MEASUREMENT REPORT

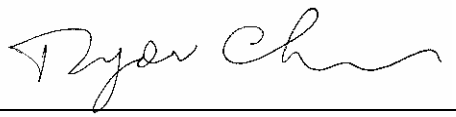
(FCC : Part 15 Subpart B / ANSI C63.4-2003)

Testing Laboratory
1288

Product	:	Receiver
Trade Name	:	SKYTECH II
Model No.	:	AF-4000PEWM / AF-4000PEWM-1
Applicant	:	Skytech II, Inc.
Applicant Address	:	9230 Conservation Way,Ft. Wayne, IN 46809, U.S.A.

Report Number	MLT0603P15001A1
Applicant	Skytech II, Inc.
Product	Receiver
Sample Received Date	2006/03/07

Report Prepared By	Jesse Tien
Signature	
Date Prepared	2006/03/08 ~ 2006/03/14

Report Authorized By	Roger Chen
Signature	
Date Authorized	2008/06/05

Test By

Max Light Technology Co., Ltd.
Room 5, 8F, No.125, Section 3 Roosevelt Road,
Taipei, Taiwan., R.O.C.
Office : Tel: 886-2-2363-2447 Fax: 886-2-2363-2597
Lab. : Tel: 886-2-2663-3486 Fax: 886-2-2663-3582

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CERTIFICATION

We here by verify that :

The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4-2003. All test were conducted by MLT(Max Light Technology Co.,Ltd) Room 5, 8F, No.125, Section 3 Roosevelt Road, Taipei, Taiwan, R.O.C Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is in compliance with Class B radiated and conducted emission limit of FCC Rules Part 15 Subpart B.

Applicant Name	Skytech II, Inc.
Applicant Address	9230 Conservation Way,Ft. Wayne,IN 46809,U.S.A.
Manufacturer Name	FEGO Precision Industrial Co., Ltd.
Manufacturer Address	947 LIN SEN RD., WU-FENG SHIANG TAICHUNG HSIEN R.O.C.

Equipment	Receiver
Model No	AF-4000PEWM / AF-4000PEWM-1
FCC ID	K9LAF-4000PEWM

Report Prepared By	Jesse Tien
Signature	

Report Authorized By	Roger Chen
Signature	

1. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of Skytech II, Inc. In support of an Intentional Periodic Radiator certification in accordance with Part 2 Subpart J and Part 15 Subpart A And C of the Commission's and Regulations.

1.2 Customer Details

Applicant Name	Skytech II, Inc.
Applicant Address	9230 Conservation Way,Ft. Wayne,IN 46809,U.S.A.
Manufacturer Name	FEGO Precision Industrial Co., Ltd.
Manufacturer Address	947 LIN SEN RD., WU-FENG SHIANG TAICHUNG HSIEN R.O.C.

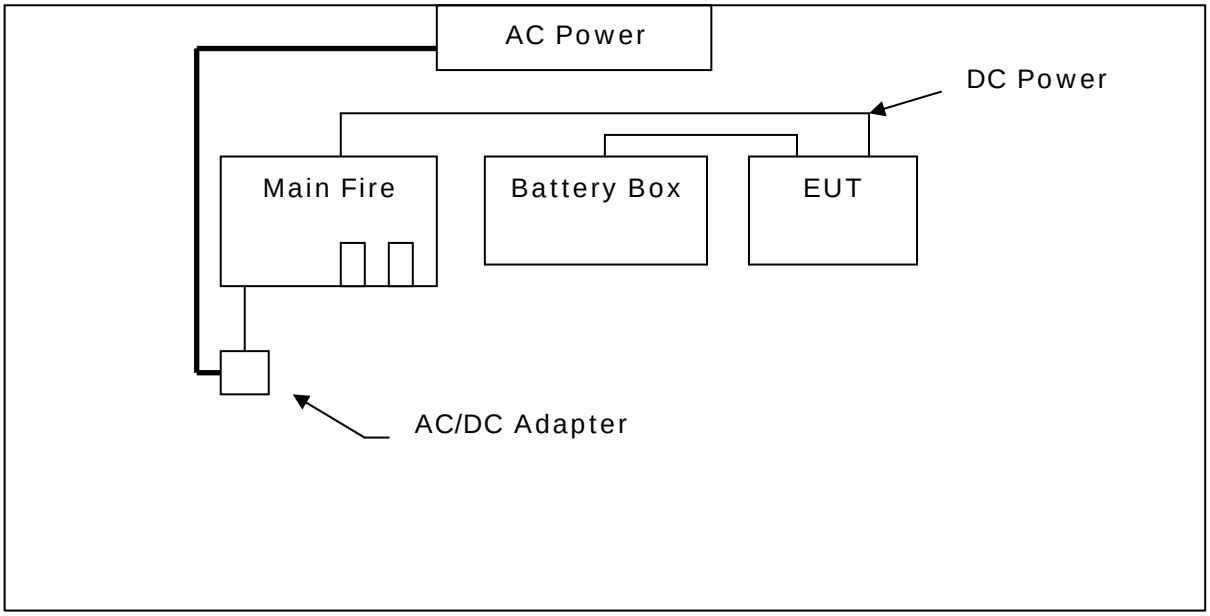
1.3 Technical data of EUT

Equipment	Receiver
Model No	AF-4000PEWM / AF-4000PEWM-1
FCC ID	K9LAF-4000PEWM
Power Type	Power By DC 6V or Battery (6Vdc)

1.4 Description of Support Equipment

The EUT itself forms a system. No support equipment is required for its normal operation.

1.5 Configuration of System Under Test



During testing the EUT (Receiver)'s one cable was connected to main fire, the other Port's cable was connected to battery box circuit. When the EUT was "ON", the main fire was continuing operating.

1.6 Test Procedure

All measurements contained in this report were performed according to the techniques described in Measurement procedure ANSI C63.4: 2003 "Measurement of Intentional Radiators."

1.7 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests was chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated.

2. Conducted Emissions Requirements

The EUT operates solely by the battery. According to the rule of Section 15.107(d), the EUT exempt to the power line conducted test.

3. Radiated Emissions Requirements

3.1 General & Setup:

Prior to open-field testing, the EUT was placed in a shielded enclosure and scanned at a close distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration which produced the highest emissions was noted so it could be reproduced later during the open-field tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT. Final radiation measurements were made on a 3-meter, open-field test site. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 30 MHz to 1000 MHz using an Hewlett Packard 8591EM Spectrum Analyzer, EMCO Biconilog Antenna (Model 3142C) for 30-1000MHz. At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization. Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post-detector video filters were used in the test. The spectrum analyzer's 6 dB bandwidth was set to 120 KHz, and the analyzer was operated in the quasi-peak detection mode. The highest emission amplitudes relative to the appropriate limit were measured and recorded in paragraph 3.4.

3.2 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	HP	Spectrum Analyzer	73412A00110	8591EM	2006/01/17	2007/01/17
2.	HP	Pre Amplifier	2944A08954	8447D	2005/04/14	2006/04/14
3.	HP	Pre Amplifier	3113A05475	8447F	2006/01/10	2007/01/10
4.	R&S	EMI Receiver	881121/010	354.3000.52	2005/12/10	2006/12/10
5.	EMCO	Biconilog Antenna	1184	3142	2006/02/03	2007/02/03

3.3 Test condition:

EUT tested in accordance with the specifications given by the manufacturer , and exercised in the most unfavorable manner.

3.4 Radiated Emissions Limits:

Frequency range (MHz)	Quasi Peak (dBuV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Frequency range (MHz)	**Average (dBuV/m)**
960 to 1610	54
Above 1610	60

3.5 Test condition:

A. Testing Room : Temperature 20℃ Humidity 55%RH
B. Testing Site : Temperature 21℃ Humidity 64%RH

3.6 Measurement Data Of Radiated Emissions:

3.6.1 Open Field Radiated Emissions

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Test Mode : Received Mode

Radiated Emissions (HORIZONTAL)					
Frequency (MHz)	**Amplitude (dBuV/m)**	**Ant. (m)**	**Table (Degree)**	**Limits(Class B) (dBuV/m)**	**Margin (dB)**
50.35	19.55	1.5	190	40	-20.45
119.80	19.72	1.5	130	43.5	-23.78
138.20	21.40	1.2	250	43.5	-22.10
200.00	22.65	1.1	240	43.5	-20.85
259.90	25.37	1	210	46	-20.63
275.50	26.76	1.1	180	46	-19.24
305.90	25.90	1	190	46	-20.10
342.20	24.59	1.5	110	46	-21.41
479.80	22.51	2	150	46	-23.49
519.90	23.92	1.9	110	46	-22.08
645.00	22.79	1.7	210	46	-23.21

Notes : 1.Margin= Amplitude - Limits
2.Distance of Measurement : 3 Meter
3.Height of table for EUT placed: 0.8 Meter.
4.Amplitude= Reading Amplitude –Amplifier gain+ Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

3.6.2 Open Field Radiated Emissions

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following

Test Mode : Received Mode

Radiated Emissions (VERTICAL)					
Frequency (MHz)	**Amplitude (dBuV/m)**	**Ant. (m)**	**Table (Degree)**	**Limits(Class B) (dBuV/m)**	**Margin (dB)**
37.14	22.90	1.5	120	40	-17.10
92.88	24.48	1.8	180	43.5	-19.02
116.30	23.47	2.1	290	43.5	-20.03
138.48	24.64	1.6	270	43.5	-18.86
171.45	23.57	1.7	110	43.5	-19.93
235.50	27.01	2.5	260	46	-18.99
266.76	30.01	1	150	46	-15.99
305.40	28.33	1.2	190	46	-17.67
641.00	26.52	2.5	220	46	-19.48
722.30	26.55	2.8	210	46	-19.45
895.50	25.98	1.7	180	46	-20.02

Notes : 1.Margin= Amplitude - Limits

2.Distance of Measurement : 3 Meter

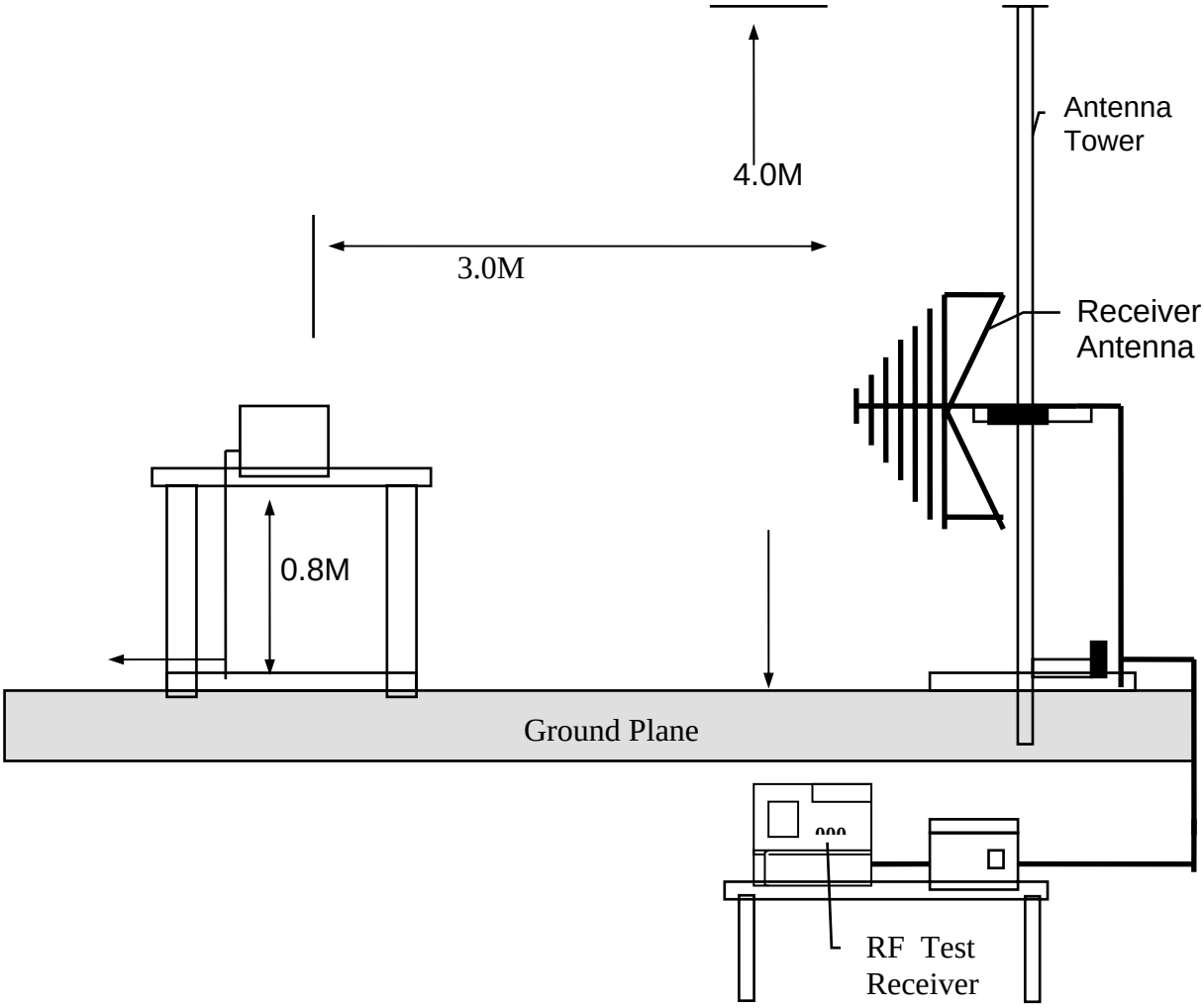
3.Height of table for EUT placed: 0.8 Meter.

4.Amplitude= Reading Amplitude –Amplifier gain+ Cable loss + Antenna factor

(Auto calculate in spectrum analyzer)

Appendix I- EUT Test SETUP

MEASUREMENT OF RADIATED EMISSION



Appendix II- Brand /Trade Name & Model No. Multiple Listee

Brand /Trade Name	Model Name
N/A	N/A