

FCC TEST REPORT

FCC ID: : RPZMOU500

Applicant : DOBBS –STANFORD CORPORATION
2715 Electronic Lane Dallas, TX 75220 United States

Equipment Under Test (EUT) :

Product Name : Mouse

Model No. : MOU-500, XMD-M01

Standards : FCC Part 15 SUBPART B

Date of Test : January 06, 2006

Test Engineer : Tiger Su

Reviewed By : 

PERPARED BY:
Shenzhen Huatongwei International Inspection Co., Ltd

Keji S, 12th, Road, Hi-tech Industrial Park, Shenzhen, Guangdong, China

FCC Registration Number: 662850

2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2003	ANSI C63.4: 2003	Class B	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART B: 2003	ANSI C63.4: 2003	Class B	PASS

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4 General Information

4.1 Client Information

Applicant:	DOBBS –STANFORD CORPORATION
Address of Applicant:	2715 Electronic Lane Dallas,TX 75220 United States
Manufacturer	SHENZHEN XINMAODA ELECTRONIC TECH CO.,LTD
Address of Manufacturer	No.287.Gu Xu One Rd.Gu Xu.Xixiang Town.Baoan District.Shenzhen.China

4.2 General Description of E.U.T.

Product Name:	Mouse
Model No.:	MOU-500, XMD-M01

4.3 Details of E.U.T.

Power Supply:	USB Signal Input
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4.4 Description of Support Units

The EUT has been tested with a PC system. The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software, EMCTEST-H Program, contained on the hard drive, is auto starting on power-up. Once loaded, the program sequentially exercises each system component.

The customer requested FCC tests for a Mouse.

The standard used was FCC Part 15.107 & Part15.109, SUBPART B, CLASS B (2003)

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC – Registration No.: 662850**

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 662850, November 17, 2003.

4.6 Test Location

All Emissions tests were performed at:-Shenzhen Huatongwei International Inspection Co., Ltd. at Keji S,12th,Road, Hi-tech Industrial Park, Shenzhen, Guangdong, China.

4.7 Host System Configuration Details

Description	Manufacturer	Model No.	Serial No.	FCC DOC
Notebook PC	IBM	X31	99- MADCD04/02	DOC
Printer	Epson	P310B	N/A	DOC

4.8 External I/O Cabling List and Details

Cable Description	Length(m)	From/Port	To
Shielded Printer Cable	1.8	Parallel/Host	Printer
Adaptor	1.8	AC	Host

5 Equipment Used during Test

Conducted Emission Test						
Item	Test Equipment	Manufacturer	Model No.	Series No.	Cal. Date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCS30	100038	05-11-2005	04-11-2006
2	Artificial Mains	Rohde&schwarz	ESH2-Z5	100028	05-11-2005	04-11-2006
3	Pulse Limiter	Rohde&schwarz	ESHSZ2	100044	05-11-2005	04-11-2006
4	EMI Test Software	Rohde&schwarz	ESK1	N/A	N/A	N/A
Radiated Emission Test						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due date
1	3m Semi- Anechoic Chamber	Frankonia	N/A	N/A	05-11-2005	04-11-2006
2	EMI Test Receiver	ROHDE & SCHWARZ	ESCS30	100085	05-11-2005	04-11-2006
3	EMI Test Software	ROHDE & SCHWARZ	ES-K1	N/A	N/A	N/A
4	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	18-09-2005	17-09-2006
Common Used Equipment						
Item	Test Equipment	Manufacturer	Model No.	Series No.	Cal. Date	Due date
1	Temperature, Humidity & Barometer	OREGON SCIENTIFIC	BA-888	EMC0001 to EMC0004	05-11-2005	04-11-2006
2	DMM	FLUKE	73	70681569 or 70671122	05-11-2005	04-11-2006

5.1 Conduction Emissions, 0.15MHz to 30MHz

Test Requirement:	FCC Part 15.107
Test Method:	ANSI C63.4: 2003
Test Date:	January 06, 2006
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	66-56 dB μ V/m between 0.15MHz & 0.5MHz 56 dB μ V/m between 0.5MHz & 5MHz 60 dB μ V/m between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth) Quasi-Peak & Average if maximised peak within 6dB of Average Limit

5.1.1 E.U.T. Operation

Operating Environment:

Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1012 mbar

EUT Operation :

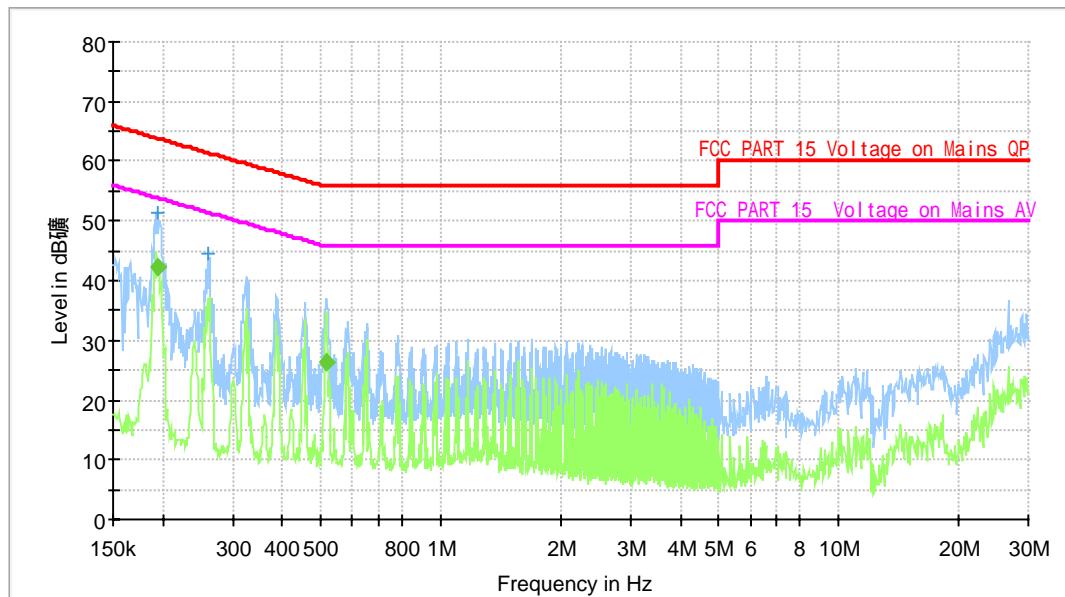
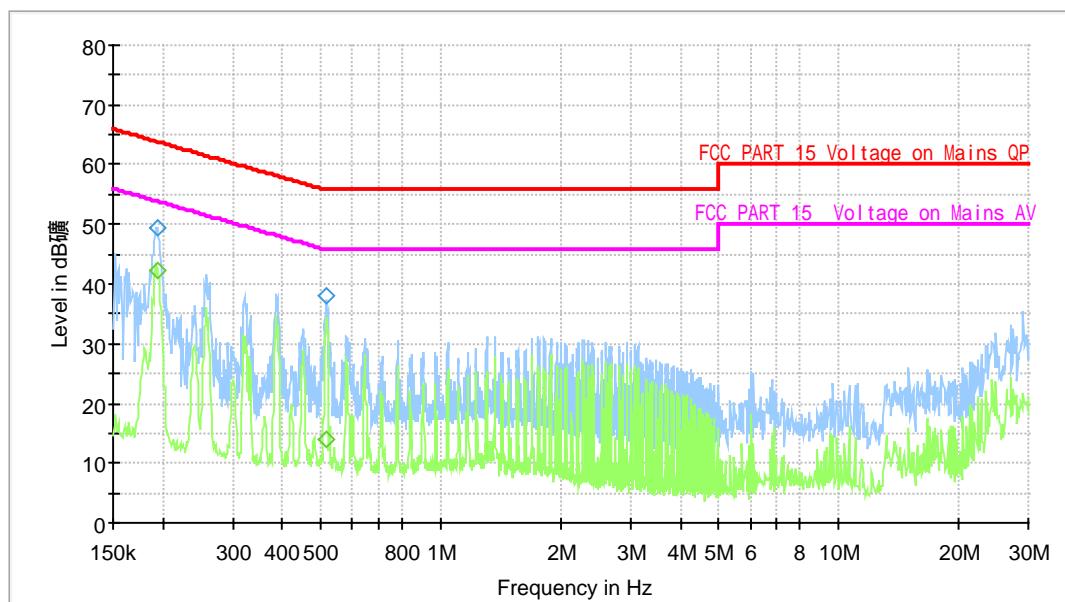
Compliance test was performed test in on mode connected with PC with the load a printer. The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

5.1.2 Measurement Data

An initial pre-scan was performed on the live and neutral lines.

No futher quasi-peak or average measurements were performed since no peak emissions were detected within 10dB line below the average limit.

Please refer to the following peak scan graph for reference.

Live Line**Neutral Line**

5.1.3 Conducted Emissions Test Data

Freq. MHz	Line	QP Reading dBuV	Limit dBuV	Margin dB	AV Reading dBuV	Limit dBuV	Margin dB
0.150000	Live	44.30	66.0	21.7	21.4	56.0	34.6
0.194000	Live	50.10	63.9	12.8	41.6	53.9	12.3
0.326000	Live	36.40	59.6	23.2	30.6	49.6	19.0
0.151200	Neutral	41.60	66.0	24.4	16.7	56.0	39.3
0.194000	Neutral	42.50	63.9	21.4	30.3	53.9	23.6
0.326000	Neutral	36.40	59.6	23.2	30.6	49.6	19.0

5.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC Part 15.109
Test Method: ANSI C63.4: 2003
Test Date: January 06, 2006
Frequency Range: 30MHz to 1GHz
Measurement Distance: 3m
Class: Class B
Limit: 40.0 dB μ V/m between 30MHz & 88MHz
43.5 dB μ V/m between 88MHz & 216MHz
46.0 dB μ V/m between 216MHz & 960MHz
54.0 dB μ V/m above 960MHz
Detector: Peak for pre-scan (120kHz resolution bandwidth)
Quasi-Peak if maximised peak within 6dB of limit

5.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24.0 °C
Humidity: 52 % RH
Atmospheric Pressure: 1012 mbar

EUT Operation :

Compliance test was performed test in on mode connected with PC with the load a printer.

5.2.2 EUT Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part 15.109 Class B limits.

5.2.3 Spectrum Analyzer Setup

According to FCC Part 15.109 Class B Rules, the system was tested to 1000 MHz.

Start Frequency	30 MHz
Stop Frequency	1000 MHz
Sweep Speed Auto	
IF Bandwidth	1 MHz
Video Bandwidth.....	1 MHz
Quasi-Peak Adapter Bandwidth	120 kHz
Quasi-Peak Adapter Mode.....	Normal
Resolution Bandwidth	1MHz

5.2.4 Test procedure

For the radiated emissions test, since the EUT does have a power source, there was connection to AC outlets.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant 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 μ V of specification limits), and are distinguished with a "Qp" in the data table.

The EUT was under normal mode during the final qualification test and the configuration was used to represent the worst case results.

5.2.5 Summary of Test Results

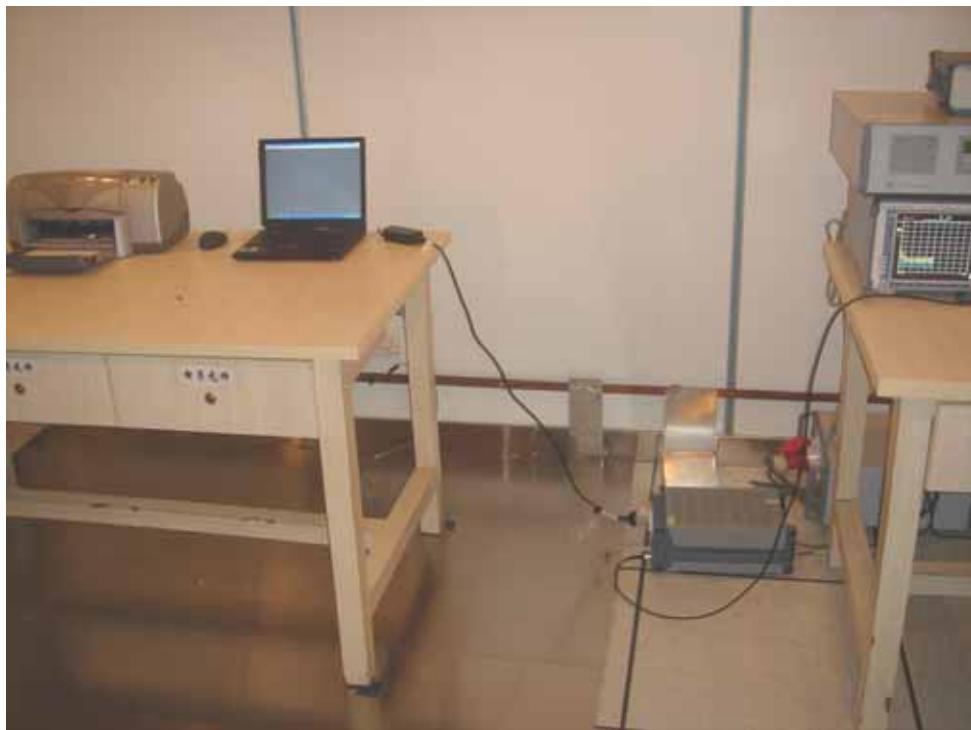
According to the data in section 5.2.6, the EUT complied with the FCC Part 15.109 Class B standards,The test results:PASS.

5.2.6 Radiated Emissions Test Data

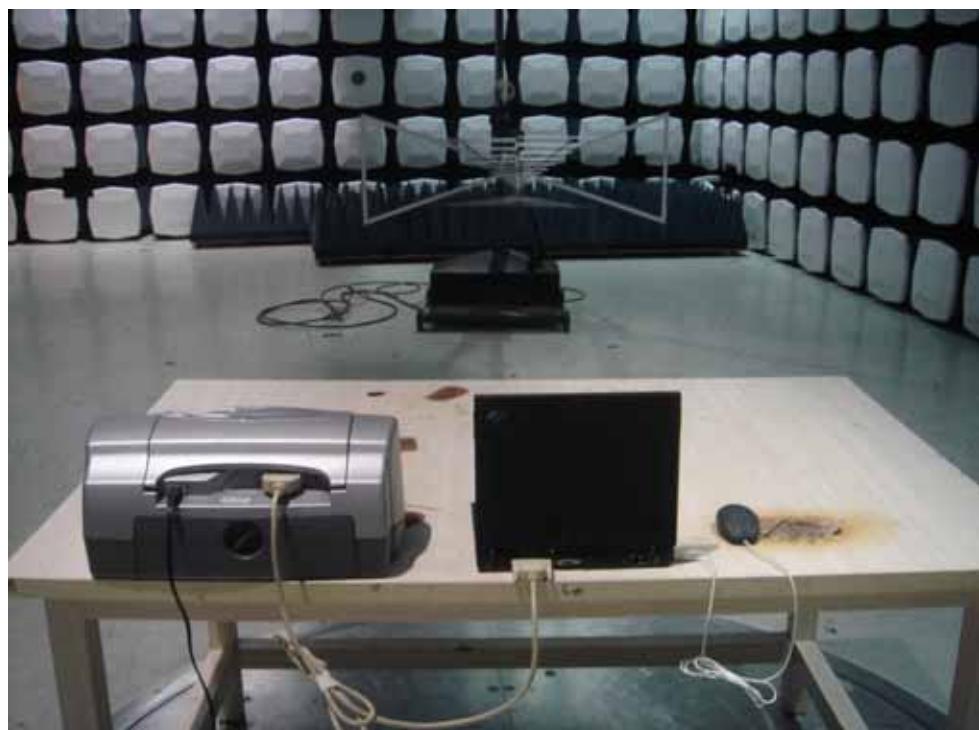
Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)	Limit dBuV/m)	Margin (dB)	Antenna Height (m)	Turtable Angle (°)
31.9438	Vertical	34.3	40.0	5.7	1.5	230
55.2792	Vertical	34.2	40.0	5.8	1.8	120
663.7042	Vertical	39.6	46.0	6.4	1.5	65
59.1583	Horizontal	35.1	40.0	4.9	1.8	90
663.7042	Horizontal	38.8	46.0	7.2	1.5	180
702.7438	Horizontal	40.9	46.0	5.1	1.5	90

5.3 Photographs - Test Setup

5.3.1 Mains Terminals Disturbance Voltage 150KHz To 30MHz



5.3.2 Radiated Emissions, 30M-1000MHz



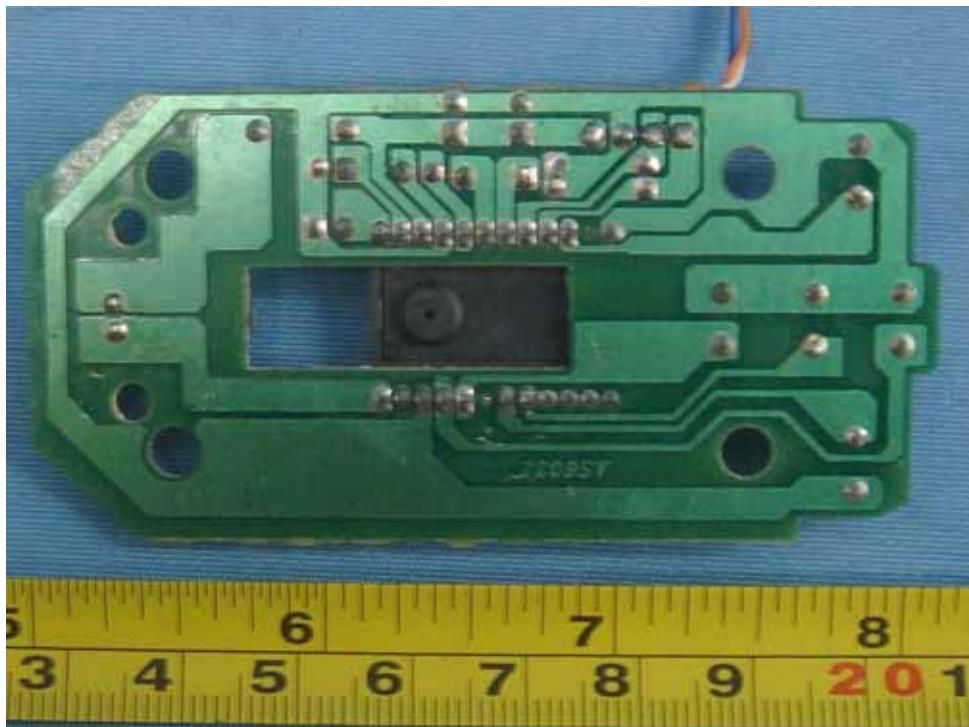
5.3.3 EUT - Front View



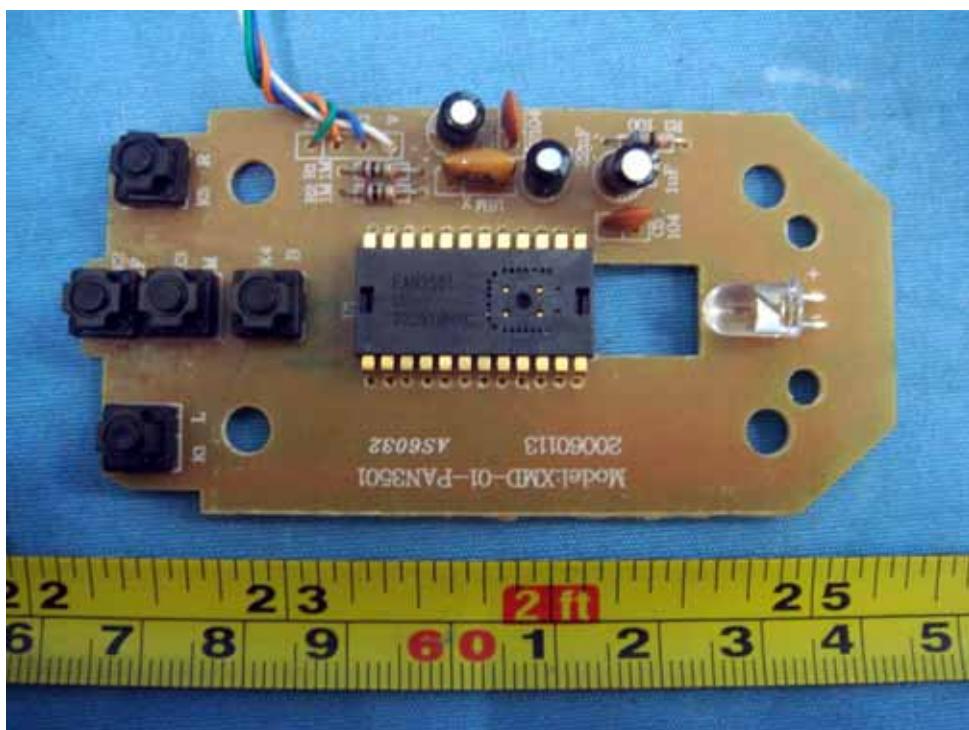
5.3.4 EUT - Back View



5.3.5 PCB - Solder View



5.3.6 PCB - Component View



6 FCC Label

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. 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.

Proposed Label Location on EUT
EUT Top View/ proposed FCC Mark Location

