TEST REPORT

Reference No.	:	WTX22X07139236E
Applicant	:	GlobTek, Inc.
Address	:	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer	:	1: GlobTek, Inc. 2: GlobTek (Suzhou) Co., Ltd
Address	:	1: 186 Veterans Dr. Northvale, NJ 07647 USA 2: Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou,JiangSu 215021, China
Product Name	:	ITE Power Supply
Model No.	:	GT-46180-WWVV-X.XX****** series (Replaceable plug), GT-46182-WWVV-X.XX-W2Z****** series (Fixed plug)
Standards	:	**EN 55032:2015+A11:2020** **EN 55035:2017+A11:2020** **EN IEC 61000-3-2:2019** **EN 61000-3-3:2013+A1:2019**
Date of Receipt sample	:	2022-07-08
Date of Test	:	2022-07-08 to 2022-07-21
Date of Issue	:	2022-07-21
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:

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Approved by: Silin Chen

Silin Chen

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	ITE Power Supply
Trade Name:	GlobTek, Inc.
Model No.:	GT-46180-WWVV-X.XX****** series (Replaceable plug), GT-46182- WWVV-X.XX-W2Z****** series (Fixed plug)
Adding Model(s):	/
*Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model GT-46180-WWVV-X.XX****** series (Replaceable plug), GT-46182- WWVV-X.XX-W2Z****** series (Fixed plug) but the circuit and the electronic construction do not change, declared by the manufacturer.* *GT-46180-WWVV-X.XX****** series (Replaceable plug), GT-46182- WWVV-X.XX-W2Z****** series (Fixed plug)* *(WW is the standard output wattage, with a maximum value of "18".* *VV is the standard rated output voltage designation, with a maximum value of "24"; which can be 05, 09, 12, 15, 18, 24.* *-X.XX is optional, which can be "-0.01" to "-5.99", denote the output voltage differentiator, subtracting -X.XX volts from standard output voltage VV in 0.01V increments, the actual output voltage range is 5-24Vdc, blank is to indicate the no voltage different.* *Each * = 0-9 or A-Z or ()[] or blank for marketing purposes.* *Z designates type of plug and can be E for European plug, U for British plug, blank for North American / Japan plug/Taiwan plug, C for Chinese plug, A for Australia plug, K for Korean plug.)*	

Technical Characteristics of EUT	
Rated Voltage:	AC 100-240V~50-60Hz
Rated Current:	0.6A
Rated Power:	/
Power Adaptor Model:	/
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+A11:2020: Electromagnetic compatibility of multimedia equipment - Emission requirements.

EN 55035:2017+A11:2020: Electromagnetic compatibility of multimedia equipment - Immunity requirements.

EN IEC 61000-3-2:2019: Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase).

EN 61000-3-3:2013+A1:2019: 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 <= 16 A per phase and not subject to conditional connection.

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 Methodology

All measurements contained in this report were conducted with the standards EN 55032, EN IEC 61000-3-2, EN 61000-3-3 and EN 55035 for electromagnetic compatibility of multimedia equipment, and all related testing and measurement techniques intentional standards.

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:

Test Mode List			
Test Mode	Description	Remark	Power Supply Mode
TM1	Working:24V0.75A (GT-46180-1824)	output port is connected to the Cement load(32R)	AC230V/50Hz
TM2	Working:5V3.2A (GT-46180-1605)	output port is connected to the Cement load(4R)	AC230V/50Hz
Note: The product was measured at two nominal voltages of 230V and 110V, using a frequency of 50Hz or 60Hz. This report shows the worst case with 230V/50Hz data.			

EUT Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	With / Without Chip
output cable(TM1)	1.90	Unshielded	With	Without
output cable(TM2)	1.62	Unshielded	With	Without

Special Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	With / Without Chip
/	/	/	/	/

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

1.5 Performance Criteria for EMS

All the test data has been collected, reduced, and analyzed within this report in accordance with Immunity requires the following as specific performance criteria:

A. The apparatus shall continue to operate as intended during and after the test. The manufacturer specifies some minimum performance level. The performance level may be specified by the manufacturer as a permissible loss of performance.
B. The apparatus shall continue to operate as intended after the test. This indicates that the EUT does not need to function at normal performance levels during the test, but must recover. Again some minimal performance is defined by the manufacturer. No change in operating state or loss of data is permitted.
C. Temporary loss of function is allowed. Operation of the EUT may stop as long as it is either automatically reset or can be manually restored by operation of the controls.

1.6 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal. Date	Due. Date
☐Chamber A:Below 1GHz					
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-20	2023-03-19
Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2023-03-19
Amplifier	HP	8447F	2805A03475	2022-01-07	2023-01-06
☐Chamber A:Above 1GHz					
Amplifier	C&D	PAP-1G18	2002	2022-03-22	2023-03-21
Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
☒Chamber B:Below 1GHz					
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
Amplifier	Agilent	8447D	2944A10179	2022-03-22	2023-03-21
EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2022-03-25	2023-03-24
☐Chamber C:Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2022-01-07	2023-01-06
Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2023-05-27
Amplifier	HP	8447F	2944A03869	2022-03-22	2023-03-21
☒Conducted Room 1#					
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2022-03-22	2023-03-21
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2022-03-25	2023-03-24
AC LISN	Schwarz beck	NSLK8126	8126-224	2022-03-22	2023-03-21
8-WIRE LISN	Schwarz beck	8158	CAT3-8158-0059	2022-03-22	2023-03-21
8-WIRE LISN	Schwarz beck	8158	CAT5-8158-0117	2022-03-22	2023-03-21
☐Conducted Room 2#					
EMI Test Receiver	Rohde & Schwarz	ESPI	10129	2022-03-22	2023-03-21
LISN	Rohde & Schwarz	ENV 216	100097	2022-03-22	2023-03-21
☒Harmonics &Flicker					
Digital Power Analyzer	California Instrument	CTS	72831	2022-03-22	2023-03-21
Power Source	California Instrument	5001IX-CTS-400	25965	2022-03-22	2023-03-21
☒Electrostatic discharges					
ESD Generator	LIONCEL	ESD-203B	0170901	2022-03-28	2023-03-27
☒Power-frequency magnetic field (PFMF)					
PMF Generator	LIONCEL	PMF-801C-C	0171101	2022-03-22	2023-03-21
PMF Antenna	LIONCEL	PMF-801C-A	0180302	2022-03-22	2023-03-21

Instantaneous PMF Generator Module	LIONCEL	PMF-801C-T	0171001	2022-03-22	2023-03-21
☒Electronic fast transient(EFT)/Surges/Dips					
Transient 2000	EMC PARTNER	TRA2000	863	2022-03-22	2023-03-21
Couple Clamp	EMC PARTNER	CN-EFT1000	513	2022-03-22	2023-03-21
☒Radio frequency, continuous conducted (C/S)					
CONDUCTED IMMUNITY TEST SYSTEM	FRANKONIA	CIT-10/75	126B1247/2013	2022-01-07	2023-01-06
Attenuator	EMTEST	MA-5100/6BF2	1009	2022-03-22	2023-03-21
CDN	Luthi	L-801M2/M3	2665	2022-03-22	2023-03-21
CDN	LIONCEL	CDN-T8	0210401	2022-03-25	2023-03-24
EM Clamp	TESEQ	KEMZ801A	45028	2022-03-25	2023-03-24
☒Radio frequency electromagnetic Field (R/S)					
Signal Generator	HP	8688B	3438A00604	2022-03-22	2023-03-21
Power Sensor	Agilent	E9301A	MY52450001	2022-03-25	2023-03-24
Power Sensor	Agilent	E9304A	MY55081055	2022-03-25	2023-03-24
RF Power Amplifier	MicoTop	MPA-80-1000-250	MPA1906239	2022-03-22	2023-03-21
RF Power Amplifier	MicoTop	MPA-1000-6000-100	MPA1906238	2022-03-22	2023-03-21
Antenna	SCHWARZBECK	STLP 9129	9129 114	N/A	N/A
Power Meter	Agilent	E4419B	GB42420578	2022-03-22	2023-03-21

2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
EN 55032	Conducted Emission	Compliant
	Radiated Emission	Compliant
EN IEC 61000-3-2	Harmonic Current Emission	Compliant
EN 61000-3-3	Voltage Fluctuation and Flicker	Compliant
EN 55035	Electrostatic Discharge Immunity in accordance with EN 61000-4-2	Compliant
	Continuous RF electromagnetic field Disturbances Immunity in accordance with EN 61000-4-3	Compliant
	Electrical Fast Transient/Burst Immunity in accordance with EN 61000-4-4	Compliant
	Surges Immunity in accordance with EN 61000-4-5	Compliant
	Continuous induced RF disturbances Immunity in accordance with EN 61000-4-6	Compliant
	Power-frequency Magnetic Fields Immunity in accordance With EN 61000-4-8	Compliant
	Voltage Dips/Interruptions Immunity in accordance with EN 61000-4-11	Compliant
	Broadband impulse noise disturbances, repetitive	N/A
	Broadband impulse noise disturbances, isolated	N/A

N/A: not applicable

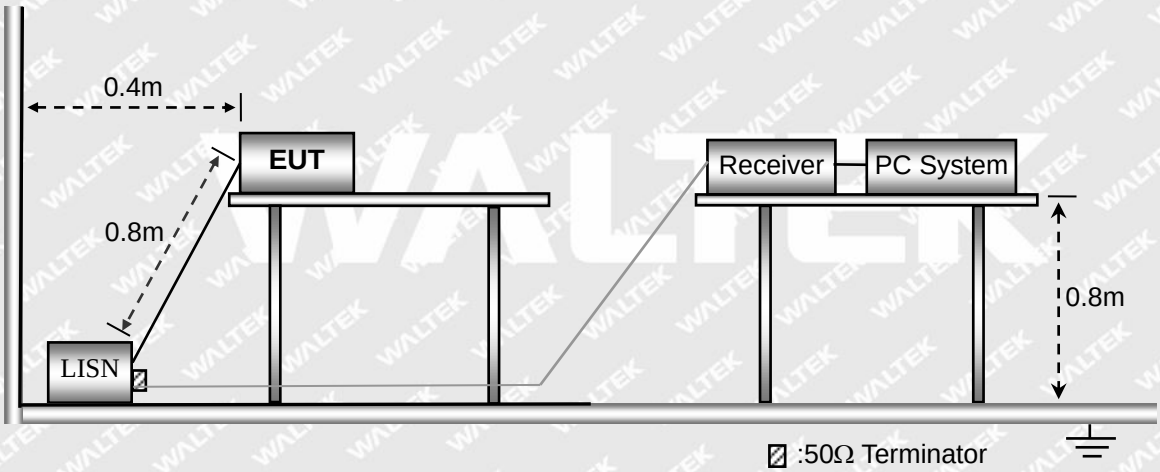
3. Conducted Emission

3.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement:

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	9-150kHz ±3.74dB
		0.15-30MHz ±3.34dB

3.2 Basic Test Setup Block Diagram



3.3 Environmental Conditions

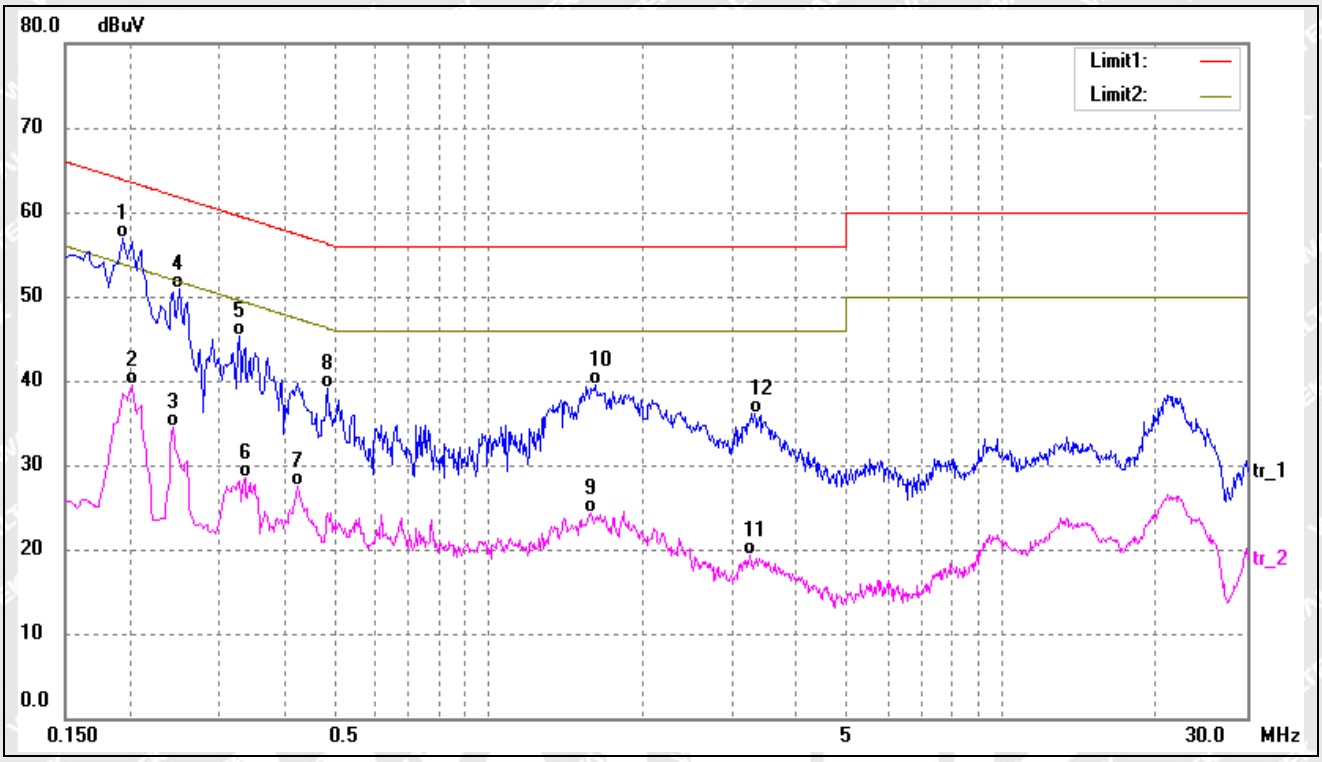
Temperature:	21.5 °C
Relative Humidity:	48 %
ATM Pressure:	1012 mbar

3.4 Summary of Test Results

Please find the results below:

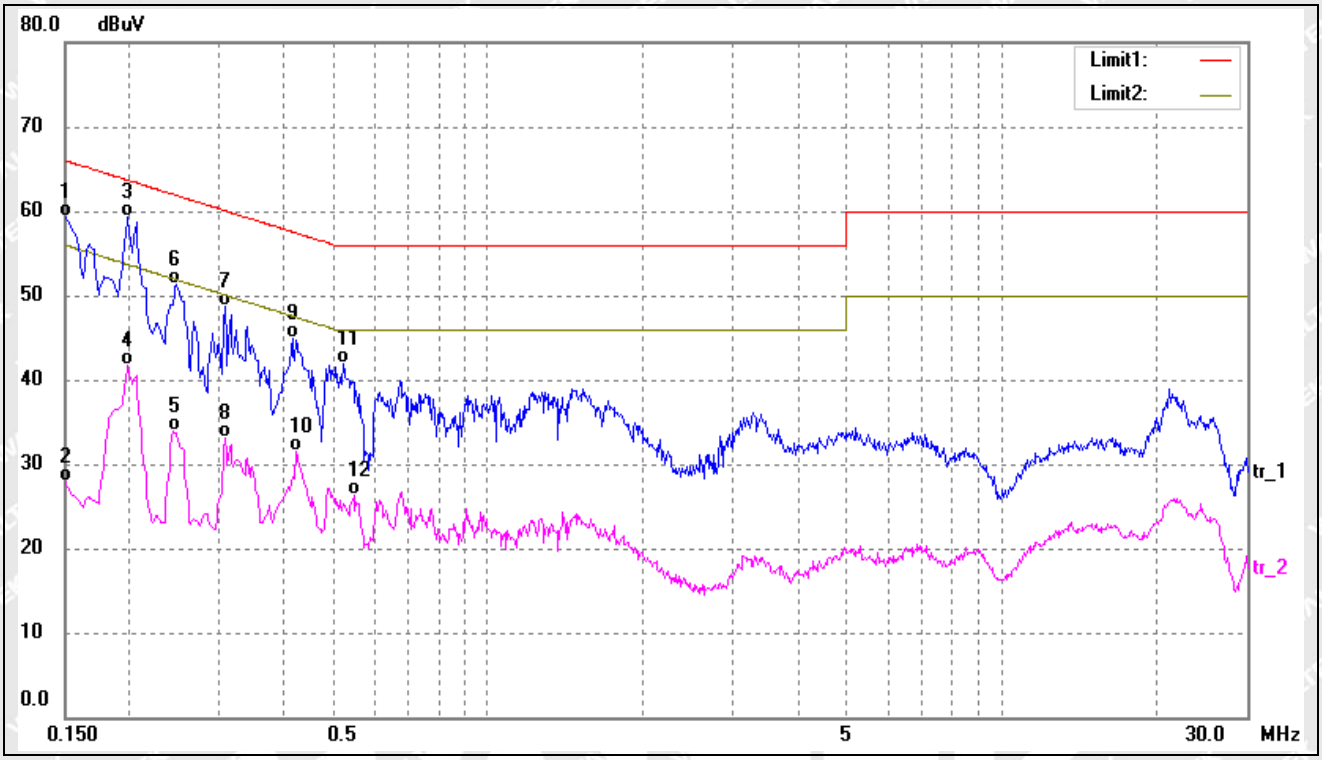
GT-46180-1824

Test mode:	TM1	Polarity:	Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1*	0.1940	46.63	10.30	56.93	63.86	-6.93	QP
2	0.2020	29.23	10.30	39.53	53.53	-14.00	AVG
3	0.2420	24.14	10.27	34.41	52.03	-17.62	AVG
4	0.2500	40.65	10.26	50.91	61.76	-10.85	QP
5	0.3260	34.99	10.24	45.23	59.55	-14.32	QP
6	0.3340	18.26	10.24	28.50	49.35	-20.85	AVG
7	0.4260	17.22	10.23	27.45	47.33	-19.88	AVG
8	0.4860	28.84	10.22	39.06	56.24	-17.18	QP
9	1.5820	14.13	10.21	24.34	46.00	-21.66	AVG
10	1.6220	29.24	10.21	39.45	56.00	-16.55	QP
11	3.2300	9.02	10.28	19.30	46.00	-26.70	AVG
12	3.3060	25.91	10.28	36.19	56.00	-19.81	QP

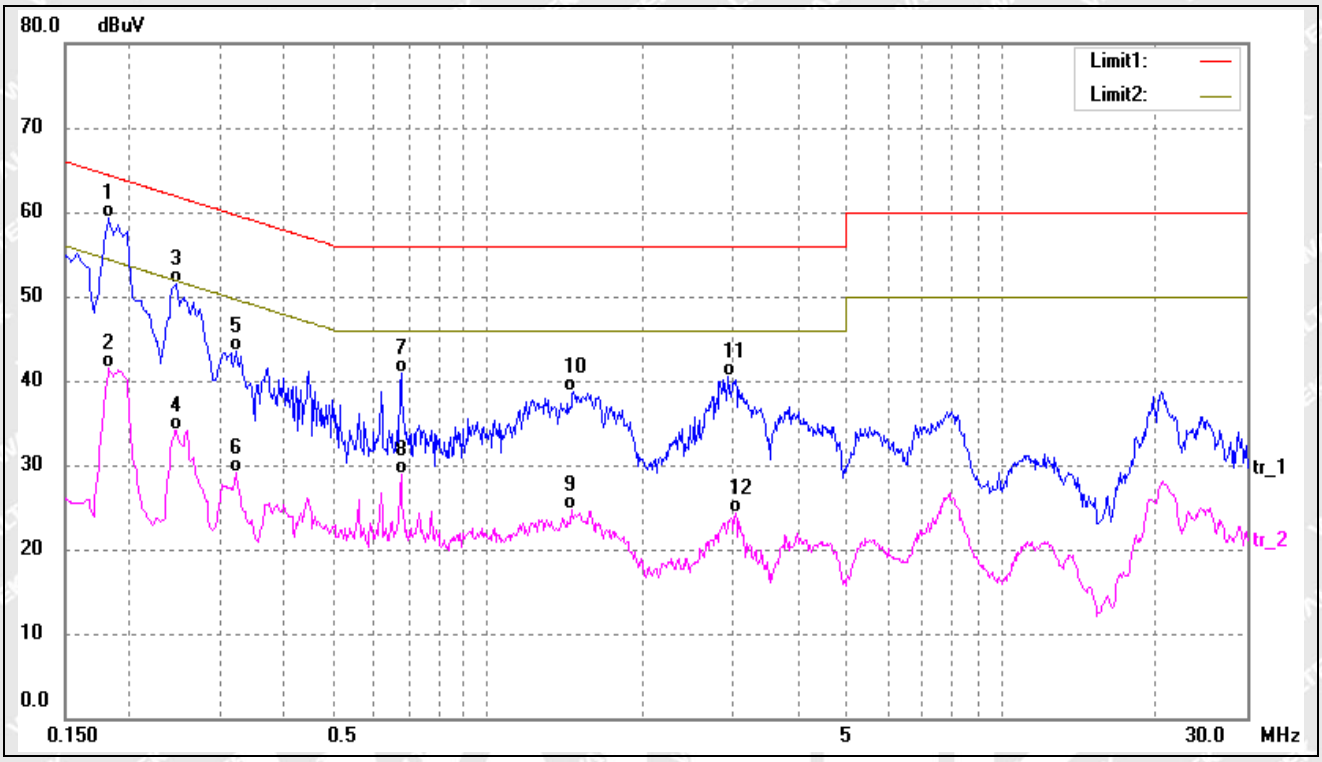
Test mode:	TM1	Polarity:	Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	49.08	10.32	59.40	65.99	-6.59	QP
2	0.1500	17.51	10.32	27.83	55.99	-28.16	AVG
3*	0.1980	49.07	10.30	59.37	63.69	-4.32	QP
4	0.1980	31.41	10.30	41.71	53.69	-11.98	AVG
5	0.2420	23.57	10.27	33.84	52.02	-18.18	AVG
6	0.2460	40.98	10.27	51.25	61.89	-10.64	QP
7	0.3060	38.38	10.24	48.62	60.08	-11.46	QP
8	0.3060	22.87	10.24	33.11	50.08	-16.97	AVG
9	0.4140	34.76	10.22	44.98	57.57	-12.59	QP
10	0.4220	21.19	10.22	31.41	47.41	-16.00	AVG
11	0.5220	31.67	10.22	41.89	56.00	-14.11	QP
12	0.5460	16.00	10.21	26.21	46.00	-19.79	AVG

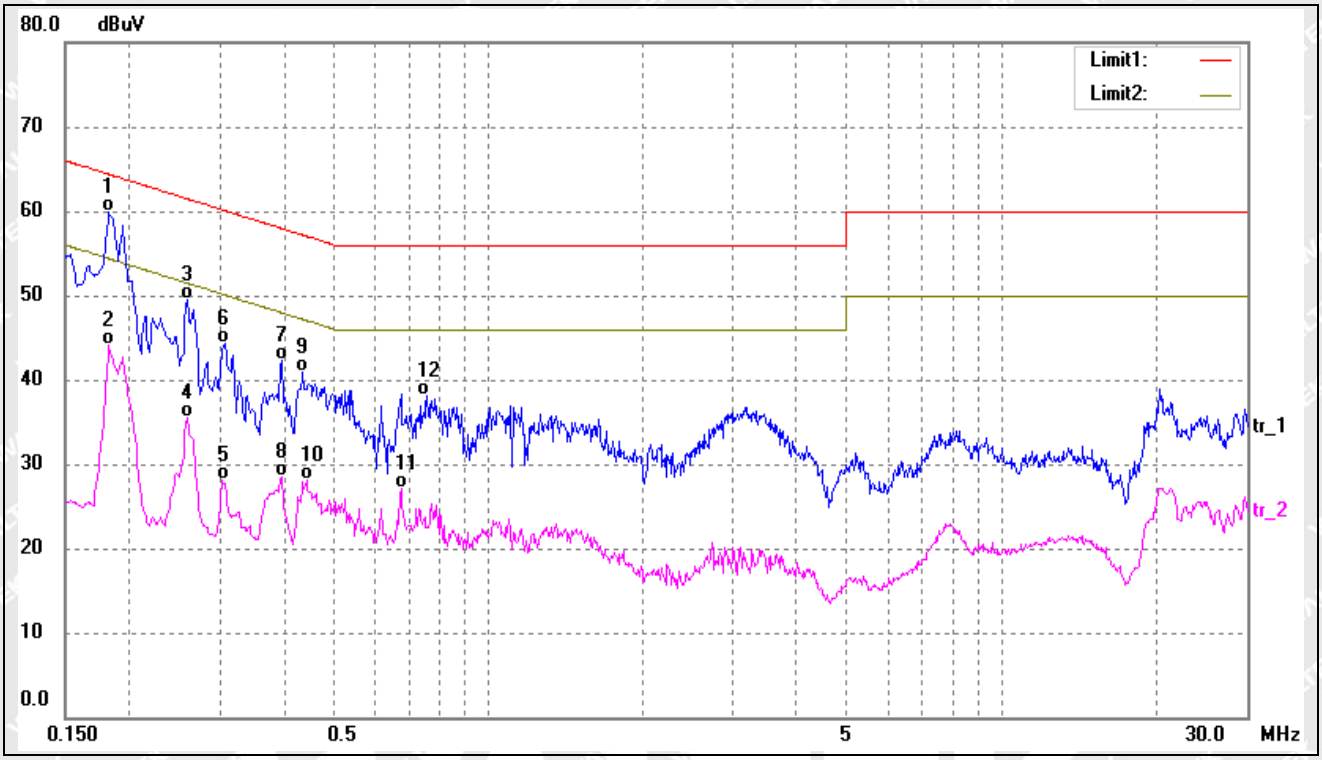
GT-46180-1605

Test mode:	TM2	Polarity:	Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1*	0.1819	48.95	10.31	59.26	64.39	-5.13	QP
2	0.1819	31.21	10.31	41.52	54.39	-12.87	AVG
3	0.2460	41.15	10.27	51.42	61.89	-10.47	QP
4	0.2460	23.85	10.27	34.12	51.89	-17.77	AVG
5	0.3220	33.24	10.24	43.48	59.65	-16.17	QP
6	0.3220	18.87	10.24	29.11	49.65	-20.54	AVG
7	0.6780	30.68	10.20	40.88	56.00	-15.12	QP
8	0.6780	18.65	10.20	28.85	46.00	-17.15	AVG
9	1.4500	14.45	10.18	24.63	46.00	-21.37	AVG
10	1.4700	28.54	10.19	38.73	56.00	-17.27	QP
11	2.9380	30.31	10.27	40.58	56.00	-15.42	QP
12	3.0300	13.93	10.28	24.21	46.00	-21.79	AVG

Test mode:	TM2	Polarity:	Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1*	0.1819	49.51	10.31	59.82	64.39	-4.57	QP
2	0.1819	33.73	10.31	44.04	54.39	-10.35	AVG
3	0.2580	39.25	10.26	49.51	61.49	-11.98	QP
4	0.2580	25.17	10.26	35.43	51.49	-16.06	AVG
5	0.3020	17.83	10.24	28.07	50.19	-22.12	AVG
6	0.3060	34.05	10.24	44.29	60.08	-15.79	QP
7	0.3940	32.00	10.23	42.23	57.98	-15.75	QP
8	0.3940	18.26	10.23	28.49	47.98	-19.49	AVG
9	0.4340	30.74	10.23	40.97	57.18	-16.21	QP
10	0.4420	17.79	10.23	28.02	47.02	-19.00	AVG
11	0.6780	16.98	10.20	27.18	46.00	-18.82	AVG
12	0.7620	27.99	10.17	38.16	56.00	-17.84	QP

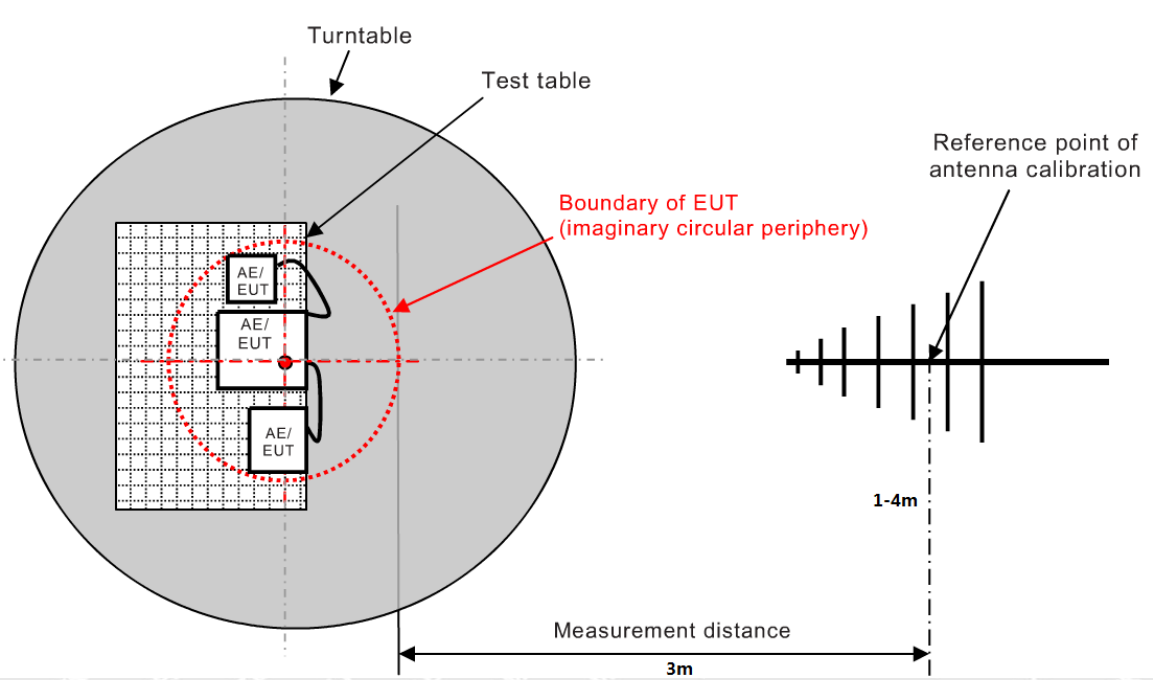
4. Radiated Emission

4.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement:

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Radiated Emissions	Radiated	30-200MHz ±4.52dB
		0.2-1GHz ±5.56dB
		1-6GHz ±3.84dB
		6-18GHz ±3.92dB

4.2 Basic Test Setup Block Diagram



4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Correct

Correct=Ant.Factor + Cable Loss - Ampl.Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit for Class B device. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – EN 55032 Class B Limit

4.4 Environmental Conditions

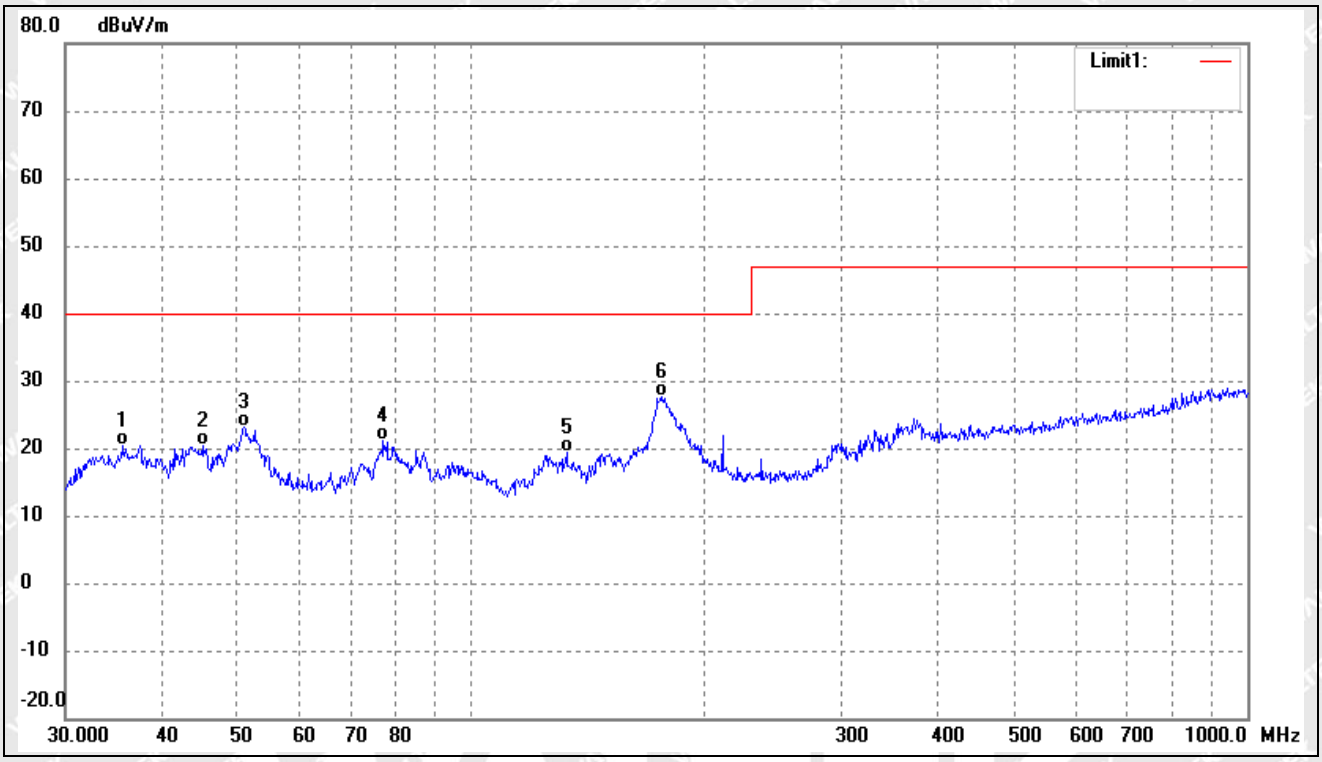
Temperature:	22.5 °C
Relative Humidity:	51 %
ATM Pressure:	1010 mbar

4.5 Summary of Test Results

Please find the results below:

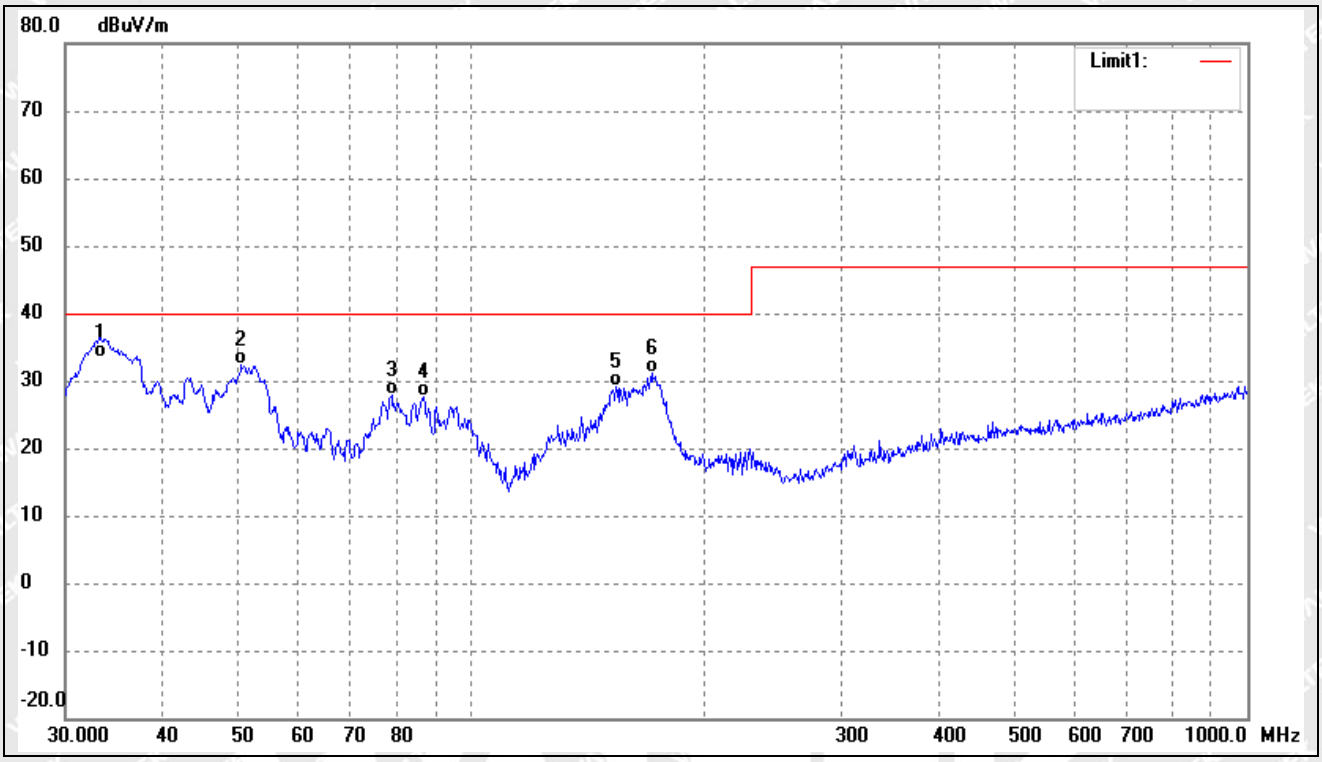
GT-46180-1824

Test mode:	TM1	Polarity:	Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	35.4993	32.17	-11.70	20.47	40.00	-19.53	226	100	QP
2	45.0583	31.16	-10.89	20.27	40.00	-19.73	100	100	QP
3	50.9420	34.14	-11.07	23.07	40.00	-16.93	237	100	QP
4	77.0505	36.16	-15.15	21.01	40.00	-18.99	111	100	QP
5	132.6850	34.29	-14.90	19.39	40.00	-20.61	95	100	QP
6	175.6516	41.91	-14.19	27.72	40.00	-12.28	127	100	QP

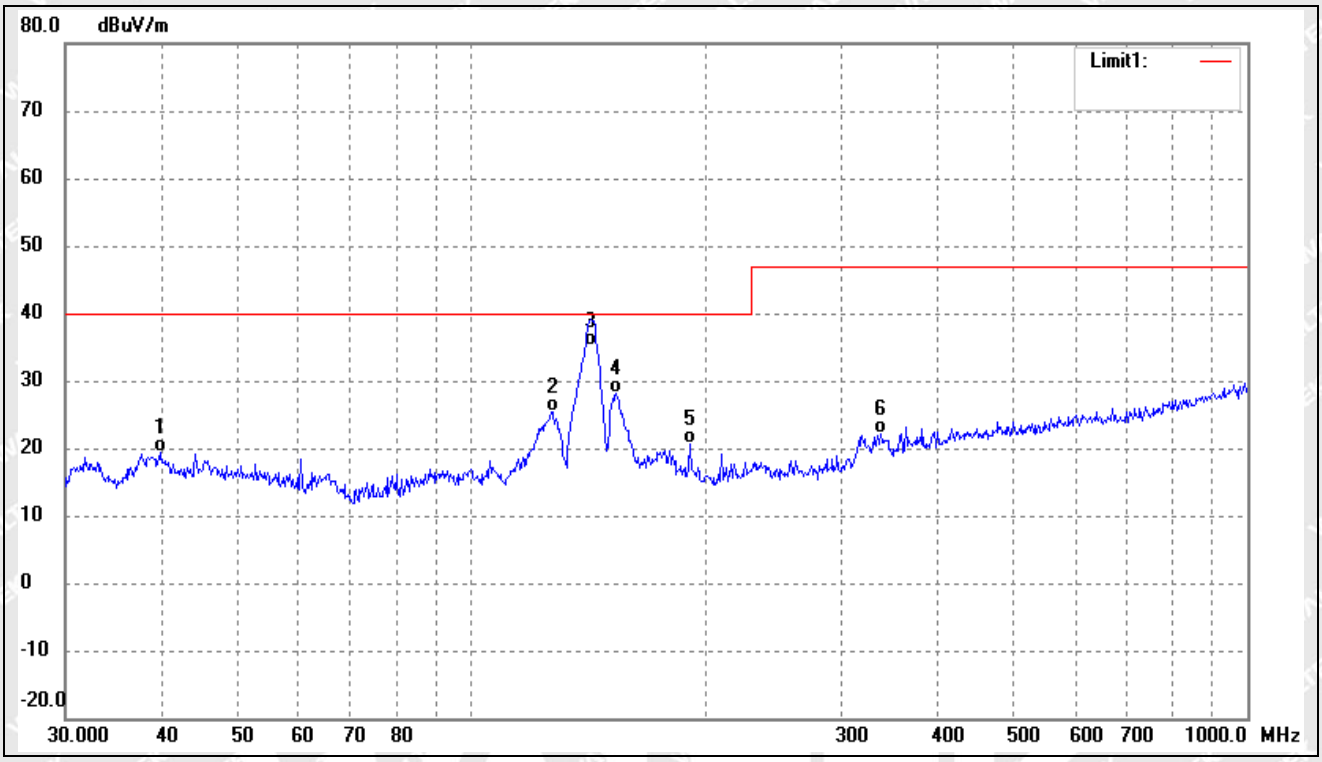
Test mode:	TM1	Polarity:	Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	33.3279	45.59	-12.09	33.50	40.00	-6.50	277	100	QP
2	50.5860	43.37	-11.00	32.37	40.00	-7.63	97	100	QP
3	78.9652	42.95	-15.16	27.79	40.00	-12.21	123	100	QP
4	86.8068	41.29	-13.62	27.67	40.00	-12.33	92	100	QP
5	153.7385	44.17	-15.12	29.05	40.00	-10.95	295	100	QP
6	170.7926	45.51	-14.39	31.12	40.00	-8.88	231	100	QP

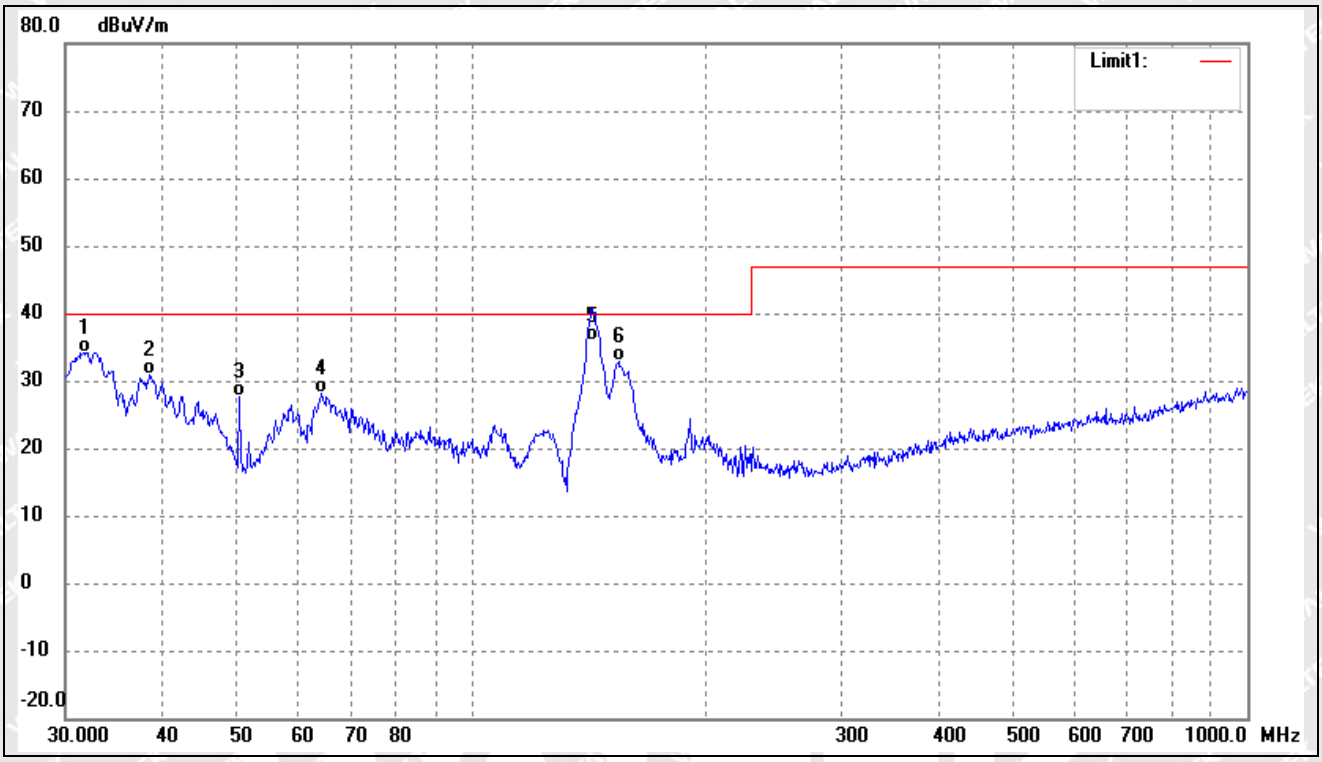
GT-46180-1605

Test mode:	TM2	Polarity:	Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	39.8542	30.32	-10.94	19.38	40.00	-20.62	308	100	QP
2	127.2176	40.03	-14.56	25.47	40.00	-14.53	344	100	QP
3	142.3244	50.31	-15.21	35.10	40.00	-4.90	89	100	QP
4	153.7385	43.19	-15.12	28.07	40.00	-11.93	209	100	QP
5	191.0738	33.28	-12.77	20.51	40.00	-19.49	296	100	QP
6	337.2155	30.38	-8.31	22.07	47.00	-24.93	318	100	QP

Test mode:	TM2	Polarity:	Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	31.7313	46.59	-12.37	34.22	40.00	-5.78	150	100	QP
2	38.4809	41.99	-11.17	30.82	40.00	-9.18	245	100	QP
3	50.2324	38.51	-10.93	27.58	40.00	-12.42	92	100	QP
4	64.2074	41.84	-13.79	28.05	40.00	-11.95	276	100	QP
5	143.3261	51.13	-15.23	35.90	40.00	-4.10	186	100	QP
6	154.8204	47.89	-15.06	32.83	40.00	-7.17	186	100	QP

5. Harmonic Current Emissions

5.1 Test Procedure

Test is conducted under the description of EN IEC 61000-3-2.

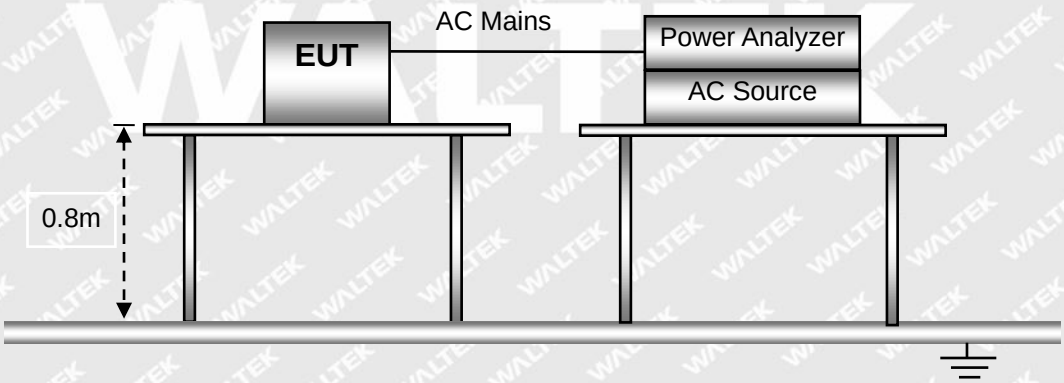
5.2 Test Standards

EN IEC 61000-3-2, Clause 7.2 Limits for Class A equipment.

5.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	52 %
ATM Pressure:	1013 mbar

5.4 Basic Test Setup Block Diagram



5.5 Harmonic Current Emissions Test Data

According to Clause 7 of EN IEC 61000-3-2, the rated power of the EUT is less than 75W, belong to ‘equipment with a rated power of 75W or less’, therefore ‘limits are not specified in this edition of the standards’. It is deem to full fit the requirements of the standards.

Result: The EUT is compliance with the requirements of this section.

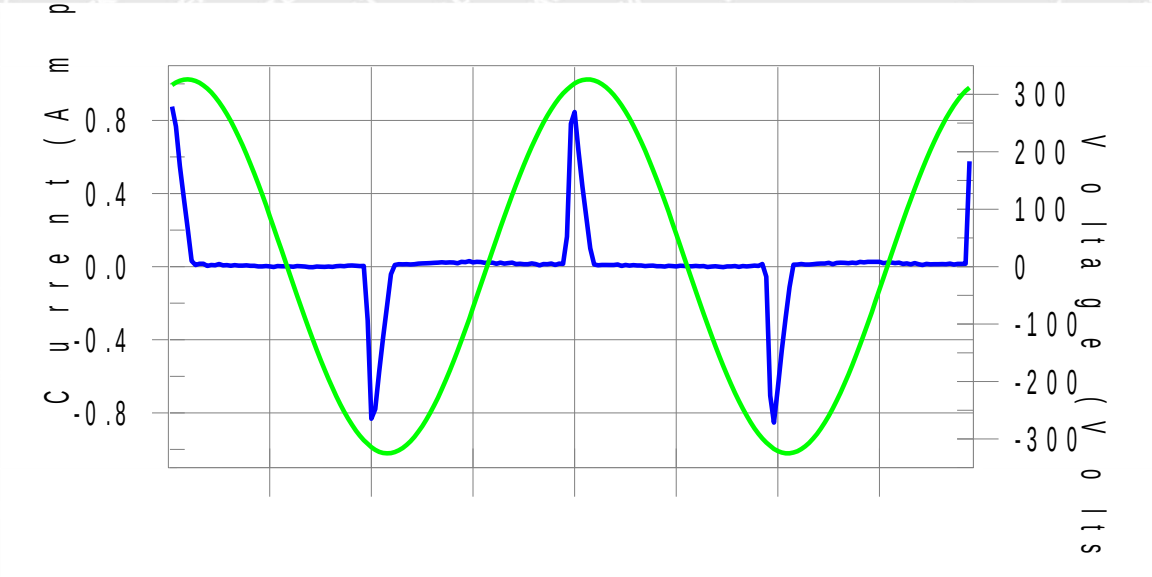
GT-46180-1824

Test mode:	TM1

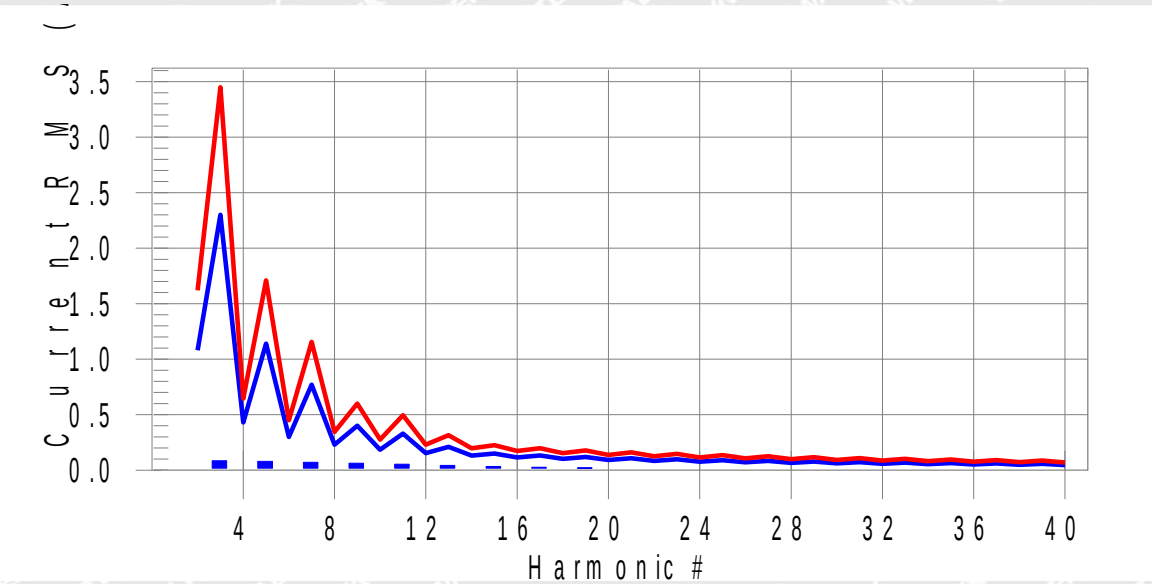
Harmonics – Class-A per IEC 61000-3-2:2018/AMD1:2020(Run time)

Test Result: Pass **Source qualification: Normal**

Current & voltage waveforms



Harmonics and Class A limit line **European Limits**



Test result: Pass Worst harmonics H15-15.3% of 150% limit, H15-22.8% of 100% limit

Current Test Result Summary (Run time)

Test Result: Pass **Source qualification: Normal**

THC(A): 0.176 **I-THD(%): 196.9** **POHC(A): 0.038** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	230.16	Frequency(Hz):	50.00
I_Peak (Amps):	0.897	I_RMS (Amps):	0.198
I_Fund (Amps):	0.089	Crest Factor:	4.553
Power (Watts):	19.9	Power Factor:	0.439

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	1.080	N/A	0.001	1.620	N/A	Pass
3	0.084	2.300	3.7	0.085	3.450	2.5	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.079	1.140	6.9	0.079	1.710	4.6	Pass
6	0.001	0.300	N/A	0.001	0.450	N/A	Pass
7	0.072	0.770	9.3	0.072	1.155	6.2	Pass
8	0.000	0.230	N/A	0.001	0.345	N/A	Pass
9	0.063	0.400	15.7	0.063	0.600	10.5	Pass
10	0.001	0.184	N/A	0.001	0.276	N/A	Pass
11	0.053	0.330	16.1	0.053	0.495	10.8	Pass
12	0.000	0.153	N/A	0.001	0.230	N/A	Pass
13	0.043	0.210	20.6	0.044	0.315	13.8	Pass
14	0.000	0.131	N/A	0.001	0.197	N/A	Pass
15	0.034	0.150	22.8	0.034	0.225	15.3	Pass
16	0.000	0.115	N/A	0.001	0.173	N/A	Pass
17	0.026	0.132	19.9	0.027	0.198	13.4	Pass
18	0.000	0.102	N/A	0.001	0.153	N/A	Pass
19	0.021	0.118	17.4	0.021	0.178	11.7	Pass
20	0.000	0.092	N/A	0.001	0.138	N/A	Pass
21	0.017	0.107	16.1	0.017	0.161	10.9	Pass
22	0.000	0.084	N/A	0.001	0.125	N/A	Pass
23	0.016	0.098	16.0	0.016	0.147	10.8	Pass
24	0.000	0.077	N/A	0.001	0.115	N/A	Pass
25	0.015	0.090	16.7	0.015	0.135	11.2	Pass
26	0.000	0.071	N/A	0.001	0.107	N/A	Pass
27	0.014	0.083	17.0	0.014	0.125	11.5	Pass
28	0.000	0.066	N/A	0.001	0.099	N/A	Pass
29	0.013	0.078	16.6	0.013	0.116	11.2	Pass
30	0.000	0.061	N/A	0.001	0.092	N/A	Pass
31	0.011	0.073	15.3	0.011	0.109	10.4	Pass

32	0.000	0.058	N/A	0.000	0.086	N/A	Pass
33	0.009	0.068	13.3	0.009	0.102	9.0	Pass
34	0.000	0.054	N/A	0.000	0.081	N/A	Pass
35	0.007	0.064	11.1	0.007	0.096	7.5	Pass
36	0.000	0.051	N/A	0.000	0.077	N/A	Pass
37	0.006	0.061	9.3	0.006	0.091	6.3	Pass
38	0.000	0.048	N/A	0.000	0.073	N/A	Pass
39	0.005	0.058	N/A	0.005	0.087	N/A	Pass
40	0.000	0.046	N/A	0.000	0.069	N/A	Pass

Voltage Source Verification Data (Run time)

Test Result: Pass **Source qualification: Normal**

Highest parameter values during test:

Voltage (Vrms):	230.16	Frequency(Hz):	50.00
I_Peak (Amps):	0.897	I_RMS (Amps):	0.198
I_Fund (Amps):	0.089	Crest Factor:	4.553
Power (Watts):	19.9	Power Factor:	0.439

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.065	0.460	14.07	OK
3	0.509	2.071	24.55	OK
4	0.073	0.460	15.77	OK
5	0.061	0.920	6.60	OK
6	0.034	0.460	7.30	OK
7	0.039	0.690	5.67	OK
8	0.015	0.460	3.24	OK
9	0.039	0.460	8.38	OK
10	0.008	0.460	1.79	OK
11	0.042	0.230	18.41	OK
12	0.010	0.230	4.36	OK
13	0.031	0.230	13.52	OK
14	0.007	0.230	3.24	OK
15	0.037	0.230	15.93	OK
16	0.009	0.230	4.05	OK
17	0.023	0.230	10.03	OK
18	0.009	0.230	3.98	OK
19	0.024	0.230	10.32	OK
20	0.015	0.230	6.73	OK
21	0.019	0.230	8.41	OK
22	0.005	0.230	2.03	OK
23	0.019	0.230	8.16	OK
24	0.004	0.230	1.53	OK
25	0.019	0.230	8.46	OK
26	0.003	0.230	1.36	OK
27	0.021	0.230	8.93	OK
28	0.004	0.230	1.63	OK
29	0.020	0.230	8.69	OK
30	0.004	0.230	1.62	OK
31	0.018	0.230	7.69	OK
32	0.003	0.230	1.33	OK

33	**0.016**	**0.230**	**7.03**	**OK**
34	**0.002**	**0.230**	**1.05**	**OK**
35	**0.013**	**0.230**	**5.83**	**OK**
36	**0.003**	**0.230**	**1.31**	**OK**
37	**0.013**	**0.230**	**5.44**	**OK**
38	**0.003**	**0.230**	**1.31**	**OK**
39	**0.010**	**0.230**	**4.34**	**OK**
40	**0.008**	**0.230**	**3.34**	**OK**

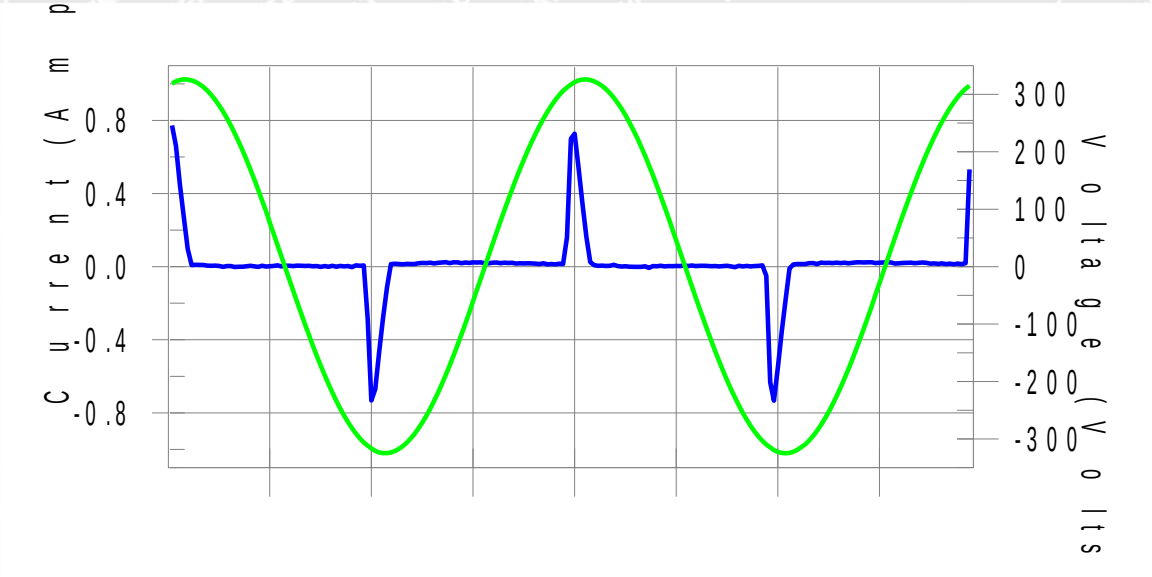
GT-46180-1605

Test mode:	TM2

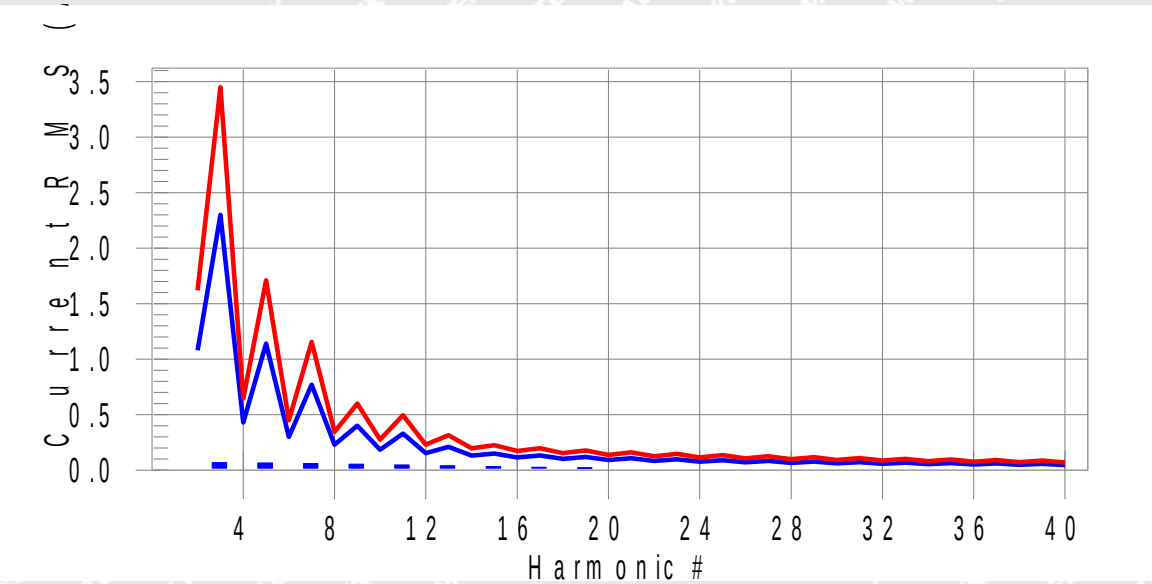
Harmonics – Class-A per IEC 61000-3-2:2018/AMD1:2020(Run time)

Test Result: Pass **Source qualification: Normal**

Current & voltage waveforms



Harmonics and Class A limit line **European Limits**



Test result: Pass Worst harmonics H15-14.7% of 150% limit, H15-21.9% of 100% limit

Current Test Result Summary (Run time)

Test Result: Pass **Source qualification: Normal**

THC(A): 0.150 **I-THD(%): 207.4** **POHC(A): 0.033** **POHC Limit(A): 0.251**

Highest parameter values during test:

V_RMS (Volts):	230.16	Frequency(Hz):	50.00
I_Peak (Amps):	0.790	I_RMS (Amps):	0.168
I_Fund (Amps):	0.072	Crest Factor:	4.720
Power (Watts):	16.1	Power Factor:	0.421

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.001	1.080	N/A	0.001	1.620	N/A	Pass
3	0.068	2.300	3.0	0.070	3.450	2.0	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.065	1.140	5.7	0.066	1.710	3.9	Pass
6	0.001	0.300	N/A	0.001	0.450	N/A	Pass
7	0.060	0.770	7.8	0.061	1.155	5.3	Pass
8	0.000	0.230	N/A	0.001	0.345	N/A	Pass
9	0.054	0.400	13.5	0.055	0.600	9.1	Pass
10	0.001	0.184	N/A	0.001	0.276	N/A	Pass
11	0.047	0.330	14.3	0.048	0.495	9.6	Pass
12	0.001	0.153	N/A	0.001	0.230	N/A	Pass
13	0.040	0.210	19.0	0.040	0.315	12.8	Pass
14	0.001	0.131	N/A	0.001	0.197	N/A	Pass
15	0.033	0.150	21.9	0.033	0.225	14.7	Pass
16	0.000	0.115	N/A	0.001	0.173	N/A	Pass
17	0.026	0.132	19.8	0.026	0.198	13.3	Pass
18	0.000	0.102	N/A	0.001	0.153	N/A	Pass
19	0.020	0.118	17.2	0.021	0.178	11.7	Pass
20	0.000	0.092	N/A	0.001	0.138	N/A	Pass
21	0.016	0.107	14.9	0.016	0.161	10.1	Pass
22	0.000	0.084	N/A	0.001	0.125	N/A	Pass
23	0.013	0.098	13.4	0.013	0.147	9.1	Pass
24	0.000	0.077	N/A	0.001	0.115	N/A	Pass
25	0.012	0.090	13.0	0.012	0.135	8.7	Pass
26	0.000	0.071	N/A	0.001	0.107	N/A	Pass
27	0.011	0.083	13.2	0.011	0.125	8.9	Pass
28	0.000	0.066	N/A	0.001	0.099	N/A	Pass
29	0.011	0.078	13.5	0.011	0.116	9.2	Pass
30	0.000	0.061	N/A	0.001	0.092	N/A	Pass
31	0.010	0.073	13.5	0.010	0.109	9.1	Pass

32	0.000	0.058	N/A	0.000	0.086	N/A	Pass
33	0.009	0.068	12.9	0.009	0.102	8.7	Pass
34	0.000	0.054	N/A	0.000	0.081	N/A	Pass
35	0.007	0.064	11.7	0.008	0.096	7.9	Pass
36	0.000	0.051	N/A	0.000	0.077	N/A	Pass
37	0.006	0.061	10.0	0.006	0.091	6.8	Pass
38	0.000	0.048	N/A	0.000	0.073	N/A	Pass
39	0.005	0.058	N/A	0.005	0.087	N/A	Pass
40	0.000	0.046	N/A	0.000	0.069	N/A	Pass

Voltage Source Verification Data (Run time)

Test Result: Pass **Source qualification: Normal**

Highest parameter values during test:

Voltage (Vrms):	230.16	Frequency(Hz):	50.00
I_Peak (Amps):	0.790	I_RMS (Amps):	0.168
I_Fund (Amps):	0.072	Crest Factor:	4.720
Power (Watts):	16.1	Power Factor:	0.421

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.066	0.460	14.25	OK
3	0.516	2.071	24.93	OK
4	0.075	0.460	16.34	OK
5	0.059	0.920	6.44	OK
6	0.035	0.460	7.54	OK
7	0.036	0.690	5.26	OK
8	0.016	0.460	3.39	OK
9	0.037	0.460	7.97	OK
10	0.008	0.460	1.81	OK
11	0.041	0.230	17.93	OK
12	0.011	0.230	4.80	OK
13	0.033	0.230	14.45	OK
14	0.008	0.230	3.67	OK
15	0.035	0.230	15.33	OK
16	0.009	0.230	3.92	OK
17	0.021	0.230	9.12	OK
18	0.010	0.230	4.26	OK
19	0.028	0.230	12.00	OK
20	0.016	0.230	7.03	OK
21	0.021	0.230	8.92	OK
22	0.005	0.230	2.11	OK
23	0.018	0.230	7.98	OK
24	0.003	0.230	1.42	OK
25	0.016	0.230	7.07	OK
26	0.003	0.230	1.31	OK
27	0.020	0.230	8.77	OK
28	0.004	0.230	1.75	OK
29	0.015	0.230	6.34	OK
30	0.004	0.230	1.87	OK
31	0.016	0.230	6.98	OK
32	0.003	0.230	1.23	OK

33	**0.015**	**0.230**	**6.56**	**OK**
34	**0.002**	**0.230**	**1.02**	**OK**
35	**0.014**	**0.230**	**5.91**	**OK**
36	**0.003**	**0.230**	**1.25**	**OK**
37	**0.014**	**0.230**	**6.00**	**OK**
38	**0.003**	**0.230**	**1.31**	**OK**
39	**0.013**	**0.230**	**5.58**	**OK**
40	**0.008**	**0.230**	**3.32**	**OK**

6. Voltage Fluctuation Flicker

6.1 Test Procedure

Test is conducted under the description of EN 61000-3-3.

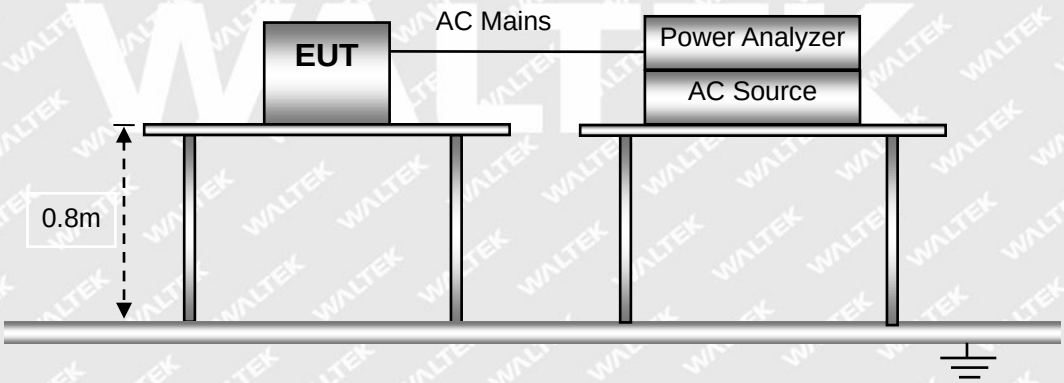
6.2 Test Standards

EN 61000-3-3, Limit: Clause 5.

6.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	52 %
ATM Pressure:	1013 mbar

6.4 Basic Test Setup Block Diagram



6.5 Voltage Fluctuation and Flicker Test Data

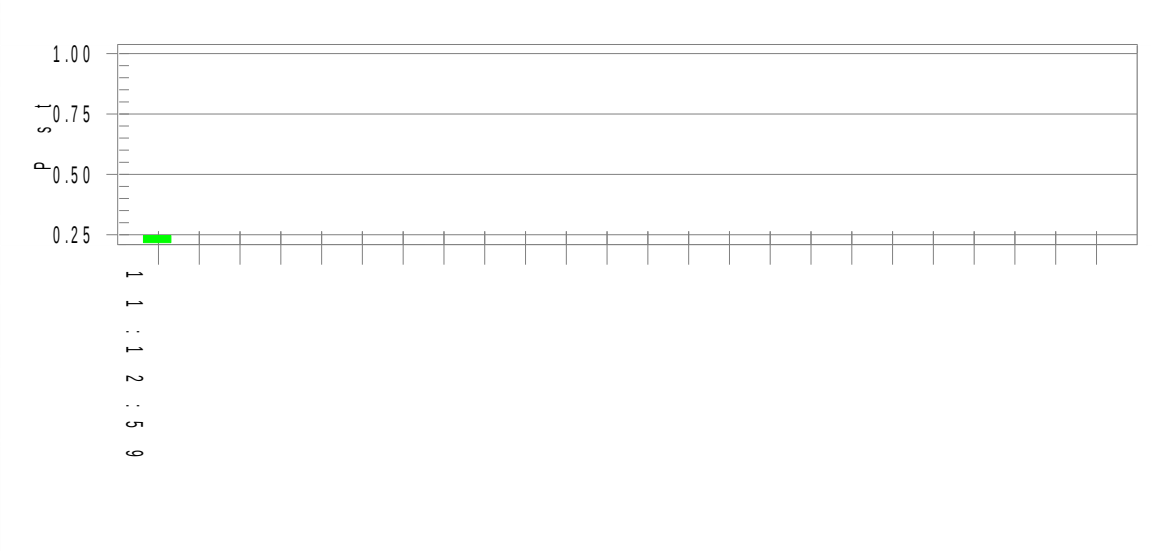
GT-46180-1824

Test mode:	TM1

Flicker Test Summary per IEC61000-3-3:2013/AMD1:2017 (Run time)

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):	**230.08**			
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):	**0.247**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.108**	**Test limit:**	**0.650**	**Pass**

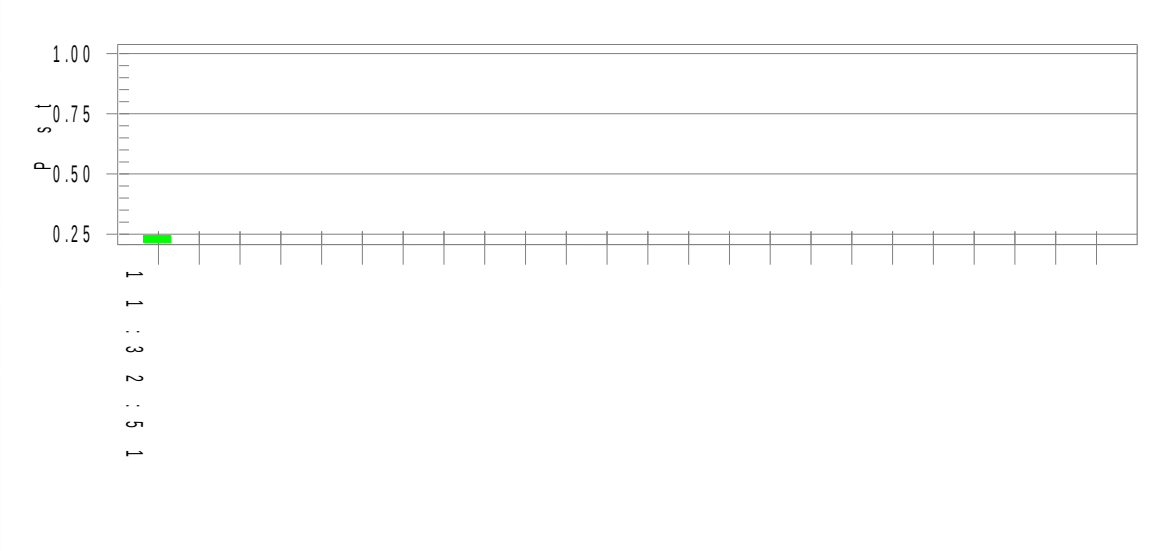
GT-46180-1605

Test mode:	TM2

Flicker Test Summary per IEC61000-3-3:2013/AMD1:2017 (Run time)

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):	**230.03**			
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):	**0.244**	**Test limit:**	**1.000**	**Pass**
Highest Plt (2 hr. period):	**0.107**	**Test limit:**	**0.650**	**Pass**

7. Electrostatic Discharges (ESD)

7.1 Test Procedure

Test is conducted under the description of EN 61000-4-2.

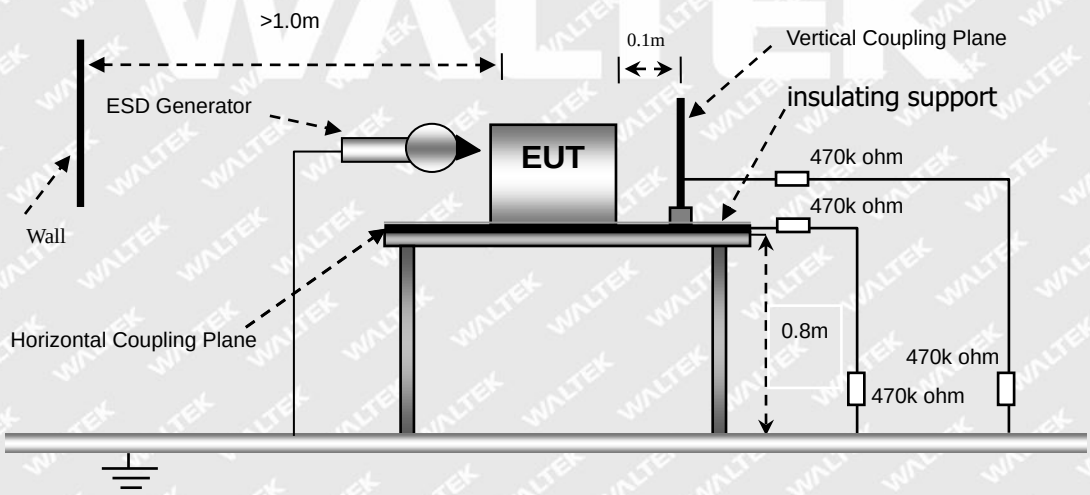
7.2 Test Performance

Performance Criterion: B

7.3 Environmental Conditions

Temperature:	20.5 °C
Relative Humidity:	47 %
ATM Pressure:	1012 mbar

7.4 Basic Test Setup Block Diagram



7.5 Electrostatic Discharge Immunity Test Data

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2	Test Voltage (kV)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
shell	A	A	A	A	A	A	A	A	/	/
gap	A	A	A	A	A	A	A	A	/	/

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2	Test Voltage (kV)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Output port	A	A	A	A	/	/	/	/	/	/

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP & VCP)

EN 61000-4-2	Test Voltage (kV)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
HCP (6 Sides)	A	A	A	A	/	/	/	/	/	/
VCP (4 Sides)	A	A	A	A	/	/	/	/	/	/

Test Result: Pass

8. Continuous RF Electromagnetic Field Disturbances (RS)

8.1 Test Procedure

Test is conducted under the description of EN 61000-4-3.

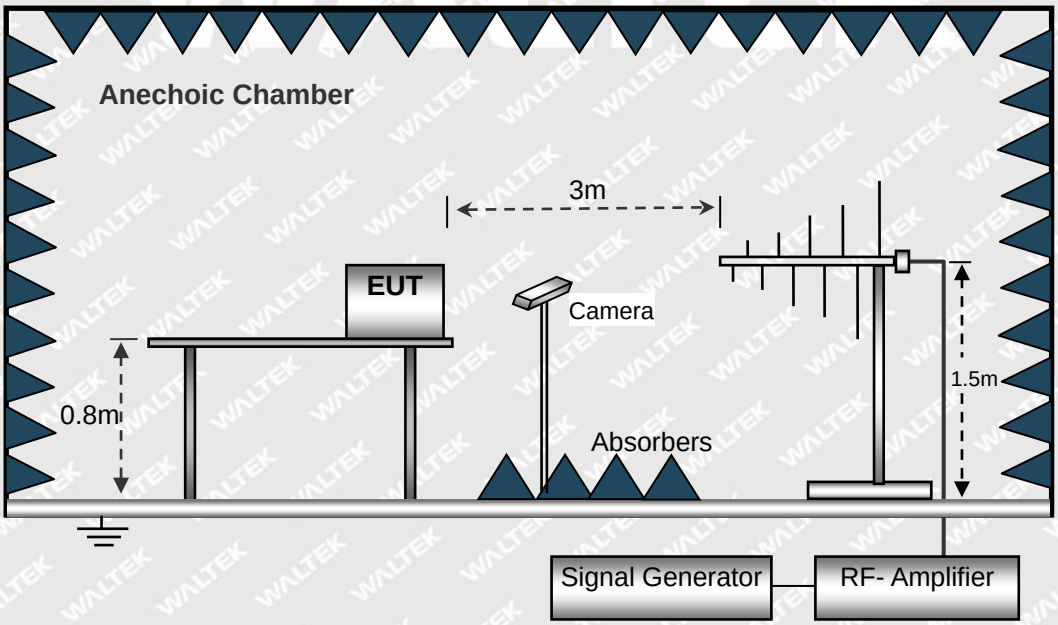
8.2 Test Performance

Performance Criterion: A

8.3 Environmental Conditions

Temperature:	23.0 °C
Relative Humidity:	54 %
ATM Pressure:	1011 mbar

8.4 Basic Test Setup Block Diagram



8.5 Continuous Radiated Disturbances Test Data

Frequency step: 1% of fundamental
Dwell time: 1 second
Modulation: AM by 1kHz sine wave with 80% modulation depth

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	3	A	A	A	A	A	A	A	A

Spot frequencies (MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
1800	3	A	A	A	A	A	A	A	A
2600	3	A	A	A	A	A	A	A	A
3500	3	A	A	A	A	A	A	A	A
5000	3	A	A	A	A	A	A	A	A

Test Result: Pass

9. Electrical Fast Transients (EFT)

9.1 Test Procedure

Test is conducted under the description of EN 61000-4-4.

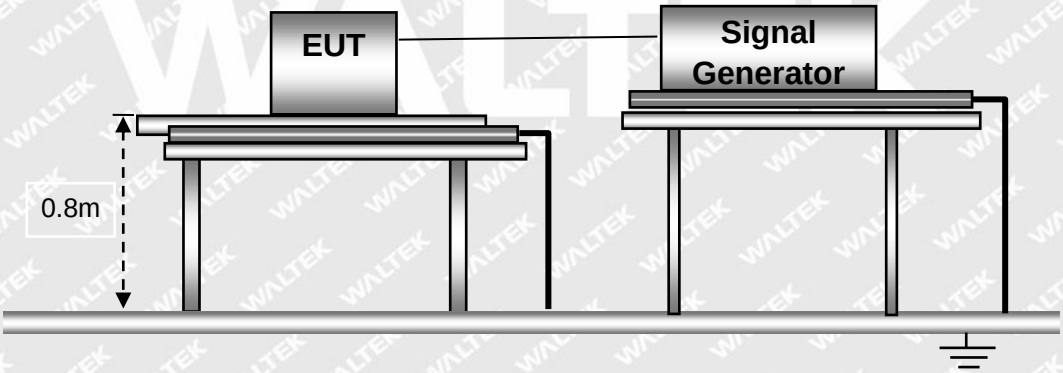
9.2 Test Performance

Performance Criterion: B

9.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	51 %
ATM Pressure:	1011 mbar

9.4 Basic Test Setup Block Diagram



9.5 Electrical Fast Transients Test Data

EN 61000-4-4 Test Points		Test Voltage (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
Power Supply Power Port of EUT	L1	/	/	A	A	/	/	/	/
	L2	/	/	A	A	/	/	/	/
	PE	/	/	/	/	/	/	/	/
	L1+L2	/	/	A	A	/	/	/	/
	L1 + PE	/	/	/	/	/	/	/	/
	L2 + PE	/	/	/	/	/	/	/	/
	L1+L2+PE	/	/	/	/	/	/	/	/
Signal ports	RJ45	/	/	/	/	/	/	/	/

Test Result: Pass

10. Surges

10.1 Test Procedure

Test is conducted under the description of EN 61000-4-5.

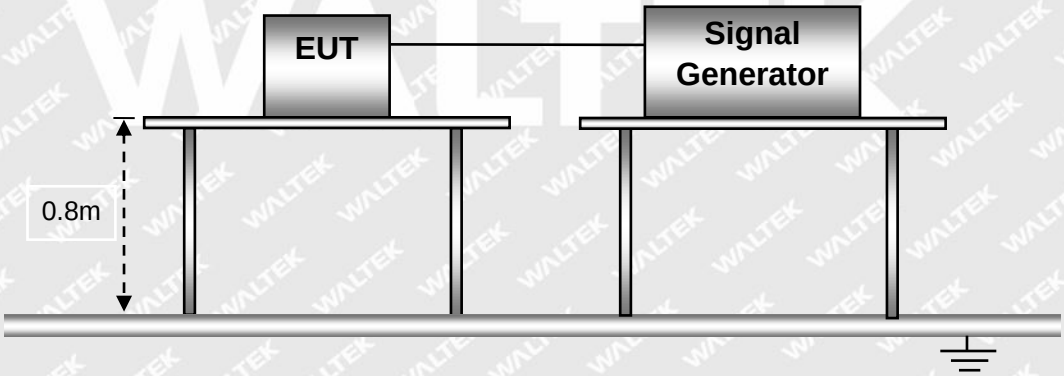
10.2 Test Performance

Performance Criterion: B

10.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	51 %
ATM Pressure:	1013 mbar

10.4 Basic Test Setup Block Diagram



10.5 Surge Test Data

AC Port

Test Voltage (kV)	Poll	Path	Pass	Fail
0.5kV	±	L-N	/	/
1kV	±	L-N	A	/
2kV	±	L-PE, N-PE	/	/
4kV	±	L-N, L-PE, N-PE	/	/

Test Result: Pass

11. Continuous Induced RF Disturbances (C/S)

11.1 Test Procedure

Test is conducted under the description of EN 61000-4-6.

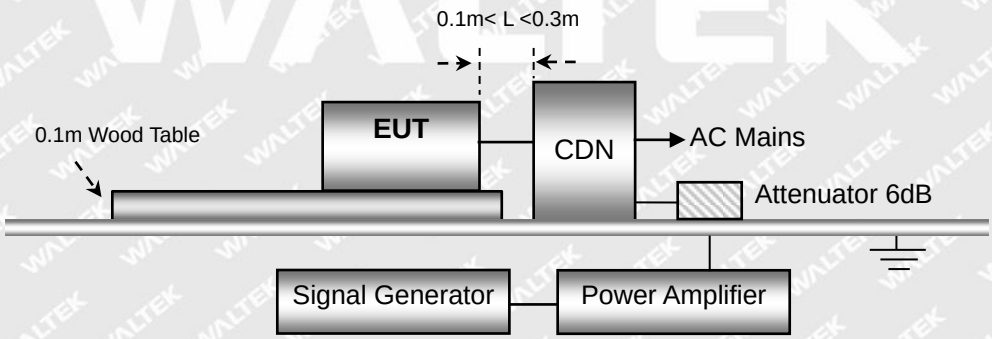
11.2 Test Performance

Performance Criterion: A

11.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	53 %
ATM Pressure:	1013 mbar

11.4 Basic Test Setup Block Diagram



11.5 Continuous Conducted Disturbances Test Data

Sweep frequency range: 0.15MHz to 10MHz 3V; 10MHz to 30MHz 3V to 1V; 30MHz to 80MHz 1V
Frequency step: 1% of fundamental
Dwell time: 1 second

AC Port

Frequency MHz	Injected Position	Voltage level (e.m.f.)	Observations (Performance Criterion)	Result
0.15-10	AC Mains	3V	A	Pass
10-30	AC Mains	3-1V	A	Pass
30-80	AC Mains	1V	A	Pass

Test Result: Pass

12. Power-Frequency Magnetic Fields (PFMF)

12.1 Test Procedure

Test is conducted under the description of EN 61000-4-8.

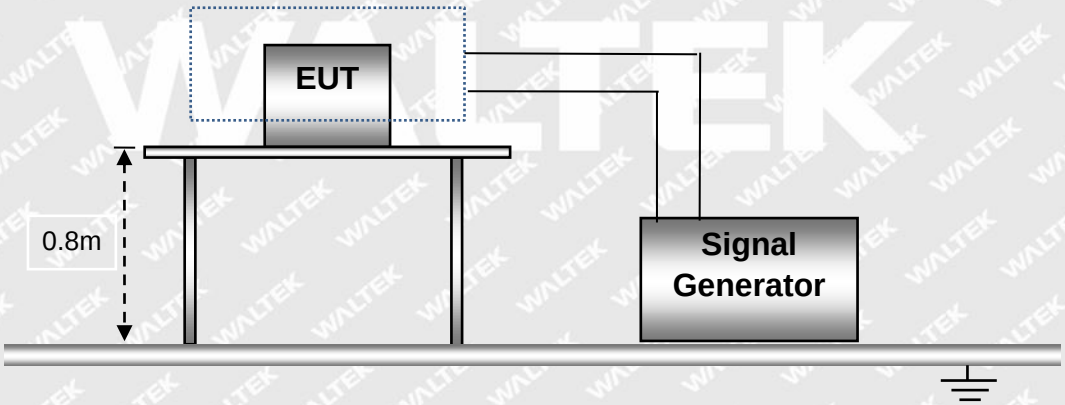
12.2 Test Performance

Performance Criterion: A

12.3 Environmental Conditions

Temperature:	23.0 °C
Relative Humidity:	52 %
ATM Pressure:	1013 mbar

12.4 Basic Test Setup Block Diagram



12.5 Power-Frequency Magnetic Field Test Data

Level	Magnetic Field Strength (r.m.s) A/m	Frequency Hz	Induction Coil Postion	Pass	Fail
1	1	50	X, Y, Z	A	/
2	3	50	X, Y, Z	/	/
3	10	50	X, Y, Z	/	/
X	Special	/	/	/	/

Test Result: Pass

13. Voltage Dips and Interruptions

13.1 Test Procedure

Test is conducted under the description of EN 61000-4-11.

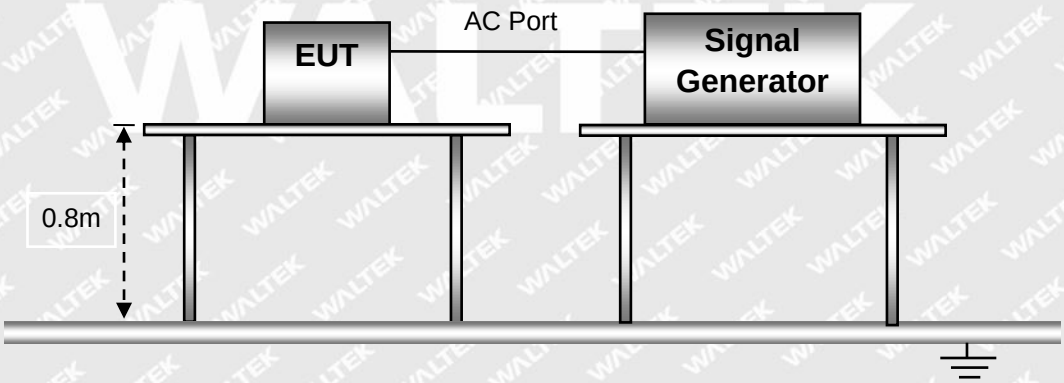
13.2 Test Performance

Performance Criterion: B/C

13.3 Environmental Conditions

Temperature:	22.5 °C
Relative Humidity:	51 %
ATM Pressure:	1012 mbar

13.4 Basic Test Setup Block Diagram



13.5 Voltage Dips And Interruptions Test Data

U: Vlotage dips in % U_T (U_T is rated voltage for the EUT)

T: Test duration

Level	U	T	Phase Angle	N	Pass	Fail
1	100%	10ms	0/90/180/270	3	B	/
2	30%	500ms	0/90/180/270	3	B	/
3	100%	5000ms	0/90/180/270	3	B	/

Test Result: Pass

EXHIBIT 1 - PRODUCT LABELING

Proposed CE Label Format

ITE Power Supply

Model: GT-46180-WWVV-X.XX****** series (Replaceable plug), GT-46182-WWVV-X.XX-W2Z****** series (Fixed plug)

Brand: GlobTek, Inc.

Importer Name: XXX

Importer Address: XXX

1: GlobTek, Inc.

2: GlobTek (Suzhou) Co., Ltd

1: 186 Veterans Dr. Northvale, NJ 07647 USA

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

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.

Proposed Label Location on EUT

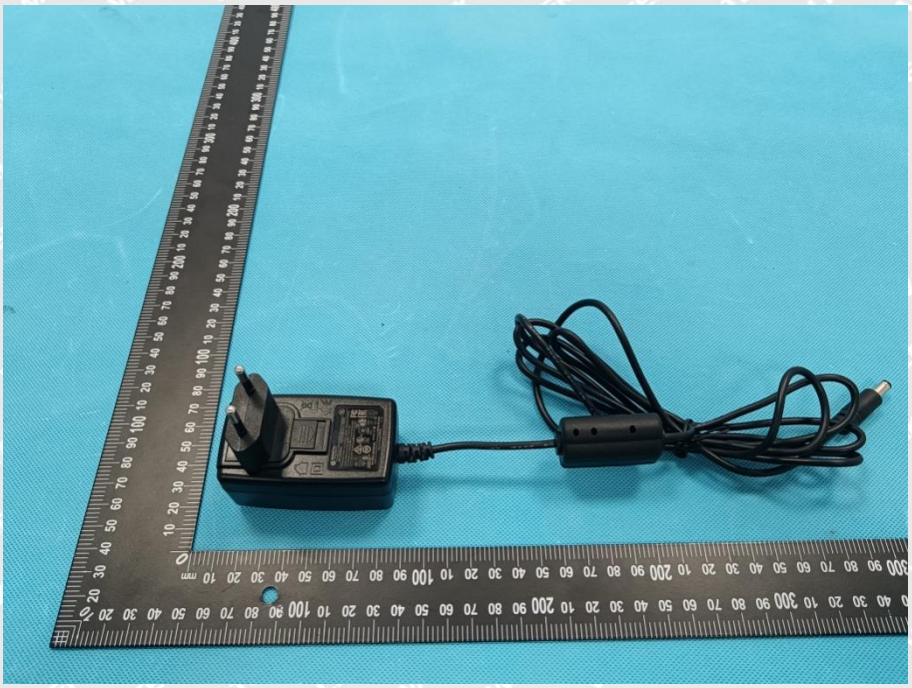
CE Label Location

EXHIBIT 2 - EUT PHOTOGRAPHS

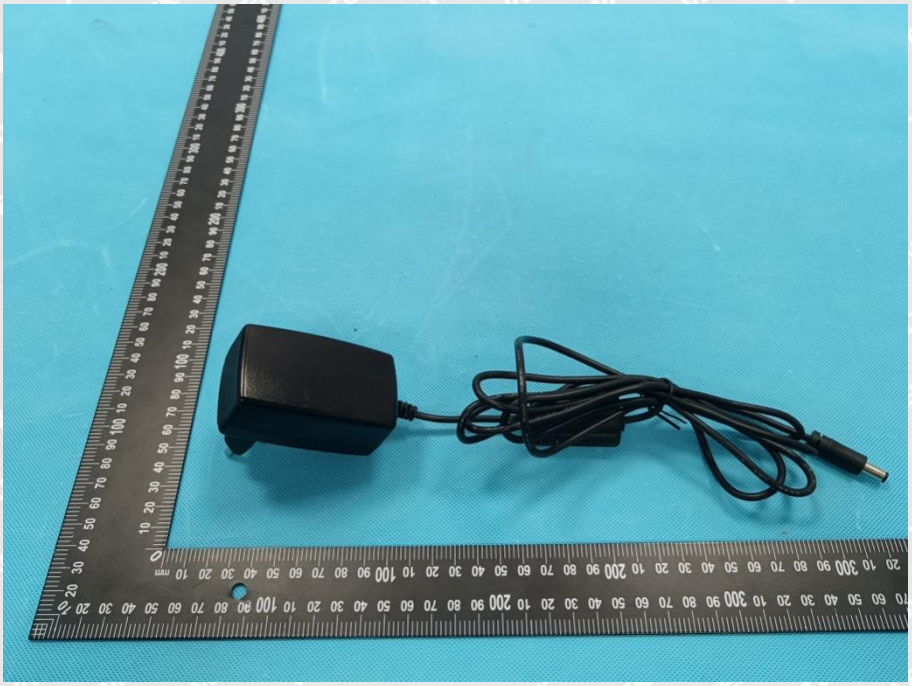
GT-46180-1824

EUT View 1

EUT View 2



EUT View 3

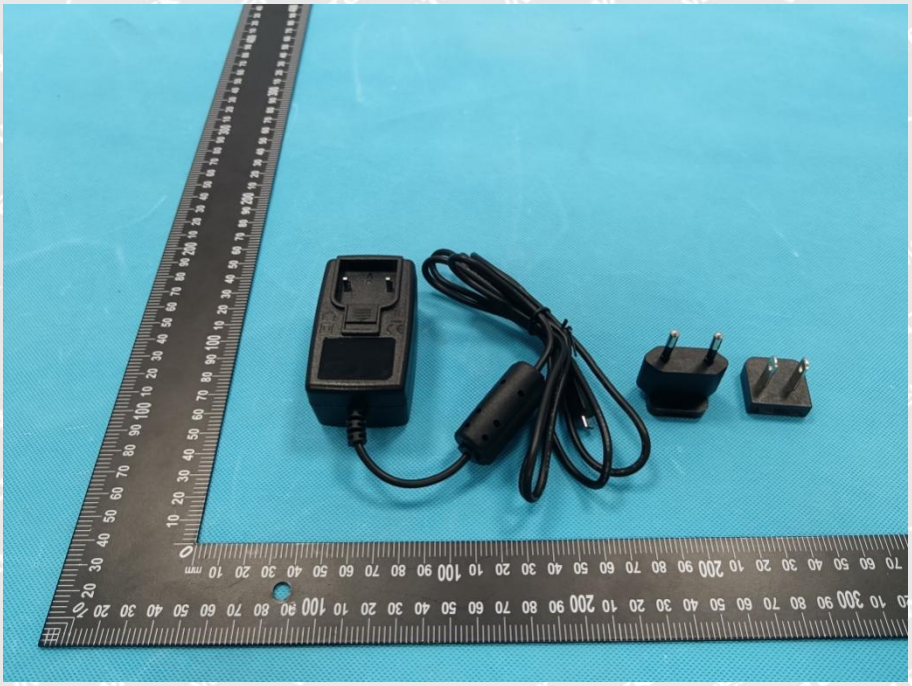


EUT View 4

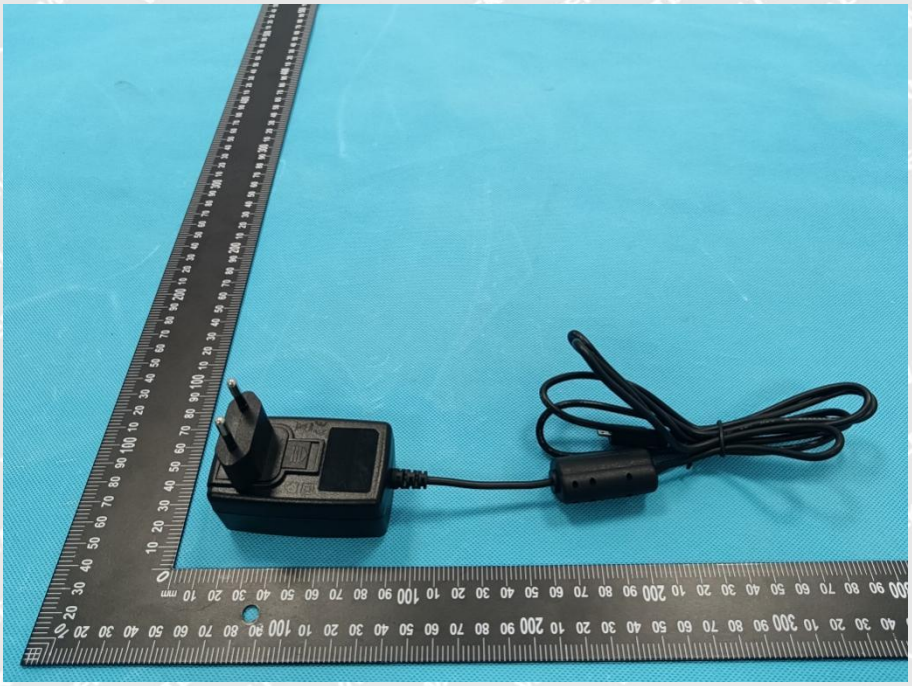
EUT View 5

GT-46180-1605
EUT View 1

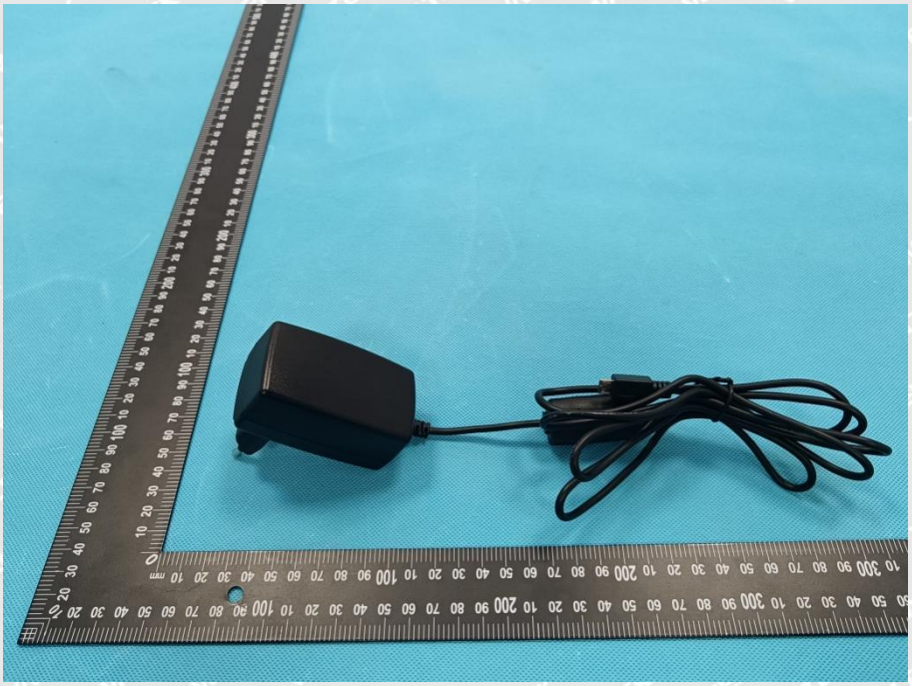
EUT View 2



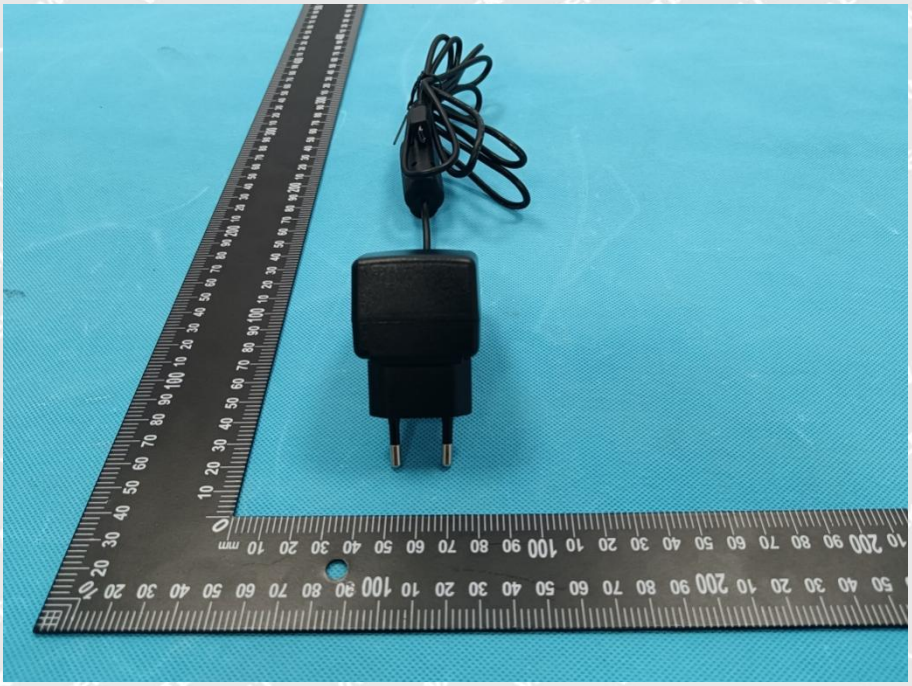
EUT View 3



EUT View 4



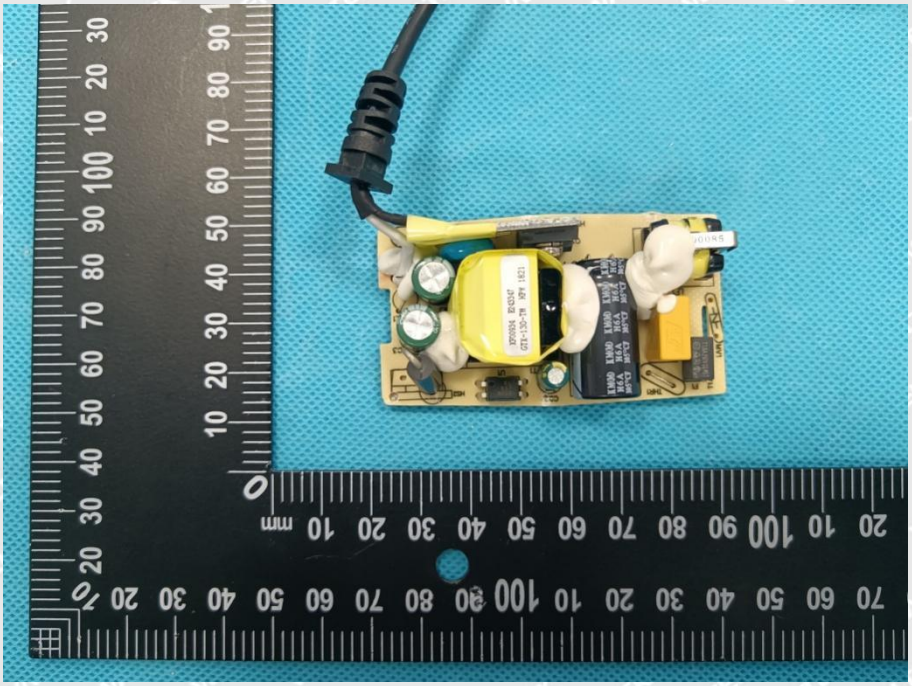
EUT View 5



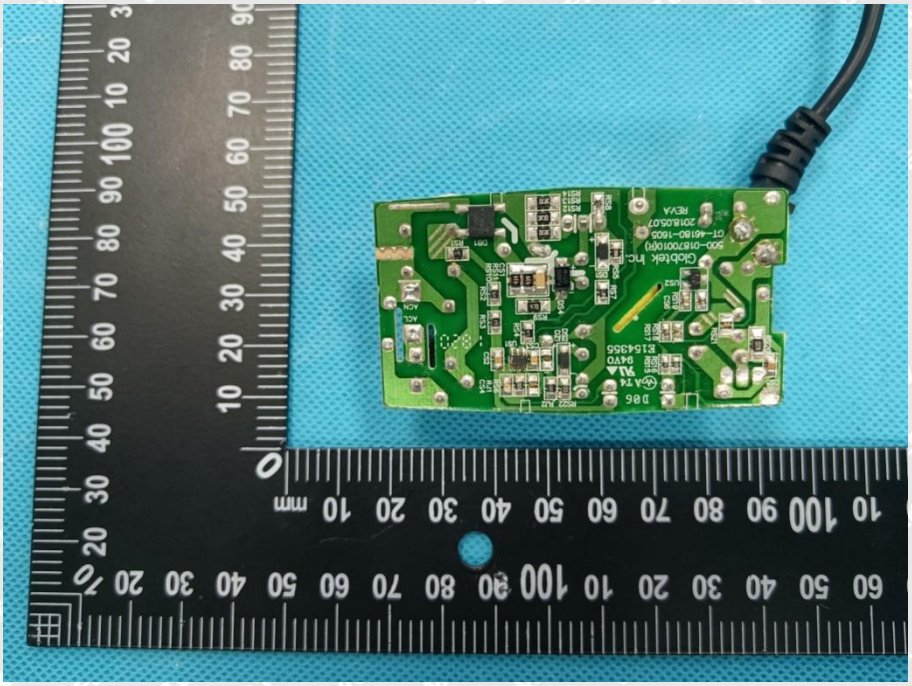
EUT View 6

GT-46180-1824

Solder Board-Component View 1



Solder Board-Component View 2



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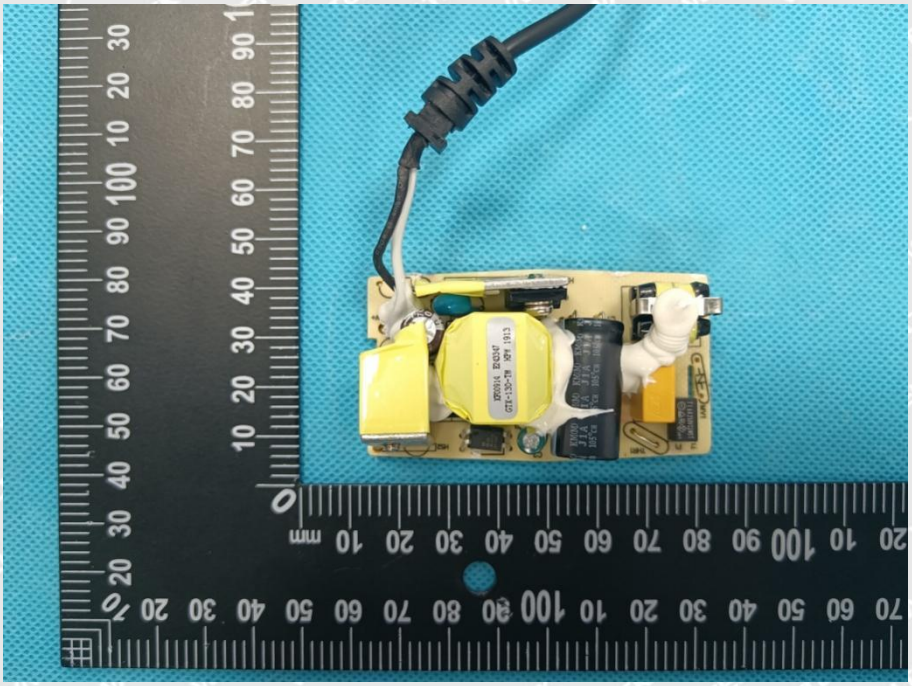
Solder Board-Component View 1



Solder Board-Component View 2

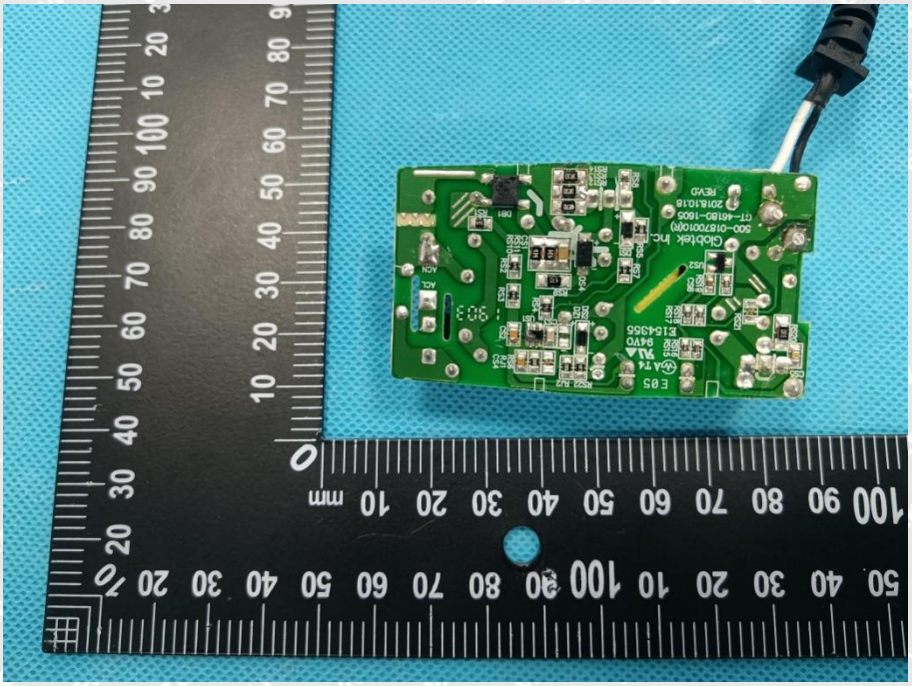
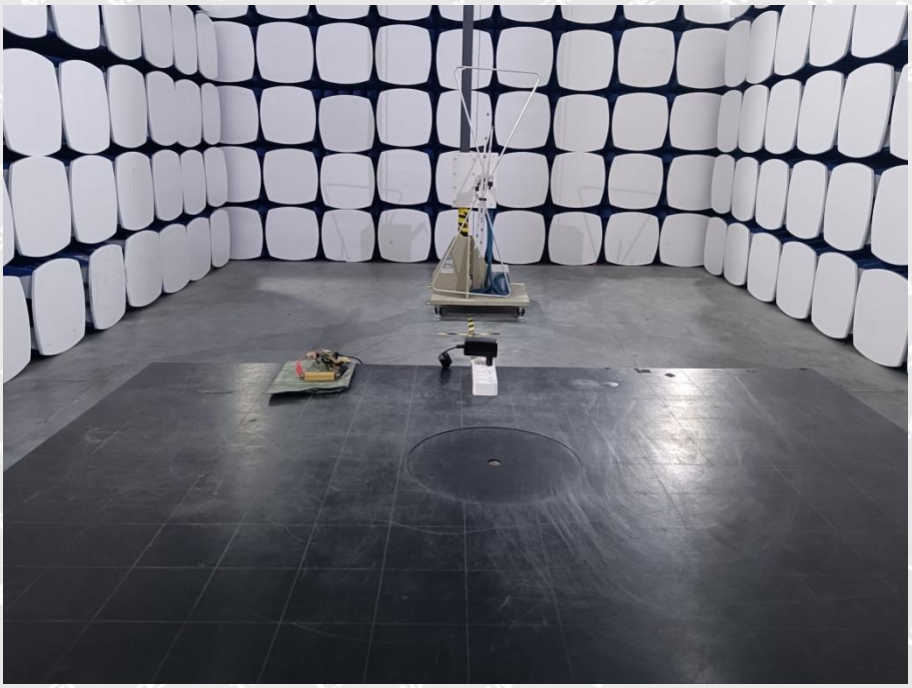


EXHIBIT 3 - TEST SETUP PHOTOGRAPHS

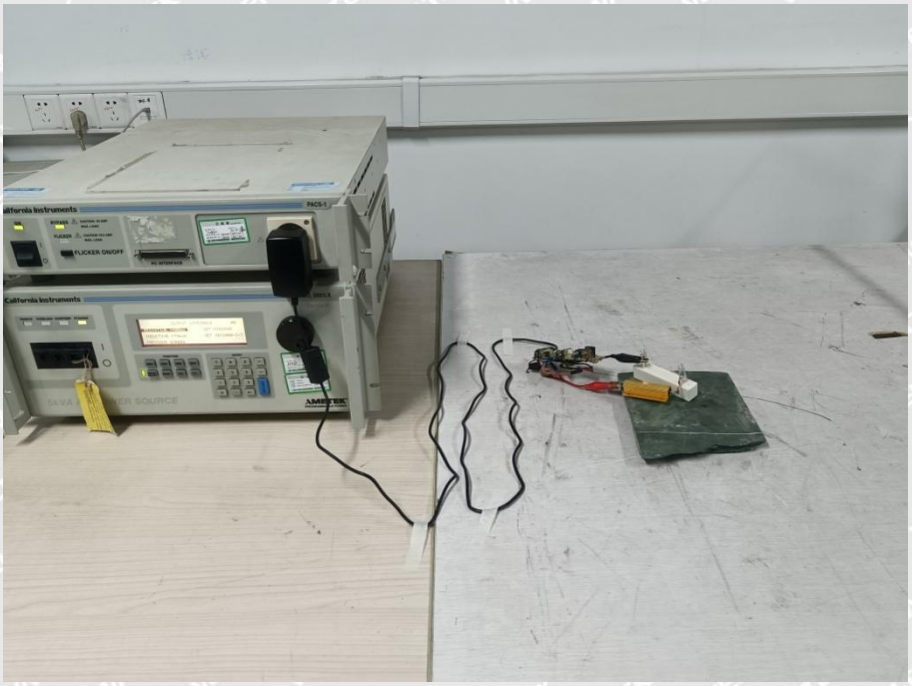
GT-46180-1824

Conduction Emission Test View

Radiation Emission Test View

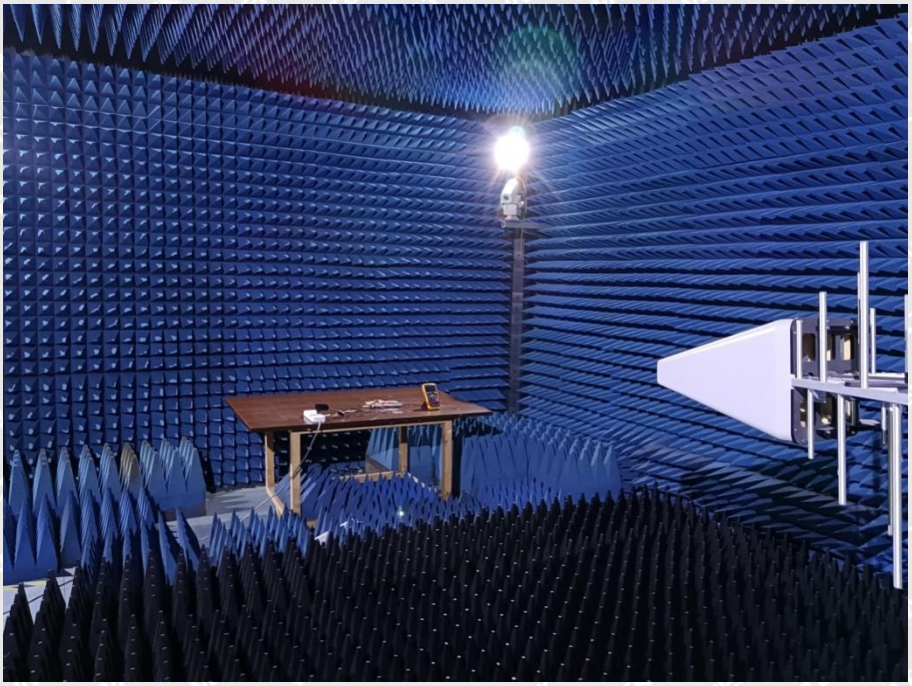


Harmonic/Flicker Test View

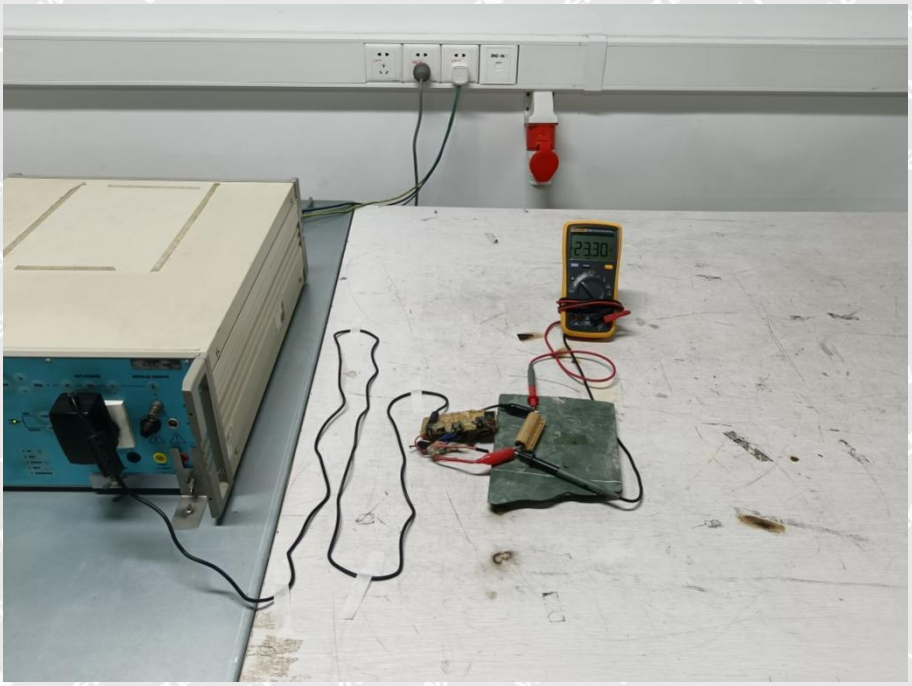


EN 61000-4-2 Test View

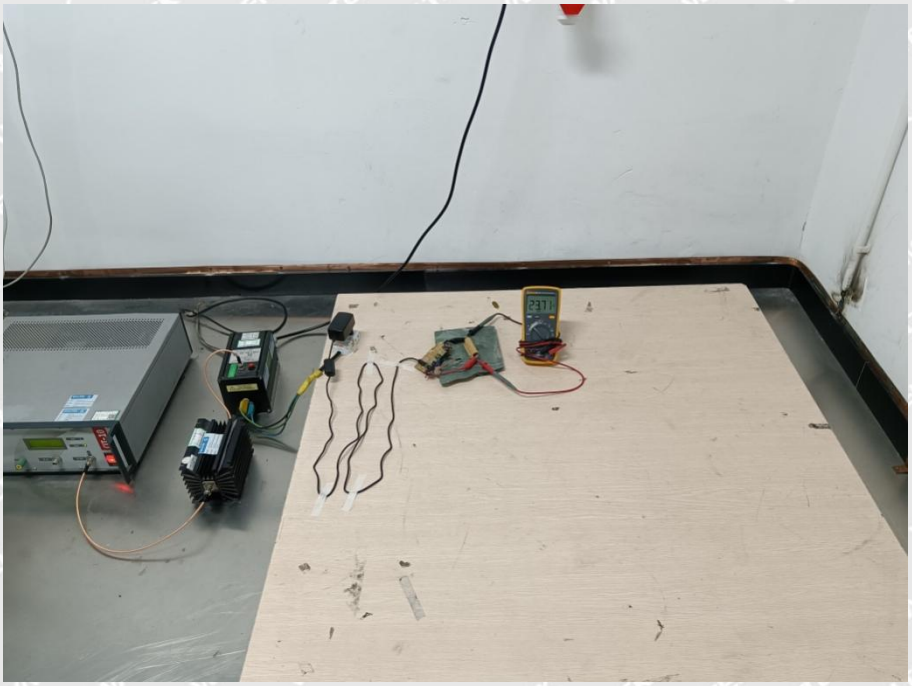
EN 61000-4-3 Test View



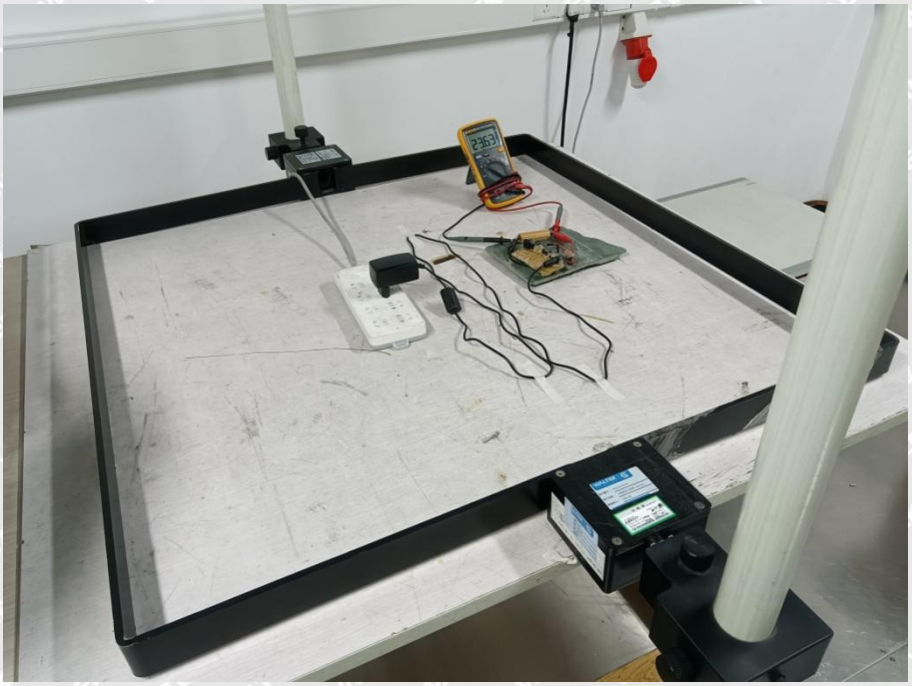
EN 61000-4-4/5/11 Test View



EN 61000-4-6 Test View



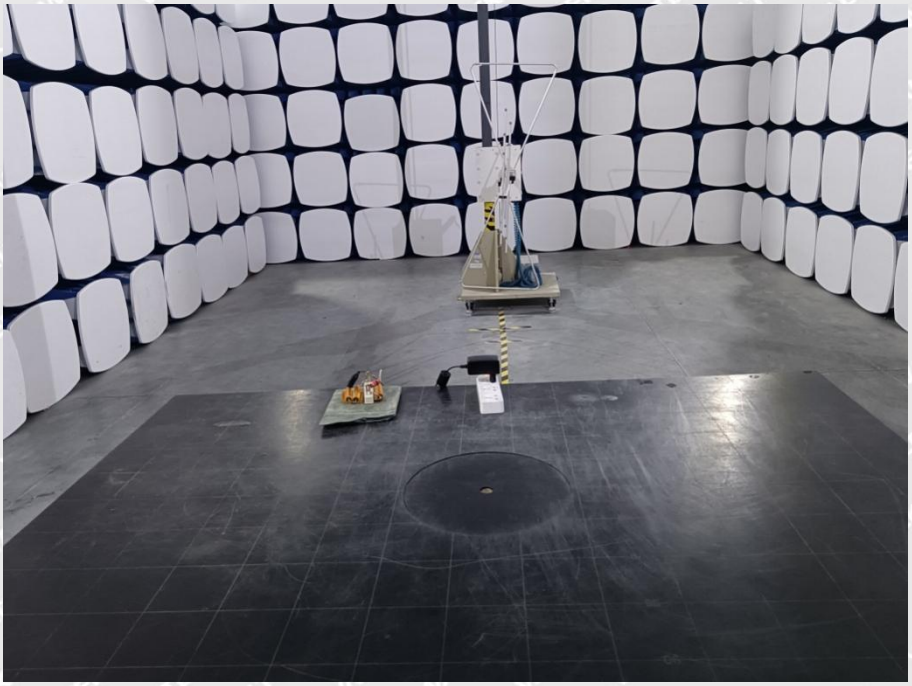
EN 61000-4-8 Test View



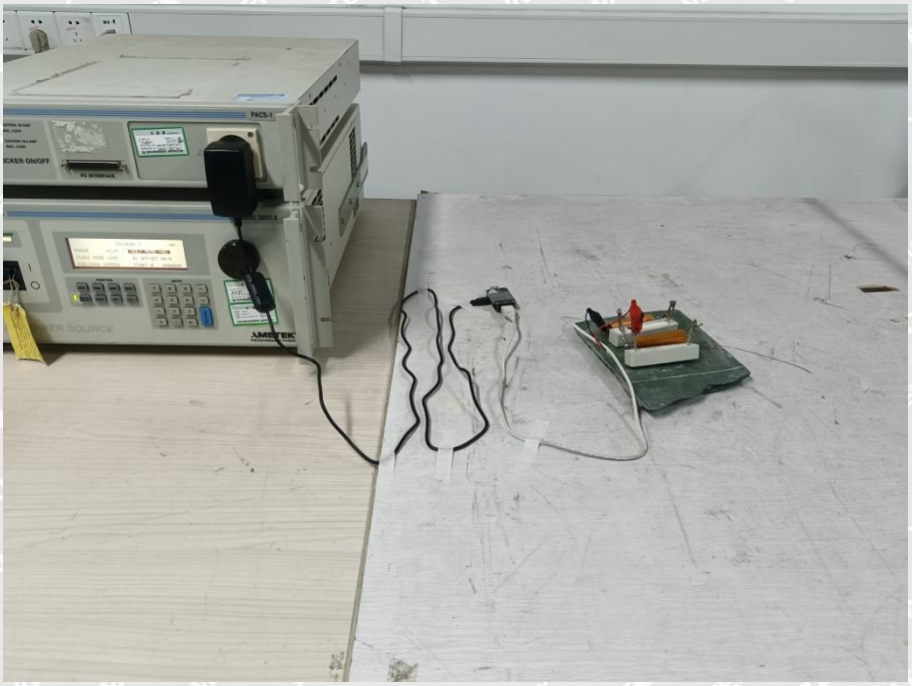
GT-46180-1605

Conduction Emission Test View

Radiation Emission Test View

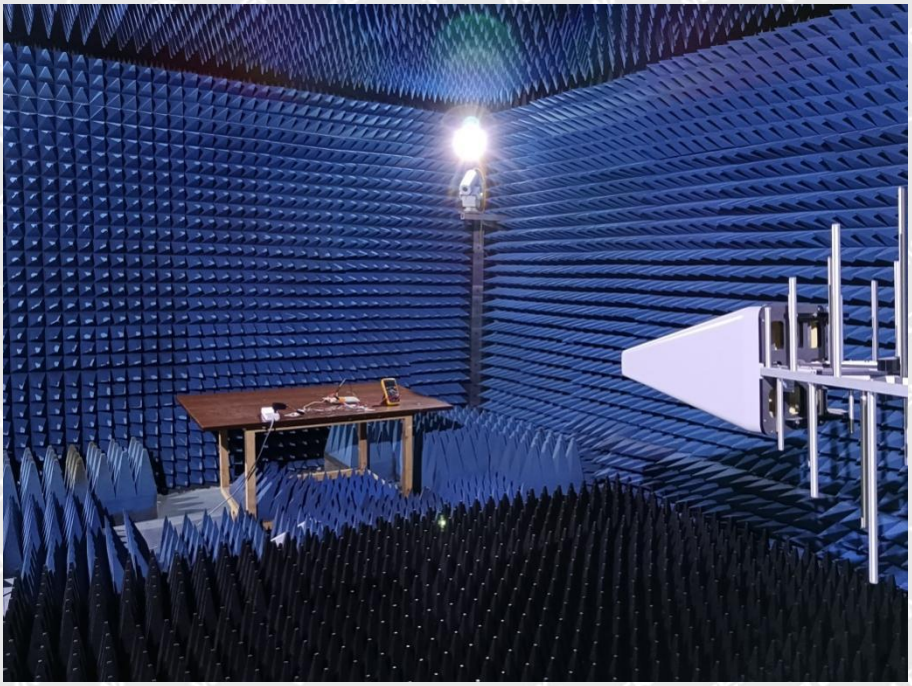


Harmonic/Flicker Test View

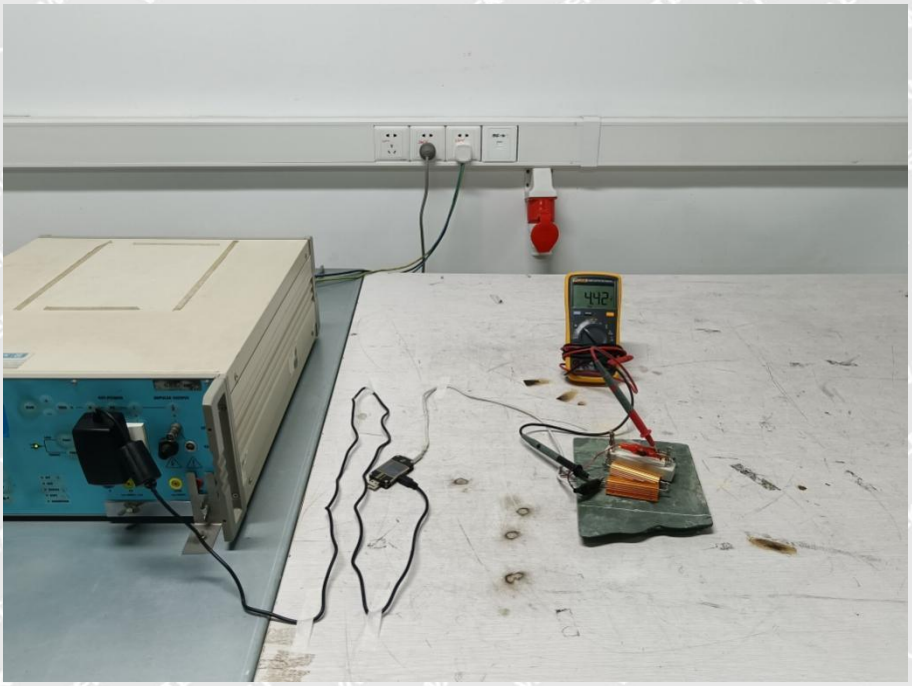


EN 61000-4-2 Test View

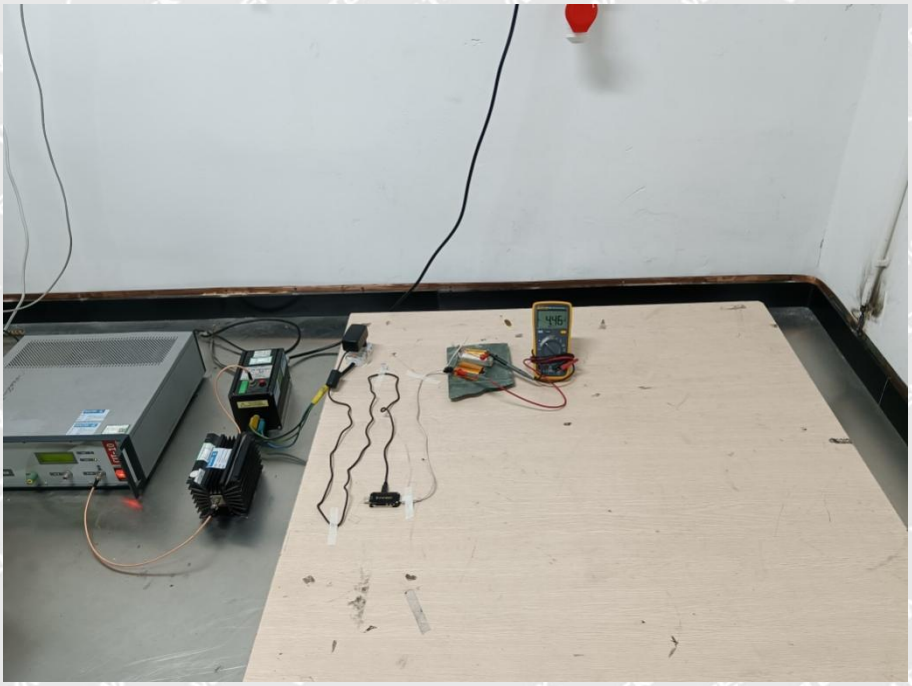
EN 61000-4-3 Test View



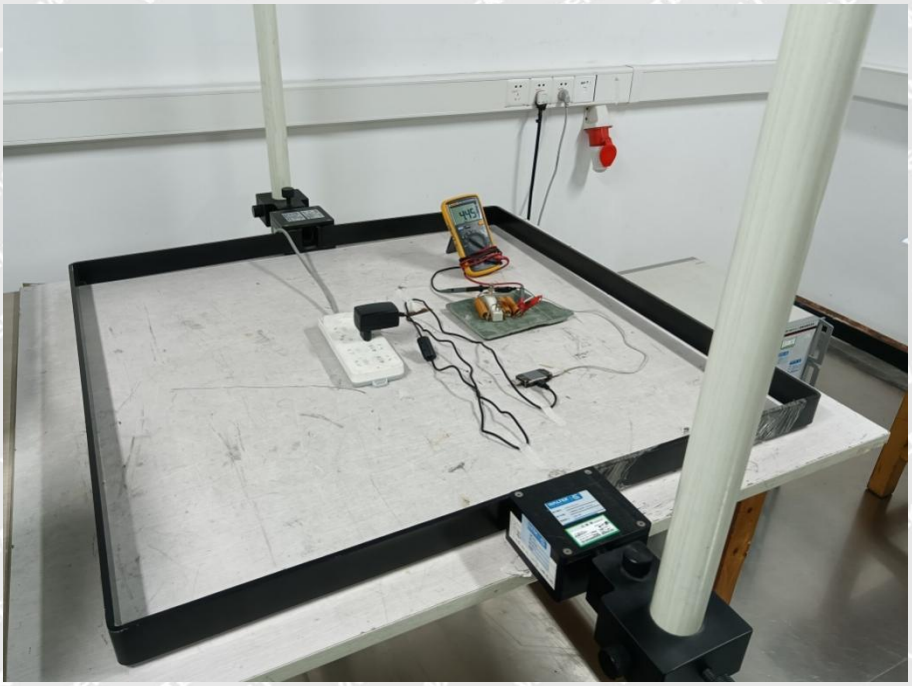
EN 61000-4-4/5/11 Test View



EN 61000-4-6 Test View



EN 61000-4-8 Test View



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