





ISO/IEC17025 Accredited Lab.

Report No: FCC1010125 File reference No: 2010-10-22

Applicant: Zaidtek Electronic Technology (Xiamen) Co., Ltd

Product: Wireless Mouse

Model No: HM8099

Brand Name: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: October 22, 2010

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The 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 No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Zaidtek Electronic Technology (Xiamen) Co., Ltd.

Address: No.285, Wengjiao Road, Haicang District, Xiamen, Fujian, China

Telephone: +86-592-6881635 Fax: +86-592-6881611

1.3 Description of EUT

Product: Wireless Mouse

Manufacturer: Zaidtek Electronic Technology (Xiamen) Co., Ltd.

Brand Name: N/A
Model Number: HM8099
Additional Model Name N/A
Additional Trade Name N/A

Rating: DC 1.5V (1pcs AAA battery)

Modulation Type: FSK

Operation Frequency 2402-2480MHz

Antenna Designation PCB printed antenna and the maximum gain is 1.5dBi.

1.4 Submitted Sample

1 Sample

1.5 Test Duration

2010-10-19 to 2010-10-22

The report refers only to the sample tested and does not apply to the bulk.

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

2.0		Test Equi	pments		
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2009-12-05	2010-12-04
Ultra Broadband ANT	Schwarebeck	VULB9163	9163/340	2009-12-05	2010-12-04
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2010-03-29	2011-03-28
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2010-02-17	2011-02-16
Power meter	Anritsu	ML2487A	6K00003613	2010-02-17	2011-02-16
Power sensor	Anritsu	MA2491A	32263	2010-02-17	2011-02-16
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2010-02-17	2011-02-16
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2010-08-13	2011-08-12
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2010-07-03	2011-07-02
Loop Antenna	EMCO	6502	00042960	2010-02-17	2011-02-16
Pre-amplifier	EM	EM30265	2727A05017	2010-05-14	2011-05-13

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3.0 Technical Details

3.1 Summary of test results

Standard	Test Type	Result	Notes
ECC Part 15 Parrament 15 207	Conducted	NT/A	Not
FCC Part 15, Paragraph 15.207	Emission Test	N/A	Complies
ECC D. 4 15 C. L 4 C. D 15 240(.)	Field Strength		
FCC Part 15 Subpart C Paragraph 15.249(a)	of	PASS	Complies
& 15.249(b) Limit	Fundamental		
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d)	Band Edge	DAGG	GP.
Limit	Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249

4.0 EUT Modification

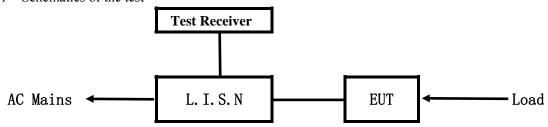
No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

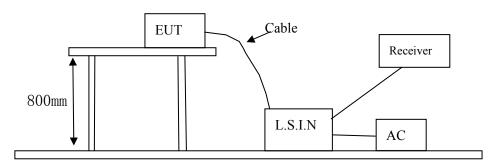


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



5.3 Configuration of The EUT

The 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.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Wireless Mouse	Zaidtek Electronic Technology (Xiamen) Co.,	HM8099	YVYHYXHM8099
	Ltd.		

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency(MHz)	Class A Lir	nits (dB µ V)	Class B Limits (dB µ V)		
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0	
$5.00 \sim 30.00$	73.0	60.0	60.0	50.0	

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: Due to DC Operation, this test item not applicable

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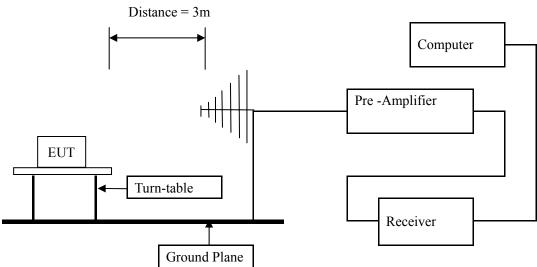
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6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 3MHz. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

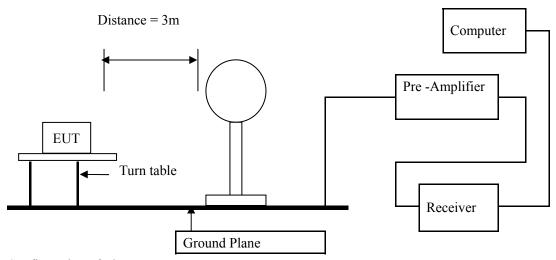


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Block diagram of Test setup for frequency below 30MHz



Configuration of The EUT Same as section 5.3 of this report

EUT Operating Condition
Same as section 5.4 of this report.

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6.4 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 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field Strength of Harmonics (3m)		onics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF 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.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log 2400/F (kHz) + 40
0.490-1.705	3	20log 24000/F (kHz) + 20
1.705-30	3	20log 30 + 20
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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 EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK and AV detector.
- 6. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)
- 7. New Battery used in the radiated emissions test

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6.5 Test result

Fundamental & Harmonics Radiated Emission Data \mathbf{A}

Product:	Wireless Mouse	Test Mode:	Constant Transmit Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	1.5V DC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2402	77.2(PK)	Н	114/94	
2402	74.5(PK)	V	114/94	
4804		H/V	74/54	
7206		H/V	74/54	
9608		H/V	74/54	
12010		H/V	74/54	
14412		H/V	74/54	
16814		H/V	74/54	
19216		H/V	74/54	
21618		H/V	74/54	
24020		H/V	74/54	

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Product:	Wireless Mouse	Test Mode:	Constant Transmit Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	1.5V DC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2440	74.9(PK)	Н	114/94	
2440	72.8(PK)	V	114/94	
4880		H/V	74/54	
7320		H/V	74/54	
9760		H/V	74/54	
12200		H/V	74/54	
14640		H/V	74/54	
17080		H/V	74/54	
19520		H/V	74/54	
21960		H/V	74/54	
24400		H/V	74/54	

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Product:	Wireless Mouse	Test Mode:	Constant Transmit High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	1.5V DC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2480	76.5 (PK)	Н	114/94	
2480	74.2(PK)	V	114/94	
4960		H/V	74/54	
7440		H/V	74/54	
9920		H/V	74/54	
12400		H/V	74/54	
14880		H/V	74/54	
17360		H/V	74/54	
19840		H/V	74/54	
22320		H/V	74/54	
24800		H/V	74/54	

Note: (1) PK= Peak, AV= Average

- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) The measured PK value less than the AV limit.

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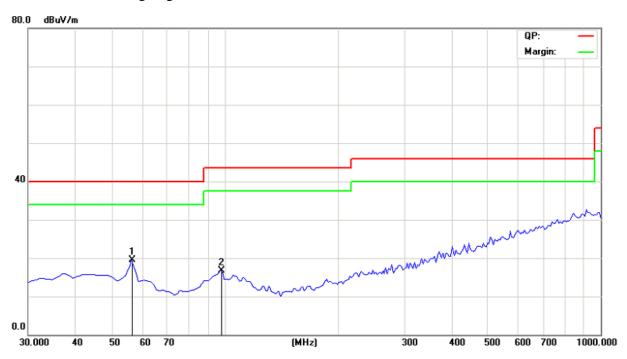


Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting Mode: Normal work

Results: Pass

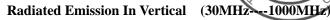
Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
56.675	19.45	Н	40.00
97.900	16.77	Н	43.50

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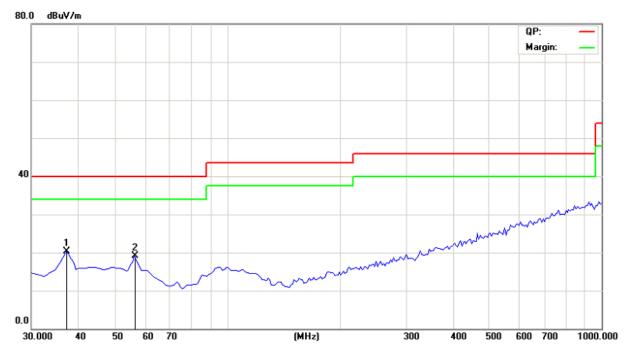
Date: 2010-10-22



EUT set Condition: Keep transmitting Mode: Normal work

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
37.275	20.38	V	40.00
56.675	19.03	V	40.00

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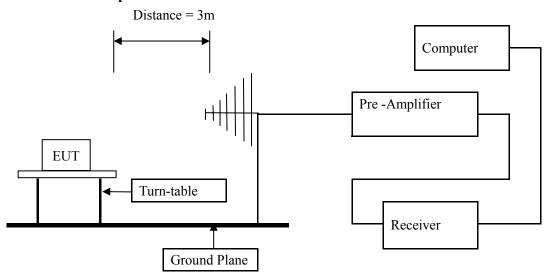


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) Set Spectrum as RBW=VBW=1MHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



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

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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7.6 Test Result

	t Kesuit	1						ı			
Pro	oduct:	Wireless Mouse			Test Mode:			Low Channel			
N.	1ode		Keeping	Transmitti	ng	Test	Test Voltage		DC 1.5V		
Temperature 24			24	deg. C		Hu	Humidity		56% RH		
Test Result:			F	Pass		De	Detector		PK		
220	2390MHz		PK (dBμV/m) 36.2			Limit		74(dBμV/m)			
239			AV(dBμV/m)				Lillit		54(dBμV/m)		
2.40	OM 411	PK (c	dBμV/m)	36.8		т.	T		74(dBμV/m)		
240	0MHz	AV(dBμV/m)					Limit		54(dBμV/m)		
() M		l.	Marker 2	2 [T1]		RBW	1 M				
∜ \$∕ R	ef Lvl			38.4	$3 \text{ dB}\mu\text{V}$	VBW	1 M	Hz			
	107 dB μ V		2	.390000	00 GHz	SWT	5 m	s U	nit	dB μ V	
107											
100											Α
90-											
0.0										1	
80-										X	
	1MAX										1MA
70 –											
60											
50-											
40	san nilata -		undun	Non-linus	mahalan_m.ah	ر مام العالم العرب المراد الم	الممالمين مأري	~MM-h~~	2	dial	
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Note: 1. Field Strength in restrict band measured in conventional manner

2. Emission Level = Reading Level + Antenna Factor + Cable Loss- Pre-amplifier

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adopt any other remedies which may be appropriate.

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Product: Wireless Mouse Test Mode: High Channel										
							DC 1.5V			
Mode	Keeping Transmitting 24 deg. C			+	Test Voltage Humidity		56% RH			
Temperature				_						
Test Result:		Pass			Det		PK			
2483.5MHz		PK (dBμV/m)		36.8		Limit		74(dBμV/m)		
	AV(c	lBμV/m)						54(dBμV/m)		
Ref Lvl		Marker	39.3	33 dBμV	RBW VBW	1 M 1 M	Hz	FAtt	10 dB dB <i>μ</i> V	
107 dBμ\ 107	/	2	.483500	100 GHz	SWT	5 m	s U	Unit		
101										Α
100										
90										
80 1										
1MAX										1MA
70										
50										
40		2								
40		40000		(r/			~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	The short of the state of the s		
30										
20										
10										
Start 2.478 GHz 2.200001 MHz/ Stop 2.50000001 GHz										
Date: 20.0CT.2010 10:36:36										

Note: 1. Field Strength in restrict band measured in conventional manner

2. Emission Level = Reading Level + Antenna Factor + Cable Loss- Pre-amplifier

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8.0 Antenna Requirement

Applicable Standard

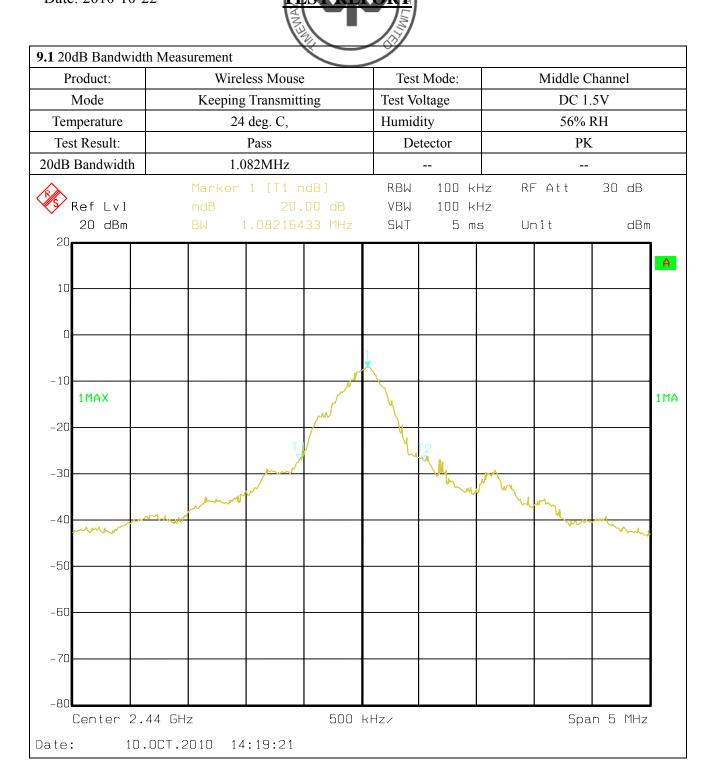
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

A PCB printed antenna is used in the wireless mouse, and the maximum Gain of the antenna is 1.5dBi. Test Result: Pass

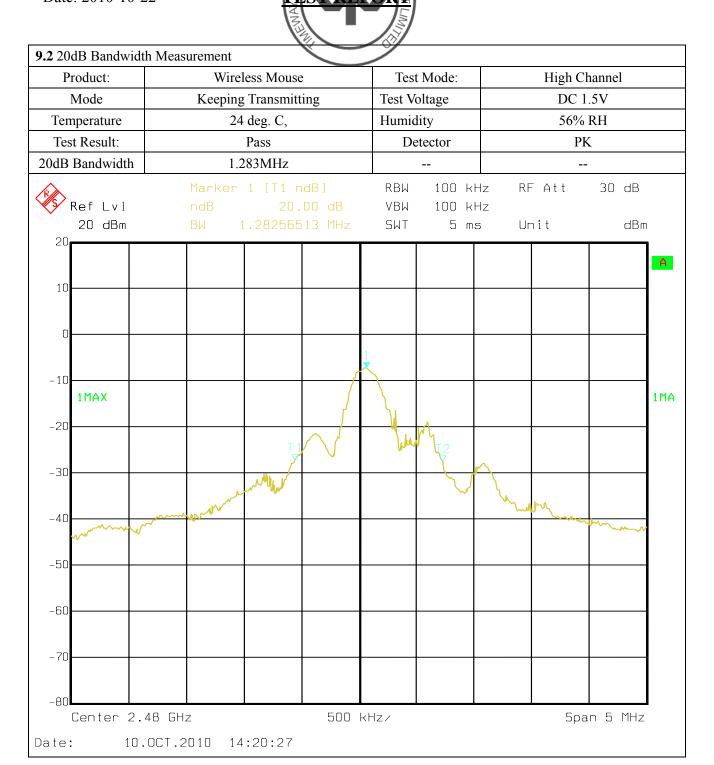
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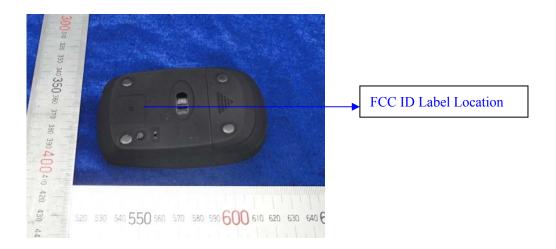
10.0 FCC ID Label

FCC ID: YVYHYXHM8099

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.

Mark Location:



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11.0 **Photo of testing**

11.1 Conducted test View-

N/A

11.2 Radiated emission test view



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11.3 Photo for the EUT



The report refers only to the sample tested and does not apply to the bulk.

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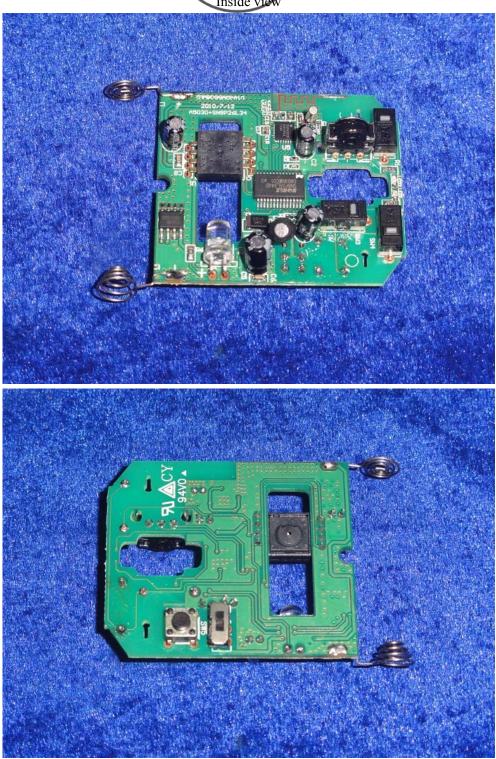
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