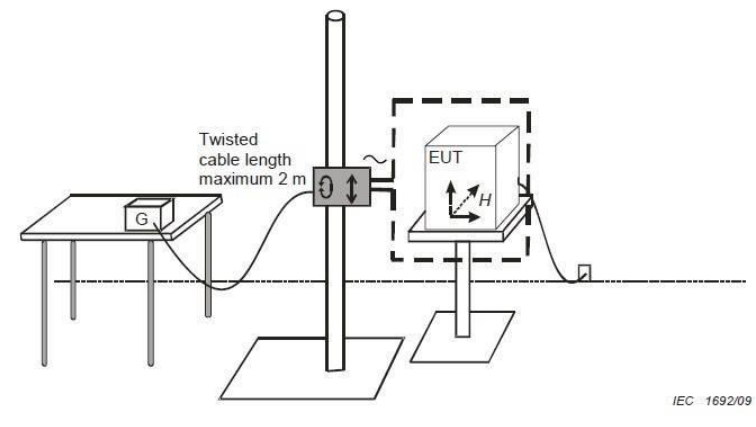
5.6 Power frequency magnetic field

Test Requirement:	50 or 60Hz, 1 A/m
Test Method:	EN 61000-4-8: 2010
Procedure:	50 or 60Hz, 1 A/m
Performance Criteria:	A

5.6.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

5.6.2 Basic Test Setup Block Diagram



5.6.3 Summary of Test Results

Frequency	Strength (A/m)	Axial	Magnetic Field Type	Result/ Observations
50Hz/ 60Hz	1	X	Continuous filed	A
50Hz/ 60Hz	1	Y	Continuous filed	A
50Hz/ 60Hz	1	Z	Continuous filed	A

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

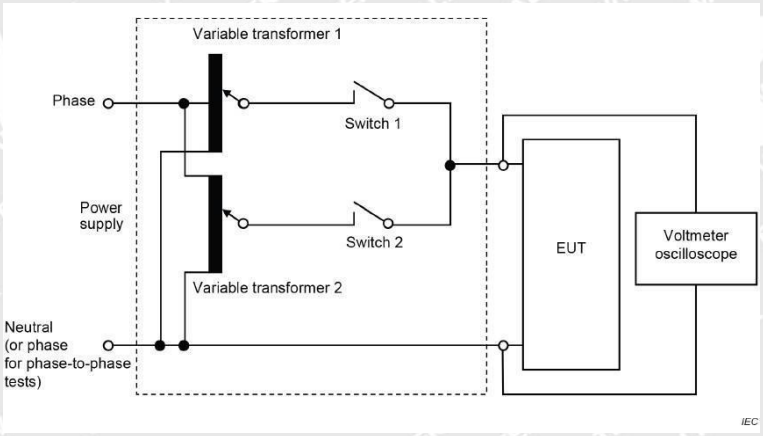
5.7 Voltage dips and interruptions

Test Requirement:	5% residual voltage for 0.5 periods 70% residual voltage: 25 periods for 50Hz, 30 periods for 60Hz 5% residual voltage: 250 periods for 50Hz, 300 periods for 60Hz
Test Method:	EN IEC 61000-4-11:2020
Procedure:	5% residual voltage for 0.5 period 70% residual voltage: 25 periods for 50Hz, 30 periods for 60Hz 5% residual voltage: 250 periods for 50Hz, 300 periods for 60Hz No. of Dips / Interruptions: 3 per Level Time between dropout: 10s
Performance Criteria:	B, C, C

5.7.1 E.U.T. Operation

Environmental Conditions	
Temperature:	23.5 °C
Relative Humidity:	53 %
Atmospheric Pressure:	99.8 kPa
Test mode:	TM1, TM2

5.7.2 Basic Test Setup Block Diagram

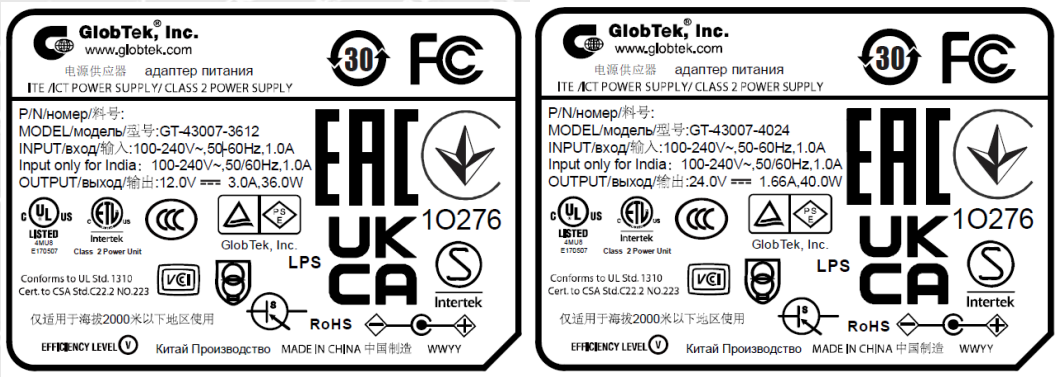


5.7.3 Summary of Test Results

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

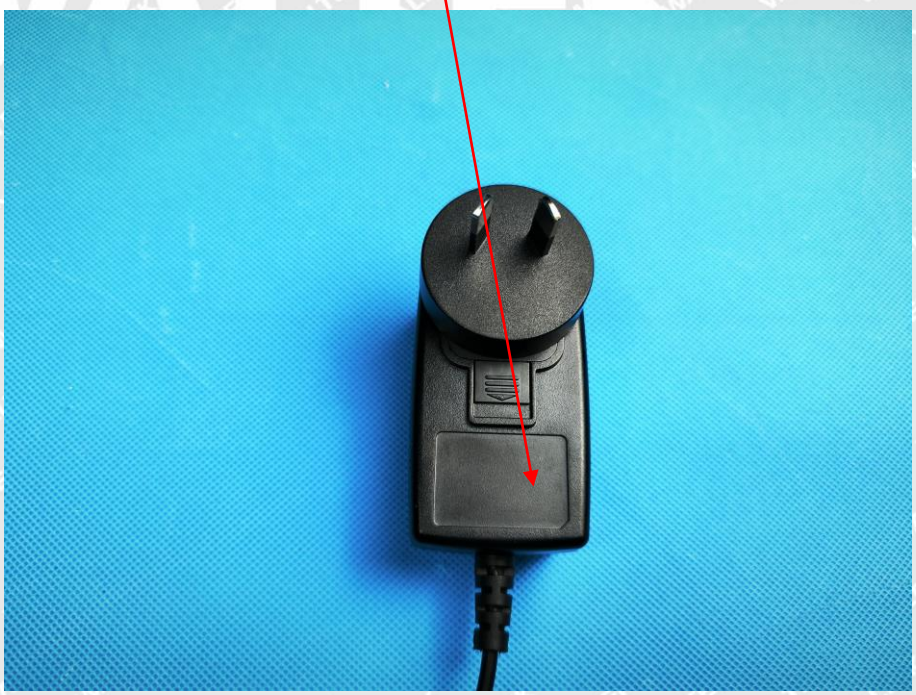
6. EXHIBIT 1 - PRODUCT LABELING

6.1 Proposed Label Format



Specifications: Text is Black in color and is justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened onto the EUT or shall be affixed at a conspicuous location on the EUT. The ‘CE’ marking must be affixed to the EUT or to its data plate. Where this is not possible or not warranted on account of the nature of the apparatus, it must be affixed to the packaging, if any, and to the accompanying documents. The ‘CE’ marking must have a height of at least 5 mm. If the ‘CE’ marking is reduced or enlarged the proportions given in the above graduated drawing must be respected. The Importer name, address and Manufacturer name and address should indicate on marking label or packaging or in a document accompanying.

6.2 Proposed Label Location of EUT

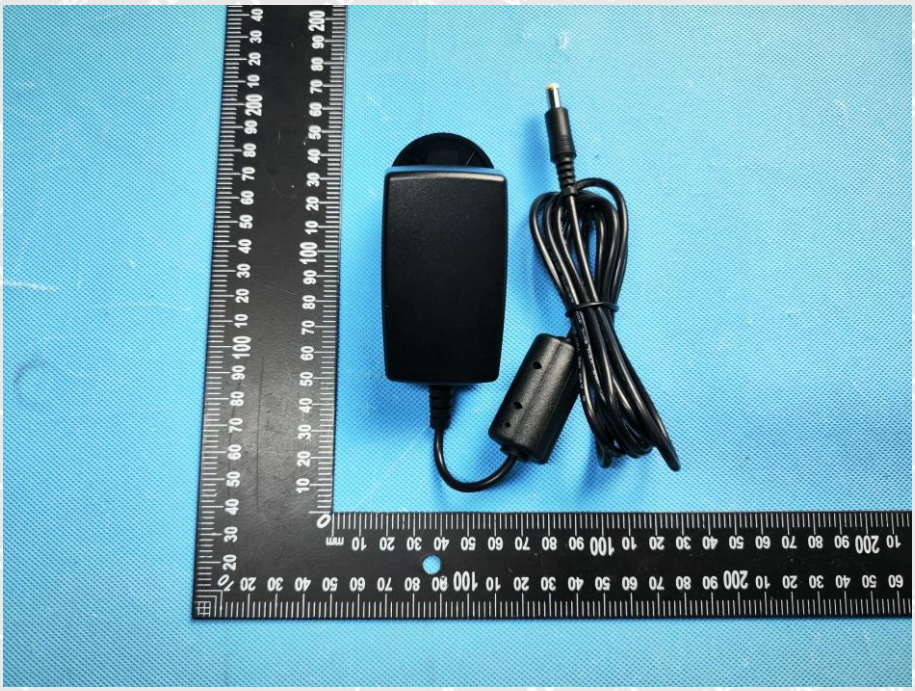
Label Location (GT-43007-3612)	Label Location 

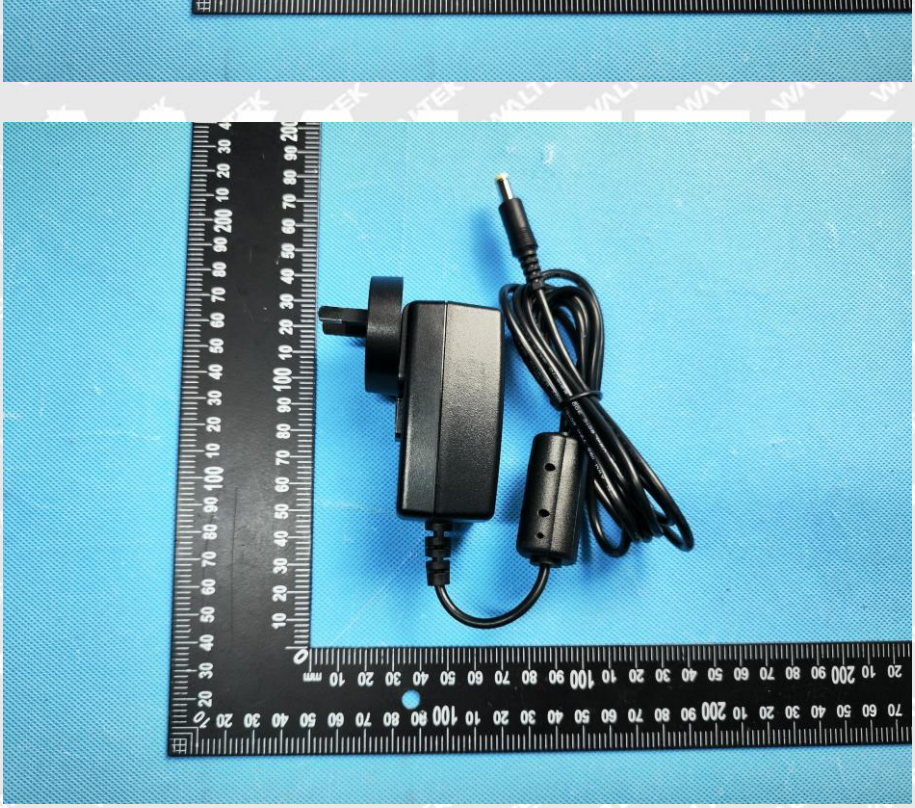
Label Location **(GT-43007-4024)**	

7. EXHIBIT 2 - EUT PHOTOGRAPHS

External

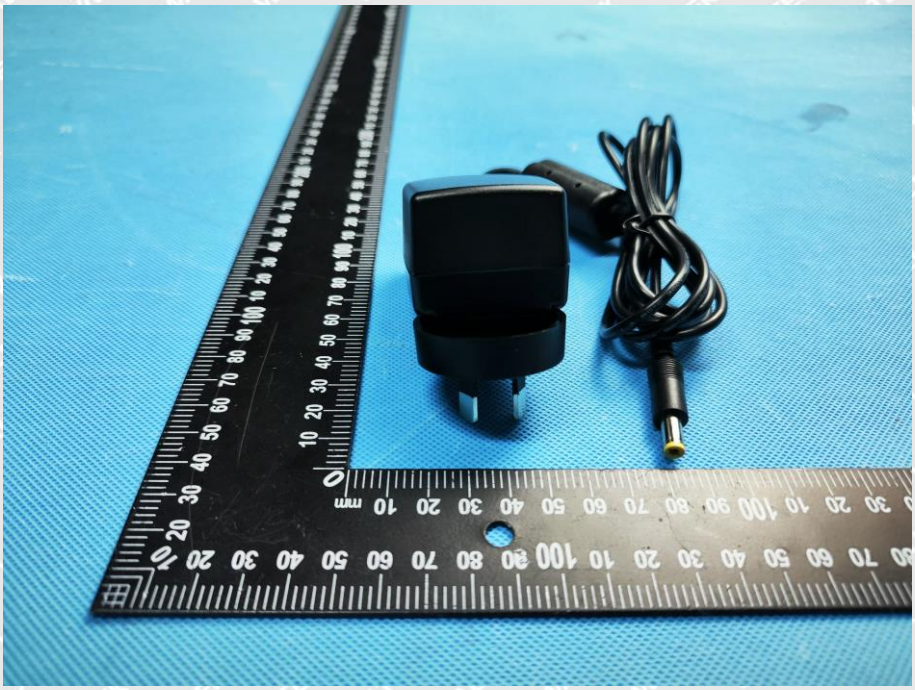
GT-43007-3612

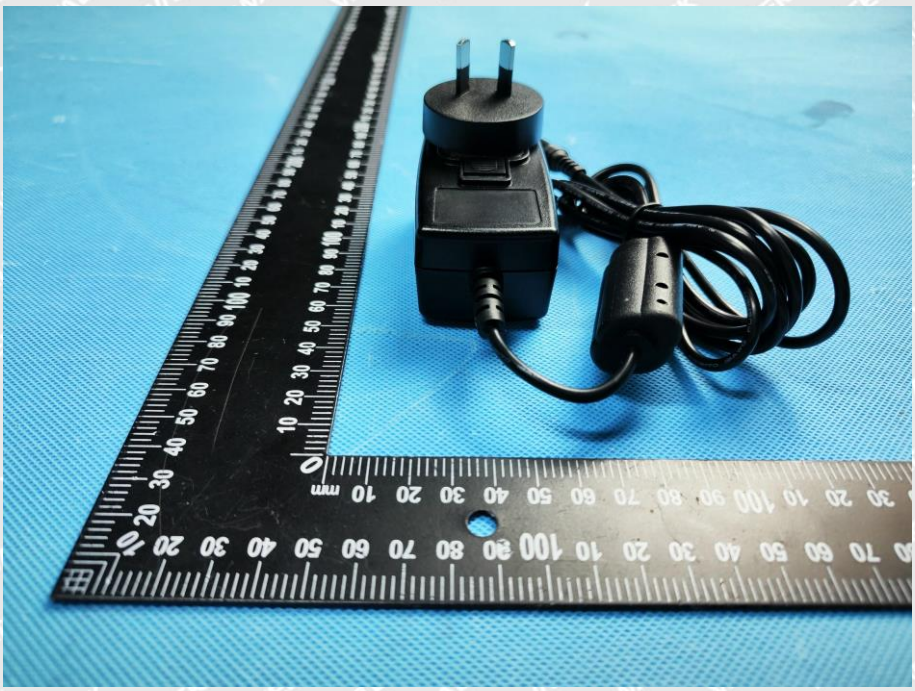












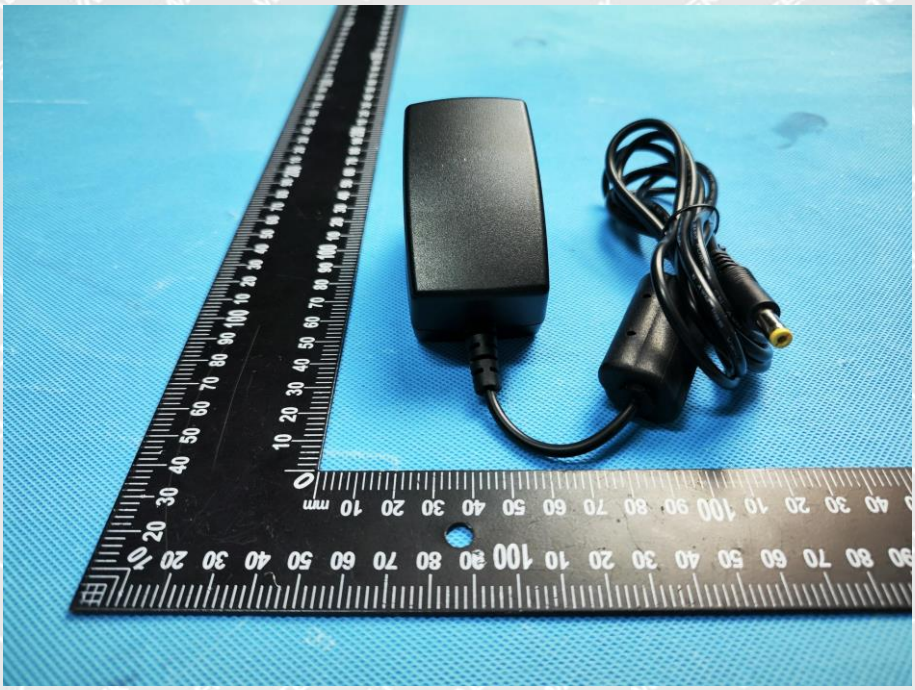
GT-43007-4024







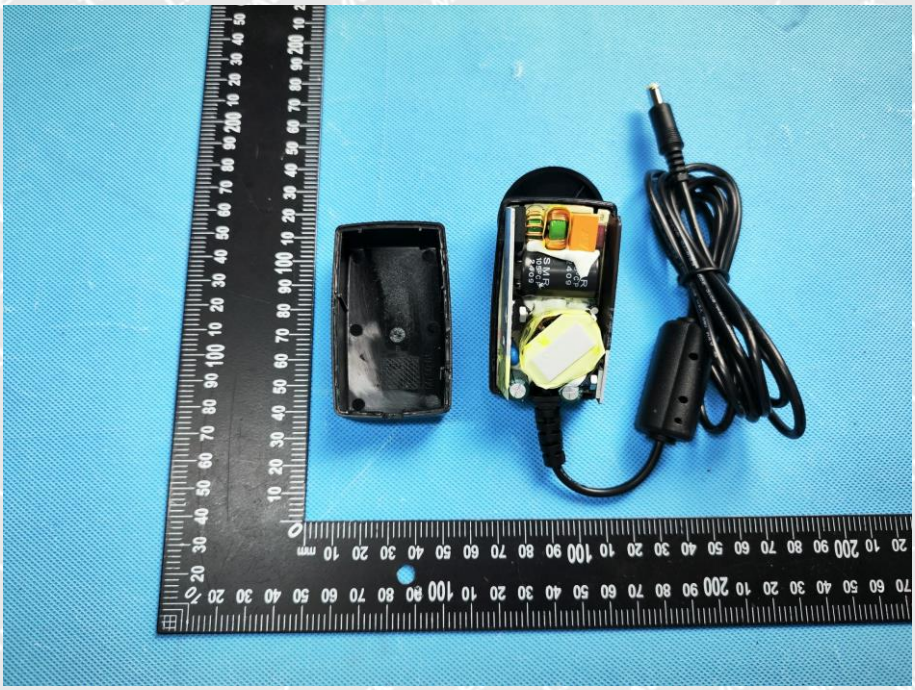


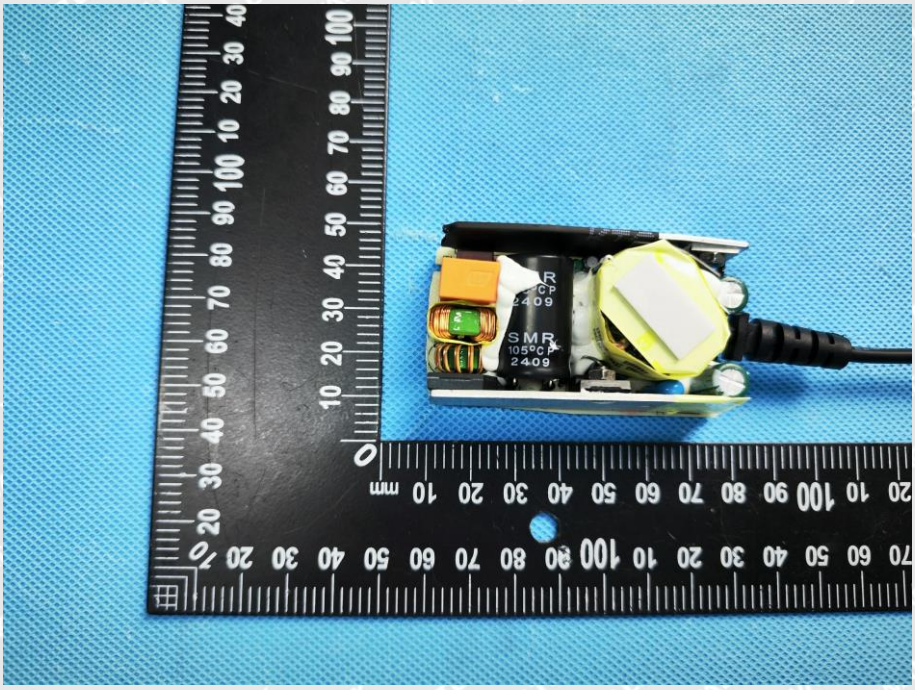


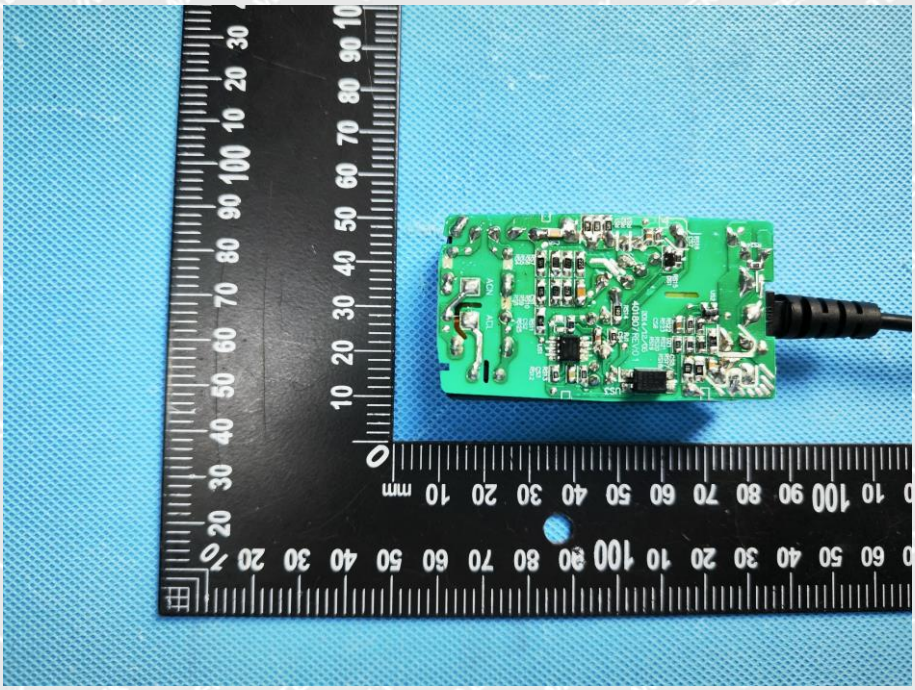


Internal

GT-43007-3612

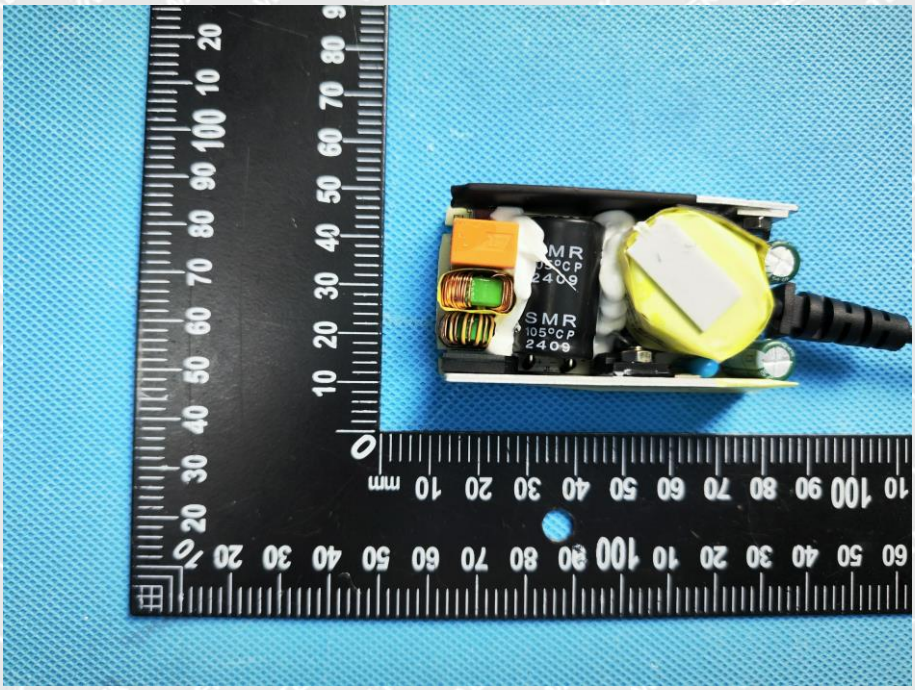


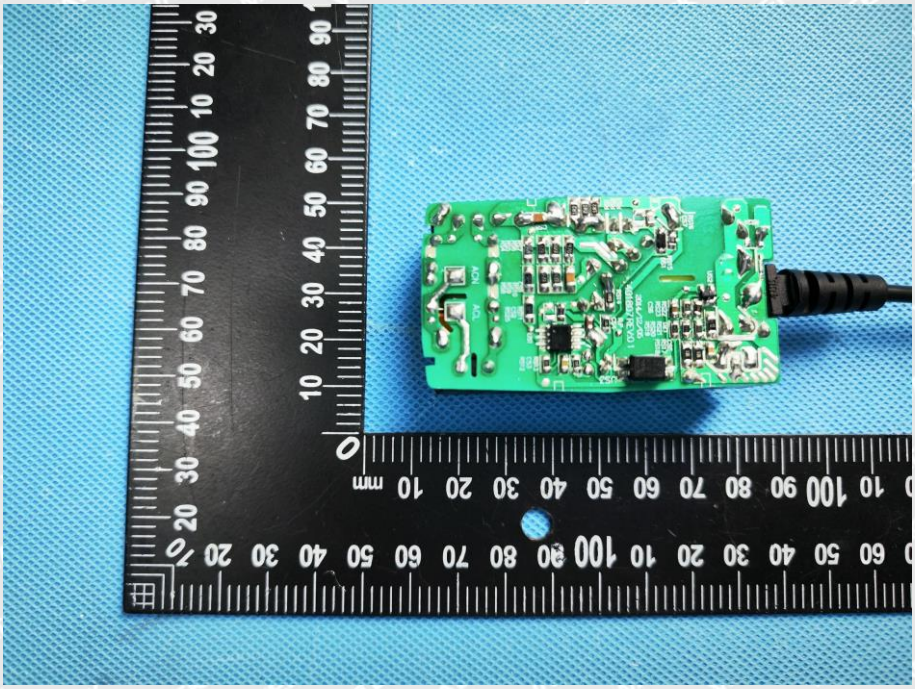




GT-43007-4024





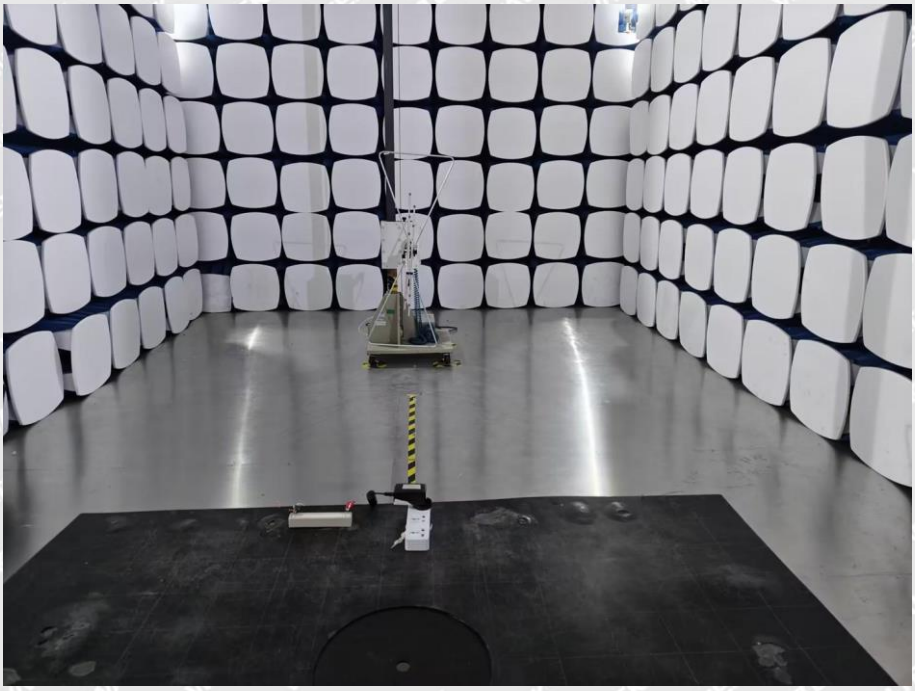


8. EXHIBIT 3 - TEST SETUP PHOTOGRAPHS

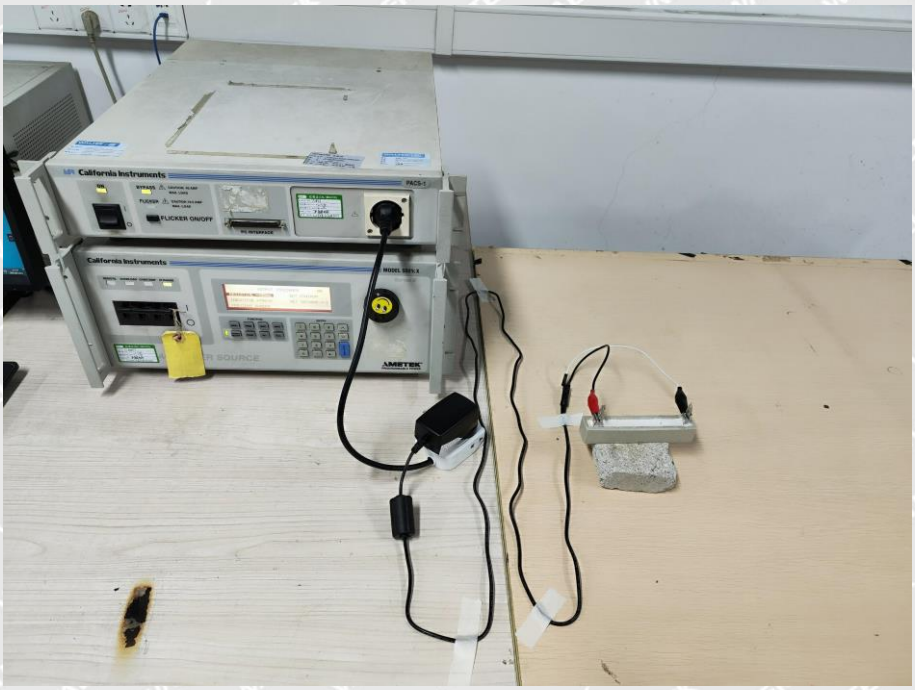
Conducted emissions from AC mains power ports (150kHz-30MHz)



Radiated emissions (30MHz-1GHz)



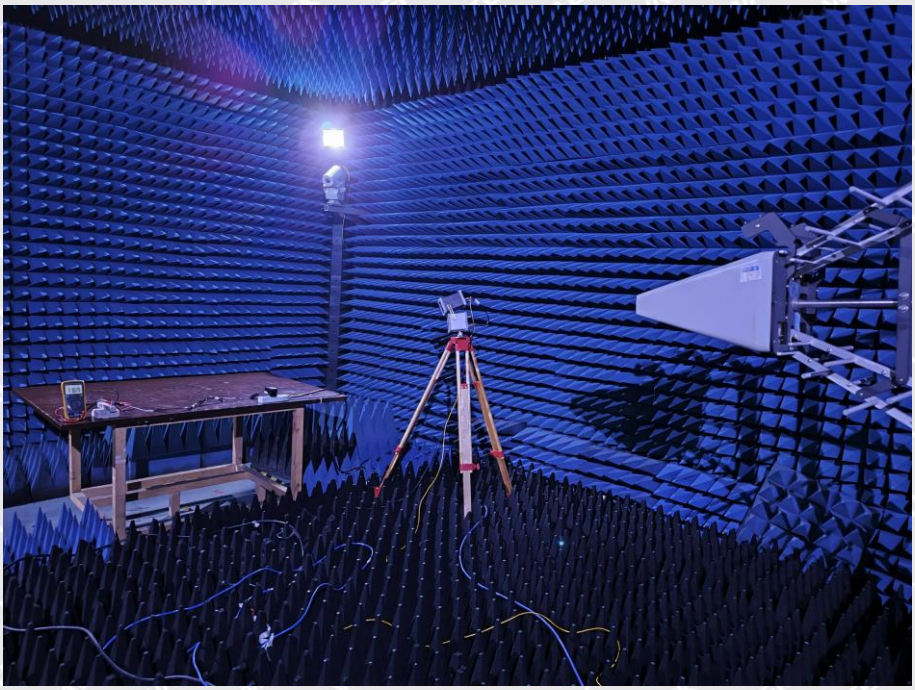
Voltage fluctuations and flicker



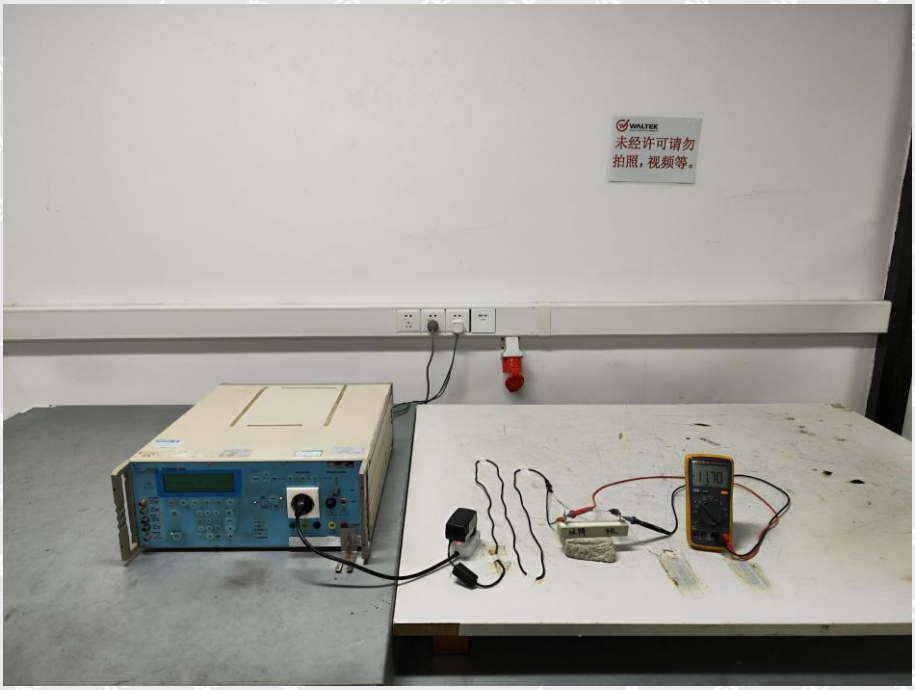
Electrostatic discharges



RF electromagnetic field disturbances



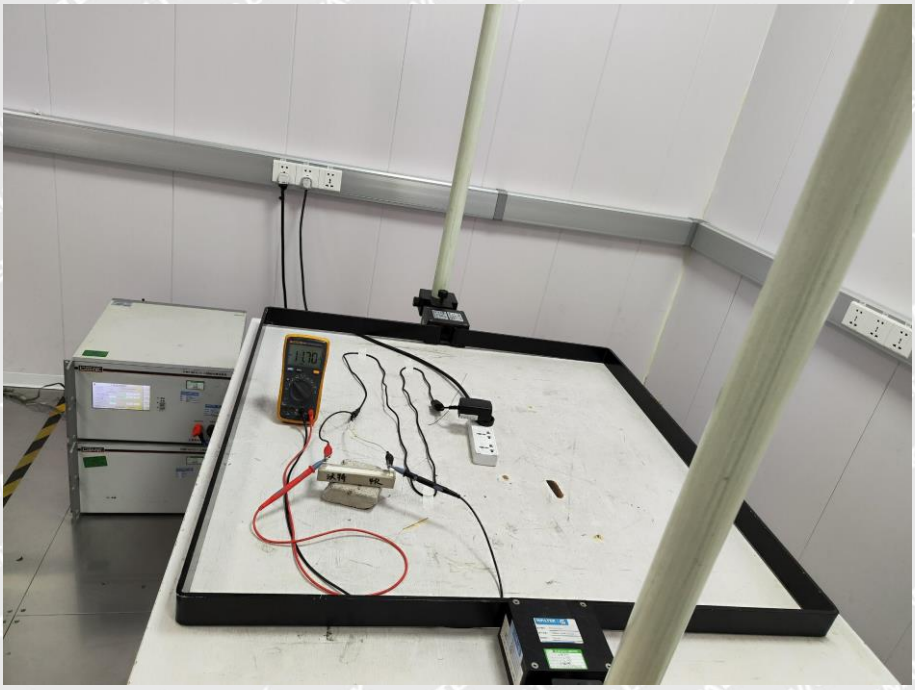
Electrical fast transients / burst for AC mains power ports
Surges for AC mains power ports
Voltage dips and interruptions



Continuous induced RF disturbances for AC mains power ports (150kHz-80MHz)



Power frequency magnetic field



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