

Wei Fai Electronic Plastic Company

Application
For
Certification
(FCC ID: R9YWEIFAI-822)

RF Lighting Device

Sample Description : Gold Phone
Model : WF822

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 18, Subpart C for RF lighting devices, mention 47 CFR [10-1-2002]

0409164
BC/ec
December 9, 2004

- The test results reported in this report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- This report shall not be reproduced except in full without prior authorization from Intertek Testing Services Hong Kong Limited.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

FCC ID: R9YWEIFAI-822

Intertek Testing Services Hong Kong Ltd.

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MEASUREMENT/TECHNICAL REPORT

Wei Fai Electronic Plastic Company

- MODEL: WF-822

FCC ID: R9YWEIFAI-822

December 9, 2004

This report concerns (check one:) Original Grant X Class II Change _____

Equipment Type: RF Lighting

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes _____ No X

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 18.123? Yes _____ No X

If no, assumed Part 18 for RF lighting device - the new 47 CFR Part 18 [10-1-2002 Edition] provision.

Report prepared by:

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List of attached file

Exhibit type	File Description	filename
Test Report	Test Report	report.pdf
Operation Description	Technical Description	descri.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
Test Report	Conducted Emission Test Result	conducted.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf

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EXHIBIT 1

GENERAL DESCRIPTION

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1.0 **General Description**

1.1 Product Description

The equipment under test (EUT) is a Gold Phone. The unit is a corded phone with a neon light. It is powered by 120V AC and the neon light part is operated with 40kHz.

Neon Light:

Connect 120V AC source to the AC-DC adaptor. A DC source passes through a regulator, oscillator and step up transformer. Then, a high frequency high voltage pulse driving the neon tube.

When the neon switch is in the "ON" position, the light will remain on while the handset is on the base, but will shut off when the handset is lifted. If the neon switch is in the "OFF" position, the neon light will remain off except for when receiving a call. Incoming calls always flash the neon light.

For electronic filing, the brief circuit description is saved with filename: descri.pdf

Connection between the device and the telephone network is accomplished through the use of USOC RJ11C in the 2-wire loop calling central office line.

1.2 Related Submittal(s) Grants

The corded phone part of this unit is subject to the Part 15 verification process and Part 68 Registration. The test data was shown in separate report.

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1.3 Test Methodology

AC mains line-conducted emission measurements were performed according to the procedures in MP-5.

1.4 Test Facility

Conducted measurement facility used to collect the emission data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC.

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1.5 Equipment List

Disturbance Voltage Tests for FCC Part 18

Equipment	Registration No.	Manufacturer	Model No.	Serial No.	Calibration Due Date
EMI Test Receiver	EW-0015	R&S	ESHS30	827128/009	January 30, 2005
LISN	EW-0192	R&S	ESH3-Z5	828874/016	July 12, 2005
Pulse Limiter	EW-0698	R&S	ESH3-Z2	830.836/033	May 25, 2005

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EXHIBIT 2

SYSTEM TEST CONFIGURATION

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2.0 **System Test Configuration**

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in MP-5.

The EUT was powered by 120V AC.

2.2 EUT Exercising Software

There was no software to exercise the device. Once the lighting part of EUT is turned on, it emits the RF noise.

2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

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2.4 Equipment Modification

Any modifications installed previous to testing by Wei Fai Electronic Plastic Company will be incorporated in each production model sold/leased in the United States.

No modifications were installed by Intertek Testing Services.

2.5 Support Equipment List and Description

This product was tested in a standalone configuration. An AC adaptor (provided with the unit, Model: MWY-CE120-DC060350, 120V AC to 6V DC 350mA) was used to power the device. Its description is listed below.

(1) AC adapter with two meter unshielded power cord permanently affixed.

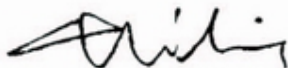
CABLES:

(1) Telecommunication cable with RJ11C connectors (1m, unshielded), terminated.

All the items listed under section 2.0 of this report are

Confirmed by:

*Billy Chow
Senior Supervisor
Intertek Testing Services Hong Kong Ltd.
Agent for Wei Fai Electronic Plastic Company*



Signature

December 9, 2004

Date

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EXHIBIT 3

EMISSION RESULTS

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3.0 Emission Results

The operating frequency of this product is 40kHz. According to section 18.309 frequency range of measurement, radiated emission testing is not necessary for RF lighting devices operating below 1.705MHz.

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3.1 Line Conducted Configuration Photograph

Worst Case Line-Conducted Configuration
at
0.495MHz

For electronic filing, the worst case line-conducted configuration photograph are saved with filename: conducted photos.pdf.

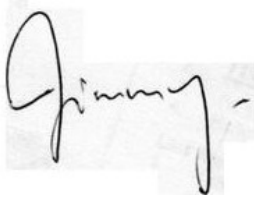
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3.2 Line Conducted Emission Configuration Data

For electronic filing, the graph and data table of the worst case conducted emission is saved with filename: conducted.pdf.

Judgement: Passed by 6.8dB

TEST PERSONNEL:



Signature

Jimmy Woo, Compliance Engineer
Typed/Printed Name

December 9, 2004
Date

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EXHIBIT 4

EQUIPMENT PHOTOGRAPHS

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4.0 Equipment Photographs

For electronic filing, the photographs of the tested EUT are saved with filename: external photos.pdf and internal photos.pdf.

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EXHIBIT 5

PRODUCT LABELLING

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5.0 **Product Labelling**

For electronic filing, the FCC ID label artwork and the label location are saved with filename: label.pdf

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EXHIBIT 6

TECHNICAL SPECIFICATIONS

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6.0 Technical Specifications

For electronic filing, the block diagram and schematics of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

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EXHIBIT 7

INSTRUCTION MANUAL

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7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf

This manual will be provided to the end-user with each unit sold/leased in the United States.