



TEST REPORT

Report No: TMC170925102-H

File reference No: 2017-9-29

Applicant: HOLAWIN TECHNOLOGY (HK) LIMITED

Product: Microphone

Brand Name: Holawin, Celly

Model No: H-Q7, H-Q9, H-Q8, H-Q858, H-K01, H-K04, H-K068, H-K088, H-Q11, H-Q12, H-Q16

Test Standards: EN62479:2010

Test result: The testing has been performed on the submitted samples and found in compliance with council EN62479:2010

Approved By

Lemon Rao

EMC Manager

Dated: September 29, 2017

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

TMC Testing Services (Shenzhen) Co., Ltd.

5/F, Building E, Guanghao Industrial Park, Yunfeng Road, Longhua District,
Shenzhen, China

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1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The TMC Lab does not assume Responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the TMC Lab.

1.2 Testing Laboratory

TMC Testing Services (Shenzhen) Co., Ltd.

5/F, Building E, Guanghao Industrial Park, Yunfeng Road, Longhua District, Shenzhen, China

1.3 Details of Applicant

Name: HOLAWIN TECHNOLOGY (HK) LIMITED

Address: Room 619, Building A, HuaFeng ZhiGu Intelligent Technology Zone, No.4 YinTian Road, Xi'Xiang, Bao'An, ShenZhen, China

1.4 Application Details

Date of Receipt of Application: September 25, 2017

Date of Receipt of Test Item: September 25, 2017

Date of Test: September 25, 2017 to September 29, 2017

1.5 Test Item

Manufacturer: SHENZHEN HOLAWIN TECHNOLOGY CO., LTD

Address: 2nd Floor, 21, XiRong Industrial Zone, BaoAn, ShenZhen

Brand Name: Holawin

Model No.: H-Q7

Additional Model No.: H-Q9, H-Q8, H-Q858, H-K01, H-K04, H-K068, H-K088, H-Q11, H-Q12

Additional Brand Name: Celly

Description: Microphone

Additional Information

Bluetooth Version: 4.2

Frequency: 2402-2480 MHz

Number of Channels: 79 Channels

Type of Modulation: GFSK for Bluetooth

Antenna: PCB antenna with gain 0dBi

Battery: DC 3.7V, 1200mAh

Extreme Temp. Tolerance: -20°C to 55°C

1.6SUMMARY

EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

o - supplied by the manufacturer

● - supplied by the lab

2. Test environment

2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 °C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

2.2. Statement of the measurement uncertainty

Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

3.Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1,5 \text{ dB}$
Power Spectral Density, conducted	$\pm 3 \text{ dB}$
Unwanted Emissions, conducted	$\pm 3 \text{ dB}$
All emissions, radiated	$\pm 6 \text{ dB}$
Temperature	$\pm 1 \text{ }^{\circ}\text{C}$
Humidity	$\pm 5 \%$
DC and low frequency voltages	$\pm 3 \%$
Time	$\pm 5 \%$
Duty Cycle	$\pm 5 \%$

4. HUMAN EXPOSURE TO THE ELECTROMAGNETIC FIELDS

4.1 Test Methodology

4.1.1. General description of applied standards

According to its specifications, the EUT must comply with the requirements of the following standards:

EN 62479- Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

4.1.2. Description of test modes

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

4.2 Test limit

If the average power emitted by apparatus operating in the frequency range 10 MHz – 300GHz is less than or equal to 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

4.3 Test Results

Since Max. RF output power is 1.45mW (1.60dBm for Bluetooth According to radio test report TMC170925102-R; less than 20mW specified in EN 62479. This unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (2014/53/EU).

The unit complies with the EN 62479 for RF exposure requirement.

No non-compliance noted.

.....End of Report.....