



TEST REPORT

Report No.: STSGZ2309013050E

Date: 18-Sep-2023

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Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Item Name: Bottle with touch thermometer

Model: MO9796

Receiving Date: 1-Sep-2023

Test Period: From 1-Sep-2023 to 14-Sep-2023

Add Information: -

Report Summary

#	Test item(s)	Reference Standard/Method	Result
1	EMC test - The Council EMC directive 2014/30/EU	EN IEC 61000-6-3:2021, EN IEC 61000-6-1:2019	PASS

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS


Mark Mai
(Technical Director)



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Result:

1. GENERAL INFORMATION

1.1 Description of Device (EUT)3w

Description	:	Bottle with touch thermometer
Model Number	:	MO9796
Remark	:	N/A

1.2 Operational Mode(s) of EUT

Order Number	:	Test Mode(s)
1	:	Running

1.3 Test Voltage(s) of EUT

Order Number	:	Test Voltage(s)
1	:	DC 3V by Batteries

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2. DESCRIPTION OF TEST STANDARD

The intention of this publication is to establish uniform requirements for the radio disturbance level of the equipment contained in the scope, to fix limits of disturbance, to describe methods of measurement and to standardize operating conditions and interpretation of results.

The following referenced standard are indispensable for the application of this report.

Referenced Description below:

EN IEC 61000-6-3:2021

Electromagnetic compatibility (EMC)-- Part 6-3: Generic standards- Emission standard for residential, commercial and light-industrial environments.

EN IEC 61000-6-1:2019

Electromagnetic compatibility (EMC)--Part 6-1: Generic standards-Immunity for residential, commercial and light-industrial environments.

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3. SUMMARY OF TEST RESULTS

EMISSION			
Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN IEC 61000-6-3:2021	---	N/A
Radiated disturbance	EN IEC 61000-6-3:2021	---	PASS
Harmonic current emissions	EN IEC 61000-3-2:2019+A1:2021	---	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013+A1:2019+A2:2021	---	N/A
IMMUNITY (EN IEC 61000-6-1:2019)			
Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	EN 61000-4-2:2009	B	PASS
Radio-frequency, Continuous radiated disturbance	EN IEC 61000-4-3:2020	A	PASS
Electrical fast transient (EFT)	EN 61000-4-4:2012	---	N/A
Surge (Input d.c. power ports)	EN 61000-4-5:2014+A1:2017	---	N/A
Surge (Telecommunication ports)		---	N/A
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6:2014	---	N/A
Power frequency magnetic field	EN 61000-4-8:2010	A	PASS
Voltage dips, 0% reduction	EN IEC 61000-4-11:2020	---	N/A
Voltage dips, 30% reduction	EN IEC 61000-4-11:2020	---	N/A
Voltage interruptions	EN IEC 61000-4-11:2020	---	N/A
N/A is an abbreviation for Not Applicable.			

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4. BLOCK DIAGRAM OF TEST SETUP

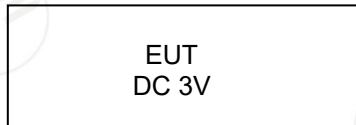
The equipments are installed test to meet EN61000-6-3 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application. EUT was tested in normal configuration (Please See following Block diagrams)

4.1 Block Diagram of connection between EUT and simulation-EMI



(EUT: Bottle with touch thermometer)

4.2 Block Diagram of connection between EUT and simulation-EMS



(EUT: Bottle with touch thermometer)

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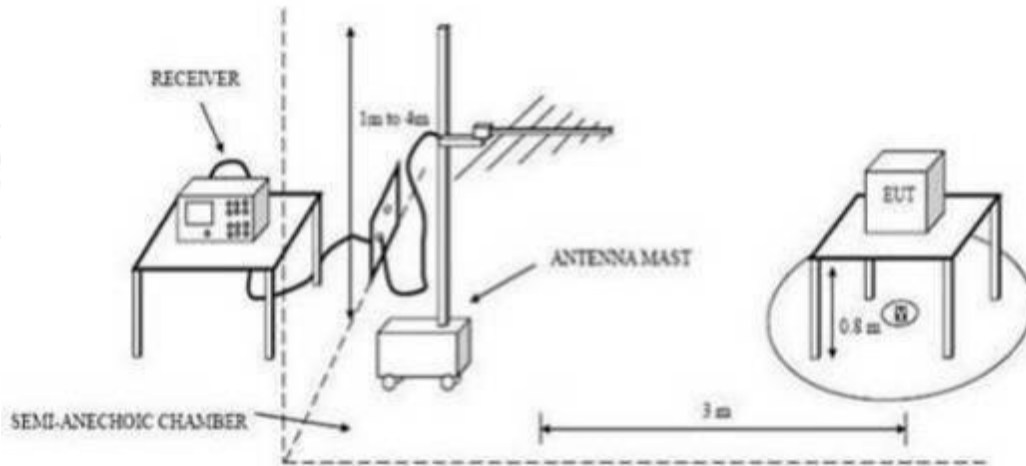
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5. RADIATED DISTURBANCE TEST

5.1. Configuration of Test System



5.2. Test Standard

EN IEC 61000-6-3:2021

5.3. Radiated Disturbance Limit

All emanations from devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: 1. The lower limit shall apply at the transition frequencies.

2. Distance refers to the distance in meters between the test antenna and the closed point of any part of the EUT.

5.4. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 10m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to EN 61000-6-3 on Radiated Disturbance test.

The bandwidth setting on the test receiver is 120 kHz.

The frequency range from 30MHz to 1000MHz is checked. The test result are reported on Section 5.5.

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5.5. Radiated Disturbance Test Results

5.5.1. Test Results: **PASS**

5.5.2. Emission Level= Correct Factor + Reading Level.

5.5.3. All reading are Quasi-Peak values.

5.5.4. The test data and the scanning waveform are attached within Appendix I.

6. IMMUNITY PERFORMANCE CRITERIA

The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance level by its manufacturer or the requestor of the test, or the agreed between the manufacturer and the purchaser of the product.

Criterion A:

The apparatus shall continue to operate as intended during the test and 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. 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. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed, however. No change of actual operation 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 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.

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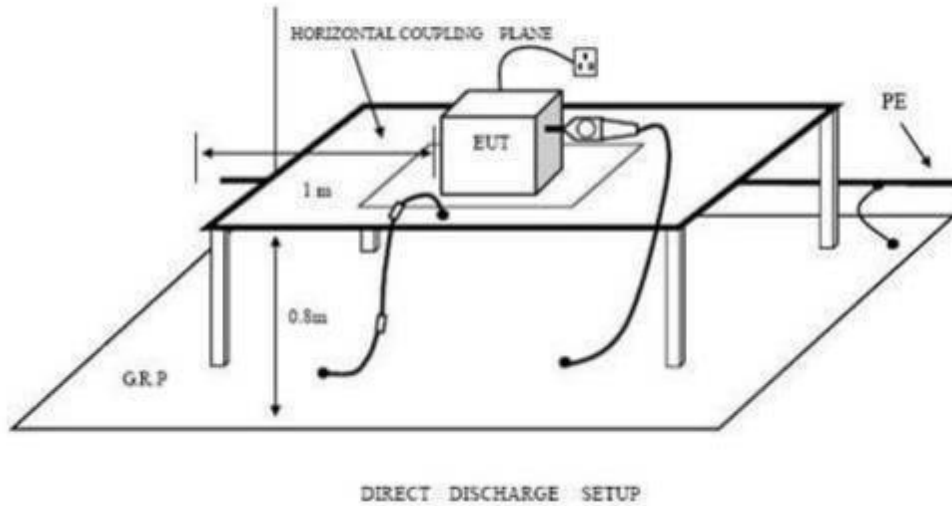
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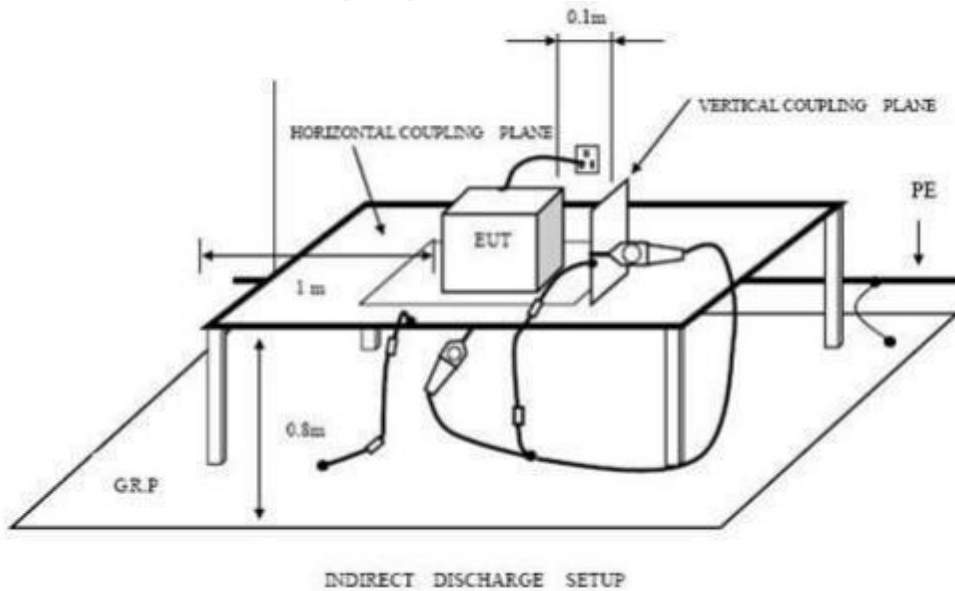
7. ELECTROSTATIC DISCHARGE IMMUNITY TEST

7.1.Configuration of Test System

7.1.1. Configuration of ESD Test System(Direct Discharge)



7.1.2.Configuration of ESD Test System(Indirect Discharge)



7.2.Test Standard

EN IEC 61000-6-1:2019 (EN 61000-4-2)

(Severity Level 3 for Air Discharge at 8KV, Severity Level 2 for Contact Discharge at 4KV)

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7.3. Severity Levels and Performance Criterion

7.3.1. Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X	Special	Special

7.3.2. Performance criterion : B

7.4. Test Procedure

7.4.1. Air Discharge:

The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 20 times for each pre-selected test point. This procedure was repeated until all the air discharge completed

7.4.2. Contact Discharge:

All the procedure was same as Section 7.4.1. except that the generator was re-triggered for a new single discharge for each pre-selected test point. The tip of the discharge electrode was touch the EUT before the discharge switch was operated.

7.5. Test Results

7.5.1. Test Results: **PASS**

7.5.2. Test data on the following pages.



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Electrostatic Discharge Test Results

Test Voltage :	1	Test Date:	Sep.05,2023
Test Mode :	1	Criterion :	B
Temperature:	28.5 °C	Humidity:	54.1%
Air Discharge: ±8KV # For Air Discharge each Point Positive 10 times and negative 10 times discharge.			
Contact Discharge: ±4KV # For Contact Discharge each point positive 10 times and negative 10 times discharge			
Test Results Description			
Location	Kind A-Air Discharge C-Contact Discharge	Result	
Keys	A	PASS	
Metal case	C	PASS	
Monitor	A	PASS	
HCP	C	PASS	
VCP of Front	C	PASS	
VCP of Rear	C	PASS	
VCP of Left	C	PASS	
VCP of Right	C	PASS	
Remark :			

Discharge was considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

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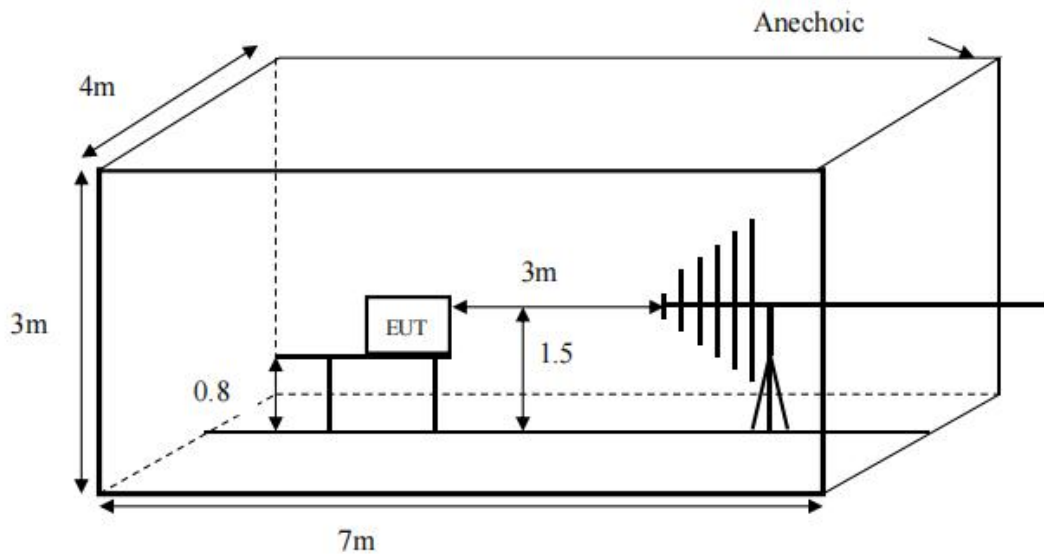
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8. RF FIELD STRENGTH SUSCEPTIBILITY TEST

8.1.Configuration of Test System



8.2.Test Standard

EN IEC 61000-6-1:2019 (EN IEC 61000-4-3)

(Severity Level: 2 at 3V / m)

8.3.Severity Levels and Performance Criterion

8.3.1.Severity level

Level	Test Field Strength V/m
1.	1
2.	3
3.	10
X	Special

8.3.2.Performance criterion : A

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8.4. Test Procedure

Testing was performed in a Fully anechoic chamber as recommended by EN IEC 61000-4-3. The EUT was placed on an 80 cm high non-conductive table located in the area of field uniformity. The radiating antenna was placed 3m in front of the EUT and Support system, and dwell time of the radiated interference was controlled by an automated, computer-controlled system. The signal source was stepped through the applicable frequency range at a rate no faster than 1% of the fundamental. The signal was amplitude modulated 80% over the frequency range 80 MHz to 1GHz and 1.4GHz to 6GHz at a level of 3 V/m. The dwell time was set at 1.5 s. Field presence was monitored during testing via a field probe placed in close proximity to the EUT. Throughout testing, the EUT was closely monitored for signs of susceptibility. The test was performed with the antennae oriented in both a horizontal and vertical polarization.

All the scanning conditions are as follows :

Condition of Test	Remarks
1. Test Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	80% amplitude modulated with a 1 kHz sine wave
3. Scanning Frequency	80 - 1000 MHz
4. Sweeping time of radiated	0.0015 decade/s
5. Dwell Time	1.5 Sec.

8.5. Test Results

8.5.1. Test Results: **PASS**

8.5.2. Test data on the following pages.



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RF Field Strength Susceptibility Test Results

Test Voltage :	1	Test Date:	Sep.05,2023
Test Mode:	1	Frequency Range:	80-1000MHz
Field Strength :	3 V/m	Criterion :	A
Temperature:	28.5 °C	Humidity:	54.1%
Modulation: ☒ AM ☐ Pulse ☐ none 1 kHz 80%			
Test Results Description			
Frequency Rang 1: 80MHz - 1000 MHz			
Steps	1%	1%	
	Horizontal	Vertical	
Front	PASS	PASS	
Right	PASS	PASS	
Rear	PASS	PASS	
Left	PASS	PASS	
Note: No function loss			

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RF Field Strength Susceptibility Test Results

Test Voltage :	1	Test Date:	Sep.05,2023
Test Mode:	1	Frequency Range:	1.4GHz-6GHz
Field Strength :	3 V/m	Criterion :	A
Temperature:	28.5 °C	Humidity:	54.1%
Modulation: ☒ AM ☐ Pulse ☐ none 1 kHz 80%			
Test Results Description			
Frequency Rang 1: 1400MHz - 6000 MHz			
Steps	1%	1%	
	Horizontal	Vertical	
Front	PASS	PASS	
Right	PASS	PASS	
Rear	PASS	PASS	
Left	PASS	PASS	
Note: No function loss			

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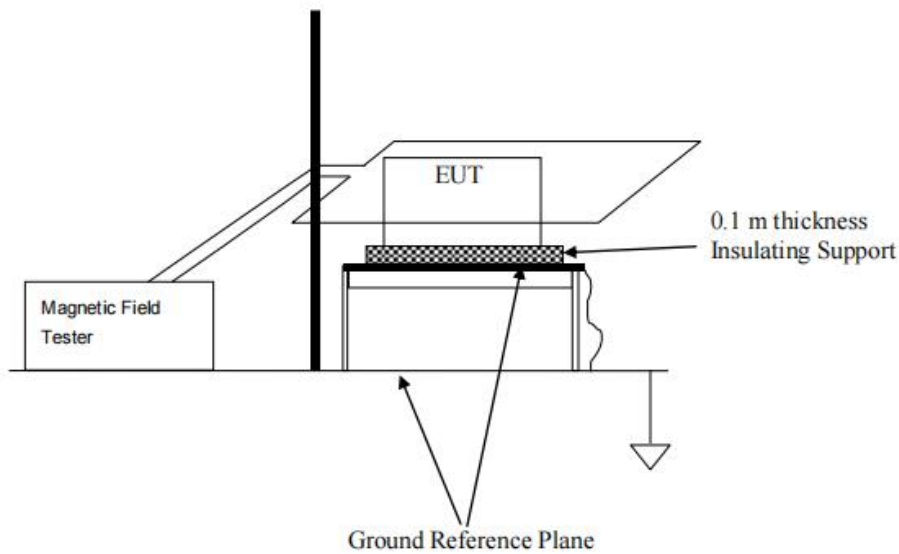
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9. MAGNETIC FIELD IMMUNITY TEST

9.1. Configuration of Test System



9.2. Test Standard

EN IEC 61000-6-1:2019 (EN 61000-4-8)(Severity Level 2 at 3A/m)

9.3. Severity Levels and Performance Criterion

9.3.1. Severity level

Level	Magnetic Field Strength A/m
1.	1
2.	3
3.	10
4.	30
5.	100
X	Special

9.3.2. Performance criterion : A

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9.4. Test Procedure

The EUT was subjected to the test magnetic field by using the induction coil of standard dimensions (1m*1m) and shown in Section 9.1. The induction coil was then rotated by 90° in order to expose the EUT to the test field with different orientations.

9.5. Test Results

9.5.1. Test Results: **PASS**

9.5.2. Test data on the following pages

Magnetic Field Immunity Test Results

Shenzhen Most Technology Service Co., Ltd.

Test Voltage	:	1	Test Date:	Sep.05,2023	
Test Mode	:	1	Criterion	A	
Temperature:		28.5 °C	Humidity:	54.1%	
Test Results Description					
Test Level		Testing Duration	Coil Orientation	Criterion	Result
3A/m(50Hz/60Hz)		5 mins	X	A	PASS
3A/m(50Hz/60Hz)		5 mins	Y	A	PASS
3A/m(50Hz/60Hz)		5 mins	Z	A	PASS
Remark: No function loss					

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EUT:	Bottle with touch thermometer	M/N:	MO9796
Mode:	Running	Polarization:	Vertical
Test by:	Rosa	Power:	DC 3V by Batteries
Temperature: / Humidity	28.5°C/54.1%	Test date:	2023-09-05



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		43.6584	12.58	11.39	23.97	40.00	-16.03	QP		
2		69.8450	11.92	9.29	21.21	40.00	-18.79	QP		
3		236.6447	4.36	14.17	18.53	47.00	-28.47	QP		
4		431.0316	3.35	19.04	22.39	47.00	-24.61	QP		
5		618.5369	4.21	24.04	28.25	47.00	-18.75	QP		
6	*	942.1305	5.44	29.42	34.86	47.00	-12.14	QP		

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

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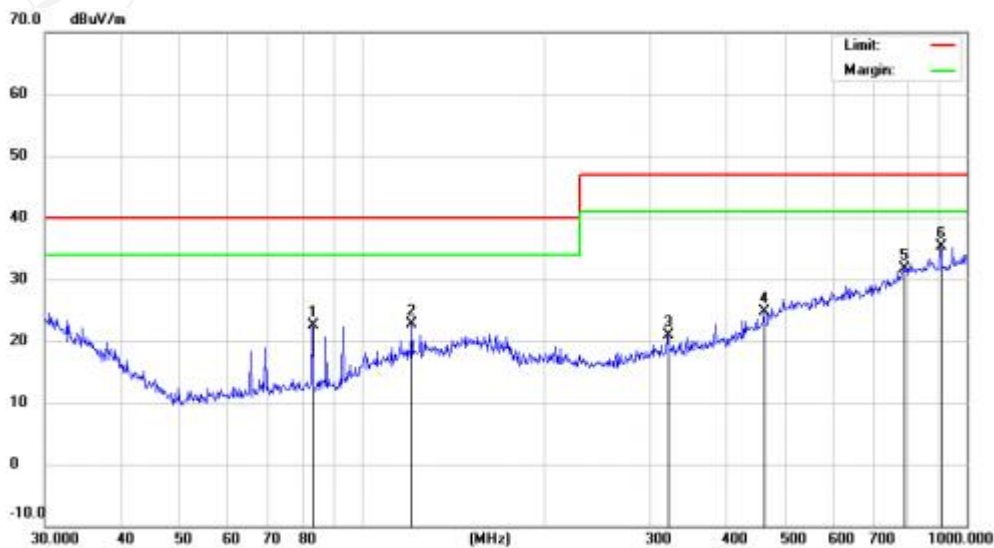
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EUT:	Bottle with touch thermometer	M/N:	MO9796
Mode:	Running	Polarization:	Horizontal
Test by:	Rosa	Power:	DC 3V by Batteries
Temperature: / Humidity	28.5°C/54.1%	Test date:	2023-09-05



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Detector	Antenna Height cm	Table Degree	Comment
1		82.9385	12.40	10.04	22.44	40.00	-17.56	QP			
2		121.1231	6.85	15.84	22.69	40.00	-17.31	QP			
3		319.9370	5.00	15.88	20.88	47.00	-26.12	QP			
4		462.3455	3.96	20.70	24.66	47.00	-22.34	QP			
5		787.8513	4.18	27.56	31.74	47.00	-15.26	QP			
6	*	903.3094	6.27	29.03	35.30	47.00	-11.70	QP			

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

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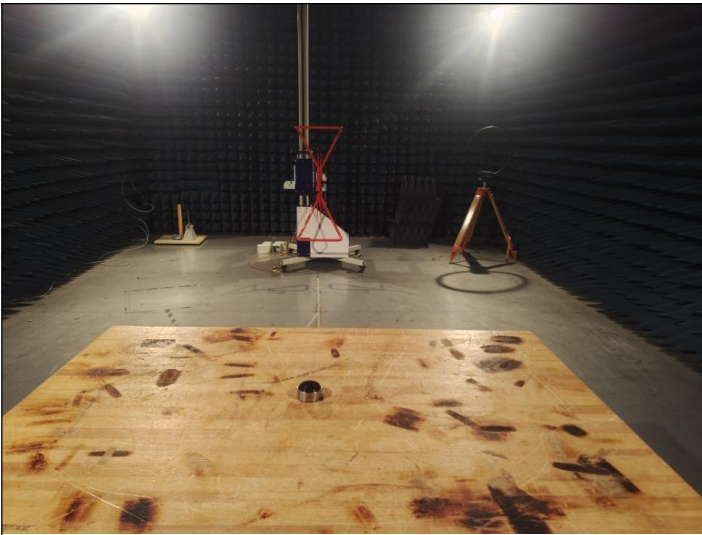
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Test Sample Photo:



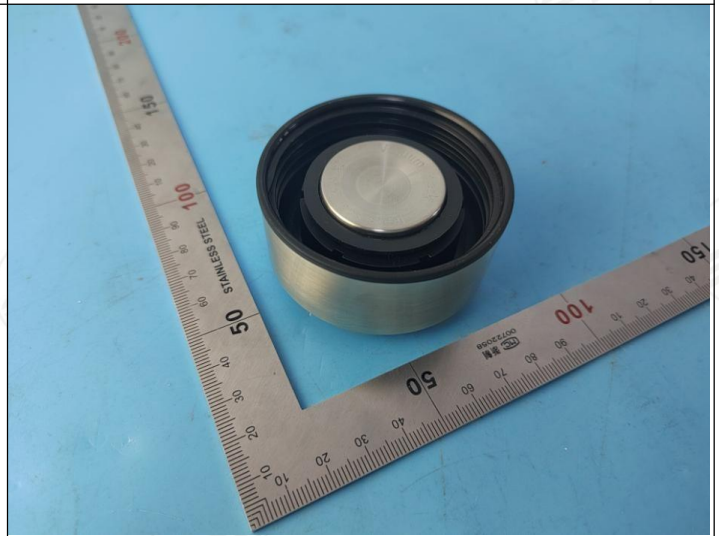
Radiated Test Setup Photograph



ESD Test Setup Photograph



General Appearance of the EUT



General Appearance of the EUT

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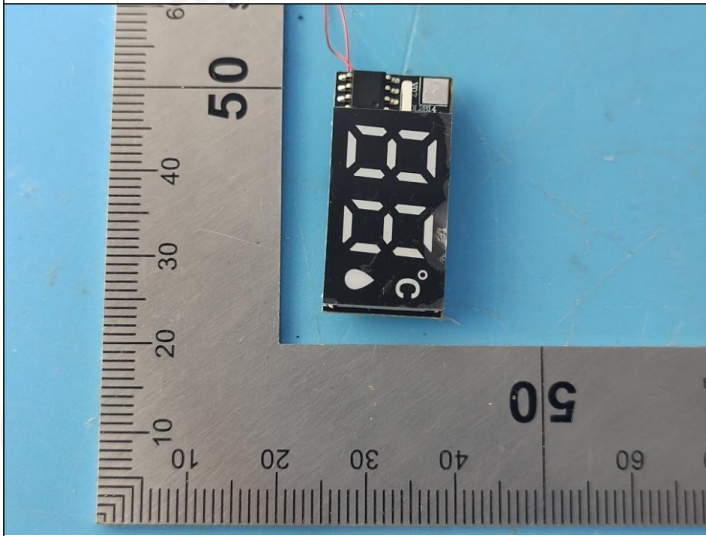
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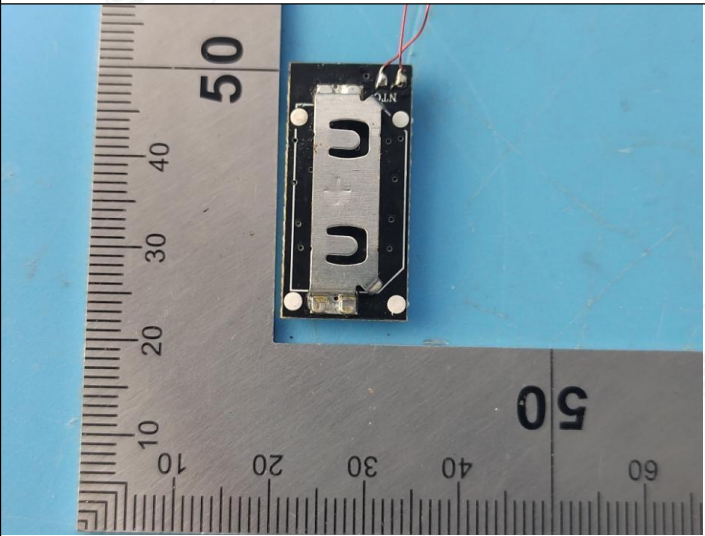
Internal of the EUT



Internal of the EUT



PCB of the EUT



PCB of the EUT

Test Sample Photo

Remark(s): The test data was copied from report STSGZ2309013044E.

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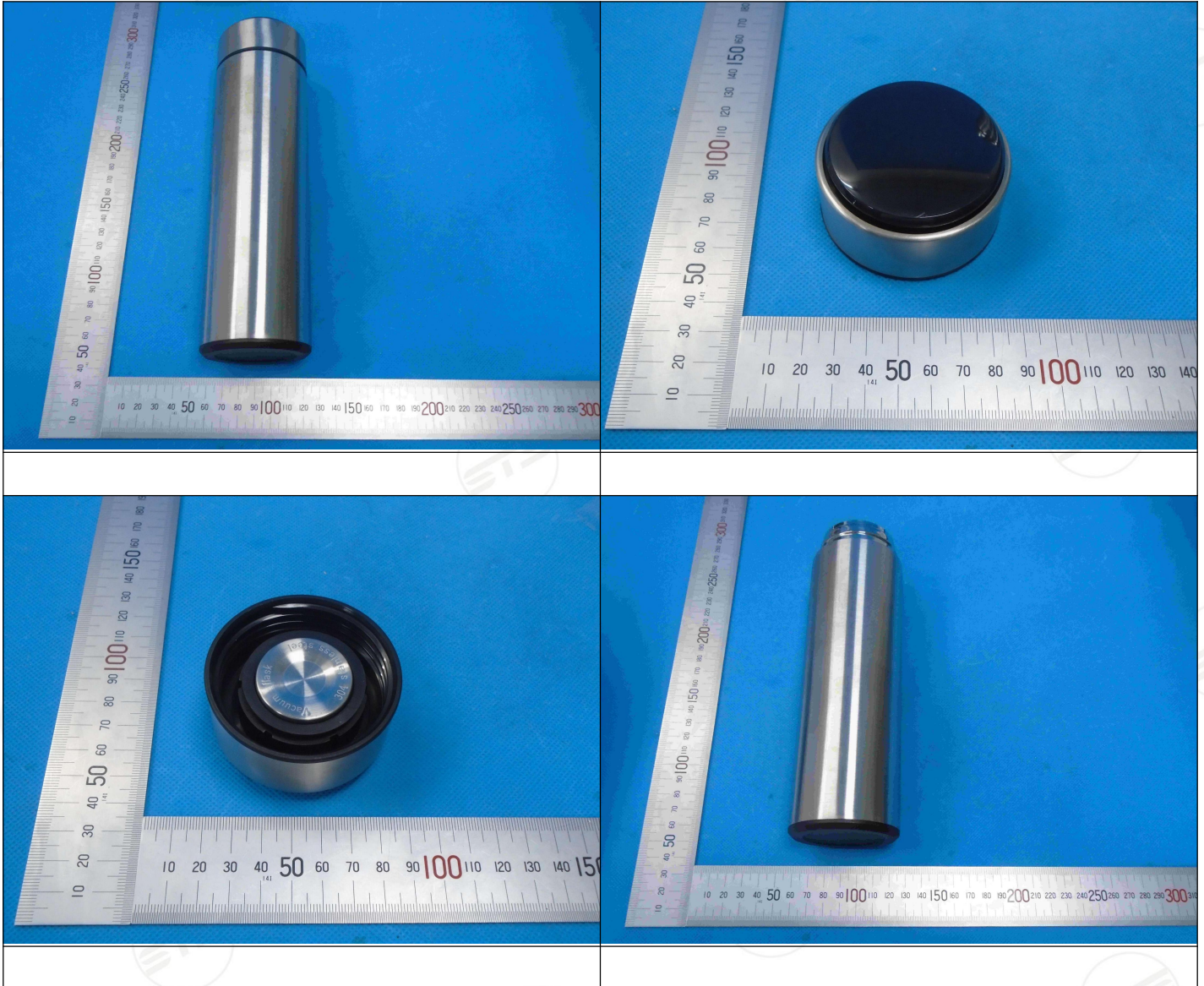
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Photo(s):



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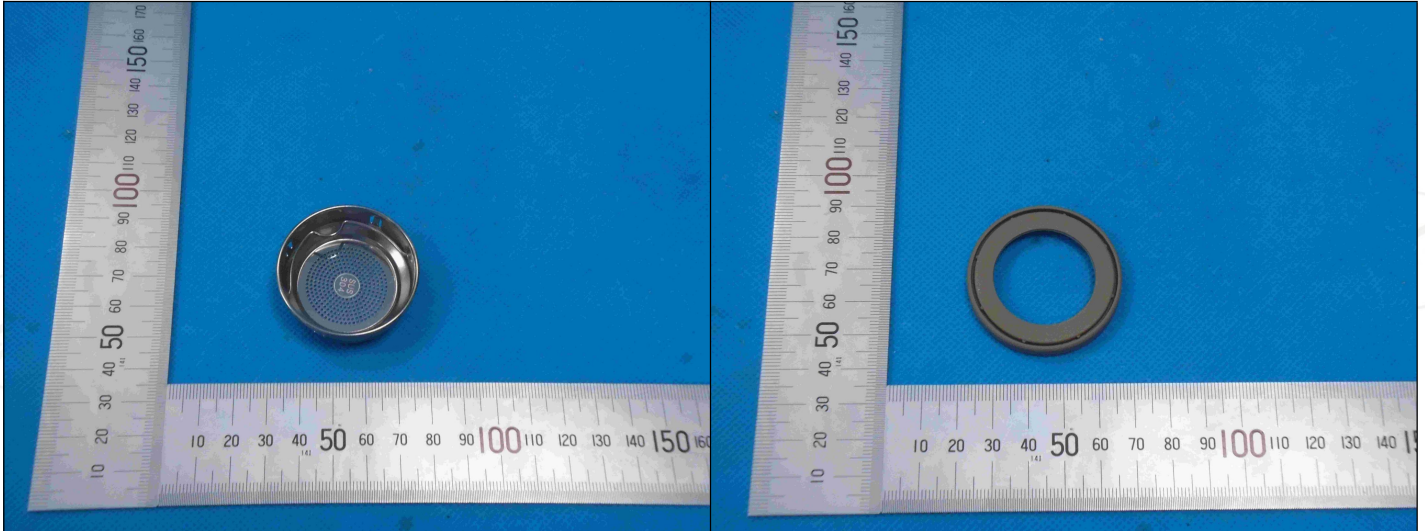


TEST REPORT

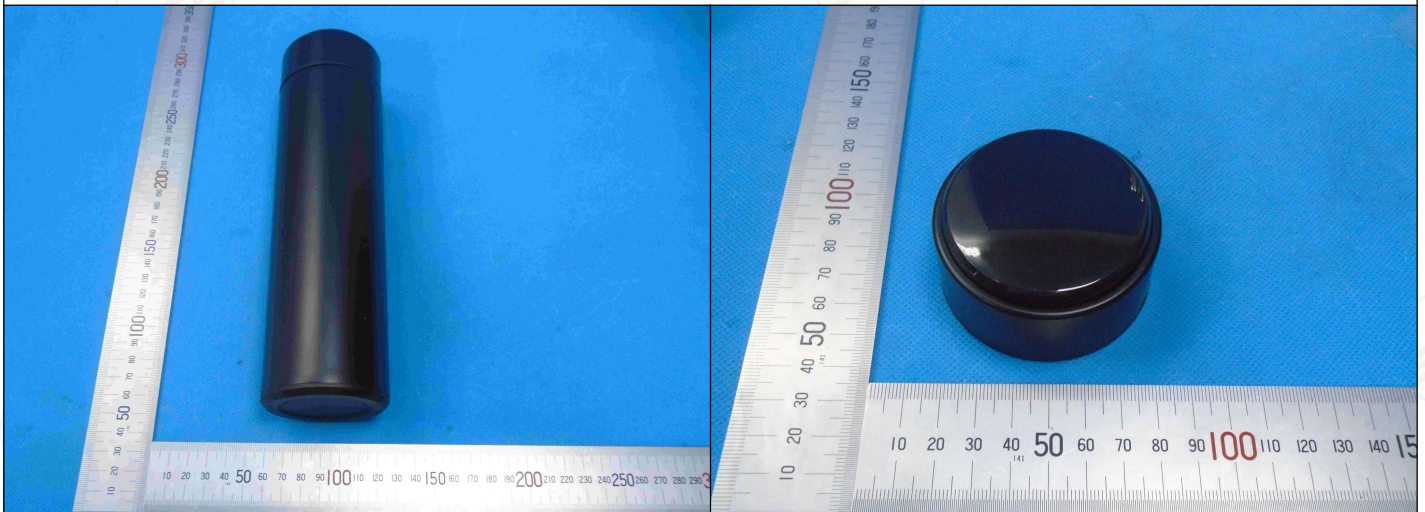
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Test Sample Photo



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Product Photo

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签发测试报告条款

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All samples and goods are accepted by the Guangzhou Depuhua Test Services Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
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