Ke Mei Ou Laboratory Co., Ltd.

7A, Jiaxiangge, Jiahuixincheng, No.3027, Shennan Rd., Futian, Shenzhen, Guangdong, P.R.China. Zip Code: 518033
Tel: +86 755 83642690 Fax: +86 755 83297077
www.kmolab.com



FEDERAL COMMUNICATIONS COMMISSION Registration Number: 125782

INDUSTRY CANADA
Registration Number: IC4986

FCC TEST REPORT

Under FCC 15 Subpart C, Paragraph 15.227

Prepared For:

FuJian New Times Digital Technology Co., Ltd.

New Times Ind Park, HanJiang Dis., PuTian, FuJian, China.

FCC ID: UGKDAYTONA

EUT: Wireless Optical Mouse

Model: DAYTONA2A

April 26, 2007

Report Type: Original Report

Test Engineer: Jacky Huang

Test Date: April 16, 2007

Review By:

Apollo Liu / Manager

The test report consists 19 pages in total. It may be duplicated completely for legal use with the allowance of the applicant. It shall not be reproduced except in full, without the written approval of Ke Mei Ou Laboratory Corporation. The test result in the report only applied to the tested sample.

TABLE OF CONTENTS

1. General Information	3
1. 1 Notes	
1. 2 Testing Laboratory	3
1. 3 Details of Applicant	3
1. 4 Application Details	3
1. 5 Test Item	
1. 6 Test Standards	3
2. Technical Test	
2. 1 Summary of Test Results	4
2. 2 Antenna Requirement	
3. EUT Modifications	
4. Conducted Power Line Test	
4. 1 Test Equipment	
4. 2 Test Procedure	5
4. 3 Test Setup	
4. 4 Configuration of The EUT	
4. 5 EUT Operating Condition	7
4. 6 Conducted Power Line Emission Limits	
4. 7 Conducted Power Line Test Result.	7
5. Radiated Emission Test	
5. 1 Test Equipment	
5. 2 Test Procedure	
5. 3 Radiated Test Setup	
5. 4 Configuration of The EUT	
5. 5 EUT Operating Condition	
5. 6 Radiated Emission Limit	
5. 7 Radiated Emission Test Result	
6. Band Edge	
6. 1 Test Equipment	
6. 2 Test Procedure	
6. 3 Radiated Test Setup	
6. 4 Configuration of The EUT	
6. 5 EUT Operating Condition	12
6. 6 Band Edge Limit	
6. 7 Band Edge Test Result	
7. Photos of Testing	
7. 1 EUT Test Photographs	13
7. 2 EUT Detailed Photographs	
8. FCC ID Label	
9. Test Equipment	

1. General Information

1. 1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO 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 KMO Lab.

1. 2 Testing Laboratory

SinTek Laboratory Co., Ltd.

No.7, Xinshidai Induatrial, Guantian Village, Shiyan Town, Bao'an District, Shenzhen, Guangdong China...

Tel: +86 755 27608353 Fax: +86 755 27608359

Site on File with the Federal Communications Commission - United Sates

Registration Number: 963441

1. 3 Details of Applicant

Name : FuJian New Times Digital Technology Co., Ltd.

Address : New Times Ind Park, HanJiang Dis., PuTian, FuJian, China.

Contact : Gary Cai / Manager Tel : + 0769 85440198 Fax : + 0769 85440398

1. 4 Application Details

Date of Receipt of Application : March 7, 2007 Date of Receipt of Test Item : March 7, 2007

Date of Test : April 16~April 26, 2007

1. 5 Test Item

Manufacturer : Same Applicant
Address : Same Applicant
Brand Name : Swissgear by Wenger

Model No. : Daytona2A, Daytona2B(Daytona2), Daytona2C(Rival)

Description : Wireless Optical Mouse

Additional Information

Frequency : 27.045MHz
Number of Channels : 1
Power Supply : DC3V

Power Supply : DC3V
Operation Distance : N/A
Resolution : N/A

1. 6 Test Standards

FCC 15 Subpart C, Paragraph 15.227

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2. Technical Test

2. 1 Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	PASS	Complies
FCC Part 15, Paragraph 15.207	Conducted Test	N/A	Owing to the DC operation of EUT, this test item is not performed.
FCC Part 15 Subpart C Paragraph 15.227 Limit	Field Strength of Fundamental	PASS	Complies.
FCC Part 15, Paragraph 15.209	Radiated Test	PASS	Complies.
Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).	Band Edge Test	PASS	The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.

2. 2 Antenna Requirement

A. Regulation

FCC section 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of Part 15C. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

B. Result

The EUT no antenna connector for printed antenna. Therefore the EUT complies with Section 15.203 of the FCC rules.

3. EUT Modifications

No modification by SinTek Laboratory Co., Ltd.

4. Conducted Power Line Test

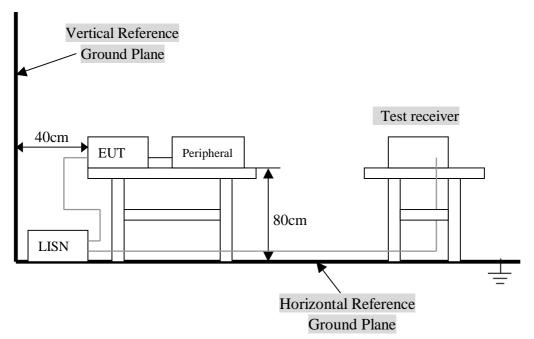
4. 1 Test Equipment

Please refer to Section 9 this report.

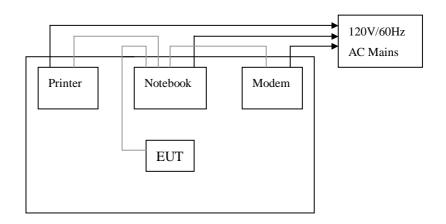
4. 2 Test Procedure

The EUT was tested according to ANSI C63.4 - 2003. The frequency spectrum from <u>0.45</u> MHz to <u>30 MHz</u> was investigated. The LISN used was 50 ohm / 50 uHenry as specified by section 5.1 OF ANSI C63.4 - 2003. cables and peripherals were moved to find the maximum emission levels for each frequency.

4. 3 Test Setup



For the actual test configuration, Please refer to the related items - Photos of Testing.



4. 4 Configuration of The EUTThe EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

DEVICE	MANUFACTURER	MODEL #	FCC ID
Wireless Optical Mouse	FuJian New Times Digital Technology Co., Ltd.	Swissgear by Wengear	UGKDAYTONA

B. Internal Devices

DEVICE	MANUFACTURER	MODEL #	FCCID / DoC
N/A			

C. Peripherals

Corresponding				
Device	Manufacturer	Model # Serial #	FCC ID/ DoC	Cable
Printer	HP	HP930C	DoC	1.5m unshielded power cord 1.2m unshielded data cable.
Modem	GVC	N/A	DoC	1.5m unshielded power cord 1.2m unshielded data cable.
Notebook	DELL	PP10L	DoC	1.5m unshielded power cord
PC	Dell	2400n	DoC	1.5m unshielded power cord

4. 5 EUT Operating Condition

Operating condition is according to ANSI C63.4 - 2003.

- A. Setup the EUT and simulators as shown on follow.B. Enable RF signal and confirm EUT active.
- C. Modulate output capacity of EUT up to specification.

EUT

4. 6 Conducted Power Line Emission Limits

FCC Part 15 Paragraph 15.207 (dBuV)					
FREQUENCY CLASS A CLASS B RANGE (MHz) QP/AV QP/AV					
0.15 - 0.5	79/66	66-56/56-46			
0.5 - 5.0	73/60	56/46			
5.0 - 30	73/60	60/50			

NOTE: In the above table, the tighter limit applies at the band edges.

4. 7 Conducted Power Line Test Result

Owing to the DC operation of EUT, this test item is not performed.

5. Radiated Emission Test

5. 1 Test Equipment

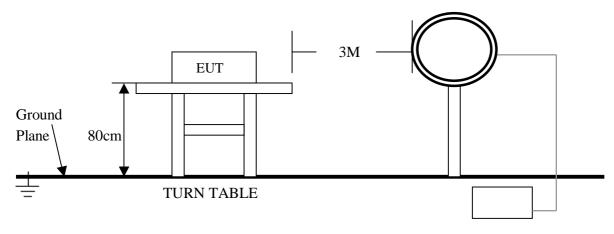
Please refer to Section 9 this report.

5. 2 Test Procedure

- 1. The EUT was tested according to ANSI C63.4 2003.
- The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high <u>0.8</u> m. All set up is according to ANSI C63.4-2003.
- 3. The frequency spectrum from $\underline{30}$ MHz to $\underline{1}$ GHz was investigated. All readings from $\underline{30}$ MHz to $\underline{1}$ GHz are quasi-peak values with a resolution bandwidth of $\underline{120}$ KHz. All readings are above $\underline{1}$ GHz, peak values with a resolution bandwidth of $\underline{1}$ MHz. Measurements were made at $\underline{3}$ meters.
- 4. The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. The Receiving antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency. Emissions below 30MHz were measured with a loop antenna while emission above 30MHz were measured using a broadband E-field antenna.
- 5. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table
- 6. Both the horizontal and vertical field components were measured above 30 MHz while below 30 MHz the antenna was rotated in 3 axes.

5. 3 Radiated Test Setup

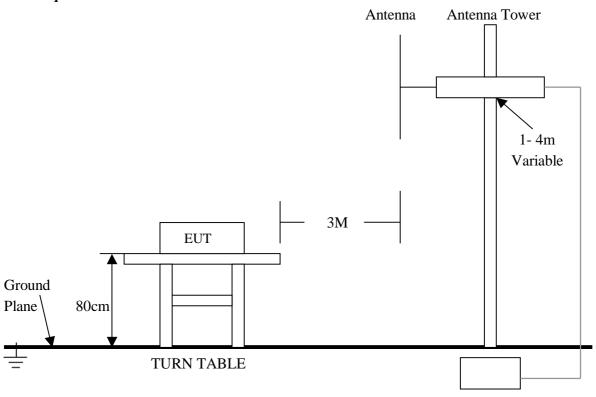
For Frequencies below 30 MHz



Test Receiver

For the actual test configuration, please refer to the related items - Photos of Testing

For Frequencies below 1 GHz



Test Receiver

For the actual test configuration , please refer to the related items – Photos of Testing

5. 4 Configuration of The EUT

Same as section 4 . 4 of this report

5. 5 EUT Operating Condition

Same as section 4.5 of this report.

5. 6 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below :

A. FCC Part 15 Subpart C Paragraph 15.227 Limit

Fundamental Frequency	Field Strength of Fundamental		Field Strength of Fundamental	
(MHz)	uV/m	dBuV/m		
26.96 – 27.28	10000	80.0		

Note:

- (1) RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (3) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency (MHz)	Distance (m)	Field Strength (dBuV/m)
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
Above 960	3	54.0

Note:

- (1) RF Voltage (dBuV) = 20 log RF Voltage (uV)
- (2) In the Above Table, the tighter limit applies at the band edges.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the

5. 7 Radiated Emission Test Result

A. Fundamental Radiated Emission Data

Test Result : PASS

Freq. (MHz)	Emission (dBuV/m)	HORIZ / VERT	Limits (dBuV/m)	Margin (dB)
27.045	47.80	HORIZ	80	-32.20
27.045	45.34	VERT	80	-34.66

Note:

- (1) All Readings are Peak value.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.

B. General Radiated Emission Data

Product : Wireless Mouse Test Mode : Tx

Test Item : General Radiated Emission Data Temperature : 25 °C

Test Voltage : DC 3V (Power by Battery) Humidity : 50% RH

Test Result : PASS

Freq. (MHz)	Emission (dBuV/m)	HORIZ / VERT	Limits (dBuV/m)	Margin (dB)
54.090	25.09	HORZ	40.0	-14.91
54.090	20.83	VERT	40.0	-19.17
81.135	24.02	HORZ	40.0	-15.98
81.135	20.33	VERT	40.0	-19.67
108.180	25.91	HORZ	43.5	-17.59
108.180	26.78	VERT	43.5	-16.72

Note:

- (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.

6. Band Edge

6. 1 Test Equipment

Please refer to Section 9 this report.

6. 2 Test Procedure

Please refer to Section 5.2 this report.

6. 3 Radiated Test Setup

Please refer to Section 5.3 this report.

6. 4 Configuration of The EUT

Same as section 4 . 4 of this report

6. 5 EUT Operating Condition

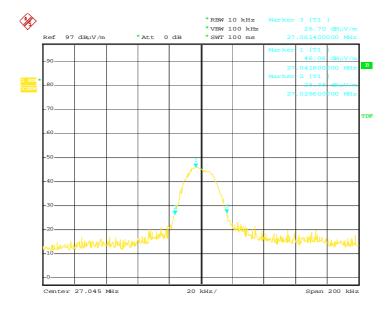
Same as section 4 . 5 of this report.

6. 6 Band Edge Limit

Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6. 7 Band Edge Test Result

Test Result : PASS



Date: 17.APR.2007 08:36:34

Note:

- (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
- (2) The average measurement was not performed when the peak measured data under the limit of average detection.

7. Photos of Testing

7. 1 EUT Test Photographs





7. 2 EUT Detailed Photographs

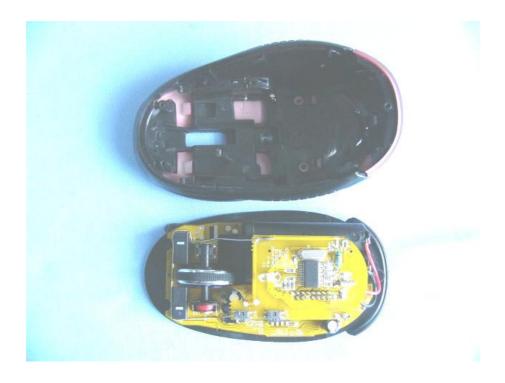
EUT top view



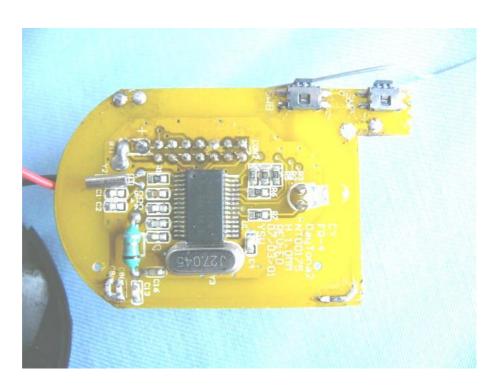
EUT bottom view

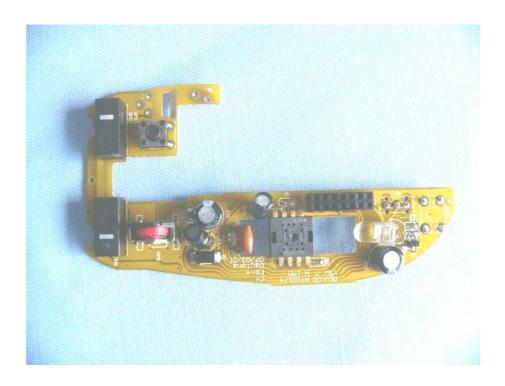


EUT inside whole view

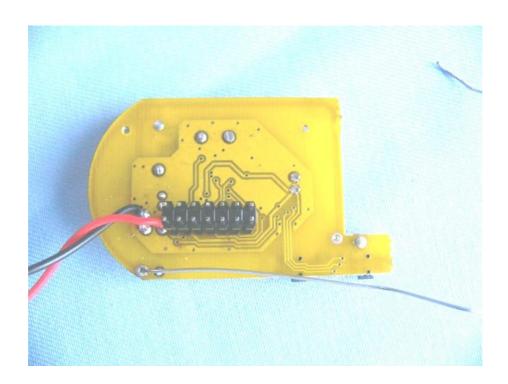


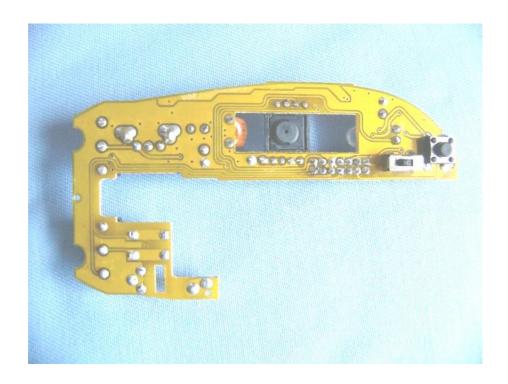
Main board component side





Main board solder side





8. FCC ID Label

FCC ID: UGKDAYTONA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper label. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

The remained portion of label statement required by FCC is attached in the user's manual.

Proposed Label Location on EUT

EUT Bottom View/Proposed FCC ID Label Location



9. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

Equipment/ Facilities	Manufacturer	Model #	Serial No.	Date of Cal.	Due Date
Turntable	KMO	KSZ001T	200306	NCR	NCR
Antenna Tower	KMO	KSZ002AT	200307	NCR	NCR
OATS	KMO	KSZSITE001	N/A	July 06, 2006	July 06, 2007
EMI Test Receiver	Rohde & Schwarz	ESPI3	100180	Oct.18, 2006	Oct.18, 2007
Spectrum Analyzer	Rohde & Schwarz	FSP40	100273	Sep. 18, 2006	Sep. 18, 2007
Signal Generator	FLUKE	PM5418+Y/C	LO747012	Feb.10, 2007	Feb.10, 2008
Signal Generator	FLUKE	PM5418TX	LO738007	Feb.10, 2007	Feb.10, 2008
Loop Antenna	SCHWARZBECK	FMZB1516	113	Jan. 30, 2007	Jan. 30, 2008
Loop Antenna	Rohde & Schwarz	HFH2-Z2	872096/16	Jan. 30, 2007	Jan. 30, 2008
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	9161-4079	Sep.18, 2006	Sep.18, 2007
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	9161-4080	Sep.18, 2006	Sep.18, 2007
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-564	Sep.18, 2006	Sep.18, 2007
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-565	Sep.18, 2006	Sep.18, 2007
Ultra Broadband Antenna	Rohde & Schwarz	HL 562	100110	June.05, 2006	June.05, 2007
AMN	Rohde & Schwarz	ESH3-Z5	100196	Oct. 23, 2006	Oct. 23, 2007
AMN	Rohde & Schwarz	ESH3-Z5	100197	Oct. 23, 2006	Oct. 23, 2007
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
Absorbing Clamp	Rohde & Schwarz	MDS-21	N/A	Oct. 29, 2006	Oct. 29, 2007
KMO Shielded Room	KMO	KMO-001	N/A	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb. 27, 2006	Feb.27, 2007
Coaxial Cable with N-Connectors	SCHWARZBECK	AK9515H	95549	Sep.18, 2006	Sep.18, 2007
Power Meter	Rohde & Schwarz	NRVD	100041	Feb.10, 2007	Feb.10, 2008
Radio Communication Test Set	Rohde & Schwarz	CMS 54	846621/024	Feb.10, 2007	Feb.10, 2008
Modulation Analyzer	Hewlett-Packard	8901B	2303A00362	Feb.10, 2007	Feb.10, 2008
Communication Analyzer	Wavetek Stabilock	4032	N/A	Feb. 01, 2007	Feb.01, 2008
Storage Oscilloscope	Tektronix	TDS3052	N/A	Feb. 01, 2007	Feb.01, 2008
Attenuator	Schwarzbeck	20dB	N/A	Feb. 01, 2007	Feb.01, 2008
Attenuator	Rohde & Schwarz	10dB	N/A	Feb. 01, 2007	Feb.01, 2008
SOHO Telephone Switching System	IKE	2000-108C	N/A	Feb.10, 2007	Feb.10, 2008
Temperature Chamber	TABAI	PSL-4GTW	N/A	Feb.10, 2007	Feb.10, 2008