APPLICATION FOR CERTIFICATION

On Behalf of Philips (China) Investment Co., Ltd. LED Lamp

Model No. : 9290002618

Brand : Philips

FCC ID : O3M9290002618X

Prepared for

Philips (China) Investment Co., Ltd.

No. 9, Lane 888, Tian Lin Road, 200233, Shanghai, China

Prepared by

Audix Technology (Wujiang) Co., Ltd. EMC Dept.

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Report Number : ACWE-F1307003A

Date of Test : Jul.02, 2014 Date of Report : Jul.17, 2014

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TEST REPORT CERTIFICATION

Applicant : Philips (China) Investment Co., Ltd.

Manufacturer #1 : Changan Win Channel Electronics Company Limited

Manufacturer #2 : Arts Electronics Co., Ltd.

EUT Description : LED Lamp

FCC ID : O3M9290002618X

(A) Model No. : 9290002618

(B) Brand : Philips

(C) Power Supply : AC 110-130V; 50/60Hz; 6.5W

(D) Test Voltage : AC 120V, 60Hz

Applicable Standards:

KDB 4474498

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the KDB 4474498.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: Jul.02, 2014 Date of Report: Jul.17, 2014

Prepared by : mma / u

(Emma Hu/Assistant Administrator)

Reviewer : (Danny Sun/Deputy Section Manager)

Approved & Authorized Signer : (Ken Lu/ Assistant General Manager)

1. Description of Version

Edition No. Date of Re		Summary	Report No.
0	Mar.14, 2014	Original Report.	ACWE-F1307003
Rev. A	Jul.17, 2014	(1) Add RC latch before driver on power board;(2) Add alternative LED chip.	ACWE- F1307003A

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description LED Lamp :

Model No. 9290002618 :

FCC ID O3M9290002618X

Brand Philips

Applicant Philips (China) Investment Co., Ltd.

No. 9, Lane 888, Tian Lin Road, 200233, Shanghai, China

Manufacturer #1 Changan Win Channel Electronics Company Limited

> No.85, Tong Gu Xia Lu, Shangjiao Community, Changan Town, Dongguan City, Guangdong Province, China

Manufacturer #2 Arts Electronics Co., Ltd.

Shangxing Lu, Shangjiao Community, Changan Town,

Dongguan Guangdong523000 China

IEEE 802.15.4 (ZigBee®) Radio Technology

Antenna Gain -10dBi

Fundamental Range 2405 MHz -2480MHz :

Tested Frequency 2405MHz (CH11) :

> 2450MHz (CH20) 2480MHz (CH26)

Highest Working 2.4GHz

Frequency

Power Rating 6.5W

Date of Receipt of Sample Jul.01, 2014

Date of Test Jul.02, 2014

2.2. Description of Test Facility

Name of Firm : Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Site Location : No. 1289 Jiangxing East Road, the Eastern Part of

Wujiang Economic Development Zone

Jiangsu China 215200

Test Facilities : RF Fully Chamber

NVLAP Lab Code : 200786-0

(NVLAP is a NATA accredited body under Mutual

Recognition Agreement) Valid until on Sep.30, 2014

2.3. Measurement Uncertainty

Test Item	Uncertainty	
Maximum Peak Output Power	± 0.30dB	

Remark: Uncertainty = $ku_c(y)$

3. SUMMARY OF STADARDS AND RESULTS

3.1. Applicable Standard

KBD 447498 D01 General RF Exposure Guidance v05

3.2. Specification Limits

Limits for General Population/Uncontrolled Exposure

Frequency	Electric Field	Magnetic Field	Power	Averaging Time
Range	Strength (E)	Strength (H)	Density (S)	$ E ^2$, $ H ^2$ or S
(MHz)	(V/m)	(A/m)	(mW/cm^2)	(minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f2)*	30
30-300	27.5	0.073	0.2	30
300-1500			f/150	30
1500-100,000			1.0	30

f = frequency in MHz

NOTE: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The limit value 1.0mW/cm² is available for this EUT.

3.3. MPE Calculator Method

$$S = PG/(4 R^2)$$

 $R = [PG/(4 S)]^{0.5}$

where: S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW) (the measured power value see Report: F12124 Section 6.6)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

^{*}Plane-wave equivalent power density

3.4. Calculated Result

Radio Frequency Radiation Exposure Evaluation

		y 1			
Frequency	Output Power to Antenna	Antenna Gain		Power Density	Limit
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm^2)	(mW/cm^2)
2405	2.39	-10	0.1	0.0000476	1.
2450	2.19	-10	0.1	0.0000436	1.
2480	2.51	-10	0.1	0.0000500	1.

Frequency	Output Power to Antenna	Antenna Gain		Limit	Distance
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm ²)	(cm)
2405	2.39	-10	0.1	1.0	0.138
2450	2.19	-10	0.1	1.0	0.132
2480	2.51	-10	0.1	1.0	0.020

The antenna used for this transmitter must be installed to provide a separation distance of at least 0.020cm from all persons