



EMC TEST REPORT

Report Reference No..... : ZKT-22E

Date of issue..... : Nov. 29, 2022

Total number of pages..... 30

Testing Laboratory..... : **Shenzhen ZKT Technology Co., Ltd.**

Address..... : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name..... : **Wenzhou Junyu Technology Co., Ltd.**

Address..... : Room 902-3, Jinyu Business Building, Wenzhou Avenue, Nanhui Street, Lucheng District, Wenzhou City, Zhejiang Province, China.

Test specification:

Standards..... : EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019
EN 61000-3-3:2013+A1:2019

Non-standard test method..... : N/A

Test Report Form No..... : --

Test Report Form(s) Originator..... : ZKT Testing

Master TRF..... : Dated: 2017-06

This test report is specially limited to the above client company and product model only. It may not be duplicated without prior written consent of ZKT Test.

Test item description..... : Massage paste

Trade Mark..... : /

Manufacturer..... : Wenzhou Junyu Technology Co., Ltd.

Room 902-3, Jinyu Business Building, Wenzhou Avenue, Nanhui Street, Lucheng District, Wenzhou City, Zhejiang Province, China.

Model/Type reference..... : ML-T8

Ratings..... : Input: DC 5V



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen,China

Date of Test..... : Nov. 22, 2022 - Nov. 29, 2022

Tested by (name + signature)..... : Jim Liu

Reviewed by (name + signature)..... : Tom Zou

Approved by (name + signature)..... : Lake Xie



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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : Massage paste
Trademark : /
Model Number : ML-T8
Model Difference : /
Power Supply : Input: DC 5V/ 0.3W
DC cell: 60mAH

EUT : Charging box
Model Number : ML-T8
Power Supply : Input: DC 5V/ 18W
DC cell: 450mAH

1.2 Tested System Details

None.

1.3 Test Uncertainty

Conducted Emission Uncertainty : ± 1.82 dB

Radiated Emission Uncertainty : ± 2.51 dB



2. TEST SUMMARY

The Product has been tested according to the following specifications:

EMISSION		
Standard	Test Item	Test
EN IEC 55014-1:2021	Disturbance voltages(CE)	Pass
EN IEC 55014-1:2021	Discontinuous disturbance (Clicks)	N/A
EN IEC 55014-1:2021	Disturbance power(DP)	N/A
EN IEC 55014-1:2021	Magnetic field induced current in a 2m loop antenna(ME)	N/A
EN IEC 55014-1:2021	Magnetic field strength	N/A
EN IEC 55014-1:2021	Radiated disturbance (RE)	Pass
EN IEC 61000-3-2:2019	Harmonic current emission(H)	N/A
EN 61000-3-3:2013+A1:2019	Voltage fluctuations & flicker(F)	Pass

IMMUNITY		
Standard	Test Item	Test
EN 61000-4-2:2009	Electrostatic discharge immunity Test (ESD)	Pass
EN 61000-4-3:2020	Radio frequency electromagnetic fields(RS)	N/A
EN 61000-4-4:2012	Fast transients immunity Test (EFT)	Pass
EN 61000-4-5:2014	Surges immunity Test	Pass
EN 61000-4-6:2014	Injected currents immunity Test (CS)	Pass
EN 61000-4-11:2020	Voltage dips and interruptions immunity Test (DIPS)	Pass

Remark:

1. The Product has no switching operations, automatic programme or other electrically controlled or operated functions
2. The Product shall be evaluated for emissions in the 30 MHz to 1 000 MHz range by testing in accordance with method b as described in clause 4.3.4.2 of EN55014-1.
3. It only apply to induction cooking appliances.
4. The EUT is powered by the DC by USB port, the test item is not applicable.
5. The Product is belong to category II.



3. TEST INSTRUMENT

Disturbance voltages and Discontinuous disturbance Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR	102075	Sep. 21, 2022	Sep. 20, 2023
LISN	R&S	ENV216	101375	Sep. 21, 2022	Sep. 20, 2023
ISN	HPX	ISN T800	S1509001	Sep. 21, 2022	Sep. 20, 2023

Radiated disturbance Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Sep. 21, 2022	Sep. 20, 2023
Receiver	R&S	ESRP	101154	Sep. 21, 2022	Sep. 20, 2023
Amplifier	Schwarzbeck	BBV9718	9718-309	Sep. 21, 2022	Sep. 20, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	Sep. 21, 2022	Sep. 20, 2023
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163-942	Sep. 21, 2022	Sep. 20, 2023

Harmonic / Flicker Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Harmonic & Flicker Tester	LAPLAEC	AC2000A	439263	Sep. 21, 2022	Sep. 20, 2023
AC Power Supply	LAPLAEC	PCR4000M	631589	Sep. 21, 2022	Sep. 20, 2023

Electrostatic discharge immunity Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
ESD Tester	3C TEST	EDS 30V	ES0121614	Sep. 21, 2022	Sep. 20, 2023

Fast transients and Surge and Voltage dips and interruptions immunity Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Compact Generator	TRANSIENT	TRA2000	646	Sep. 21, 2022	Sep. 20, 2023
Coupling Clamp	PARTNER	CN-EFT1000	CN-EFT1000-1624	Sep. 21, 2022	Sep. 20, 2023



Injected currents immunity Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
C/S Test System	SCHLODER	CDG-6000-75	126B1405/2016	Sep. 21, 2022	Sep. 20, 2023
Attenuator	SCHLODER	6DB DC-1G	HA1630	Sep. 21, 2022	Sep. 20, 2023
CDN	SCHLODER	CDN M2/M3	A2210389/2016	Sep. 21, 2022	Sep. 20, 2023
Injection Clamp	SCHLOBER	EMCL-20	132A1272/2016	Sep. 21, 2022	Sep. 20, 2023

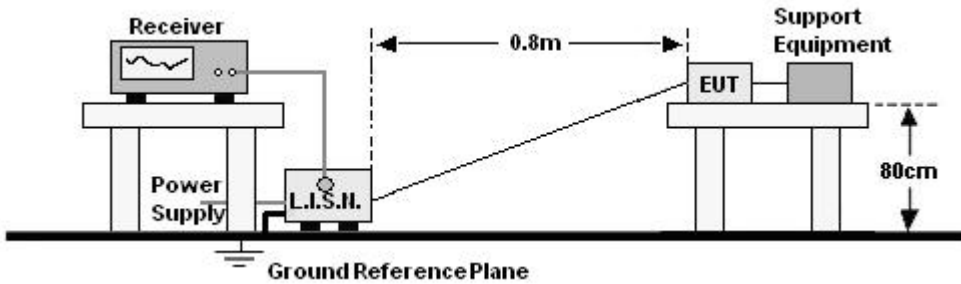
DRAFT



4. DISTURBANCE VOLTAGES

4.1 Block Diagram Of Test Setup

For mains ports:



4.2 Limit

At mains ports Limits for Household Appliance

Frequency (MHz)	Limits dB(μ V)	
	Quasi-peak	Average
0,15 ~ 0,50	66 ~ 56*	59 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

4.3 Test procedure

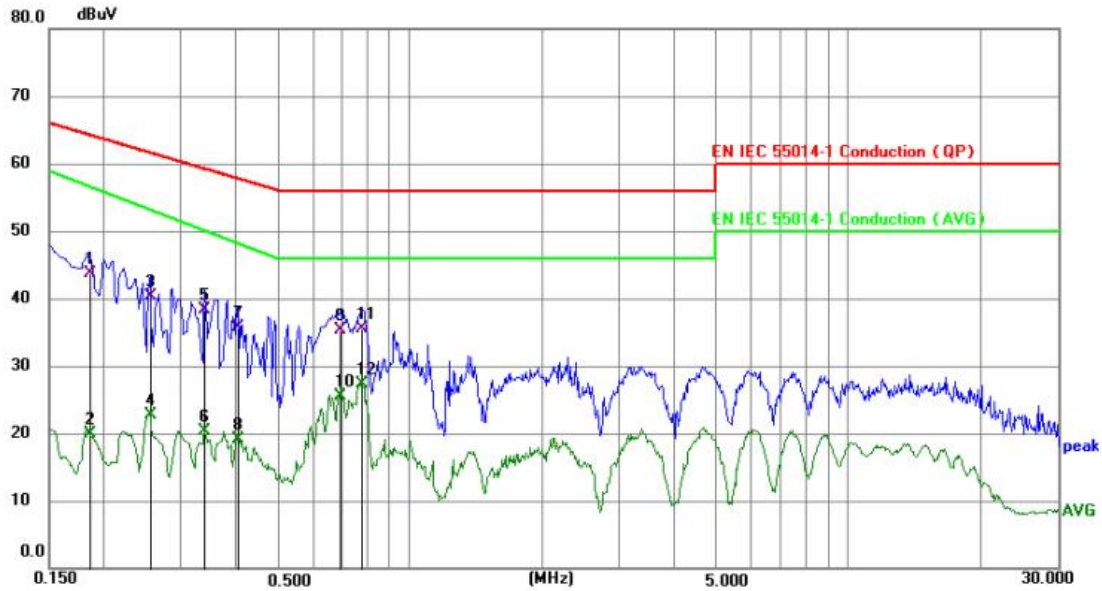
For mains ports:

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



4.4 Test Results

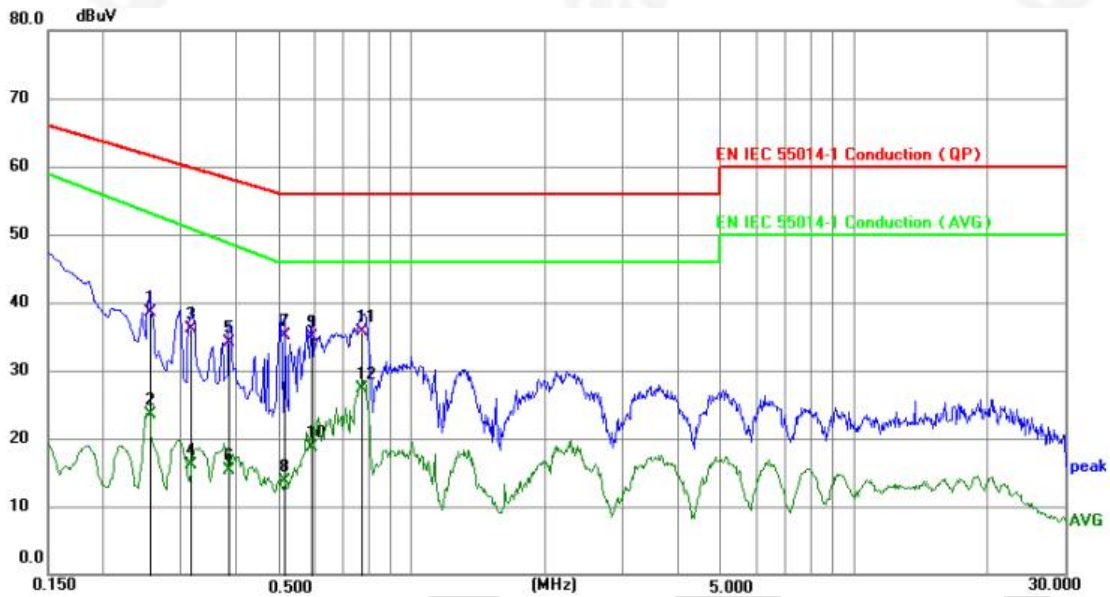
Disturbance voltages at the Mains Ports Test Data			
Temperature:	24.2°C	Relative Humidity:	54.1%
Pressure:	1012hPa	Phase :	Live
Test Voltage :	AC 230V/50Hz	Test Mode:	Charging mode



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1860	33.83	9.90	43.73	64.21	-20.48	QP	P	
2	0.1860	9.93	9.90	19.83	56.68	-36.85	AVG	P	
3	0.2535	30.32	9.93	40.25	61.64	-21.39	QP	P	
4	0.2535	12.78	9.93	22.71	53.33	-30.62	AVG	P	
5	0.3390	28.28	9.96	38.24	59.23	-20.99	QP	P	
6	0.3390	10.35	9.96	20.31	50.20	-29.89	AVG	P	
7	0.4020	25.75	9.98	35.73	57.81	-22.08	QP	P	
8	0.4020	9.15	9.98	19.13	48.36	-29.23	AVG	P	
9	0.6945	25.27	10.04	35.31	56.00	-20.69	QP	P	
10	0.6945	15.43	10.04	25.47	46.00	-20.53	AVG	P	
11	0.7754	25.52	10.04	35.56	56.00	-20.44	QP	P	
12 *	0.7754	17.35	10.04	27.39	46.00	-18.61	AVG	P	



Disturbance voltages at the Mains Ports Test Data			
Temperature:	24.2°C	Relative Humidity:	54.1%
Pressure:	1012hPa	Phase :	Neutral
Test Voltage :	AC 230V/50Hz	Test Mode:	Charging mode

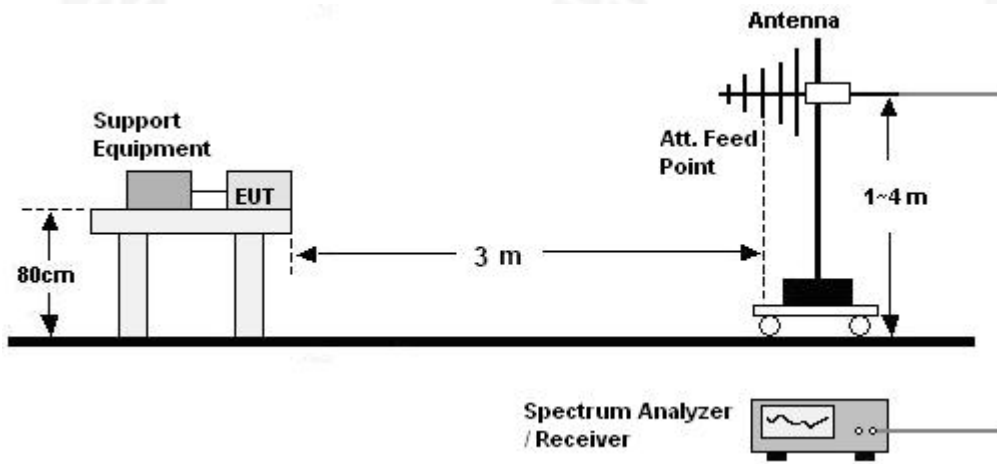


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2535	28.51	9.93	38.44	61.64	-23.20	QP	P	
2	0.2535	13.49	9.93	23.42	53.33	-29.91	AVG	P	
3	0.3165	26.19	9.96	36.15	59.80	-23.65	QP	P	
4	0.3165	6.21	9.96	16.17	50.94	-34.77	AVG	P	
5	0.3840	24.14	9.98	34.12	58.19	-24.07	QP	P	
6	0.3840	5.27	9.98	15.25	48.85	-33.60	AVG	P	
7	0.5144	25.13	10.02	35.15	56.00	-20.85	QP	P	
8	0.5144	3.73	10.02	13.75	46.00	-32.25	AVG	P	
9	0.5910	24.96	10.03	34.99	56.00	-21.01	QP	P	
10	0.5910	8.70	10.03	18.73	46.00	-27.27	AVG	P	
11	0.7710	25.73	10.04	35.77	56.00	-20.23	QP	P	
12 *	0.7710	17.31	10.04	27.35	46.00	-18.65	AVG	P	



5. RADIATED DISTURBANCE TEST

5.1 Block Diagram Of Test Setup



5.2 Limits

Frequency (MHz)	Quasi-peak limits at 3m dB(μ V/m)
30-230	40
230-1000	47

Note: The lower limit shall apply at the transition frequencies.

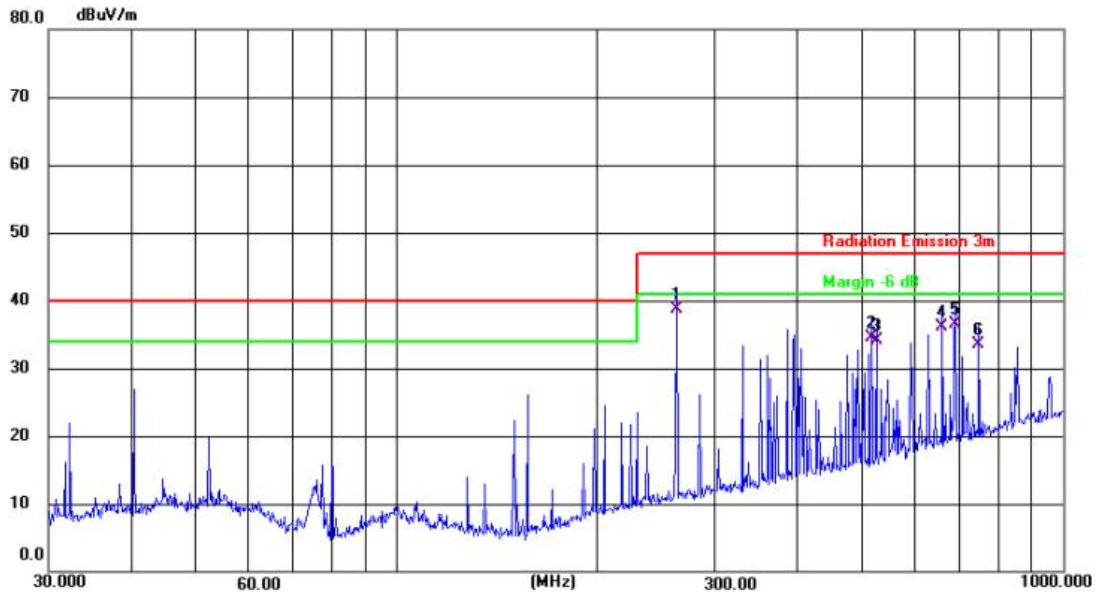
5.3 Test Procedure

- The Product was placed on the nonconductive turntable 0.1 m above the ground at a chamber.
- Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.



5.4 Test Results

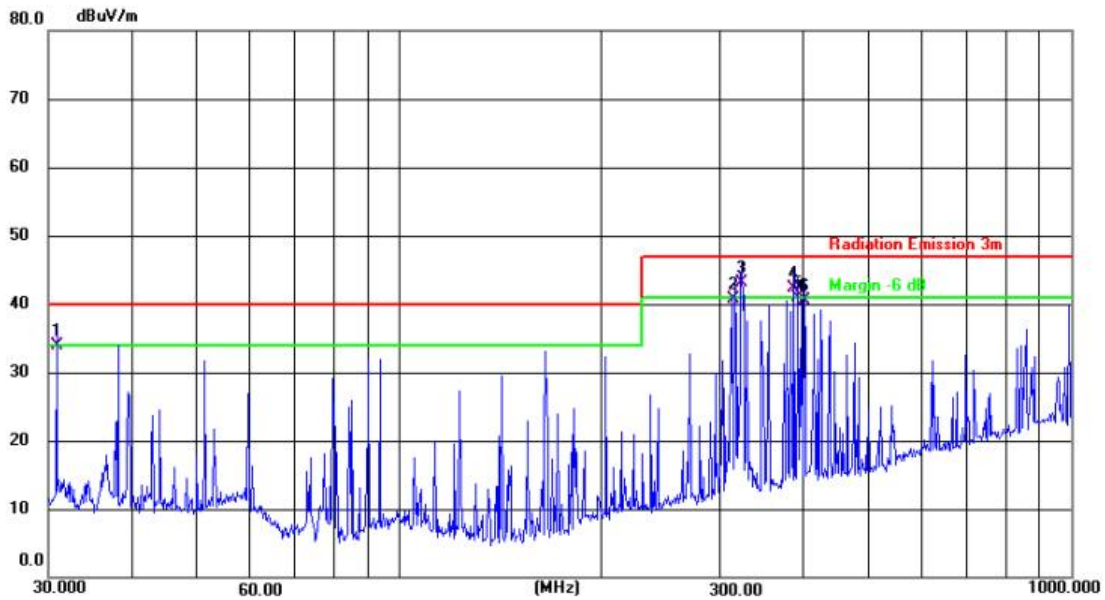
Radiated Disturbance Test Data			
Temperature:	24.0°C	Relative Humidity:	52%
Pressure:	1012hPa	Polarization :	Horizontal
Test Voltage :	AC 230V/50Hz	Test Mode:	Working mode



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	262.8955	53.49	-14.70	38.79	47.00	-8.21	QP			P	
2	515.4373	44.23	-9.79	34.44	47.00	-12.56	QP			P	
3	524.5541	43.62	-9.60	34.02	47.00	-12.98	QP			P	
4	658.8361	43.32	-7.13	36.19	47.00	-10.81	QP			P	
5	689.5644	43.04	-6.59	36.45	47.00	-10.55	QP			P	
6	747.4825	39.21	-5.77	33.44	47.00	-13.56	QP			P	



Radiated Disturbance Test Data			
Temperature:	24.0°C	Relative Humidity:	52%
Pressure:	1012hPa	Polarization :	Vertical
Test Voltage :	AC 230V/50Hz	Test Mode:	Working mode

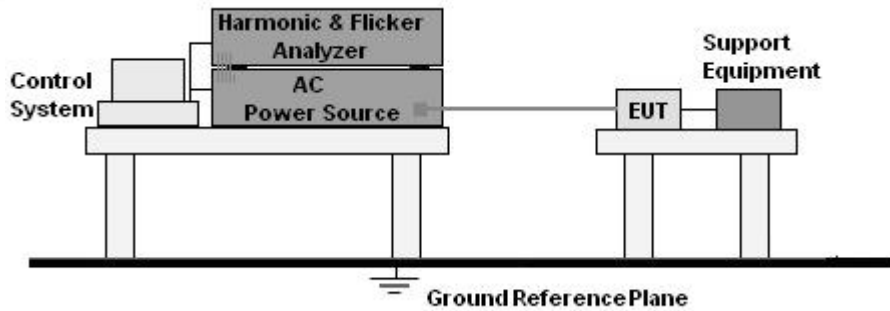


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.8534	50.99	-17.04	33.95	40.00	-6.05	QP			P	
2	315.4806	54.22	-13.59	40.63	47.00	-6.37	QP			P	
3 *	323.3203	56.56	-13.41	43.15	47.00	-3.85	QP			P	
4 !	386.6338	54.30	-11.96	42.34	47.00	-4.66	QP			P	
5	392.0950	52.65	-11.84	40.81	47.00	-6.19	QP			P	
6	400.4318	52.09	-11.65	40.44	47.00	-6.56	QP			P	



6. HARMONIC CURRENT EMISSION TEST

6.1 Block Diagram of Test Setup



6.2 Limit

EN IEC 61000-3-2:2019 Clause 6.

6.3 Test Procedure

- a. The Product was placed on the top of a non-conductive table above the ground and operated to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn.
- b. The correspondent test program of test instrument to measure the current harmonics emanated from Product was chosen. The measure time shall be not less than the time necessary for the Product to be exercised.

6.4 Test Results

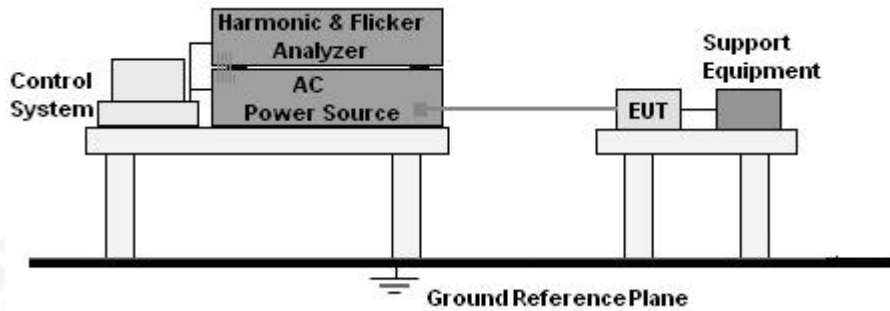
N/A

This product is not defined as lighting equipment, and has rated power less than 75W, therefore, no limit applies according to EN IEC 61000-3-2:2019



7. VOLTAGE FLUCTUATIONS & FLICKER TEST

7.1 Block Diagram of Test Setup



7.2 Limit

EN 61000-3-3:2013+A1:2019 Clause 6.

7.3 Test Procedure

- The Product was placed on the top of a non-conductive table above the ground and operated to produce the most unfavorable sequence of voltage changes under normal operating conditions.
- During the flick test, the measure time shall include that part of whole operation cycle in which the Product produce the most unfavorable sequence of voltage changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

7.4 Test Results

Pass



8. IMMUNITY TEST OF GENERAL THE PERFORMANCE CRITERIA

Product Standard	EN IEC 55014-2:2021
CRITERION A	The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. 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 from what the user may reasonably expect from the apparatus if used as intended
CRITERION B	The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, 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, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
CRITERION C	Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

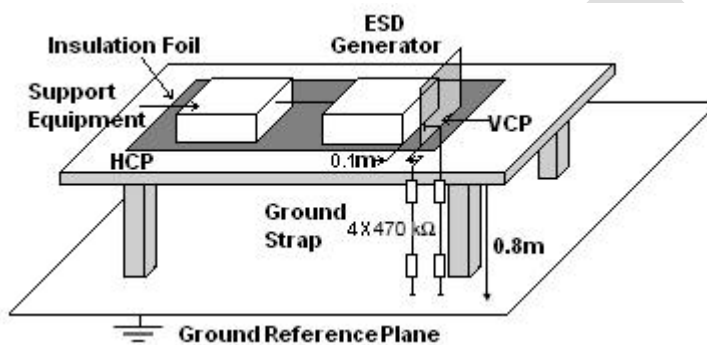


9. ELECTROSTATIC DISCHARGE IMMUNITY TEST

9.1 Test Specification

Test Port	:	Enclosure port
Discharge Impedance	:	330 ohm / 150 pF
Discharge Mode	:	Single Discharge
Discharge Period	:	one second between each discharge

9.2 Block Diagram of Test Setup



9.3 Test Procedure

- Electrostatic discharges were applied only to those points and surfaces of the Product that are accessible to users during normal operation.
- The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.
- The time interval between two successive single discharges was at least 1 second.
- The ESD generator was held perpendicularly to the surface to which the discharge was applied and the return cable was at least 0.2 meters from the Product.
- Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
- Air discharges were applied with the round discharge tip of the discharge electrode approaching the Product as fast as possible (without causing mechanical damage) to touch the Product. After each discharge, the ESD generator was removed from the Product and re-triggered for a new single discharge. The test was repeated until all discharges were complete.
- At least ten single discharges (in the most sensitive polarity) were applied to the Horizontal Coupling Plane at points on each side of the Product. The ESD generator was positioned vertically at a distance of 0.1 meters from the Product with the discharge electrode touching the HCP.
- At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the Vertical Coupling Plane in sufficiently different positions that the four faces of the Product were completely illuminated. The VCP (dimensions 0.5m x 0.5m) was placed vertically to and 0.1 meters from the Product.



9.4 Test Results

Electrostatic Discharge Test Data					
Temperature:	25.9℃	Humidity:	54%		
Power Supply :	AC 230V/50Hz	Test Mode:	Working,Charging mode		
Discharge Method	Discharge Position	Voltage (±kV)	Min. No. of Discharge per polarity (Each Point)	Required Level	Performance Criterion
Contact Discharge	Conductive Surfaces	4	10	B	A
	Indirect Discharge HCP	4	10	B	A
	Indirect Discharge VCP	4	10	B	A
Air Discharge	Slots, Apertures, and Insulating Surfaces	8	10	B	A
Note: N/A					



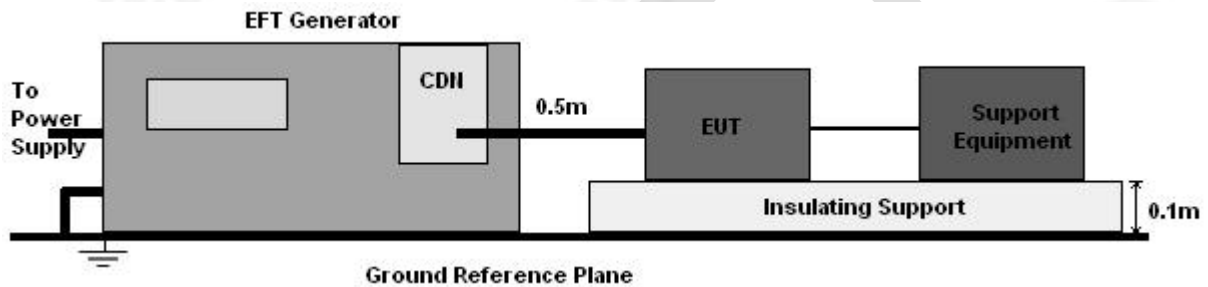
10. FAST TRANSIENTS IMMUNITY TEST

11.1 Test Specification

Test Port	: input a.c. power port
Impulse Frequency	: 5 kHz
Impulse Wave-shape	: 5/50 ns
Burst Duration	: 15 ms
Burst Period	: 300 ms
Test Duration	: 2 minutes per polarity

11.2 Block Diagram of EUT Test Setup

For input a.c. power port:



11.3 Test Procedure

- The Product and support units were located on a non-conductive table above ground reference plane.
- A 0.5m-long power cord was attached to Product during the test.

11.4 Test Results

Fast Transients Test Data				
Temperature:	26.2°C	Humidity:	55%	
Power Supply :	AC 230V/50Hz	Test Mode:	Charging mode	
Coupling	Voltage (kV)	Polarity	Required Level	Performance Criterion
L + N	1	±	B	A
Note: N/A				

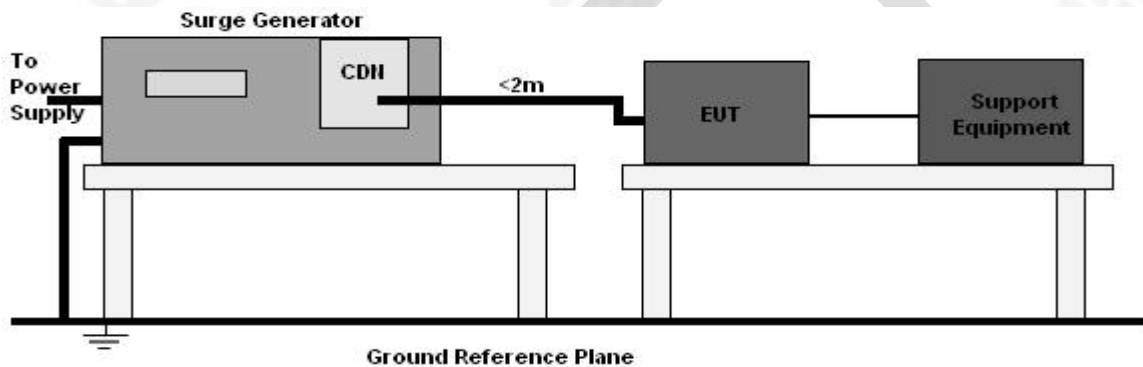


11. SURGES IMMUNITY TEST

12.1 Test Specification

Test Port	: input a.c. power port
Wave-Shape	: Open Circuit Voltage - 1.2 / 50 us Short Circuit Current - 8 / 20 us
Pulse Repetition Rate	: 1 pulse / min.
Test Events	: Five positive polarity pulses at the 90° phase angle Five negative polarity pulses at the 270° phase angle

12.2 Block Diagram of EUT Test Setup



12.3 Test Procedure

- The surge is to be applied to the Product power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave.
- The power cord between the Product and the coupling/decoupling networks shall be 2 meters in length (or shorter). Interconnection line between the Product and the coupling/decoupling networks shall be 2 meters in length (or shorter).



12.4 Test Result

Surges Test Data				
Temperature:	25.3°C	Humidity:	51%	
Power Supply :	AC 230V/50Hz	Test Mode:	Charging mode	
Coupling Line	Voltage (kV)	Phase Angle	Required Level	Performance Criterion
L + N	+1	90°	B	A
	-1	270°		
L - PE	+2	90°	B	/
	-2	270°		
N - PE	+2	90°	B	/
	-2	270°		
Note: N/A				



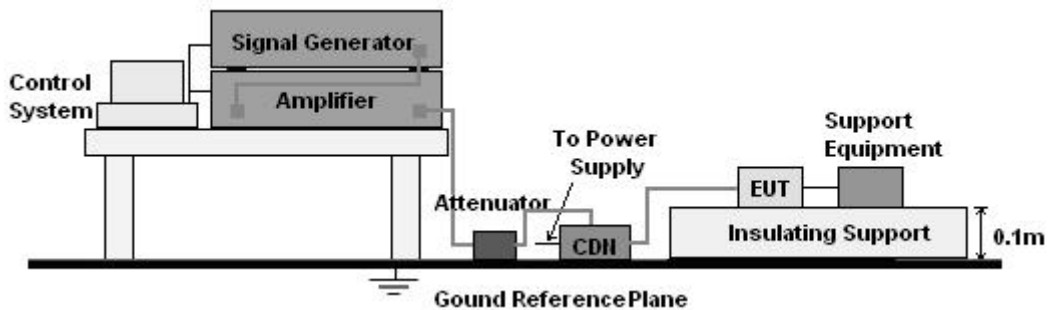
12. INJECTED CURRENTS IMMUNITY TEST

13.1 Test Specification

Test Port	: input a.c. power port
Step Size	: 1%
Modulation	: 80% AM
Dwell Time	: 1 second

13.2 Block Diagram of EUT Test Setup

For input a.c. power port:



13.3 Test Procedure

For input a.c. power port:

- The Product and support units were located at a ground reference plane with the interposition of a 0.1 m thickness insulating support and the CDN was located on GRP directly.
- The frequency range is swept from 150 kHz to 230MHz, with the signal 80% amplitude modulated with a 1 kHz sine wave, and the step size was 1% of fundamental.
- The dwell time at each frequency shall be not less than the time necessary for the Product to be able to respond.

13.4 Test Result

Injected Currents Test Data				
Temperature:	25.5°C	Humidity:	53%	
Power Supply :	AC 230V/50Hz	Test Mode:	Charging mode	
Inject Line	Frequency (MHz)	Voltage Level (V r.m.s.)	Required Level	Performance Criterion
a.c. port	0.15 - 230	3	A	A
Note: N/A				

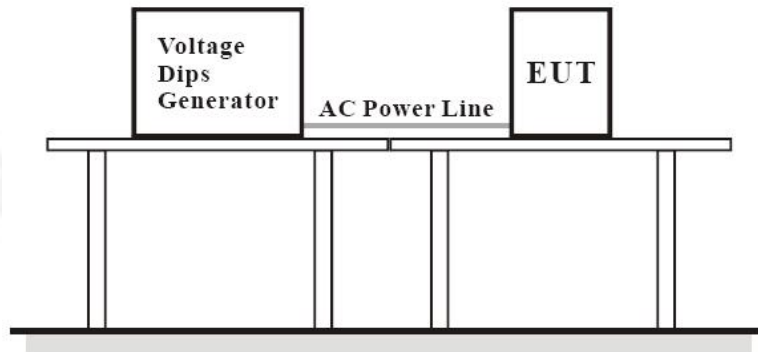


13. VOLTAGE DIPS AND INTERRUPTIONS IMMUNITY TEST

14.1 Test Specification

Test Port : input a.c. power port
Phase Angle : 0°, 180°

14.2 Block Diagram of EUT Test Setup



14.3 Test Procedure

- The Product and support units were located on a non-conductive table above ground floor.
- Set the parameter of tests and then perform the test software of test simulator.
- Conditions changes to occur at 0 degree crossover point of the voltage waveform.

14.4 Test Result

Voltage Dips and Interruptions Test Data					
Temperature:	26.1°C	Humidity:	58%		
Power Supply :	AC 230V/50Hz	Test Mode:	Charging mode		
Test Level % U_T	Voltage dips in % U_T	Duration (cycles)		Required Level	Performance Criterion
		50Hz	60Hz		
0	100	0.5	0.5	C	C*
40	60	10	12	C	A
70	30	25	30	C	A
Note: N/A					

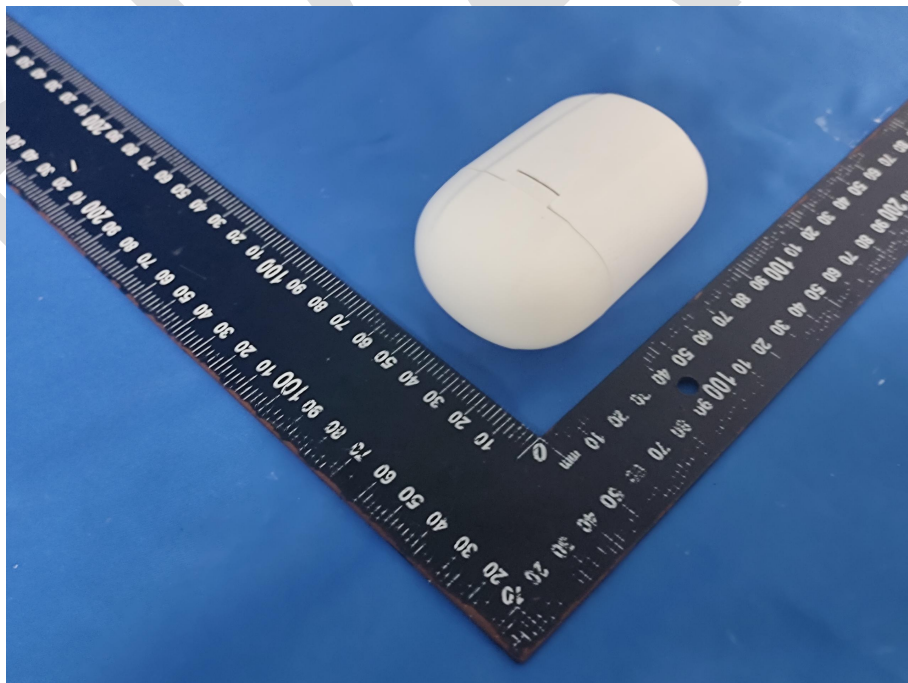


14. EUT PHOTOGRAPHS

EUT Photo 1



EUT Photo 2





EUT Photo 3



EUT Photo 4





EUT Photo 5

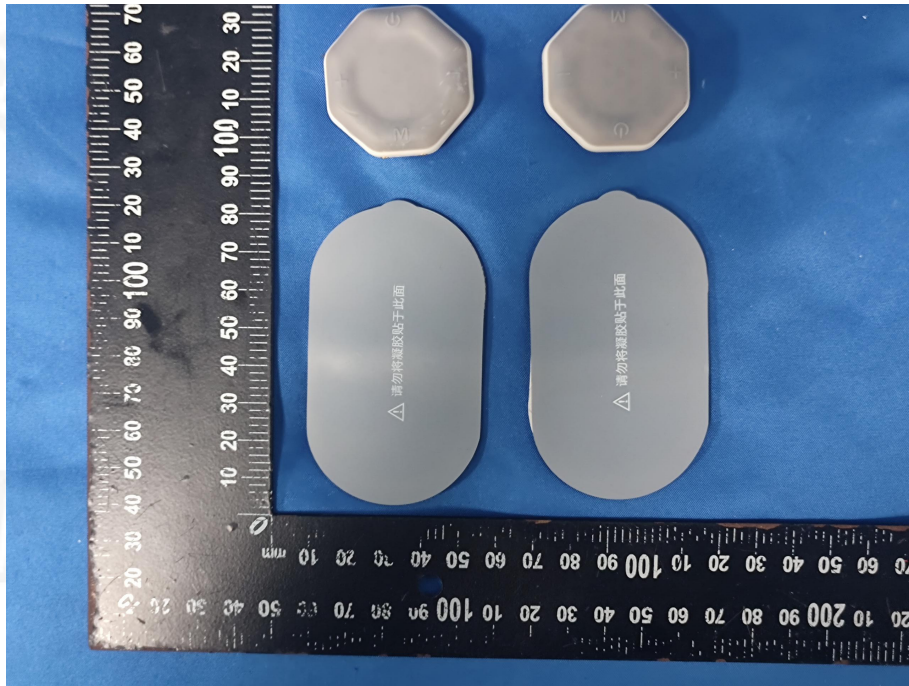


EUT Photo 6





EUT Photo 7



DRAFT

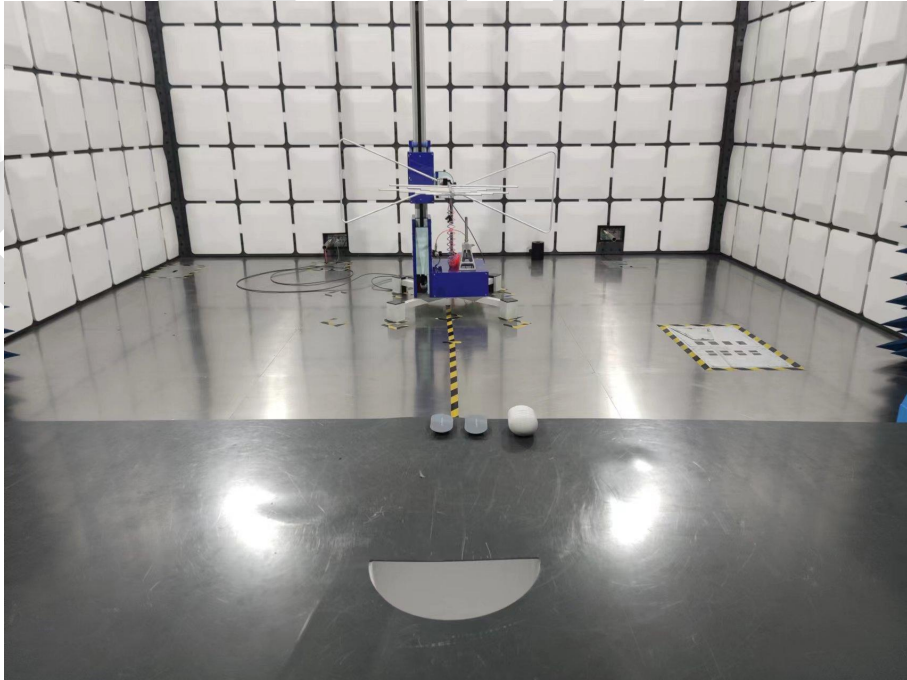


15. TEST SETUP PHOTOGRAPHS

CE:



RE:



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