立航检测
LH Testing

Shenzhen LH Testing Technology Co., Ltd.

201～203, building 22, Yongli Industrial Zone, Tangxi, guxing community, Xixiang street, Bao'an District, Shenzhen

Tel: +0755-23217660 Email: lihangcert@163.com www.lh-cert.com

CERTIFICATE OF CONFORMITY

No.: LH-220803193693

Applicant	:	Shenzhen Mingyang Ocean Technology Co., Ltd.
Address	:	705, Changhong Science and Technology Building, No.18, Keji South Twelfth Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen
Manufacturer	:	Shenzhen Mingyang Ocean Technology Co., Ltd.
Address	:	705, Changhong Science and Technology Building, No.18, Keji South Twelfth Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen
Product	:	Intelligent eye massager
Brand Name	:	N/A
Model(s)	:	OC-Y08
Test Standard(s)	:	**EN IEC 55014-1: 2021; EN IEC 55014-2: 2021.**

The EUT described above has been tested by us with the listed standards and found in compliance with the Council EMC Directive 2014/30/EU. It is possible to use CE marking to demonstrate the compliance with the EMC Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: LH-220803193693.

CE

Jack su

.....

(Manager)

Aug. 08, 2022

EMC Test Report

Application No.	:	LH-220803193693
Applicant	:	Shenzhen Mingyang Ocean Technology Co., Ltd.
Equipment Under Test (EUT)		
EUT Name	:	Intelligent eye massager
Model No.	:	OC-Y08
Serial No.	:	N/A
Brand Name	:	N/A
Receipt Date	:	2022-08-01
Test Date	:	2022-08-01 to 2022-08-05
Issue Date	:	2022-08-08
Standards	:	EN IEC 55014-1: 2021 EN IEC 55014-2: 2021
Conclusions	:	**PASS**

In the configuration tested, the EUT complied with the standards specified above. The EUT technically complies with the 2014/30/EU directive requirements.

Test/Witness Engineer : York xin

Approved & Authorized : Jack su

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TABLE OF CONTENTS

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Mingyang Ocean Technology Co., Ltd.
Address	:	705, Changhong Science and Technology Building, No.18, Keji South Twelfth Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen
Manufacturer	:	Shenzhen Mingyang Ocean Technology Co., Ltd.
Address	:	705, Changhong Science and Technology Building, No.18, Keji South Twelfth Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen

1.2. General Description of EUT (Equipment Under Test)

EUT Name	:	Intelligent eye massager
Model No.	:	OC-Y08
Serial No.	:	N/A
Brand Name	:	N/A
Power Supply	:	DC 5V, 1A
Remark: All above models are identical in schematic, structure and critical components except for only different appearance; therefore, EMC testing was performed with OC-Y08 only.		

1.3. Block Diagram Showing the Configuration of System Tested

1.4. Description of Support Units

The EUT has been tested as an independent unit.

1.5. Performance Criterion

Criterion A: The equipment shall continue to operate as intended without operator intervention. No degradation of performance of loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

Criterion B: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended.

Criterion C: Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions.

1.6. Classification of Apparatus

Category I: Apparatus containing no electronic control circuitry.

Category II: Transformer toys, dual supply toys, mains powered motor operated appliances, tools, heating appliances and similar electric apparatus(for example-UV radiators, IR radiators and microwave ovens) containing electronic control circuitry with no internal clock frequency or oscillator frequency higher than 15MHz.

Category III: Battery powered apparatus (with built-in batteries or external batteries), which in normal use is not connected to the mains, containing an electronic control circuitry with no internal clock frequency or oscillator frequency higher than 15MHz.

This category includes apparatus provided with rechargeable batteries which can be charged by connecting the apparatus to the mains power. However, this apparatus shall also be tested as an apparatus in category III while it is connected to the mains network.

Category IV: All other apparatus covered by the scope of this standard.

1.7. Test Facility

The testing report were performed by the Shenzhen LH Testing Technology Co., Ltd., in their facilities located at 201～203, building 22, Yongli Industrial Zone, Tangxi, guxing community, Xixiang street, Bao'an District, Shenzhen.

2. Test Results Summary

EMISSION		
Description of test items	**Standards**	**Results**
Conducted disturbance at mains terminals	EN IEC 55014-1: 2021	N/A
Disturbance Power	EN IEC 55014-1: 2021	N/A
Click measurement	EN IEC 55014-1: 2021	N/A
Radiated disturbance	EN IEC 55014-1: 2021	Pass
Harmonic current emissions	EN IEC 61000-3-2: 2019/A1: 2021	N/A
Voltage fluctuation and flicker	EN 61000-3-3:2013/A1:2019	N/A
IMMUNITY		
Description of test items	**Basic Standards**	**Results**
Electrostatic Discharge (ESD)	EN 61000-4-2: 2009	Pass
Radio-frequency, Continuous Radiated Disturbance	EN IEC 61000-4-3:2020	Pass
EFT/B Immunity	EN 61000-4-4: 2012	N/A
Surge Immunity	EN 61000-4-5: 2014/A1:2017	N/A
Conducted RF Immunity	EN 61000-4-6: 2014	N/A
Voltage dips, 40% reduction	EN IEC 61000-4-11:2020	N/A
Voltage dips, 70% reduction		
Voltage interruptions		
Note: N/A is an abbreviation for Not Applicable.		

3. Test Equipment Used

3.1. Test Equipment Used to Measure Conducted Emission					
No.	**Equipment**	**Manufacturer**	**Model No.**	**Last Cal.**	**Cal. Interval**
LH-EMC001	EMI Test Receiver	Rohde & Schwarz	ESCS30	Dec. 30, 2021	1 Year
LH-EMC002	AMN	Rohde & Schwarz	ENV216	Dec. 30, 2021	1 Year
LH-EMC003	AMN	SCHWARZBECK	NNBL 8226	Dec. 30, 2021	1 Year
3.2. Test Equipment Used to Measure Disturbance Power					
No.	**Equipment**	**Manufacturer**	**Model No.**	**Last Cal.**	**Cal. Interval**
LH-EMC001	EMI Test Receiver	Rohde & Schwarz	ESCS30	Dec. 30, 2021	1 Year
LH-EMC028	Power Clamp	Luthi	MDS-21	Dec. 30, 2021	1 Year
3.3. Test Equipment UseTest Equipment Used to Measure Radiated Emission					
No.	**Equipment**	**Manufacturer**	**Model No.**	**Last Cal.**	**Cal. Interval**
LH-EMC004	EMI Test Receiver	Rohde & Schwarz	ESI26	Dec. 30, 2021	1 Year
LH-EMC005	Bilog Antenna	SCHWARZBECK	VULB9163	Dec. 30, 2021	1 Year
LH-EMC006	Positioning Controller	C&C	CC-C-1F	N/A	N/A
3.4. Test Equipment Used to Measure Harmonic Current/ Voltage Fluctuation and Flicker					
No.	**Equipment**	**Manufacturer**	**Model No.**	**Last Cal.**	**Cal. Interval**
LH-EMC007	Harmonic Flicker Test System	CI	5001ix-CTS-40	Dec. 30, 2021	1 Year
3.5. Test Equipment Used to Measure Electrostatic Discharge Immunity					
No.	**Equipment**	**Manufacturer**	**Model No.**	**Last Cal.**	**Cal. Interval**
LH-EMC008	ESD Tester	TESEQ	NSG437	Dec. 30, 2021	1 Year
3.6. Test Equipment Used to Measure Conducted Immunity					
LH-EMC009	RF Generator	FRANKONIA	CIT-10/75	Dec. 30, 2021	1 Year
LH-EMC010	Attenuator	FRANKONIA	59-6-33	Dec. 30, 2021	1 Year
LH-EMC011	M-CDN	LUTHI	M2/M3	Dec. 30, 2021	1 Year
LH-EMC012	CDN	LUTHI	AF2	Dec. 30, 2021	1 Year
LH-EMC013	EM Injection Clamp	LUTHI	EM101	Dec. 30, 2021	1 Year

3.7. Test Equipment Used to Measure Radio Frequency Electromagnetic Fields Immunity					
No.	**Equipment**	**Manufacturer**	**Model No.**	**Last Cal.**	**Cal. Interval**
LH-EMC014	Signal Generator	Rohde & Schwarz	SMT03	Dec. 30, 2021	1 Year
LH-EMC015	Power Meter	Rohde & Schwarz	NRVD	Dec. 30, 2021	1 Year
LH-EMC016	Voltage Probe	Rohde & Schwarz	URV5-Z2	Dec. 30, 2021	1 Year
LH-EMC017	Voltage Probe	Rohde & Schwarz	URV5-Z2	Dec. 30, 2021	1 Year
LH-EMC018	Power Amplifier	AR	150W1000	Dec. 30, 2021	1 Year
LH-EMC019	Bilog Antenna	Chase	CBL6111C	Dec. 30, 2021	1 Year
3.8. Test Equipment Used to Measure Electrical Fast Transient/Burst Immunity					
No.	**Equipment**	**Manufacturer**	**Model No.**	**Last Cal.**	**Cal. Interval**
LH-EMC020	Simulator	EMTEST	UCS500N5	Dec. 30, 2021	1 Year
LH-EMC021	Auto-transformer	EMTEST	V4780S2	Dec. 30, 2021	1 Year
3.9. Test Equipment Used to Measure Surge Immunity					
No.	**Equipment**	**Manufacturer**	**Model No.**	**Last Cal.**	**Cal. Interval**
LH-EMC022	Simulator	EMTEST	UCS500N5	Dec. 30, 2021	1 Year
LH-EMC023	Coupling Clamp	EMTEST	HFK	Dec. 30, 2021	1 Year
3.10. Test Equipment Used to Measure Voltage Dips and Interruptions Immunity					
No.	**Equipment**	**Manufacturer**	**Model No.**	**Last Cal.**	**Cal. Interval**
LH-EMC022	Simulator	EMTEST	UCS500N5	Dec. 30, 2021	1 Year
LH-EMC023	Coupling Clamp	EMTEST	HFK	Dec. 30, 2021	1 Year

4. Conducted Emission Test

4.1. Test Standard and Limit

4.1.1. Test Standard

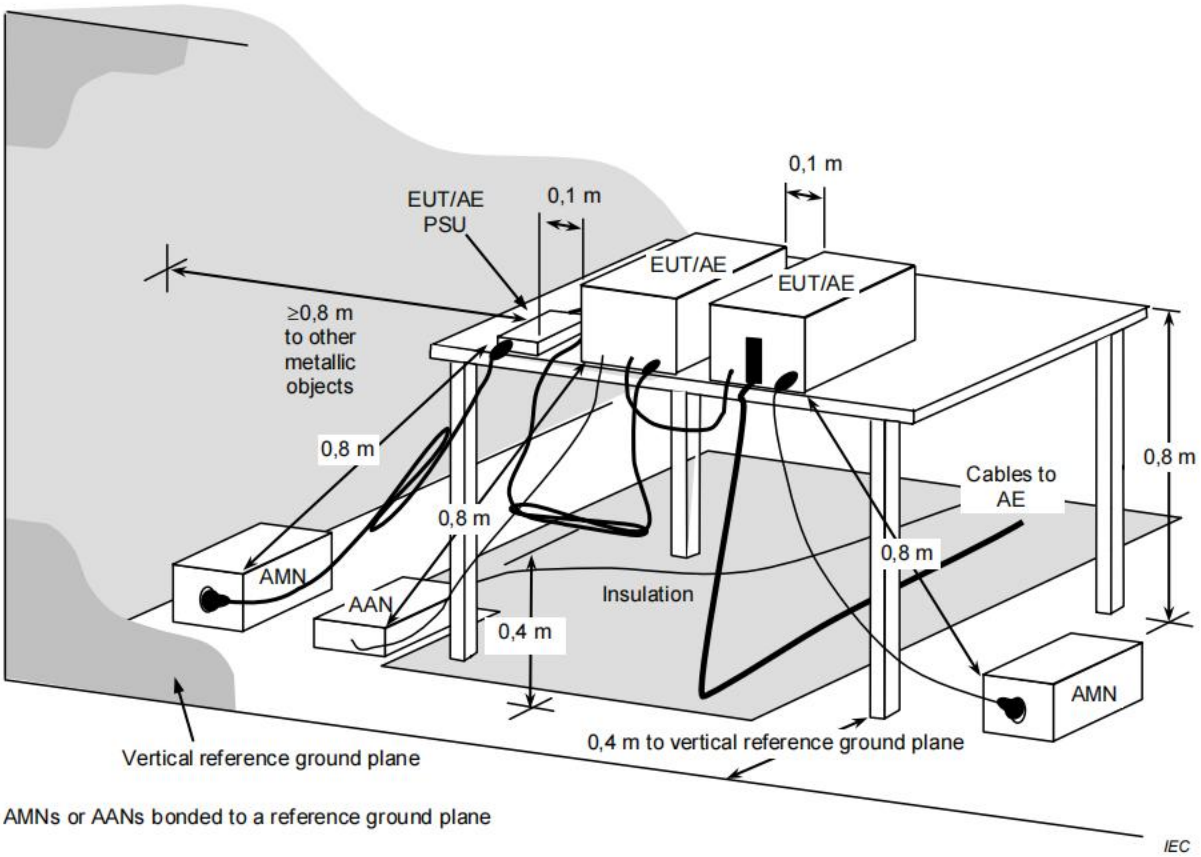
EN IEC 55014-1: 2021.

4.1.2. Test Limit

Conducted Disturbance Test Limit

Frequency	Maximum RF Line Voltage (dBμV)	
	Quasi-peak Level	Average Level
150kHz~350kHz	66 ~ 56*	56 ~ 46 *
350kHz~5MHz	56	46
5MHz~30MHz	60	50
Remark: "*" Decreasing linearly with logarithm of the frequency		

4.2. Test Setup



4.3. Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

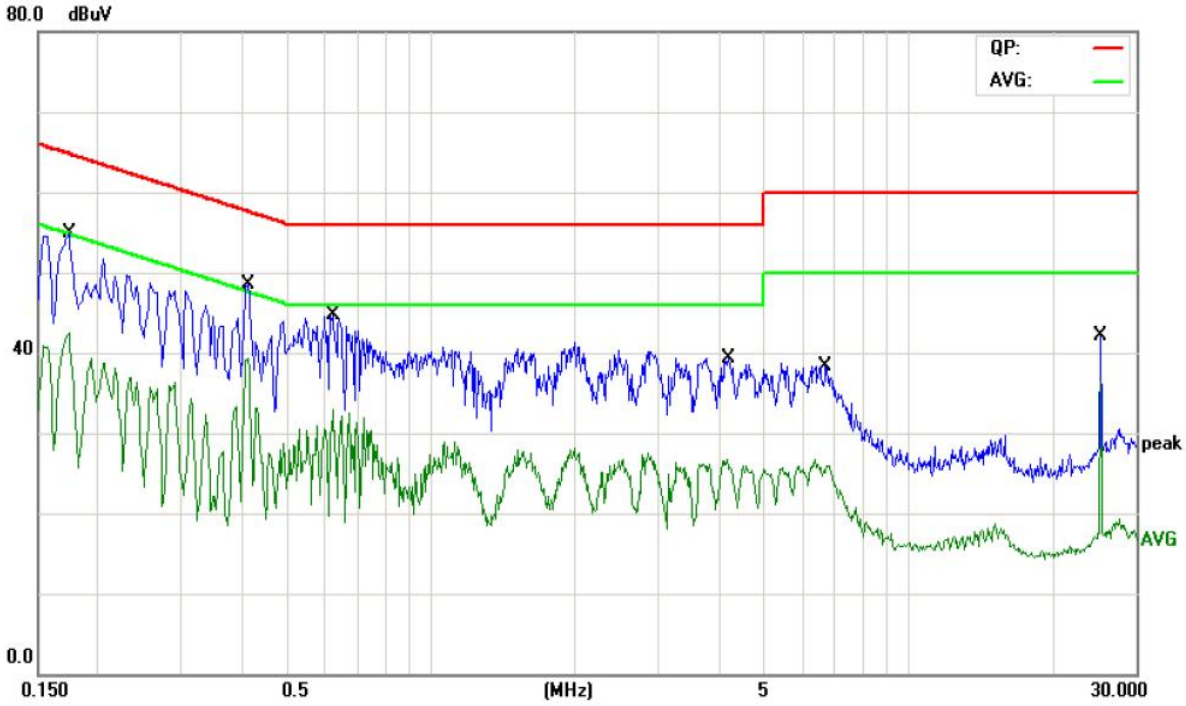
4.4. Test Condition

Temperature	:	25 ℃
Relative Humidity	:	48 %
Pressure	:	1010 hPa
Test Power	:	DC 5V

4.5. Test Data

Please refer to the following pages.

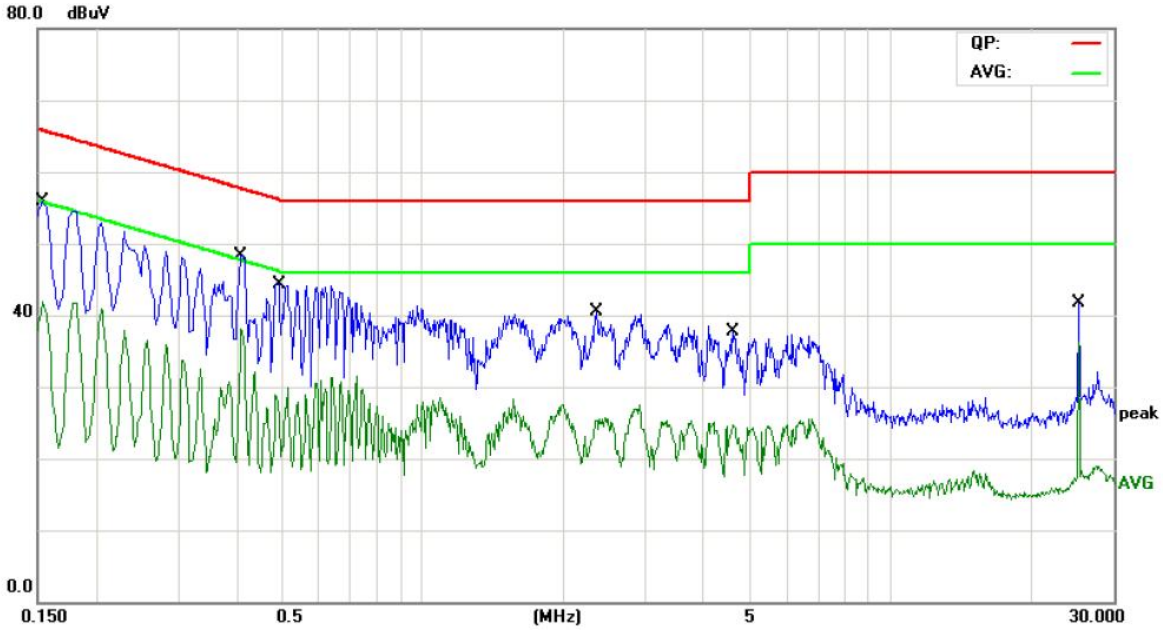
Operating Condition: Normal
Test Specification: L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1740	26.32	21.04	47.36	64.76	-17.40	QP	
2	*	0.4140	24.55	21.07	45.62	57.57	-11.95	QP	
3		0.6220	19.90	21.06	40.96	56.00	-15.04	QP	
4		4.1898	18.87	20.51	39.38	56.00	-16.62	QP	
5		6.7019	18.21	20.19	38.40	60.00	-21.60	QP	
6		25.3140	22.23	19.86	42.09	60.00	-17.91	QP	

Operating Condition: Normal

Test Specification: N



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	32.53	21.29	53.82	65.78	-11.96	QP	
2	*	0.4100	24.71	21.11	45.82	57.65	-11.83	QP	
3		0.4940	16.84	21.12	37.96	56.10	-18.14	QP	
4		2.3460	19.75	20.78	40.53	56.00	-15.47	QP	
5		4.6179	17.30	20.43	37.73	56.00	-18.27	QP	
6		25.3140	21.77	19.91	41.68	60.00	-18.32	QP	

5. Radiated Emission Test

5.1. Test Standard and Limit

5.1.1. Test Standard

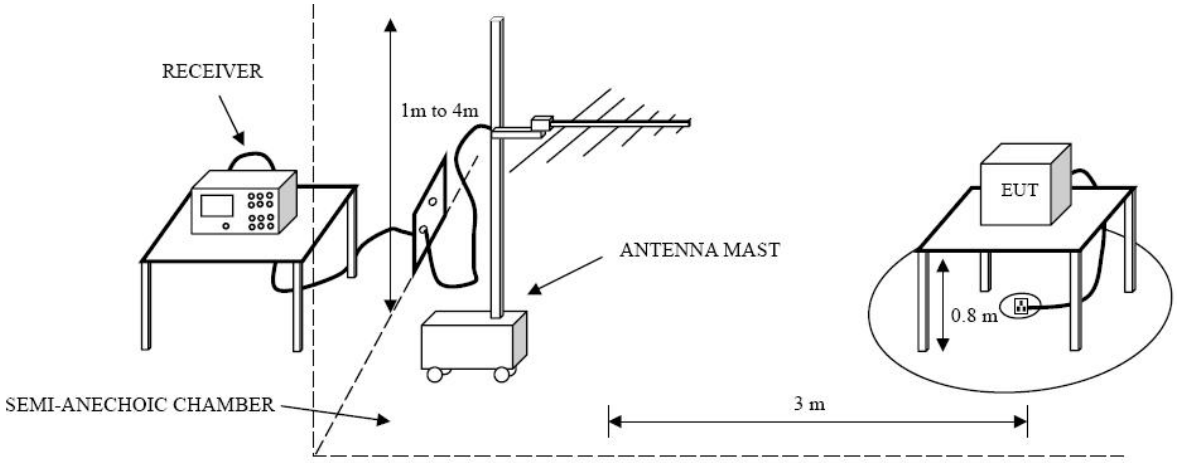
EN IEC 55014-1: 2021.

5.1.2. Test Limit

Radiated Disturbance Test Limit

Frequency	Limit (dBμV/m)
	Quasi-peak Level
30MHz~230MHz	40
230MHz~1000MHz	47
Remark: 1. The lower limit shall apply at the transition frequency. 2. The test distance is 3m.	

5.2. Test Setup



5.3. Test Procedure

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m. The table was rotated 360 degrees to determine the position of the highest radiation.

The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range.

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

5.4. Test Condition

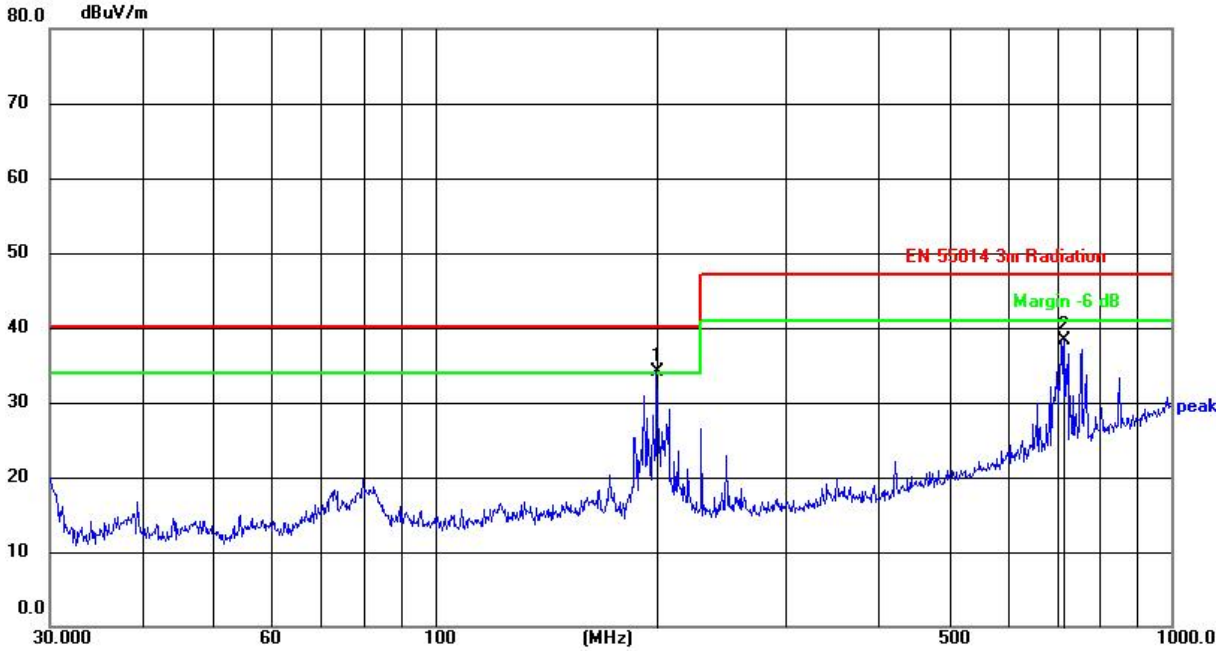
Temperature	:	23 ℃
Relative Humidity	:	52 %
Pressure	:	1010 hPa
Test Power	:	DC 5V

5.5. Test Data

Please refer to the following pages.

Operating Condition: Normal

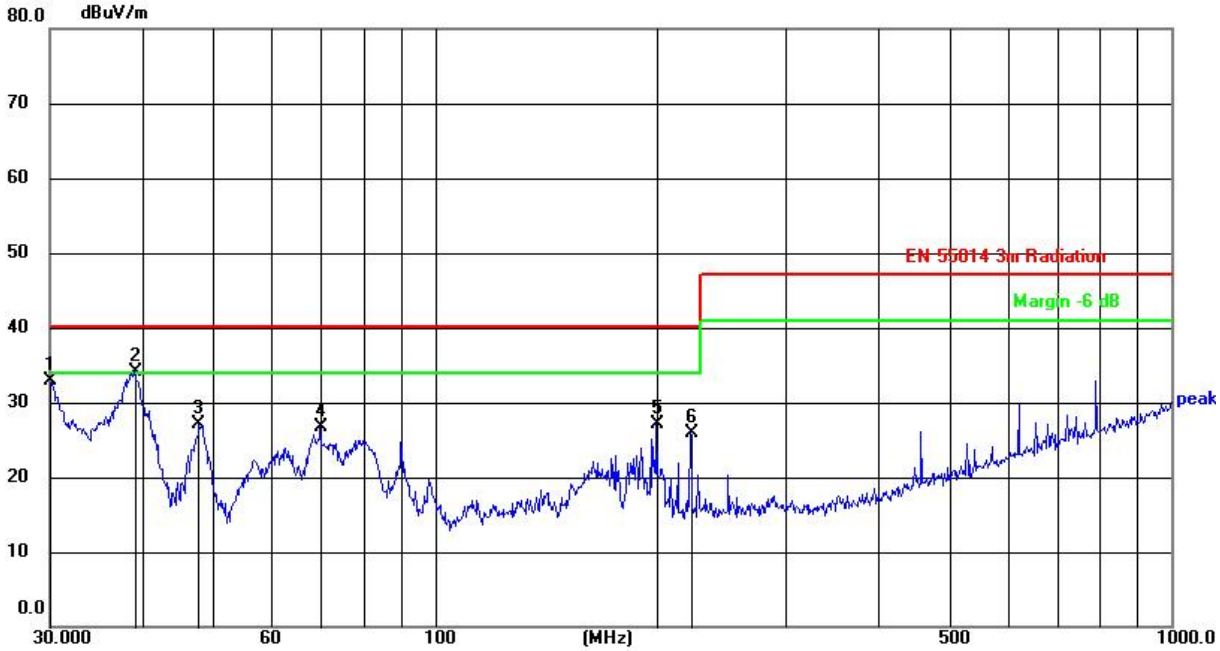
Test Specification: Horizontal



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	199.9856	52.68	-18.56	34.12	40.00	-5.88	peak				
2	716.6820	47.05	-8.79	38.26	47.00	-8.74	peak				

Operating Condition: Normal

Test Specification: Vertical



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	30.0000	54.46	-21.52	32.94	40.00	-7.06	peak				
2	39.0245	54.87	-20.72	34.15	40.00	-5.85	peak				
3	47.8260	48.06	-20.98	27.08	40.00	-12.92	peak				
4	69.8450	47.24	-20.55	26.69	40.00	-13.31	peak				
5	199.9856	45.98	-18.91	27.07	40.00	-12.93	peak				
6	222.1698	44.16	-18.19	25.97	40.00	-14.03	peak				

6. Electrostatic Discharge Immunity Test

6.1. Test Requirements

6.1.1. Test Standard

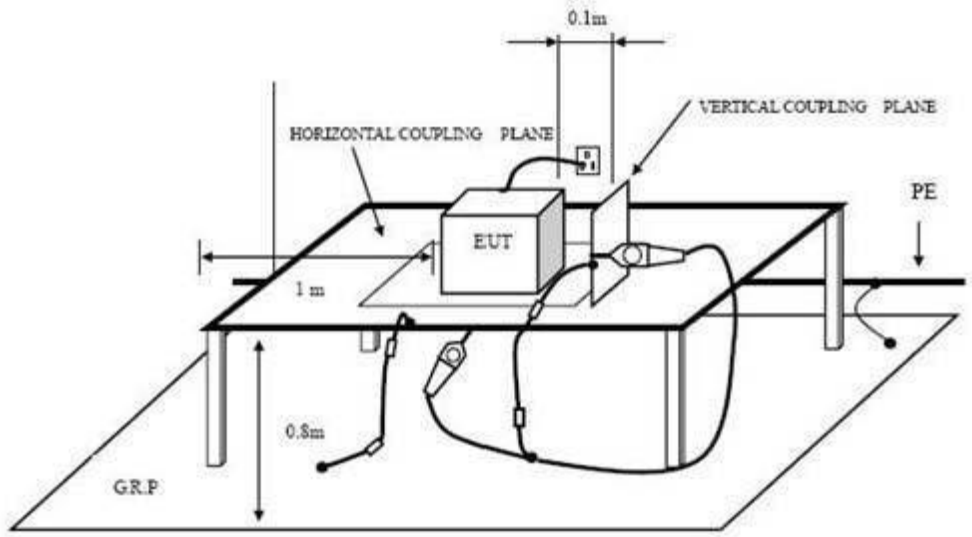
EN IEC 55014-2: 2021 (EN 61000-4-2:2009)

6.1.2. Test Level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.0	±2	±2
2.0	±4	±4
3.0	±6	±8
4.0	±8	±15
X	Special	Special

6.1.3. Performance criterion: B

6.2. Test Setup



INDIRECT DISCHARGE SETUP

6.3. Test Procedure

6.3.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

6.3.2. Contact Discharge:

All the procedure shall be same as air discharge. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

6.3.3. Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

6.3.4. Indirect discharge for vertical coupling plane

At least 10 single discharges (in the most sensitive polarity) 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.

6.4. Test Data

Please refer to the following page.

Electrostatic Discharge Test Result

EUT	:	Intelligent eye massager	M/N	:	OC-Y08
Temperature	:	22℃	Humidity	:	50%
Power supply	:	DC 5V	Test Mode	:	Normal

Criterion: B

Air Discharge: ±8kV Contact Discharge: ±4kV

For each point positive 10 times and negative 10 times discharge.

Location	**Kind** A-Air Discharge C-Contact Discharge	**Result**
Nonconductive Enclosure	A	PASS
Button	A	PASS
Conductive Enclosure	C	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:

7. Radiated Electromagnetic Field Immunity test

7.1. Test Requirements

7.1.1. Test Standard

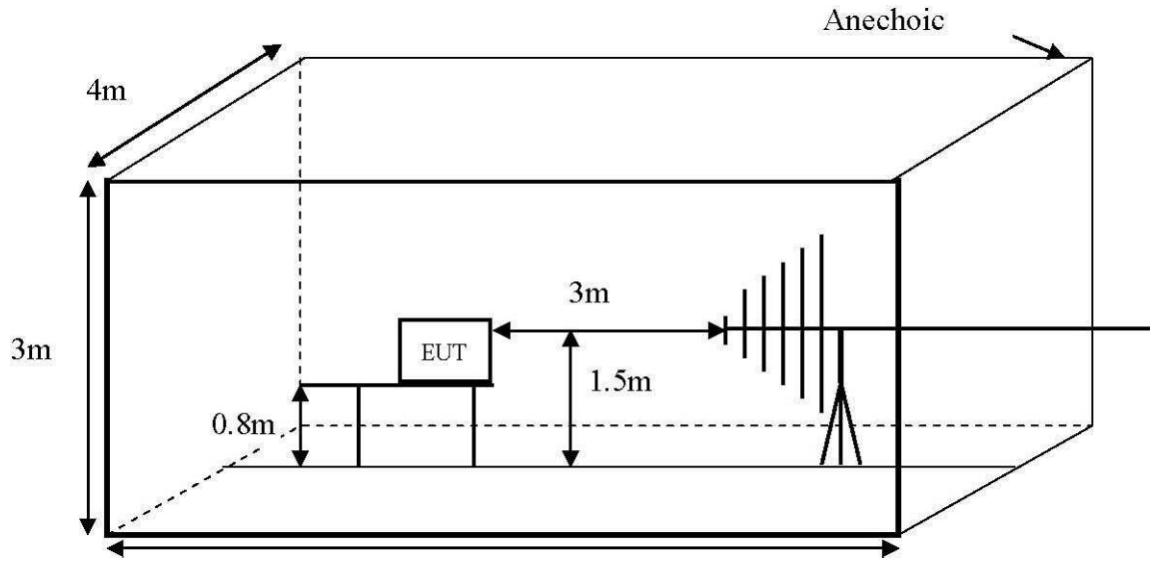
EN IEC 55014-2: 2021 (EN IEC 61000-4-3:2020)

7.1.2. Test Level

Level	Field Strength V/m
1.0	1
2.0	3
3.0	10
X	Special

7.1.3. Performance criterion: A

7.2. Test Setup



7.3. Test Procedure

The EUT are placed on a table, which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna, which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a camera is used to monitor its screen.

All the scanning conditions are as following:

Condition of Test	Remark
1. Fielded Strength	3V/m (Severity Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80-1000MHz
4. Sweep time of radiated	0.0015 Decade/s
5. Dwell Time	1 Sec.

7.4. Test Data

Please refer to the following page.

RF Field Strength Susceptibility Test Results

EUT	:	Intelligent eye massager	M/N	:	OC-Y08
Temperature	:	22℃	Humidity	:	50%
Power supply	:	DC 5V	Test Mode	:	Normal

Criterion: A

Modulation: Unmodulated

Pulse: AM 1KHz 80%

	Frequency Range 1		Frequency Range 2	
	80~1000MHz		/	
	Horizontal	Vertical	Horizontal	Vertical
Front	PASS	PASS	/	/
Right	PASS	PASS	/	/
Rear	PASS	PASS	/	/
Left	PASS	PASS	/	/

8. Photographs - Constructional Details

Photo 1 Appearance of EUT

Photo 2 Appearance of EUT

Photo 3 Inside of EUT

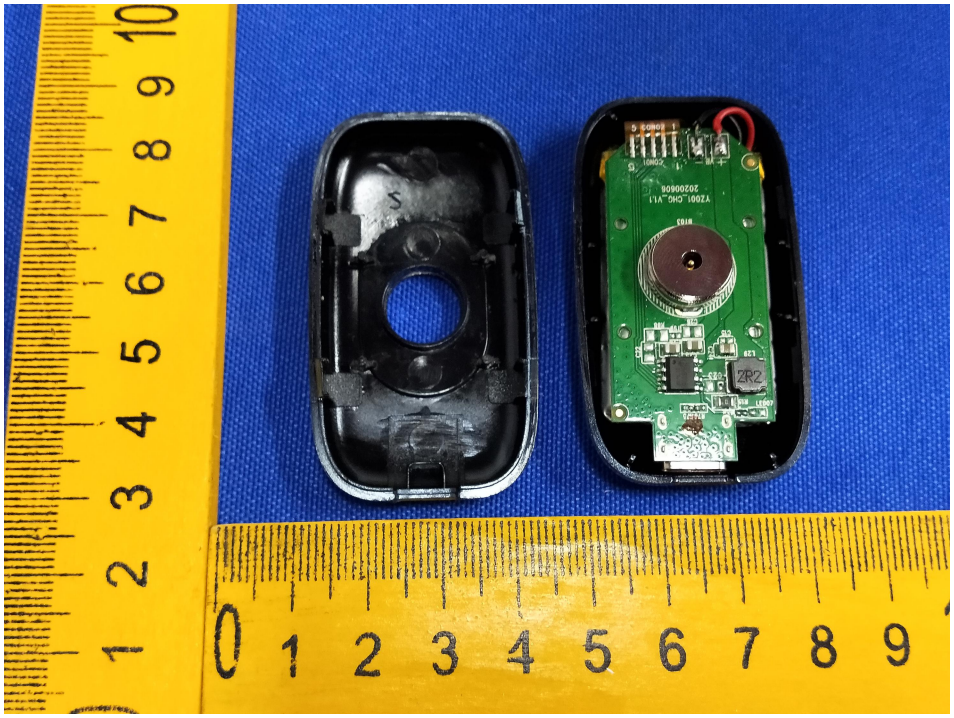


Photo 4 Appearance of PCB

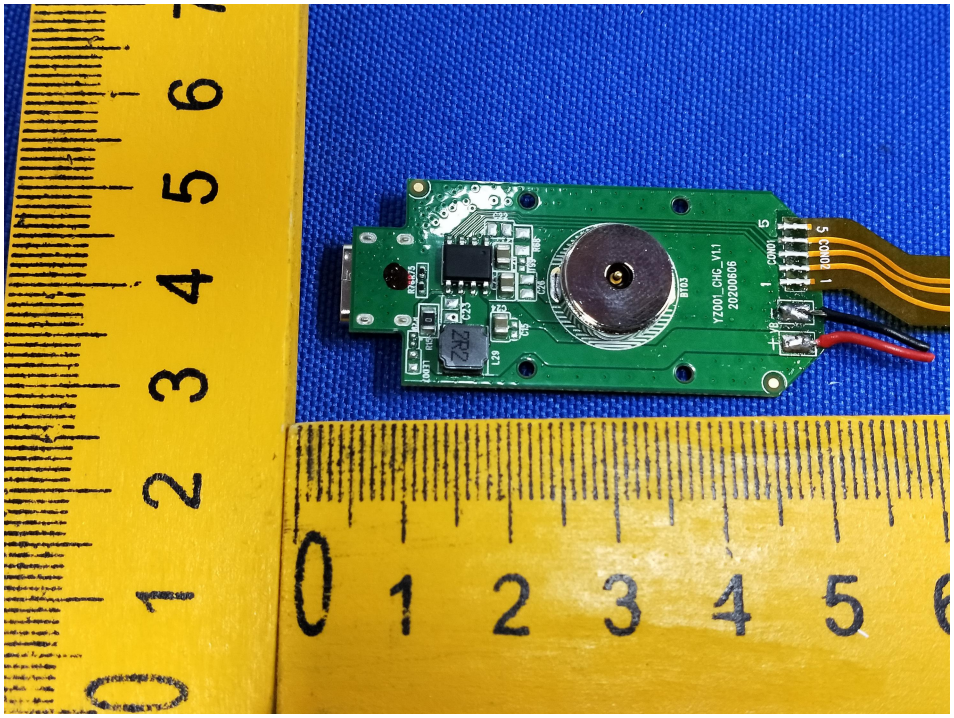


Photo 5 Appearance of PCB

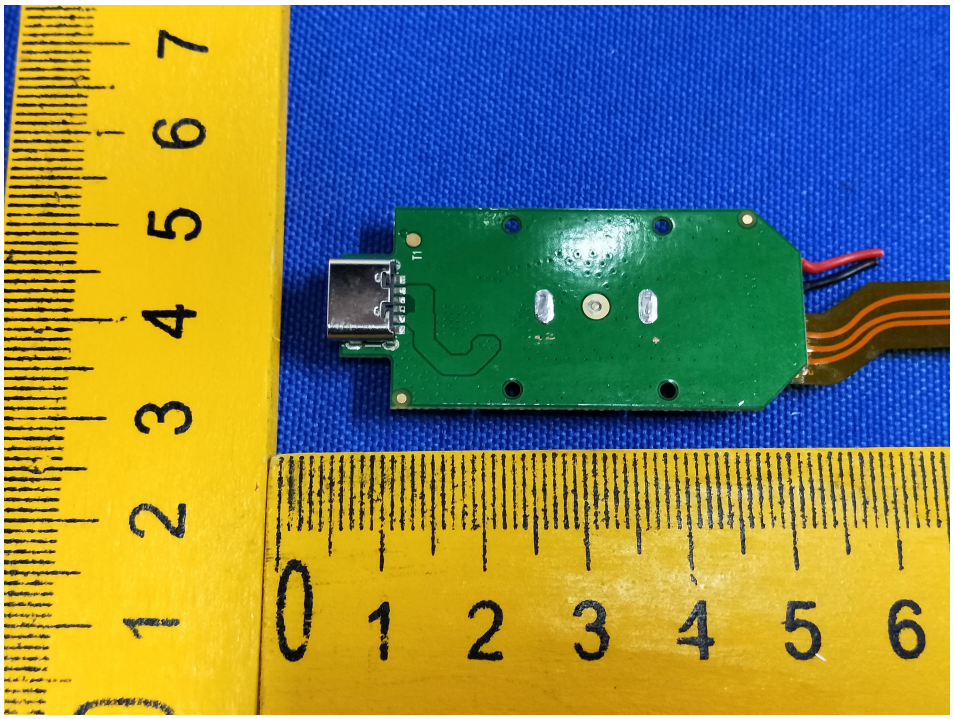


Photo 6 Appearance of Battery

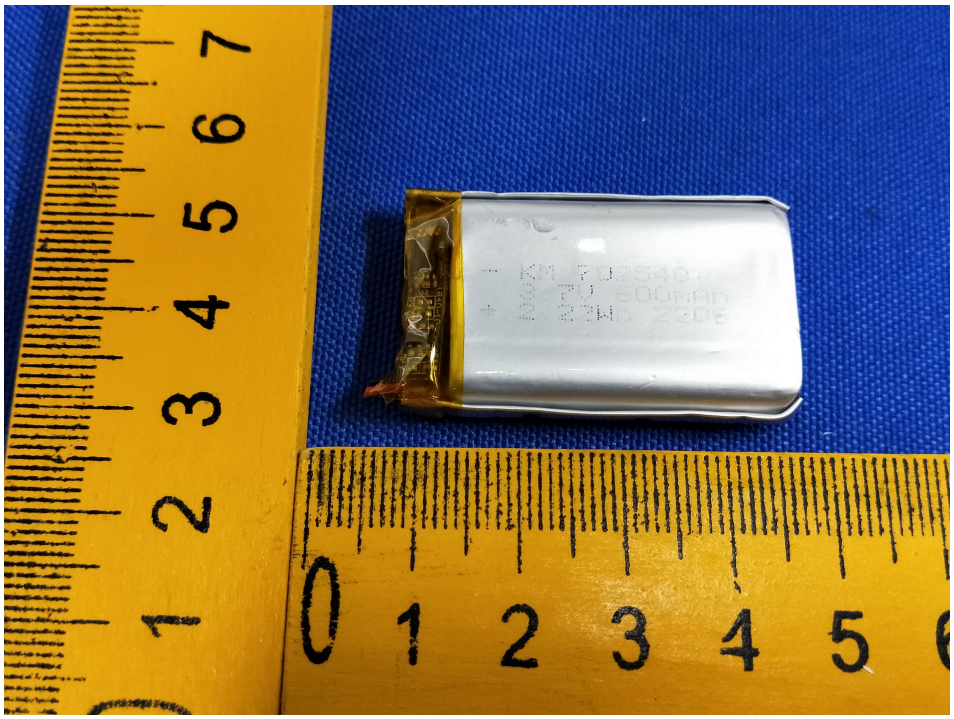
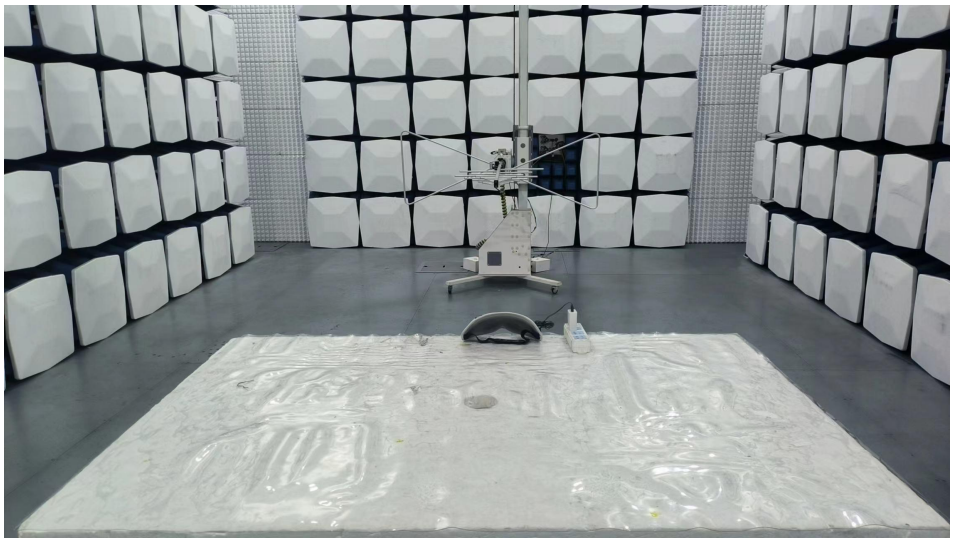


Photo 7 Test Setup



END OF REPORT

FCC Part 15B Test Report

Application No.	:	LH-220803193694
Applicant	:	Shenzhen Mingyang Ocean Technology Co., Ltd.
Equipment Under Test (EUT)		
EUT Name	:	Intelligent eye massager
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Issue Date	:	2022-08-08
Standards	:	FCC Part 15 Subpart B
Conclusions	:	**PASS**

In the configuration tested, the EUT complied with the standards specified above. The EUT technically complies with the FCC requirements

Test/Witness Engineer : York xin

Approved & Authorized : Jack su

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

Contents

1. General Information

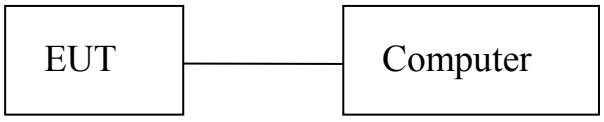
1.1 Client Information

Applicant	:	Shenzhen Mingyang Ocean Technology Co., Ltd.
Address	:	705, Changhong Science and Technology Building, No.18, Keji South Twelfth Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen
Manufacturer	:	Shenzhen Mingyang Ocean Technology Co., Ltd.
Address	:	705, Changhong Science and Technology Building, No.18, Keji South Twelfth Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Intelligent eye massager
Model No.	:	OC-Y08
Serial No.	:	N/A
Brand Name	:	N/A
Power Supply	:	DC 5V, 1A
Remark: All above models are identical in schematic, structure and critical components except for only different appearance; therefore, EMI testing was performed with OC-Y08 only.		

1.3 Block Diagram Showing The Configuration of System Tested



1.4 Test standards

The objective is to determine compliance with FCC Part 15, Subpart B, and section 15.107, 15.109 rules.
Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.5 Test Facility

The testing report were performed by the Shenzhen LH Testing Technology Co., Ltd., in their facilities located at 201～203, building 22, Yongli Industrial Zone, Tangxi, guxing community, Xixiang street, Bao'an District, Shenzhen.

1.6 Equipment Used Test

1.6.1 Test Equipment Used to Measure Conducted Emission

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LH-EMC001	EMI Test Receiver	Rohde & Schwarz	ESCS30	Dec. 30, 2021	1 Year
LH-EMC002	AMN	Rohde & Schwarz	ENV216	Dec. 30, 2021	1 Year
LH-EMC003	AMN	SCHWARZBECK	NNBL 8226-2	Dec. 30, 2021	1 Year

1.6.2 Test Equipment Used to Measure Radiated Emission

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
LH-EMC004	EMI Test Receiver	Rohde & Schwarz	ESI26	Dec. 30, 2021	1 Year
LH-EMC005	Bilog Antenna	SCHWARZBECK	VULB9163	Dec. 30, 2021	1 Year
LH-EMC006	Positioning Controller	C&C	CC-C-1F	N/A	N/A

2. Test Summary

Test Items	Test Requirement	Test Method	Result
Conducted Emission	FCC Part 15 Subpart B	ANSI C63.4	N/A
Radiated Emission	FCC Part 15 Subpart B	ANSI C63.4	Pass
Note: N/A is an abbreviation for Not Applicable.			

3. Conducted Emission Test

3.1 Test Standard and Limit

3.1.1Test Standard

FCC Part 15 B

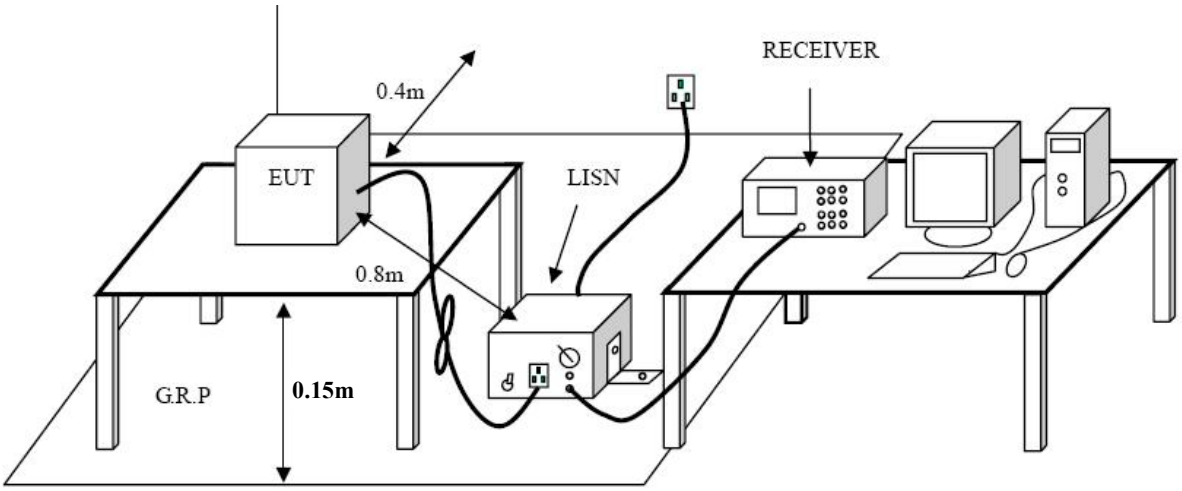
3.1.2 Test Limit

Conducted Emission Test Limit (Class B)

Frequency	Maximum RF Line Voltage (dBμV)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

*decreasing linearly with logarithm of the frequency

3.2 Test Setup



3.3 Test Procedure

The EUT was placed 0.15 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

The cables shall be insulated (by up to 15 cm) from the horizontal ground reference plane, and shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

3.4 Test Data

This test is not applicable.

4. Radiated Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard

FCC Part 15 B

4.1.2 Test Limit

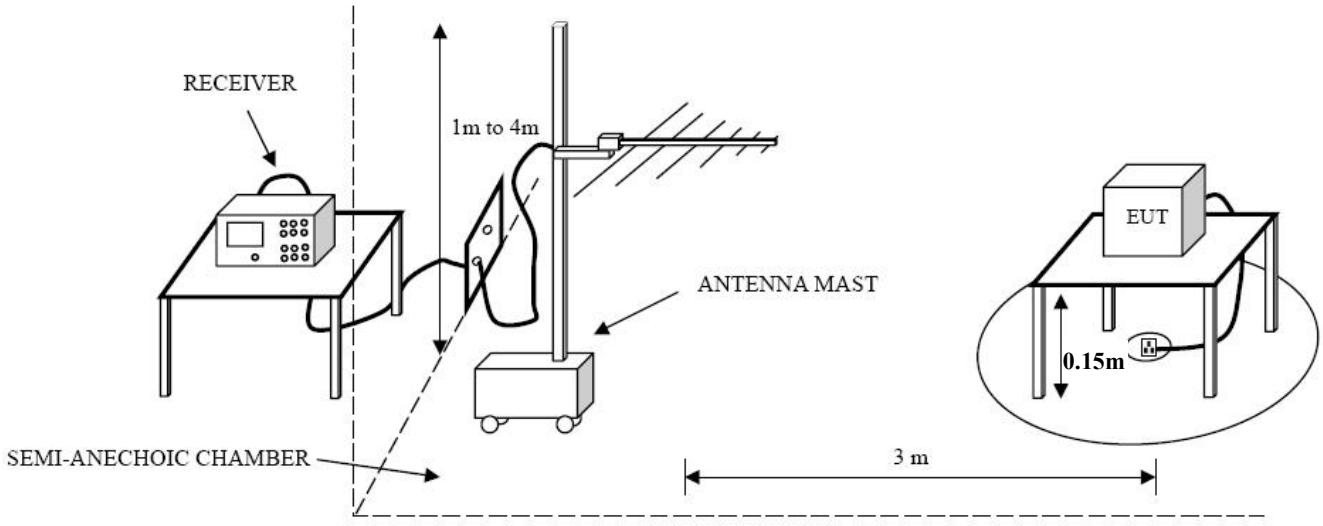
Radiated Emission Test Limit (Class B)

Frequency MHz	Field Strengths Limits dB(μV/m)
30 ~ 88	40.0
88 ~ 216	43.5
216 ~ 960	46.0
960 ~ 1000	54.0

* The lower limit shall apply at the transition frequency.

* The test distance is 3m.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed on the top of a rotating table which is 0.15 meters above the ground. EUT is set 3.0 meters away from the receiving antenna that mounted on a antenna tower. The table was rotated 360 degrees to determine the position of the highest radiation, the antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

Measurements shall be made with a quasi-peak measuring receiver in the frequency range 30MHz to 1000MHz. If the Peak Mode measured value compliance with and lower than quasi-peak mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

4.4 Test Condition

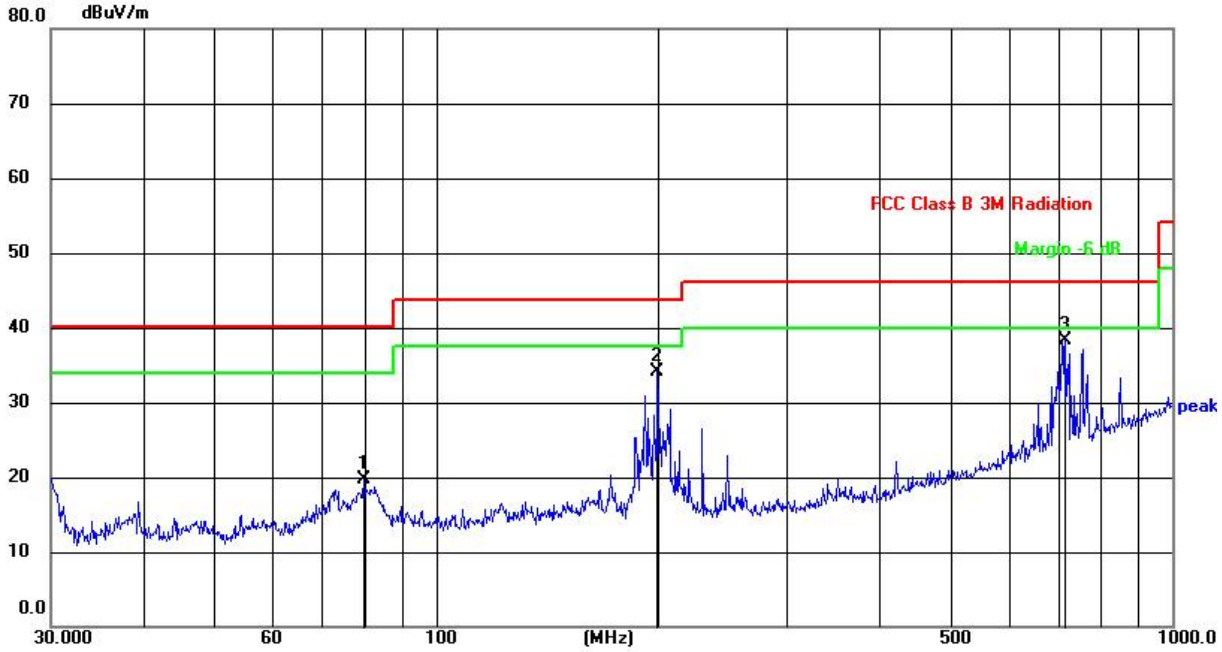
Temperature	:	25 ℃
Relative Humidity	:	48 %
Pressure	:	1010 hPa
Test Power	:	DC 5V

4.5 Test Data

Please refer to the following pages.

Operating Condition: Normal

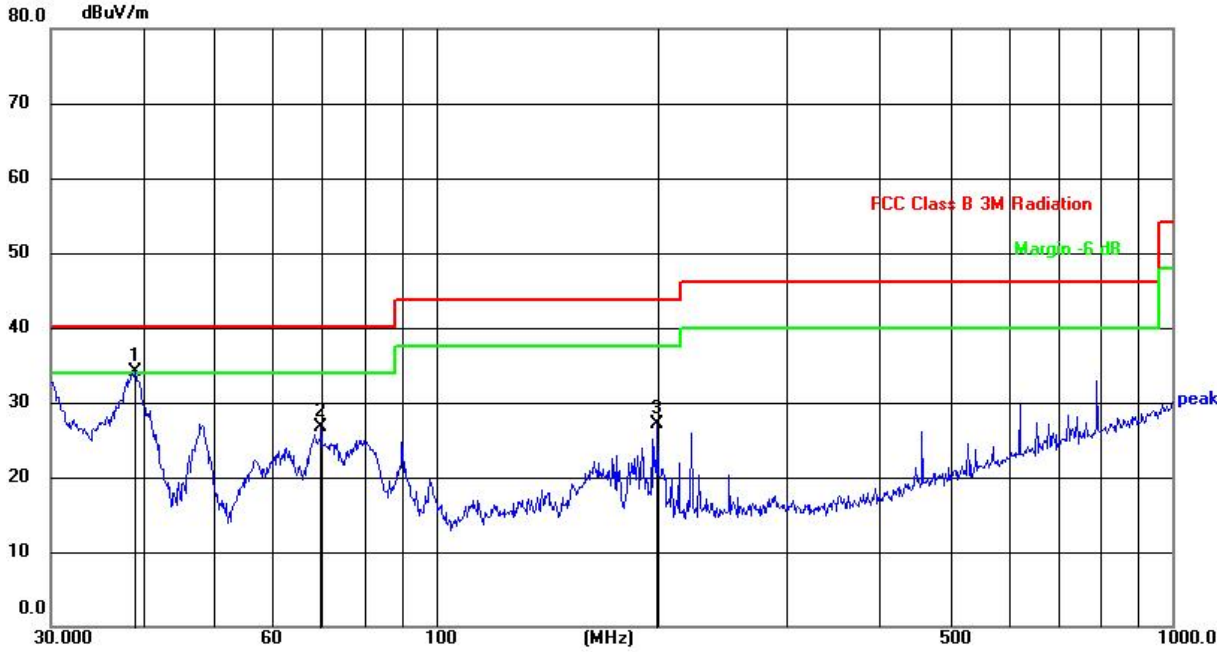
Test Specification: Horizontal



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	79.8002	40.19	-20.50	19.69	40.00	-20.31	peak				
2	199.9855	52.68	-18.56	34.12	43.50	-9.38	peak				
3	716.6820	47.05	-8.79	38.26	46.00	-7.74	peak				

Operating Condition: Normal

Test Specification: Vertical



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	39.0243	54.87	-20.72	34.15	40.00	-5.85	peak				
2	69.8448	47.24	-20.55	26.69	40.00	-13.31	peak				
3	199.9855	45.98	-18.91	27.07	43.50	-16.43	peak				

5. Photographs - Constructional Details

Photo 1 Appearance of EUT

Photo 2 Appearance of EUT

Photo 3 Inside of EUT

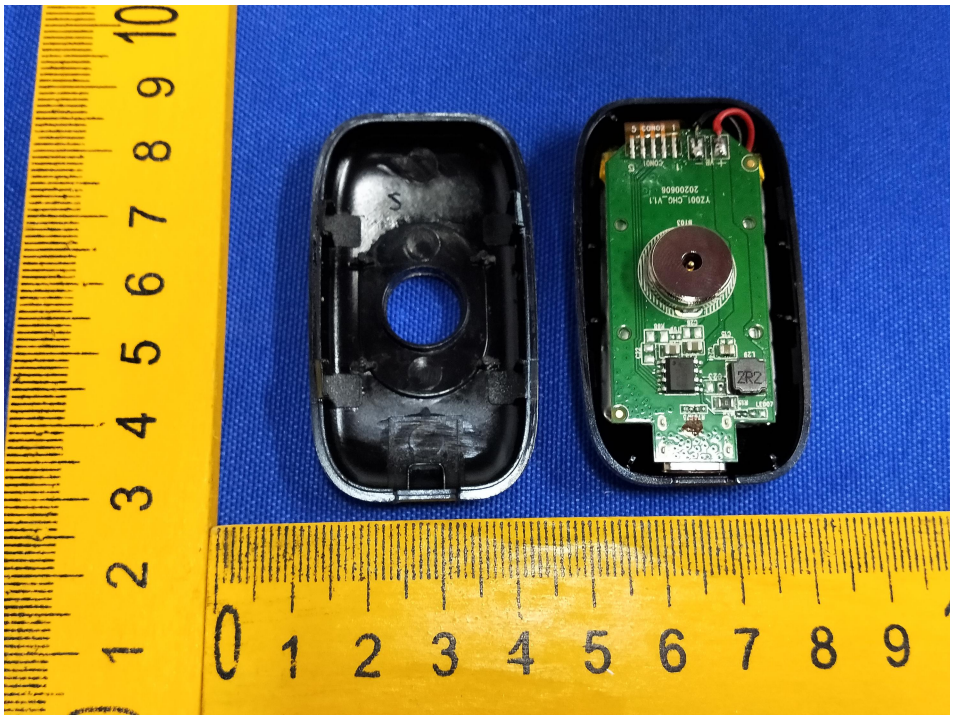


Photo 4 Appearance of PCB

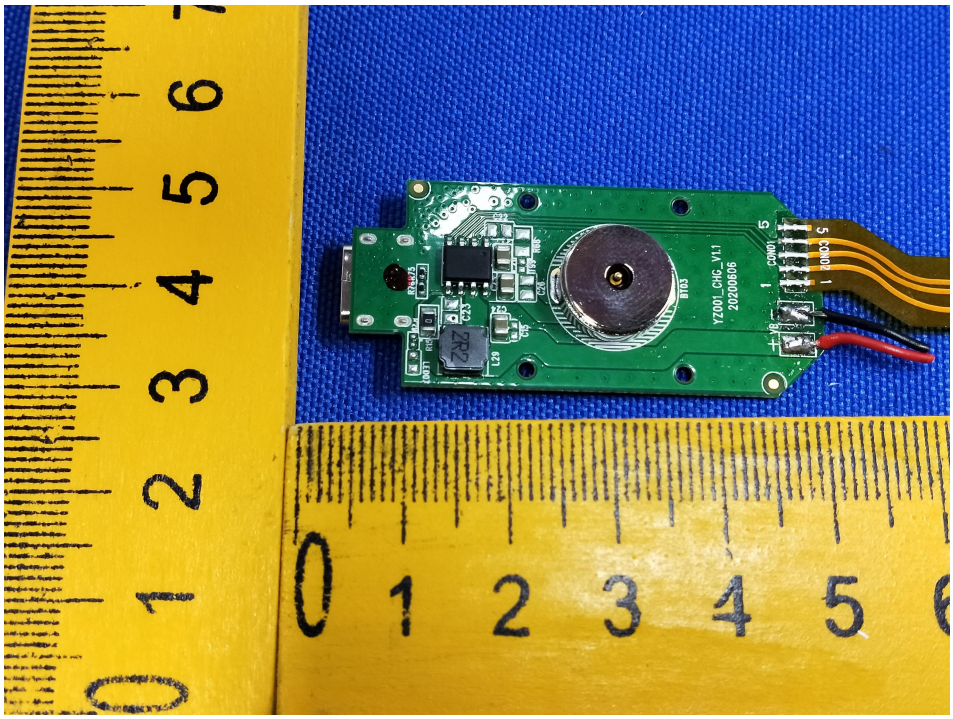


Photo 5 Appearance of PCB

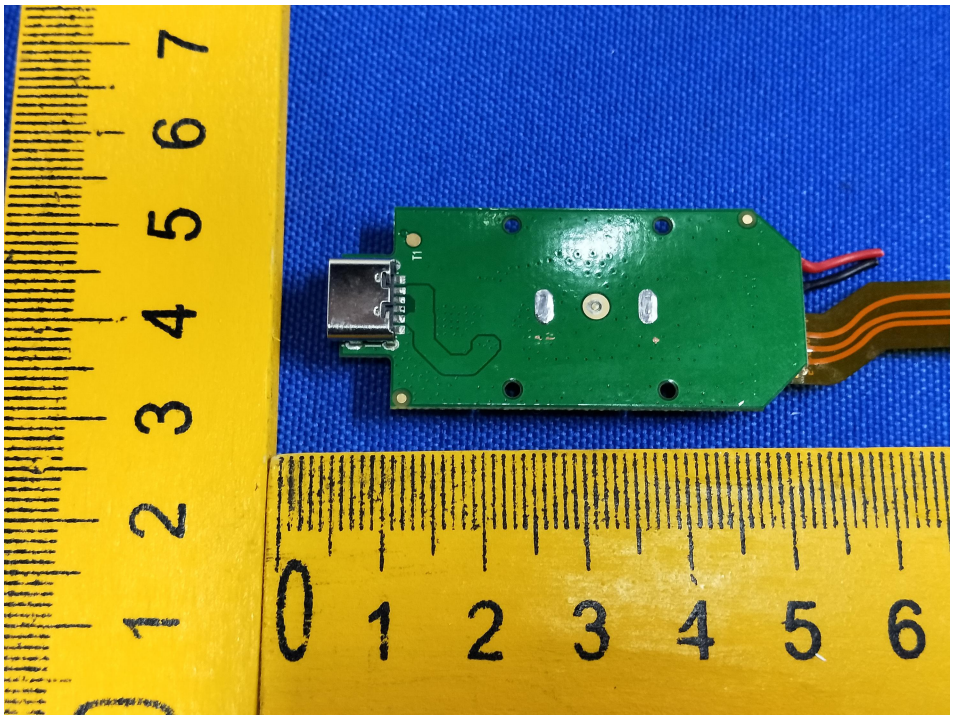


Photo 6 Appearance of Battery

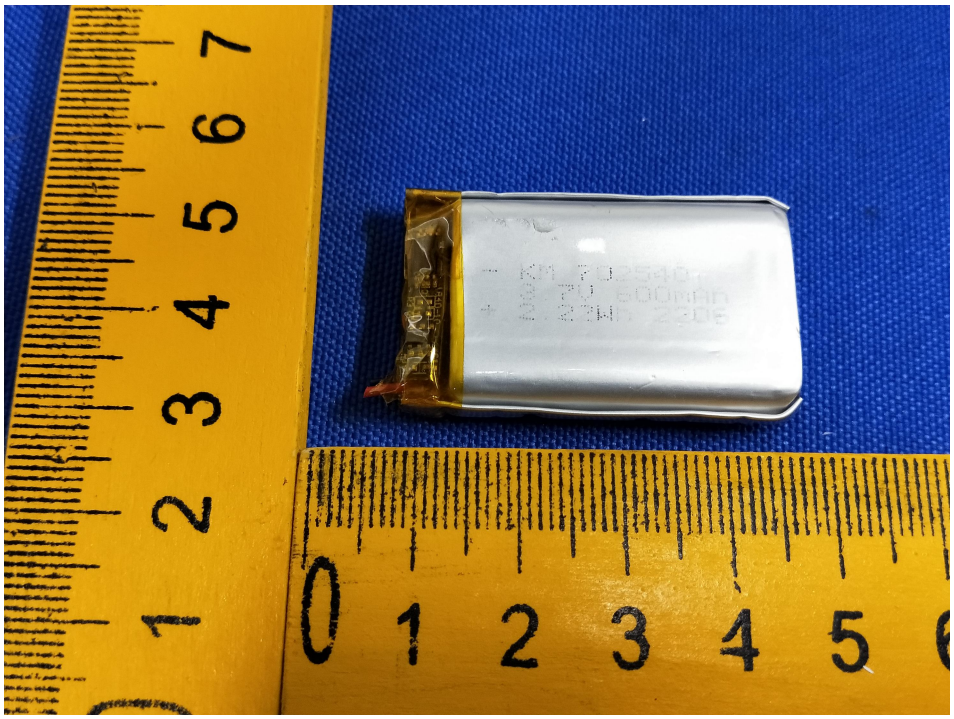
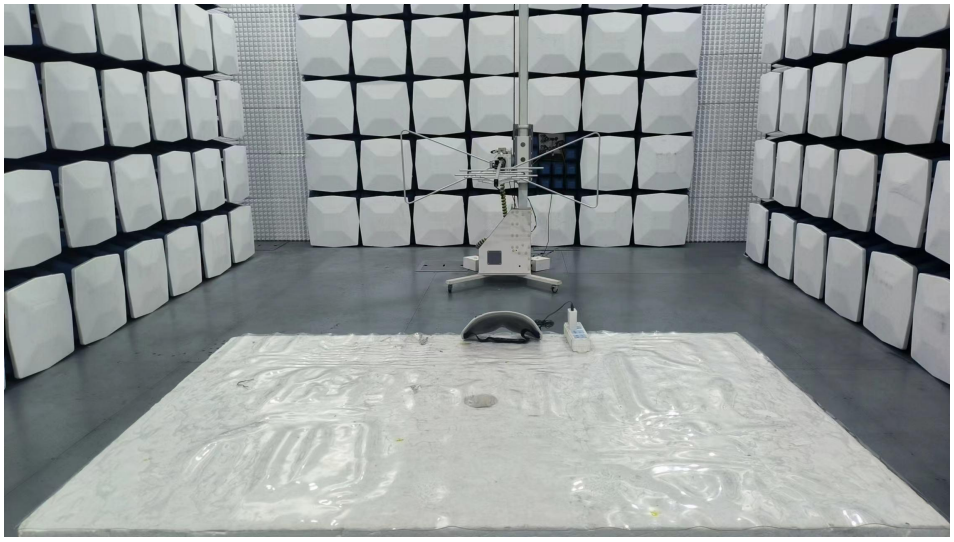


Photo 7 Test Setup



END OF REPORT

Test Report

Applicant	:	Shenzhen Mingyang Ocean Technology Co., Ltd.
Address	:	705, Changhong Science and Technology Building, No.18, Keji South Twelfth Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen
Manufacturer	:	Shenzhen Mingyang Ocean Technology Co., Ltd.
Address	:	705, Changhong Science and Technology Building, No.18, Keji South Twelfth Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen

Equipment Under Test (EUT)

Sample name	:	Gel for the eye massager
Testing type/model	:	OC-Y08
Trade Mark	:	N/A
Received Date	:	2022-08-30
Test Date	:	2022-08-30 to 2022-09-05
Test requested	:	Selected test(s) as requested by client.
Test Method	:	With reference to US FDA 21 CRF 177.2600 With reference to US FDA 21 CRF 177.2450
Test Results	:	Please refer to next page(s)

Result Summary:

Test Requested	Conclusion
As specified by the client, with reference to USA Food and Administration regulations to determine the amount of extractives from polymeric coatings in contact with aqueous food and fatty food US FDA 21CFR 177.2450-Determination of Amount of Extractives	Pass

******* For more detailed information, please refer to the next page*******

York xin

Test/Witness Engineer

Jack Su

Approved & Authorized

Results:

Tested part(s):

Product name	Description
Gel for the eye massager	01 silica gel
	02 resin

A. With reference to US FDA 21CRF 177.2600 to test Maximum extractable fraction in water, 50 % alcohol extractives, and Xylene.

Items	Unit	MDL	Results	Limit
			01	
Water extractives	%	0.01	0.08	0.15
50 % alcohol extractives	%	0.01	0.05	0.15
n-heptane extractives	%	0.01	0.04	0.15
Conclusion	/	/	**Pass**	/

Sample Description

silica gel

Note:

-212°F=100℃； 120°F=48.9℃;

-1inch^2=6.4516cm$_2$

-Photo appendix is included.

B With reference to US FDA 21CRF 177.2450 to test Maximum extractable fraction in water, 3 % alcohol acid, 50 % alcohol extractives, and Xylene.

Items	Unit	MDL	Results	Limit
			02	
Water extractives	%	0.01	0.08	0.15
3 % alcohol acid	%	0.01	0.05	0.15
50 % alcohol extractives	%	0.01	0.05	0.15
n-heptane extractives	%	0.01	0.04	0.15
Conclusion	/	/	**Pass**	/

Sample Description

02 resin

Note:

- 212℉=100℃; 120℉=48.9℃;
- $1inch^2=6.4516cm_2$
- Photo appendix is included.

Appendix

Photograph of Sample

END OF REPORT