

Test Report Number:	FTS26DR-01863E	Total Page(s): 20
Applicant Name:	Mid Ocean Brands B.V.	
Applicant Address:	Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.	
Test item:	LED filament desktop lamp	
Model / Type Reference:	MO2797-72, CX1582-08, CX1582-68	
Date of Issue:	2026-04-30	
Testing Laboratory:	Guangdong Future Test Services Co., Ltd.	
Test Specification:	EN IEC 55015:2019+A11:2020 EN IEC 61547:2023 EN IEC 61000-3-2:2019+A1:2021+A2:2024 EN 61000-3-3:2013+A1:2019+A2:2021	
Test Result:	Passed	
Compiled by:	Reviewed by:	
2026-04-30 Grainne Cao	Grainne Cao	2026-04-30 Gordon Xie
<i>Date</i> <i>Name</i>	<i>Signature</i>	<i>Date</i> <i>Name</i> <i>Signature</i>
Remark:		
N/A		
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Test Summary

6.1.1 Harmonics Current Emission on AC Mains

RESULT: N/A

6.1.2 Voltage Changes, Voltage Fluctuations and Flicker

RESULT: N/A

6.1.3 Radiated Electromagnetic in the Frequency Range 9 kHz to 30 MHz

RESULT: Pass

6.2.1 Radiated Disturbance

RESULT: Pass

7.2.1 Radio-frequency Electromagnetic Fields (RS)

RESULT: Pass

7.3.1 Electrostatic Discharges (ESD)

RESULT: Pass

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1. General Remarks

When applying the basic standards in this test report, please refer to the applied generic or product family standards for edition information:
For dated basic standards, only the edition cited applies. For undated basic standards, the latest edition (including any amendments) applies.

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result.

Appendix 2: Photo of EUT

Appendix 3: List of Test and Measurement Equipment

2. Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	3.12dB
Uncertainty for Disturbance Power test	3.26dB
Uncertainty for Radiation Emission test	3.56dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3. Test Sites

3.1 Test Facilities

A. Guangdong Future Test Services Co., Ltd.

Add: Room A01、A02、A03, No.228, Min'an South Road, Xiaolan, Zhongshan, Guangdong, China

3.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Refer to attached Appendix 3.

4. General Product Information

The submitted samples are LED filament desktop lamp for indoor use.

Model list:

No.	Model	Input voltage
1.	MO2797-72	DC 6V
2.	CX1582-08	
3.	CX1582-68	

Model difference:

- All models have the same internal structure and electrical principle except for differences in appearance.

According to the above information, all tests were performed on following models

Model	EMC test item	Model name In appendix 1
MO2797-72	RE,LOOP,ESD,RS	MO2797-72

4.1 Product Function and Intended Use

Refer to Technical Documentation and User Manual

4.2 Ratings and System Details

Type designation:	Refer to section 4
Rated input:	Refer to section 4
Max. power:	Refer to section 4
Protection class:	Class III
Ports:	DC output line(<3m)
Cables:	Unshielded

Refer to the Technical Documentation for further information.

4.3 Independent Operation Modes

The basic operation modes are:

A. Lighting mode

Refer to the user manual for further information.

4.4 Noise Generating and Noise Suppressing Parts

Refer to the Technical Documentation for further information.

4.5 Submitted Documents

Difference Declaration
Circuit Diagram
PCB Layout
User Manual
Label

5. Test Set-up and Operation Modes

5.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

5.2 Physical Configuration for Testing

Refer to relative paragraphs of this test report.

5.3 Test Operation and Test Software

Refer to test setup in chapter 6 and chapter 7.

5.4 Special Accessories and Auxiliary Equipment

None.

5.5 Countermeasures to achieve EMC Compliance

No additional countermeasures to the submitted test sample(s) were employed to achieve compliance.

6. Test Results Emission

6.1 Emission in the Frequency Range up to 30 MHz

6.1.1 Harmonics Current Emission on AC Mains

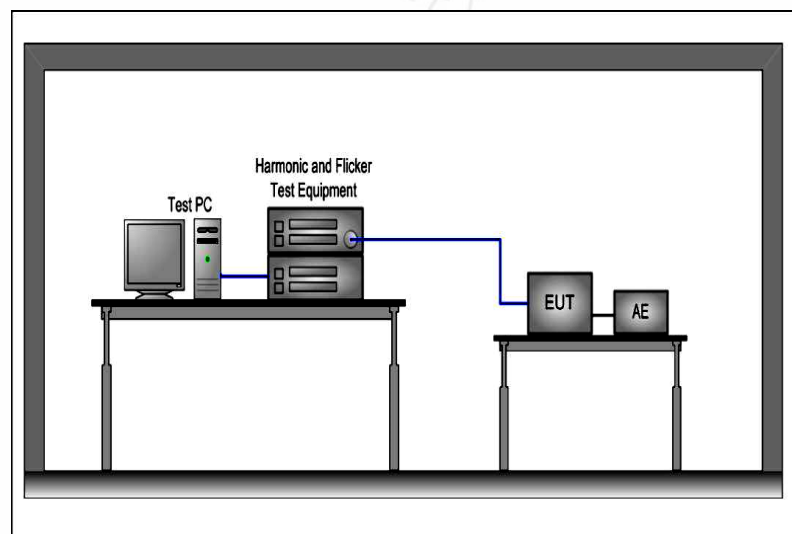
RESULT:

N/A

Test Specification

Basic standard	:	EN IEC 61000-3-2:2019+A1:2021+A2:2024
Measurement equipment requirement	:	IEC 61000-4-7
Measured harmonics	:	1 – 40
Equipment class	:	C
Limits	:	Clause 7.4

Test Connection Diagram



Remark: According to EN IEC 61000-3-2:2019+A1:2021+A2:2024 clause 1, This part of IEC 61000 is applicable to electrical and electronic equipment having a rated input current up to and including 16 A per phase, and intended to be connected to public low-voltage distribution systems. EUT is deemed to fulfil the requirement without testing.

6.1.2 Voltage Changes, Voltage Fluctuations and Flicker

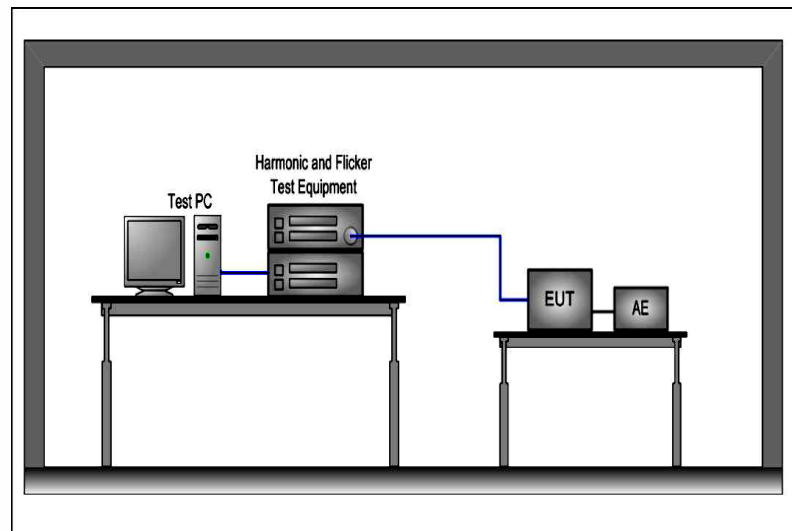
RESULT:

N/A

Test Specification

Basic standard	:	EN 61000-3-3:2013+A1:2019+A2:2021
Measurement equipment requirement	:	IEC 61000-4-15
Limits	:	Clause 5

Test Connection Diagram



Remark: EN 61000-3-3:2013+A1:2019+A2:2021 clause 1, This part of IEC 61000 is applicable to electrical and electronic equipment having an input current equal to or less than 16 A per phase, intended to be connected to public low-voltage distribution systems of between 220 V and 250 V line to neutral at 50 Hz, and not subject to conditional connection. EUT is deemed to fulfil the requirement without testing.

6.1.3 Radiated Electromagnetic in the Frequency Range 9 kHz to 30 MHz

RESULT:

Pass

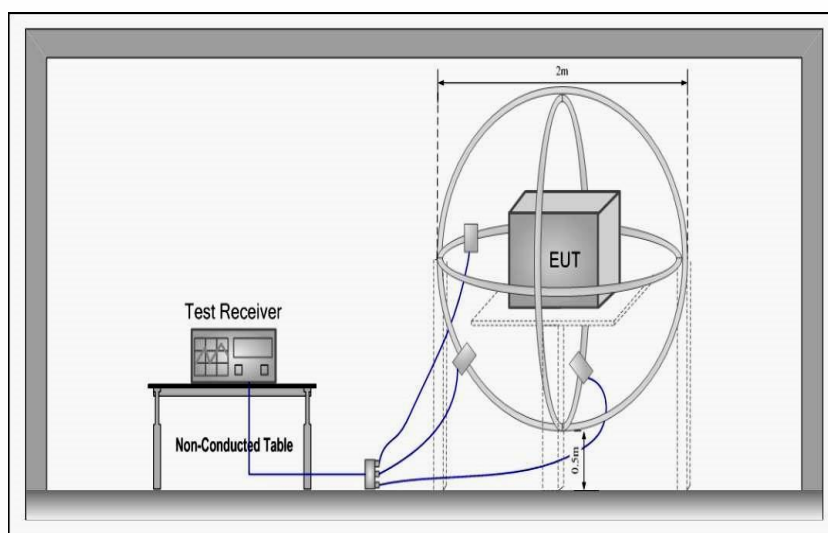
Test Specification

Test procedure	:	EN IEC 55015:2019+A11, Clause 8
Frequency range	:	9kHz-30MHz
Test site	:	Shielded Room
Limits	:	EN IEC 55015:2019+A11, Table 8

Test Setup

Date of testing	:	Refer to Appendix 1
Input voltage	:	Refer to Appendix 1
Operation mode	:	A
Test configuration	:	Table-top (2m loop)
Temperature	:	Refer to Appendix 1
Humidity	:	Refer to Appendix 1
Air pressure	:	Refer to Appendix 1

Test Connection Diagram



Test Result

Measurement uncertainty: 3.0dB ($k=2$, $\sigma=95\%$)

Horizontal component of disturbance is measured by A1 and A2 antennas of LAS, while vertical component of disturbance is measured by A3 antenna of LAS.

Disturbances other than those mentioned are small or not detectable.

For measurement results, please refer to the attached appendix 1.

6.2 Emission in the Frequency Range above 30 MHz

6.2.1 Radiated Disturbance

RESULT:

Pass

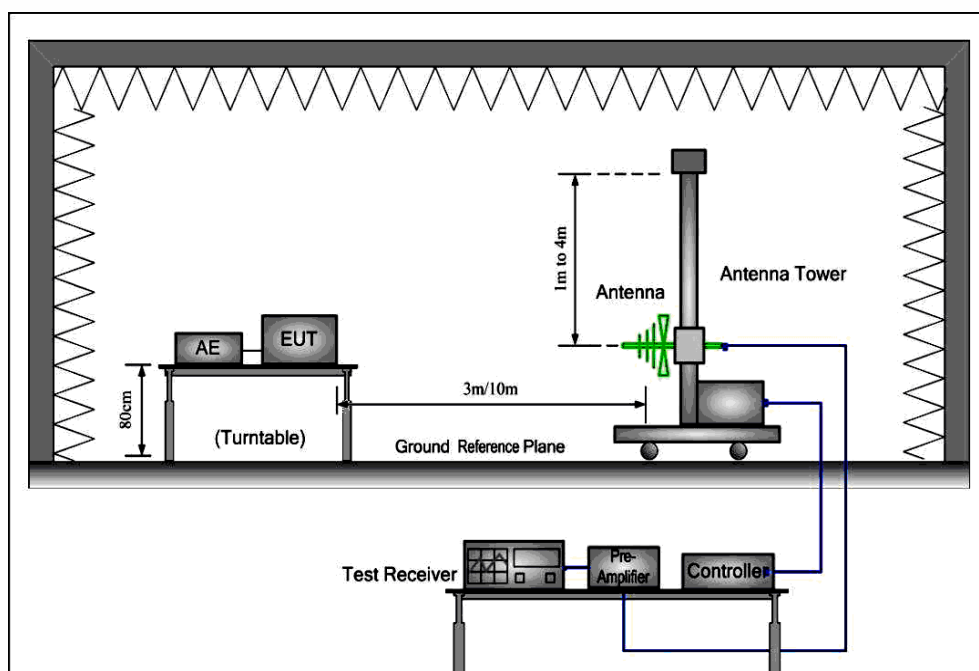
Test Specification

Test procedure	:	EN IEC 55015:2019+A11, Clause 9
Ports	:	Enclosure
Frequency range	:	30MHz-1000MHz
Test site	:	SAC
Limits	:	EN IEC 55015:2019+A11, Table 10

Test Setup

Date of testing	:	Refer to the appendix 1
Input voltage	:	Refer to the appendix 1
Operation mode	:	A
Test configuration	:	Table-top
Temperature	:	Refer to the appendix 1
Humidity	:	Refer to the appendix 1
Air pressure	:	Refer to the appendix 1

Test Connection Diagram



Test Result

Measurement uncertainty: 3.26dB ($k=2$, $\sigma=95\%$)

Disturbances other than those mentioned are small or not detectable.

For test results, please refer to the attached appendix 1.

7. Test Results Immunity

7.1 Immunity requirements

According to EN IEC 61547:2023, the appliance shall fulfil the requirements of:

Radio-frequency Electromagnetic Field Amplitude Modulated (RS) Criterion A

Electrostatic Discharge (ESD)

Criterion B

7.2 Continuous Disturbances

7.2.1 Radio-frequency Electromagnetic Fields (RS)

RESULT:

Pass

Test Specification

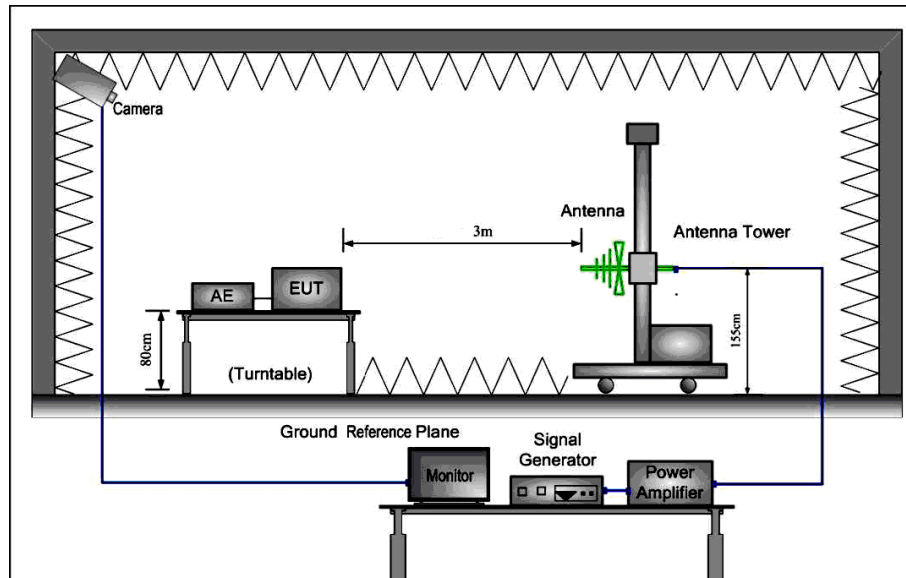
Test Specification

Family standard	: EN IEC 61547:2023
Basic standard	: IEC 61000-4-3
Test level	: 3 V/m
Frequency range	: 80MHz to 1000MHz
Modulation	: 1 kHz sine-wave, 80% AM
Sweep mode	: Automatic
Sweep step	: 1%
Dwell time	: ≥ 1 Sec
Performance criterion	: A

Test Setup

Date of testing	: 29 Apr, 2026
Input voltage	: DC 6V
Operation mode	: A
Temperature	: 24°C
Humidity	: 55%
Air pressure	: 101kPA

Test Connection Diagram



Test Result

Table 2: Immunity against Radio-frequency Electromagnetic Fields (RS)

Side of the equipment under test	Frequency (MHz)	Antenna polarization (Vertical/Horizontal)	Result	Remark
Front	80 -1000	V and H	Pass	A
Rear		V and H	Pass	A
Right		V and H	Pass	A
Left		V and H	Pass	A

*) Remark: No degradation was observed during and after the tests.

7.3 Transient Disturbances

7.3.1 Electrostatic Discharges (ESD)

RESULT:

Pass

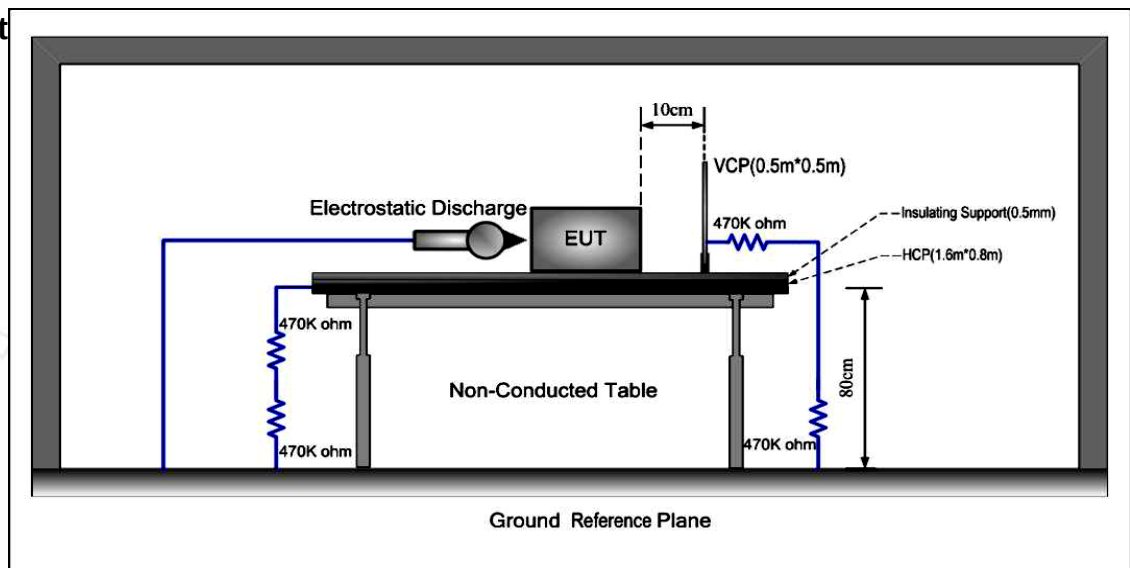
Test Specification

Family standard	: EN IEC 61547:2023
Basic standard	: IEC 61000-4-2
Charge voltage	: $\pm 4\text{kV}$ (contact, VCP, HCP) $\pm 8\text{kV}$ (air discharge)
Number of discharges	: > 10
Polarity	: Positive / Negative
Performance criterion	: B

Test Setup

Date of testing	: 29 Apr, 2026
Input voltage	: DC 6V
Operation mode	: A
Temperature	: 24°C
Humidity	: 55%
Air pressure	: 101kPa

Test Connection Diagram



Test Result

Table 3: Electrostatic Discharge

Lighting mode:

Direct discharges			
Air discharges Discharge location	Air discharge voltage (kV)	Polarity	Remark
Refer to Photograph of ESD setup	8	+/-	Applied, *)
Non-conductive parts	8	+/-	Applied, *)
Contact discharges Discharge location	Contact discharge voltage (kV)	Polarity	Remark
Refer to Photograph of ESD setup	4	+/-	Applied, *)
Conductive parts	4	+/-	Applied, *)
Indirect discharges			
Contact discharges Discharge location	Contact discharge voltage (kV)	Polarity	Remark
HCP	4	+/-	Applied, *)
VCP	4	+/-	Applied, *)

*) Remark: No degradation was found.

Handling mode:

Direct discharges			
Air discharges Discharge location	Air discharge voltage (kV)	Polarity	Remark
Refer to Photograph of ESD setup	8	+/-	Applied, *)
Non-conductive parts	8	+/-	Applied, *)
Contact discharges Discharge location	Contact discharge voltage (kV)	Polarity	Remark
Refer to Photograph of ESD setup	4	+/-	Applied, *)
Conductive parts	4	+/-	Applied, *)

*) Remark: No degradation was found.

8. The photos of test setting

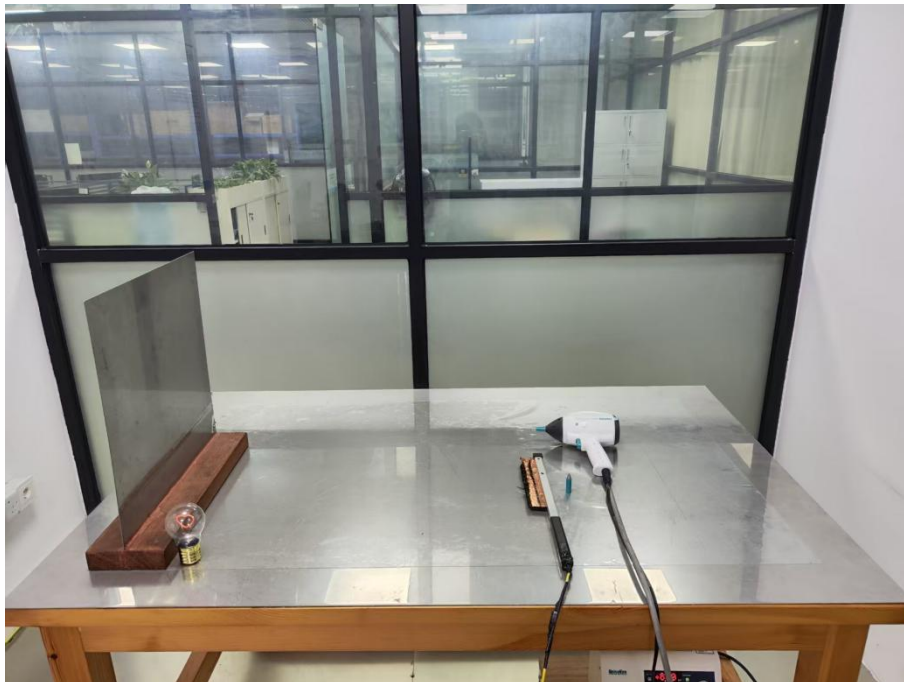
Radiated electromagnetic disturbances:



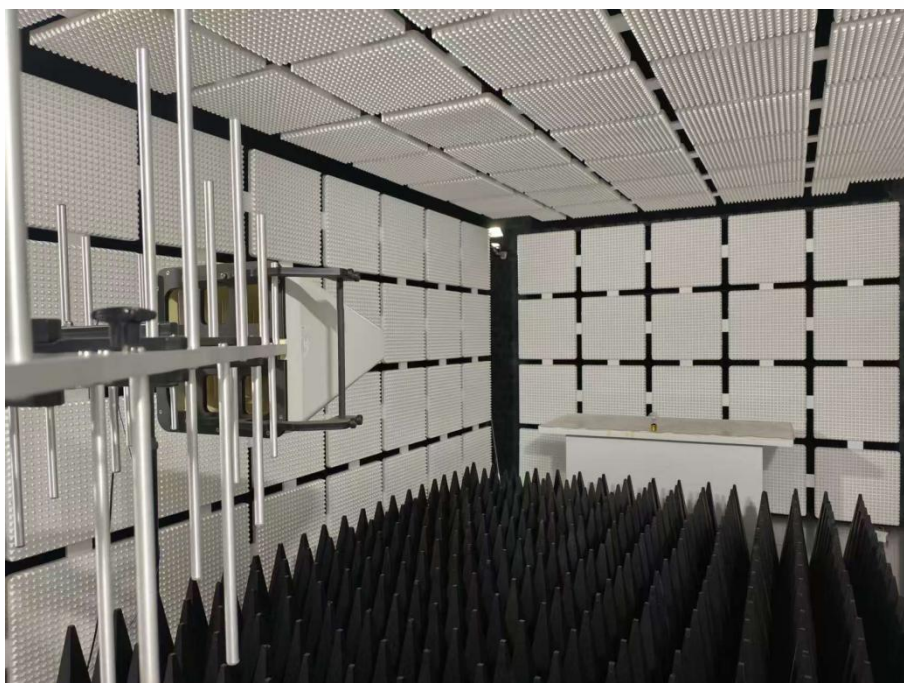
Radiated Emission:



Electrostatic Discharges (ESD):

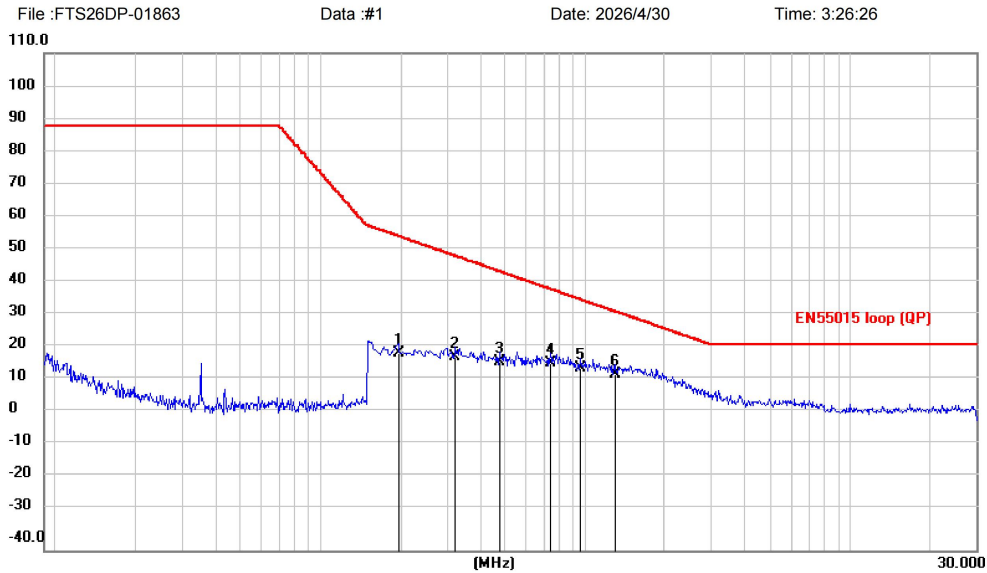


Radio-frequency Electromagnetic Fields (RF):





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Site LAB

Limit: EN55015 loop (QP)

EUT: LED filament desktop lamp

M/N: MO2797-72

Mode: Lighting mode

Note:

Power: DC6V

Temperature: 26

Humidity: 51 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB			dB		
1		0.1949	22.03	-2.77	19.26	54.85	-35.59	QP	
2		0.3209	20.77	-2.64	18.13	48.86	-30.73	QP	
3		0.4739	19.25	-2.62	16.63	44.18	-27.55	QP	
4		0.7395	18.55	-2.26	16.29	38.83	-22.54	QP	
5		0.9600	17.45	-2.68	14.77	35.69	-20.92	QP	
6	*	1.2975	15.81	-2.68	13.13	32.07	-18.94	QP	

*:Maximum data x:Over limit !:over margin

(Reference Only)

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Page: 1

Engineer Signature:



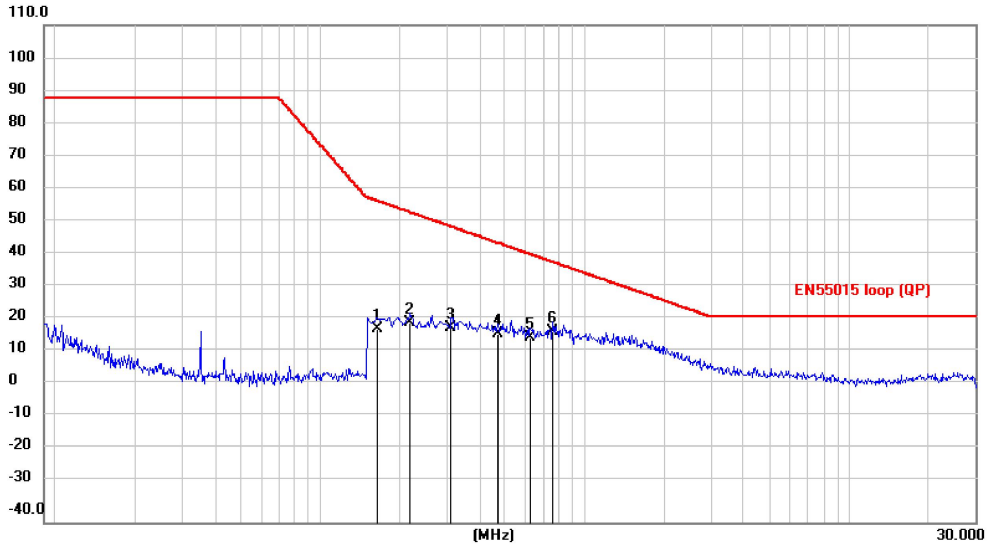
Guangdong Future Test Services co., Ltd.
Tel: +86-760-22185188
Fax: +86-760-22582768

File :FTS26DP-01863

Data :#2

Date: 2026/4/30

Time: 3:30:19



Site LAB

Limit: EN55015 loop (QP)

EUT: LED filament desktop lamp

M/N: MO2797-72

Mode: Lighting mode

Note:

Power: DC6V

Temperature: 26
Humidity: 51 %

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment	Limit	Over dB	Detector	Comment
1		0.1635	20.73	-2.27	18.46	56.96	-38.50	QP	
2		0.2175	22.24	-2.23	20.01	53.53	-33.52	QP	
3		0.3119	20.64	-1.98	18.66	49.20	-30.54	QP	
4		0.4694	18.90	-2.03	16.87	44.29	-27.42	QP	
5		0.6225	18.21	-2.47	15.74	40.90	-25.16	QP	
6	*	0.7574	19.46	-1.99	17.47	38.54	-21.07	QP	

*:Maximum data x:Over limit !:over margin

⟨Reference Only

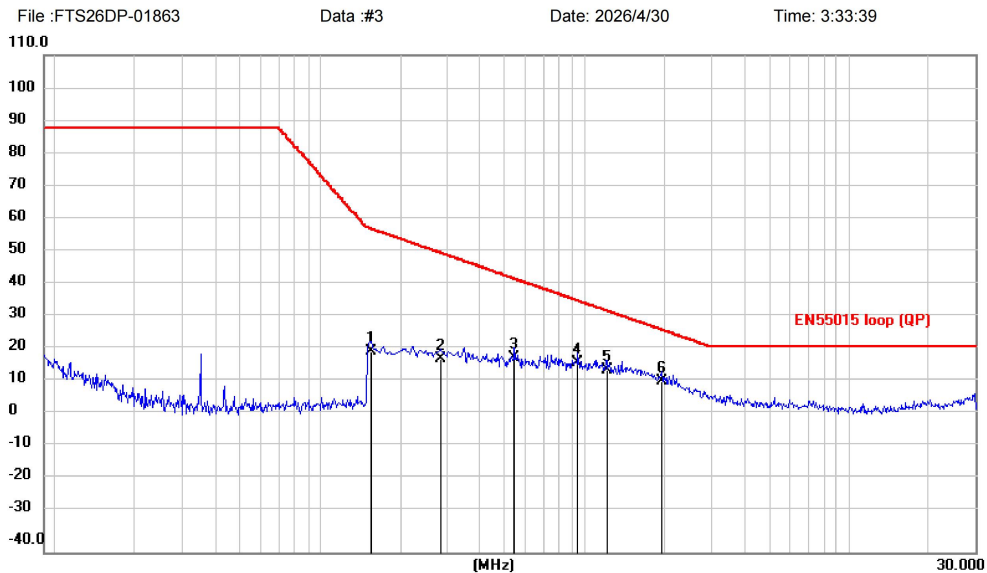
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Engineer Signature:



Guangdong Future Test Services co. , Ltd.
Tel: +86-760-22185188
Fax: +86-760-22582768



Site LAB

Limit: EN55015 loop (QP)

EUT: LED filament desktop lamp

M/N: MO2797-72

Mode: Lighting mode

Note:

Power: DC6V

Temperature: 26

Humidity: 51 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz		dB			dB		
1	0.1545	22.54	-1.92	20.62	57.64	-37.02	QP	
2	0.2850	20.24	-1.96	18.28	50.29	-32.01	QP	
3	0.5413	20.99	-2.37	18.62	42.58	-23.96	QP	
4	0.9465	19.23	-1.94	17.29	35.86	-18.57	QP	
5	1.2119	16.88	-2.04	14.84	32.89	-18.05	QP	
6 *	1.9500	13.99	-2.39	11.60	27.18	-15.58	QP	

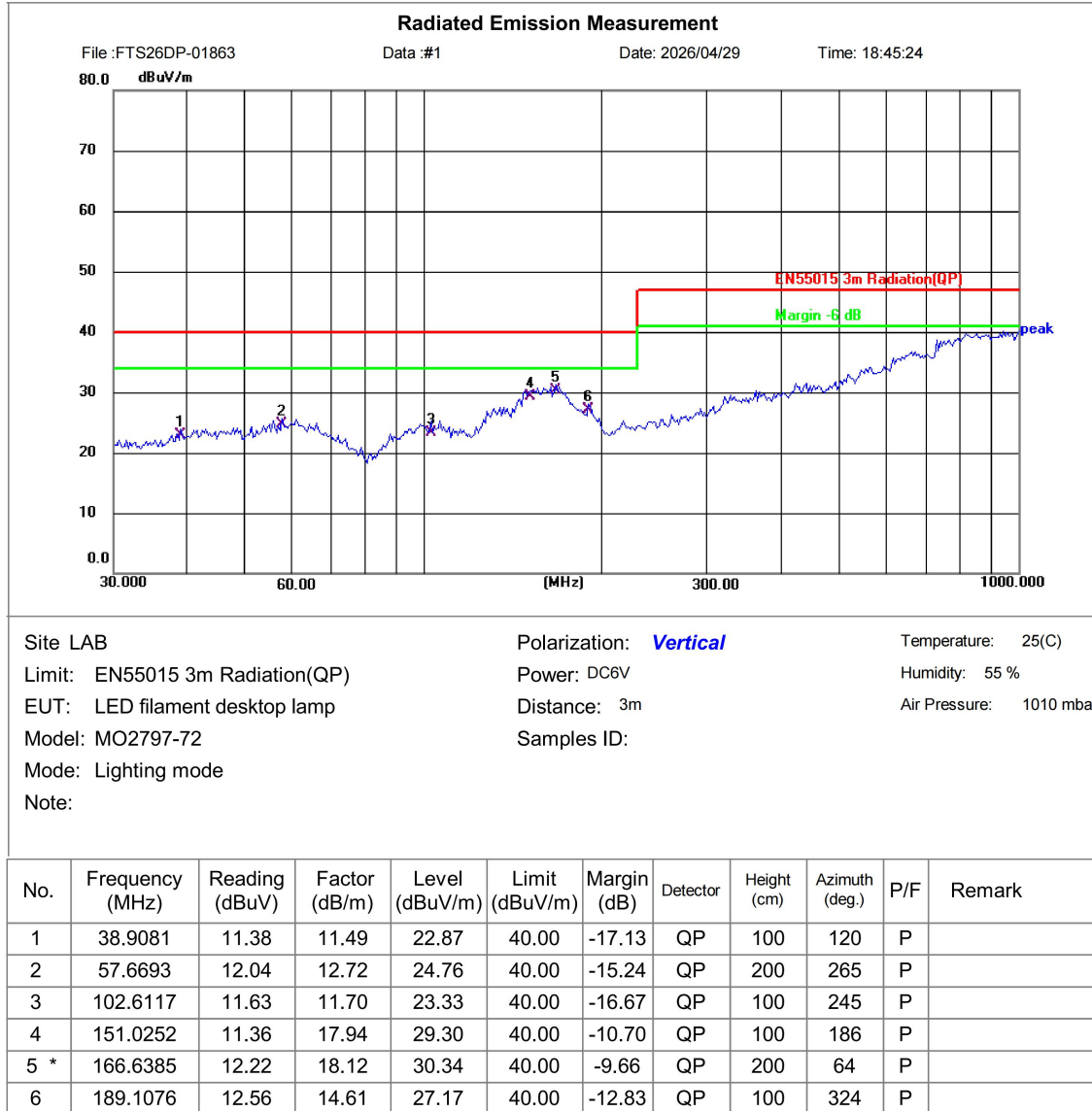
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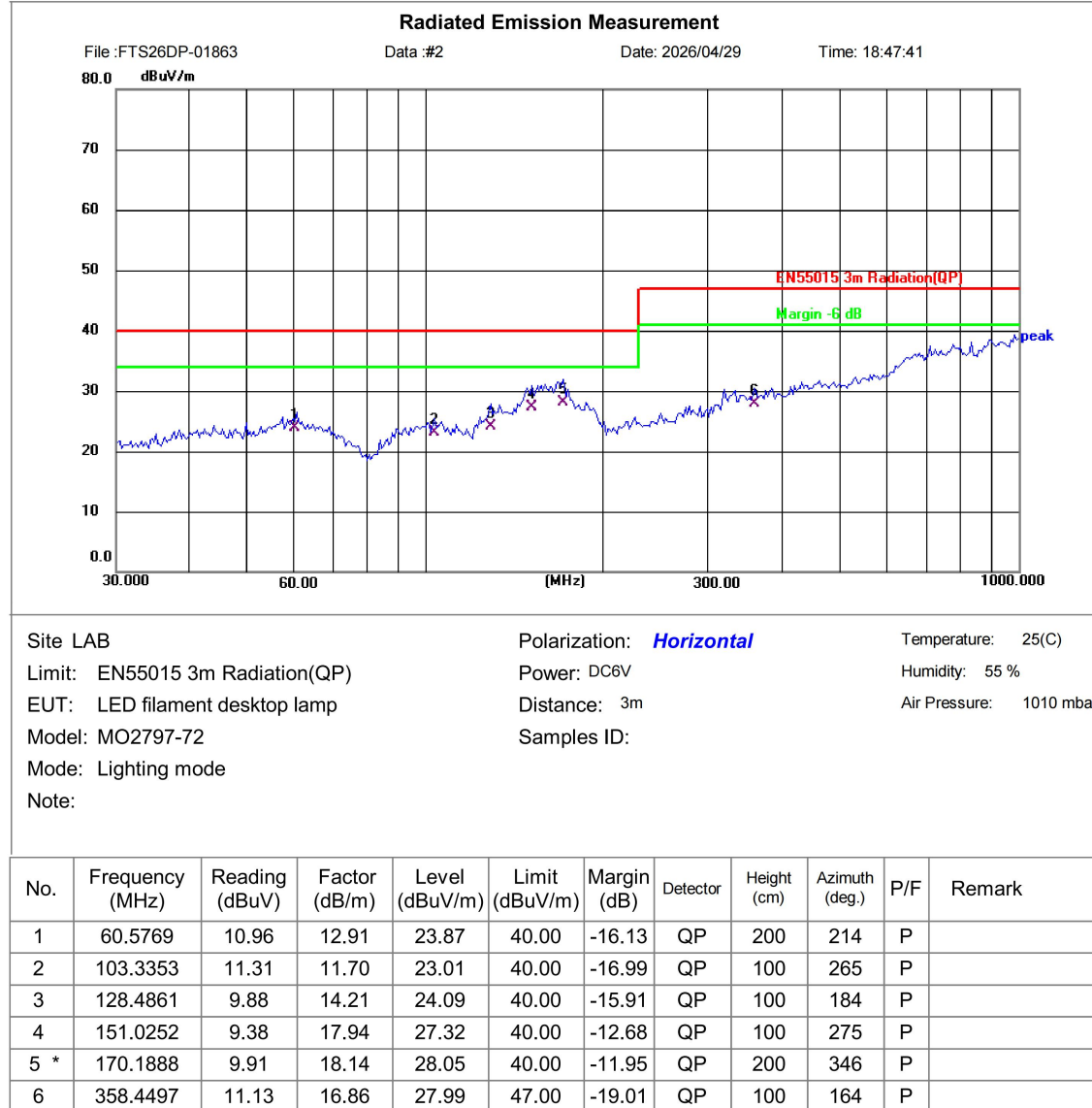


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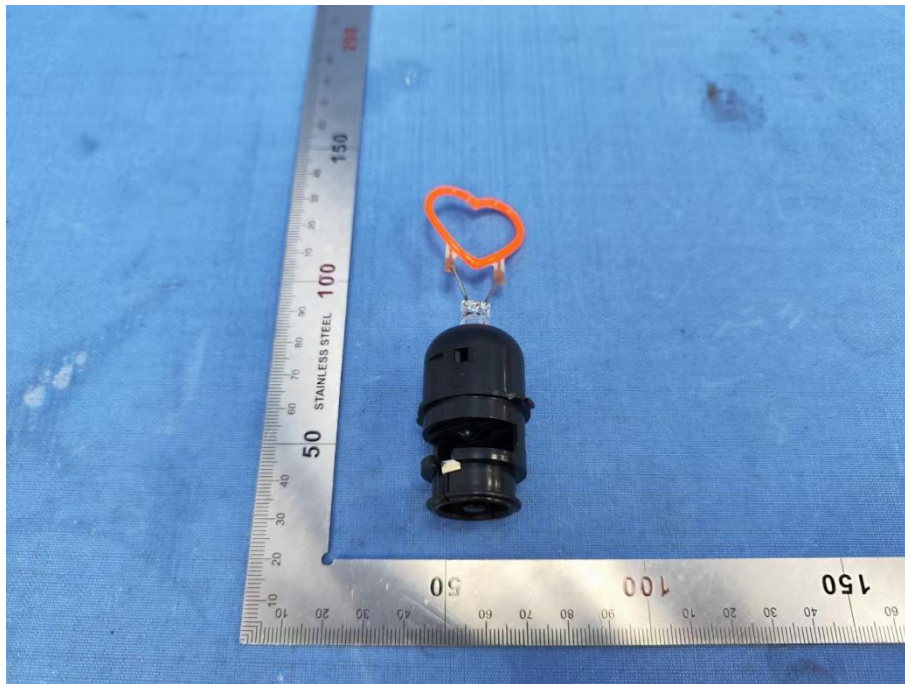
Model: MO2797-72



Picture 1



Picture 2



Picture 3



Picture 4

Model: CX1582-08



Picture 5

Model: CX1582-68



Picture 6

Magnetic Radiation ☒				
Equipment	Manufacturer	Model No.	Serial No.	Cal Until
EMI Test Receiver	R&S	ESCI3	1166.5950.03	25 Jul, 2026
Triple Loop Antenna	Laplace	RF300(ME9170-2m)	9186+ME25010	25 Feb, 2027
Radiated Emission (30MHz – 1000MHz) ☒				
Equipment	Manufacturer	Model No.	Serial No.	Cal Until
EMI Test Receiver	R&S	ESIB7	100082/007	16 Mar, 2027
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9161 SE	#4165	16 Mar, 2027
3m Semi-anechoic	YiHeng Electronics	9.0mx6.0mx6.0 m	FSF-EM001	24 Mar, 2027
RF Cable	FTS	FTS	/	16 Mar, 2027
Radio-frequency electromagnetic fields ☒				
Equipment	Manufacturer	Model No.	Serial No.	Cal Until
Signal Generator	R&S	SMB100A	1406.6000K02-108906-yF	25 Feb, 2027
Power Meter	Agilent	E4417A	MY45100420	25 Feb, 2027
Radio frequency switch	Tonscend	JS0806S	22B8060550	25 Feb, 2027
power Sensor	Agilent	E9323A	MY44420905	25 Feb, 2027
power Sensor	Agilent	E9323A	MY57070002	25 Feb, 2027
Power Amplifier	micotop	MPA-1000-6000-100	MPA2209324	26 Feb, 2027
Power Amplifier	micotop	MPA-80-1000-250	MPA2209323	25 Feb, 2027
Electric field probe	Naeda	EP 601	811ZX2077	25 Feb, 2027
Antenna	Schwarzbeck	STLP 9129	247	25 Feb, 2027
anechoic chamber	HTEC Test	7m*4m*3m	N/A	26 Feb, 2029

-----End of test report-----