



TEST REPORT

Report No.: STSGZ2203283080E

Date: 7-Apr-2022

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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:

Sample Name: Glass bubble with 8 LED light

Model/Style/Item #: CX1514

Receiving Date: 28-Mar-2022

Test Period: From 28-Mar-2022 to 2-Apr-2022

Add Information: -

Report Summary

#	Test item(s)	Reference Standard/Method	Result
1	EMC test - The Council EMC directive 2014/30/EU	EN 61000-6-3:2007+A1:2011, EN IEC 61000-6-1:2019 (IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007+A2+2010, IEC 61000-4-8:2009)	PASS

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

Signed for and on behalf of STS

Bovey Yang

Bovey Yang
(Chemical Test Manager)



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Result:

1. GENERAL INFORMATION

1.1 Description of Device (EUT)

Description	:	Glass bubble with 8 LED light
Model Number	:	CX1514
Remark	:	N/A

1.2 Operational Mode(s) of EUT

Order Number	:	Test Mode(s)
1	:	ON

1.3 Test Voltage(s) of EUT

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

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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 55015:2019+A11:2020

Limits and methods of measurement of radio disturbance characteristics of electrical Torching and similar equipment.

EN 61547:2009

Equipment for general Torching purposes - EMC immunity requirements.

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3. SUMMARY OF TEST RESULTS

EMISSION			
Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN IEC 55015:2019+A11:2020	---	N/A
Magnetic test	EN IEC 55015:2019+A11:2020	---	PASS
Radiated disturbance	EN IEC 55015:2019+A11:2020	---	PASS
Harmonic current emissions	EN IEC 61000-3-2:2019+A1:2021	---	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013+A1:2019	---	N/A
IMMUNITY (EN 61547:2009)			
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	B	N/A
Surge (Input a.c. power ports)	EN 61000-4-5:2014+A1:2017	B	N/A
Surge (Telecommunication ports)		A	N/A
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6:2014	A	PASS
Power frequency magnetic field	EN 61000-4-8:2010	B	N/A
Voltage dips, 100% reduction	EN IEC 61000-4-11:2020	C	N/A
Voltage dips, 30% reduction		B	PASS
N/A is an abbreviation for Not Applicable.			

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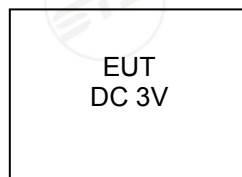
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4. BLOCK DIAGRAM OF TEST SETUP

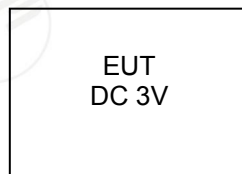
The equipments are installed test to meet EN 55015 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application. EUT was tested in normal configuration (Please See following Block diagrams)

4.1 Block Diagram of connection between EUT and simulation-EMI



(EUT:Glass bubble with 8 LED light)

4.2 Block Diagram of connection between EUT and simulation-EMS



(EUT:Glass bubble with 8 LED light)

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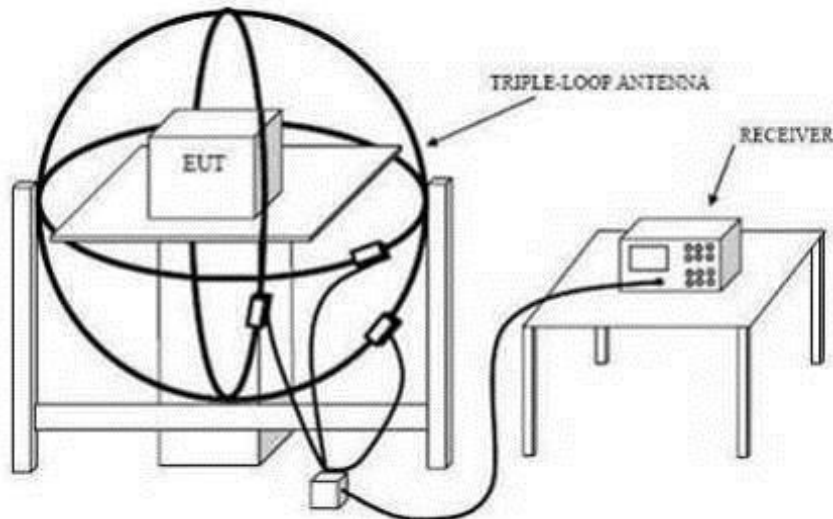
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5. MAGNETIC TEST

5.1 Configuration of Test System



5.2 Test Standard

EN IEC 55015:2019+A11:2020

5.3. Magnetic Field Emission Limit

Frequency (MHz)	Limits for loop diameter (dBuA)
	2m
0.009~0.07	88
0.07~0.15	88~58*
0.15~3.00	58~22*
3.00~30.0	22

Note: 1. At the transition frequency the lower limit applies.
2. *decreasing linearly with logarithm of the frequency.

5.4. Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. Three field components are checked by means of a coax switch.

The frequency range from 9 KHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9 KHz to 150 KHz, the bandwidth of the field strength meter (R&S test receiver ESCI) is set at 200Hz. For frequency band 150 KHz to 30MHz, the bandwidth is set at 9 KHz.

The test result are reported on Section 7.5.

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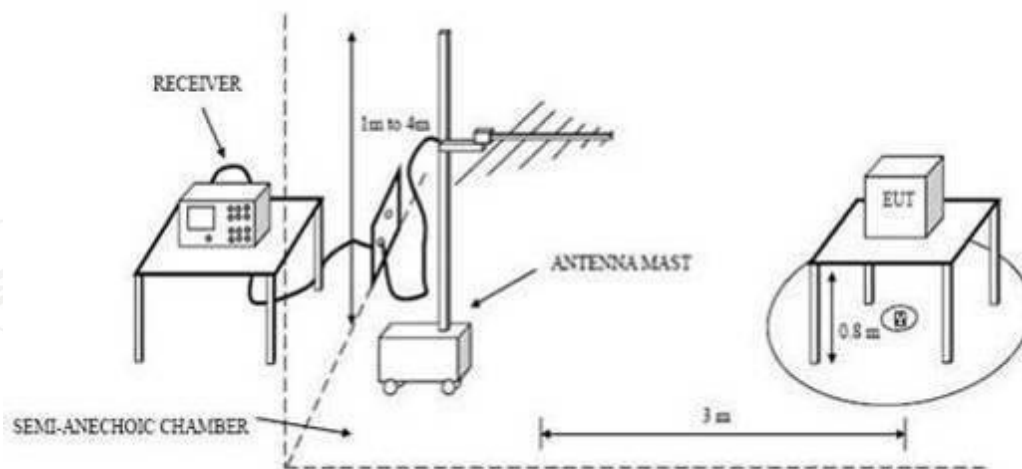
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5.5 Radiated Disturbance Test Results

5.5.1 Test Results: **PASS**

6. MAGNETIC TEST

6.1 Configuration of Test System



6.2 Test Standard

EN IEC 55015:2019+A11:2020

6.3 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.

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6.4 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 3m 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 IEC 55015 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 6.5.

6.5. Radiated Disturbance Test Results

6.5.1. Test Results: **PASS**

6.5.2. Emission Level= Correct Factor + Reading Level.

6.5.3. All reading are Quasi-Peak values.

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

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7. 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.

Definition related to the performance level:

Based on the used product standard

Based on the declaration of the manufacturer, requestor or purchaser

Criterion A:

During the test no change of the luminous intensity shall be observed and the regulating control, if any, shall operate during the test as intended.

Criterion B:

During the test the luminous intensity may change to any value. After the test the luminous intensity shall be restored to its initial value within 1 min.

Regulating controls need not function during the test, but after the test the mode of the control shall be the same as before the test provided that during the test no mode changing commands were given.

Criterion C:

During and after the test any change of the luminous intensity is allowed and the lamp(s) may be extinguished. After the test, within 30 min, all functions shall return to normal if necessary by temporary interruption of the mains supply and/or operating the regulating control.

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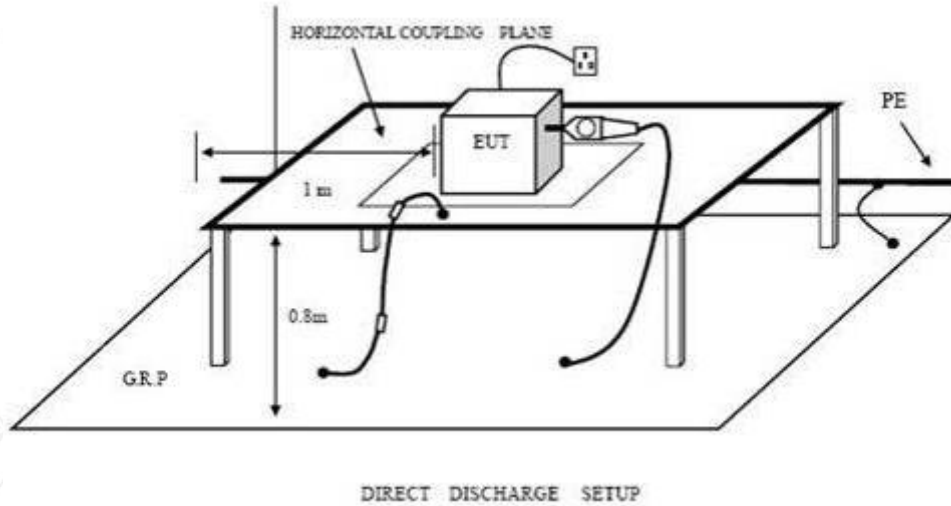
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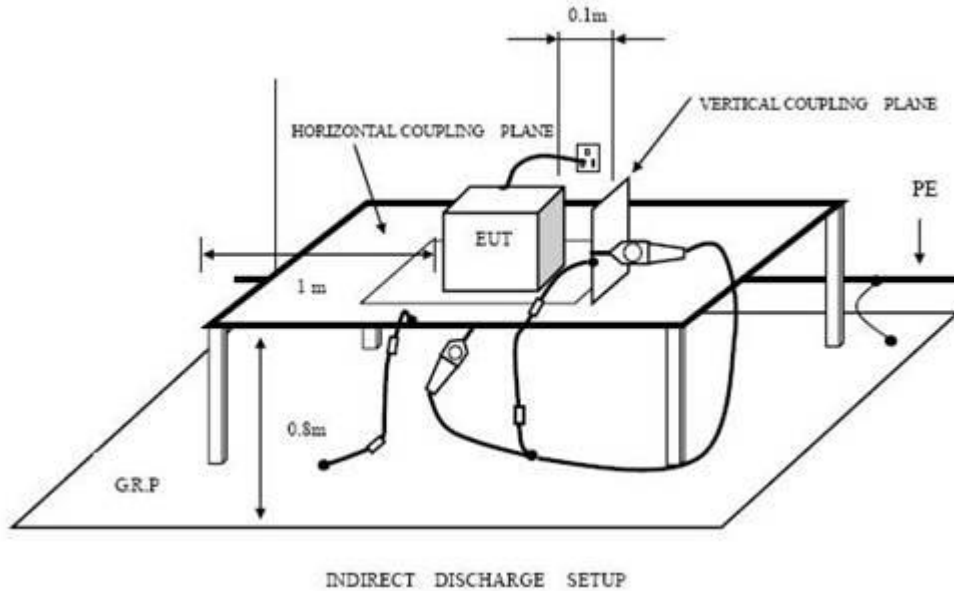
8. ELECTROSTATIC DISCHARGE IMMUNITY TEST

8.1 Configuration of Test System

8.1.1 Configuration of ESD Test System(Direct Discharge)



8.1.2 Configuration of ESD Test System(Indirect Discharge)



8.2 Test Standard

EN 61547:2009 (EN 61000-4-2)

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

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8.3 Severity Levels and Performance Criterion

8.3.1 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

8.3.2 Performance criterion : **B**

8.4 Test Procedure

8.4.1. 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 10 times for each pre-selected test point. This procedure was repeated until all the air discharge completed

8.4.2. Contact Discharge:

All the procedure was same as Section 13.4.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch was operated.

8.4.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

8.4.4. Indirect discharge for vertical coupling plane

At least 20 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT.

Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

8.5 Test Results

8.5.1 Test Results: **PASS**

8.5.2 Test data on the following pages.

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Electrostatic Discharge Test Results

Test Voltage	:	1	Test Date:	Mar.30,2022	
Test Mode	:	1	Criterion	:	B
Temperature:	31℃		Humidity:	52%	
Air Discharge: ±2,4 and 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 D-Discharge		Result
Gaps			A		PASS
Switch			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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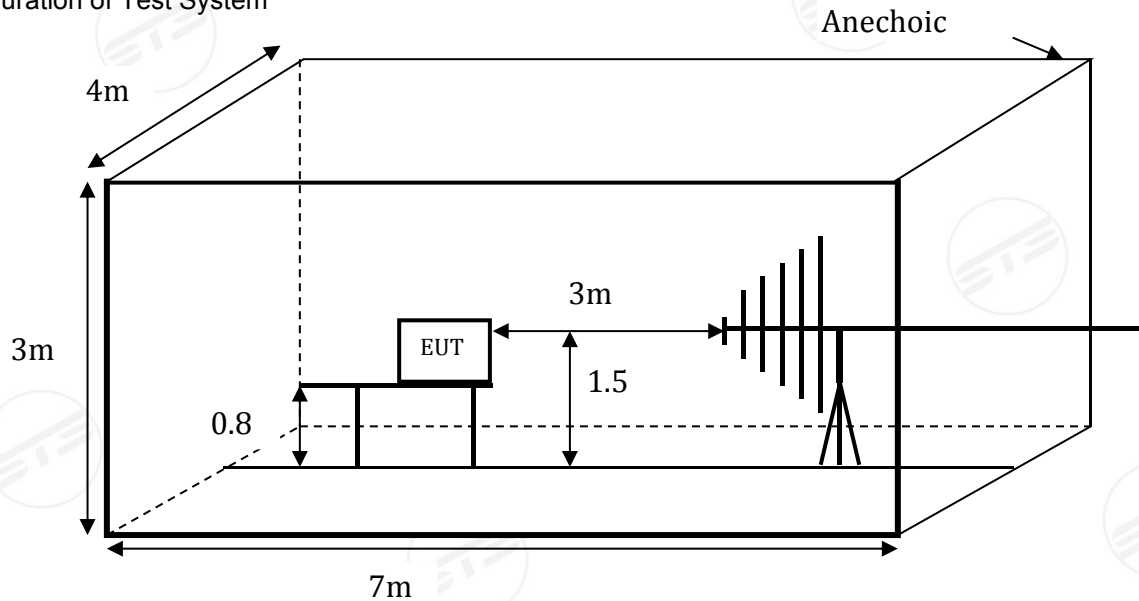
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9. RF FIELD STRENGTH SUSCEPTIBILITY TEST

9.1 Configuration of Test System



9.2 Test Standard

EN 61547:2009 (EN IEC 61000-4-3)
(Severity Level: 2 at 3V / m)

9.3 Severity Levels and Performance Criterion

9.3.1 Severity level

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

9.3.2 Performance criterion : A

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9.4 Test Procedure

Testing was performed in a Fully anechoic chamber as recommended by 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 1kHz sine wave
3. Scanning Frequency	80 - 1000 MHz
4. Sweeping time of radiated	0.0015 decade/s
5. Dwell Time	1.5 Sec.

9.5 Test Results

9.5.1 Test Results: **PASS**

9.5.2 Test data on the following pages

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RF Field Strength Susceptibility Test Results

Test Voltage:	1	Test Date:	Mar.30,2022
Test Mode:	1	Frequency Range:	80-1000MHz
Field Strength :	3 V/m	Criterion:	A
Temperature:	31.0℃	Humidity:	52%
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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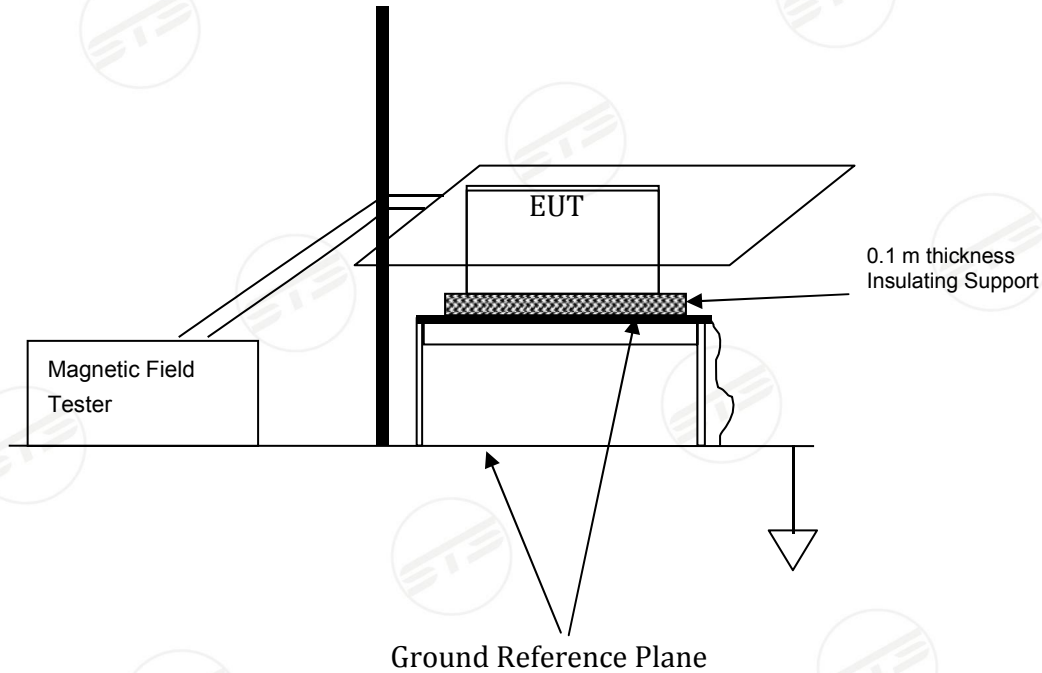
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10. MAGNETIC FIELD IMMUNITY TEST

10.1 Configuration of Test System



10.2 Test Standard
EN 61547:2009 (EN 61000-4-8)
(Severity Level 2 at 3A/m)

10.3 Severity Levels and Performance Criterion

10.3.1 Severity level

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

10.3.2 Performance criterion : A

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10.4 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 18.1. The induction coil was then rotated by 90° in order to expose the EUT to the test field with different orientations.

10.5 Test Results

10.5.1 Test Results: **PASS**

10.5.2 Test data on the following pages.

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Magnetic Field Immunity Test Results

Test Voltage : 1	Test Date: Mar.30,2022			
Test Mode : 1	Criterion : A			
Temperature: 31.0℃	Humidity: 52%			
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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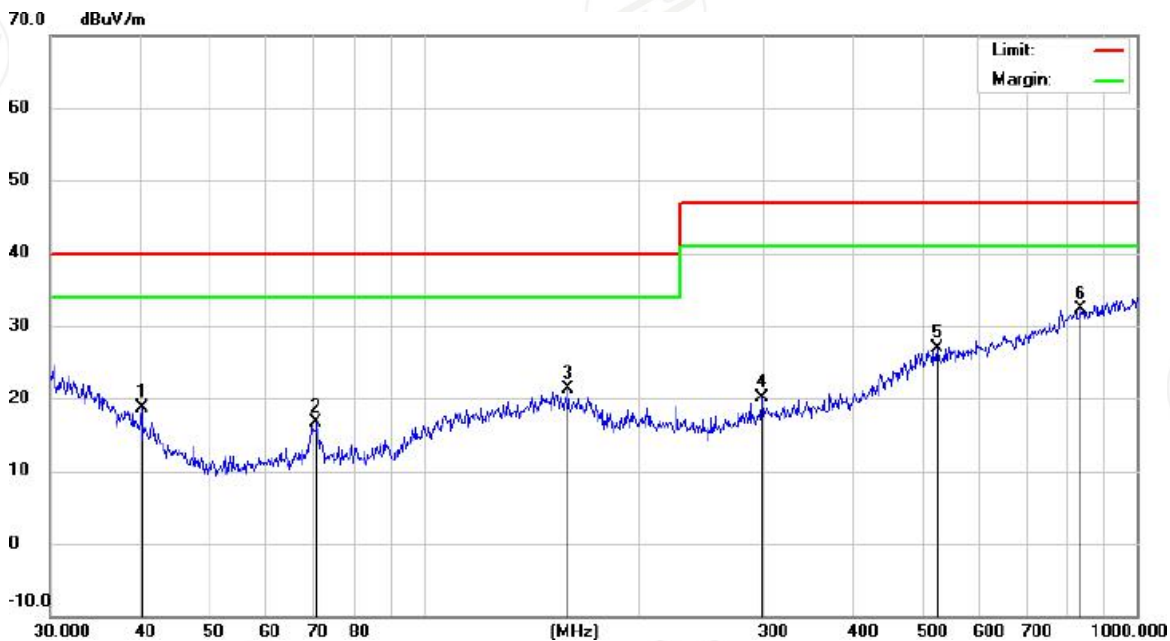
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APPENDIX I

EUT:	Glass bubble with 8 LED light	M/N:	CX1514
Mode:	ON	Polarization:	Vertical
Test by:	Peter	Power:	DC 3V by Batteries
Temperature: / Humidity	24.0°C / 53.0%	Test date:	2022-03-30



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	Comment
1		40.2757	5.07	13.62	18.69	40.00	-21.31	QP		
2		70.8315	7.30	9.37	16.67	40.00	-23.33	QP		
3		159.7844	4.07	17.31	21.38	40.00	-18.62	QP		
4		298.2681	4.72	15.44	20.16	47.00	-26.84	QP		
5		524.5541	3.95	22.97	26.92	47.00	-20.08	QP		
6	*	833.3171	4.06	28.27	32.33	47.00	-14.67	QP		

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

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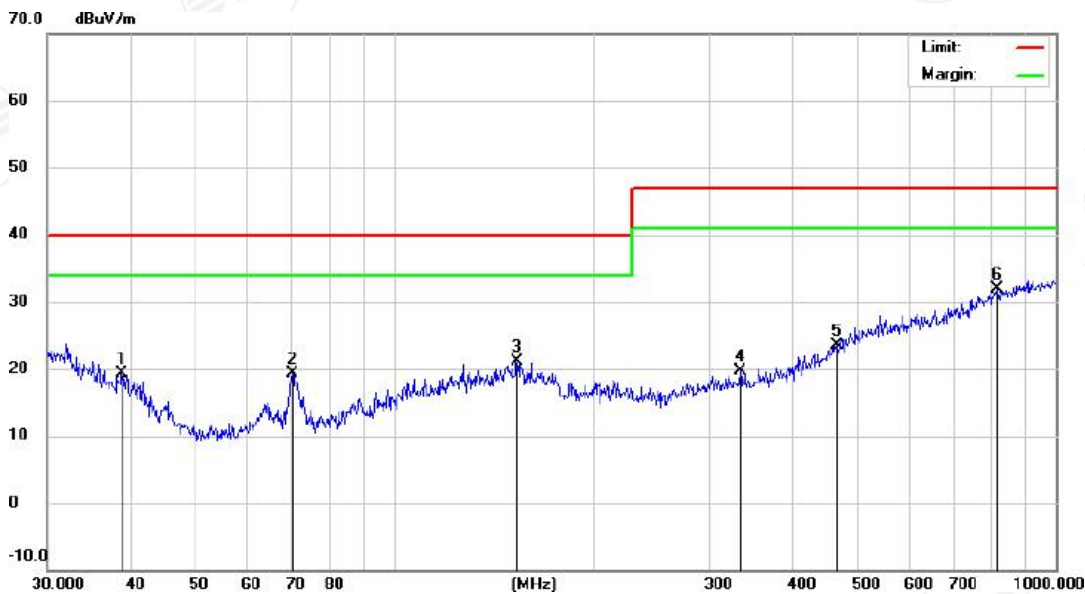
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EUT:	Glass bubble with 8 LED light	M/N:	CX1514
Mode:	ON	Polarization:	Horizontal
Test by:	Peter	Power:	DC 3V by Batteries
Temperature: / Humidity	24.0°C / 53.0%	Test date:	2022-03-30



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		38.7518	4.53	14.72	19.25	40.00	-20.75	QP		
2		70.3365	10.06	9.33	19.39	40.00	-20.61	QP		
3		153.2004	3.61	17.57	21.18	40.00	-18.82	QP		
4		333.6867	3.49	16.14	19.63	47.00	-27.37	QP		
5		467.2349	2.55	20.96	23.51	47.00	-23.49	QP		
6	*	815.9678	3.83	28.08	31.91	47.00	-15.09	QP		

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

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Photo(s):



RADIATED Test Setup Photograph



General Appearance of the EUT



General Appearance of the EUT

/

/

<<< <<< END OF REPORT >>> >>>

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签发测试报告条款

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