APPLICATION CERTIFICATION FCC Part 15C On Behalf of Eastern Times Technology Co., Ltd.

Bluetooth Laser Mouse Model No.: DS-2292(2292-B)

FCC ID: TUV2292

Prepared for : Eastern Times Technology Co., Ltd.

Address : Building 5, Penghua Industry Park, Heping Rd.(W),

Longhua, Shenzhen, Guangdong, China

Prepared by : ACCURATE TECHNOLOGY CO. LTD

Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan, Shenzhen, Guangdong

P.R. China

Tel: (0755) 26503290

Fax: (0755) 26503396

Report Number : ATE20090070
Date of Test : May 13, 2009
Date of Report : May 14, 2009

TABLE OF CONTENTS

Descr	ription	Page
Test F	Report Certification	
	ENERAL INFORMATION	5
1. G	Description of Device (EUT)	
1.1.	Description of Test Facility	
1.3.	Measurement Uncertainty	
	IEASURING DEVICE AND TEST EQUIPMENT	
	PERATION OF EUT DURING TESTING	
3.1.	Operating Mode	8
3.2.	Configuration and peripherals	
4. T	EST PROCEDURES AND RESULTS	9
5. 20	ODB BANDWIDTH TEST	10
5.1.	Block Diagram of Test Setup.	
5.2.	The Requirement For Section 15.247(a)(1)	
5.3.	EUT Configuration on Measurement	
5.4.	Operating Condition of EUT	
5.5.	Test Procedure	11
5.6.	Test Result	11
6. C	ARRIER FREQUENCY SEPARATION TEST	15
6.1.	Block Diagram of Test Setup	15
6.2.	The Requirement For Section 15.247(a)(1)	
6.3.	EUT Configuration on Measurement	15
6.4.	Operating Condition of EUT	
6.5.	Test Procedure	
6.6.	Test Result	
	UMBER OF HOPPING FREQUENCY TEST	
7.1.	Block Diagram of Test Setup	
7.2.	The Requirement For Section 15.247(a)(1)(iii)	
7.3.	EUT Configuration on Measurement	
7.4.	Operating Condition of EUT	
7.5. 7.6.	Test Procedure	
	WELL TIME TEST	
8.1.	Block Diagram of Test Setup.	
8.2.	The Requirement For Section 15.247(a)(1)(iii)	
8.3.	EUT Configuration on Measurement	
8.4.	Operating Condition of EUT	
8.5.	Test Procedure	
8.6.	Test Result	26
9. M	IAXIMUM PEAK OUTPUT POWER TEST	30
9.1.	Block Diagram of Test Setup	30
9.2.	The Requirement For Section 15.247(b)(1)	
9.3.	EUT Configuration on Measurement	
9.4.	Operating Condition of EUT	
9.5.	Test Procedure	31

9.6.	Test Result	31
10. BA	ND EDGE COMPLIANCE TEST	35
10.1.	Block Diagram of Test Setup	35
10.2.	The Requirement For Section 15.247(d)	35
10.3.	EUT Configuration on Measurement	35
10.4.	Operating Condition of EUT	36
10.5.	Test Procedure	
10.6.	Test Result	37
11. RA	DIATED SPURIOUS EMISSION TEST	42
11.1.	Block Diagram of Test Setup	42
11.2.	The Limit For Section 15.247(d)	
11.3.	Restricted bands of operation	43
11.4.	Configuration of EUT on Measurement	44
11.5.	Operating Condition of EUT	44
11.6.	Test Procedure	
11.7.	The Field Strength of Radiation Emission Measurement Results	45
12. AN	TENNA REQUIREMENT	66
12.1.	The Requirement	66
12.2.	Antenna Construction	

Test Report Certification

Applicant : Eastern Times Technology Co., Ltd.

Manufacturer : Eastern Times Technology Co., Ltd.

EUT Description : Bluetooth Laser Mouse

(A) MODEL NO.: DS-2292(2292-B)

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: 2.4V DC ("AAA" Ni-MH rechargeable batteries 2×)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247 ANSI C63.4: 2003

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test :	May 13, 2009	
Prepared by:	sky Long	
	(Engineer)	
Approved & Authorized Signer :	Searle	
	(Manager)	

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT : Bluetooth Laser Mouse

Model Number : DS-2292(2292-B)

Frequency Band : 2402MHz-2480MHz

Number of Channels : 79

Antenna Gain : 0dBi Max.

Power Supply : 2.4V DC ("AAA" Ni-MH rechargeable batteries $2\times$)

Applicant : Eastern Times Technology Co., Ltd.

Address : Building 5, Penghua Industry Park, Heping Rd.(W),

Longhua, Shenzhen, Guangdong, China

Manufacturer : Eastern Times Technology Co., Ltd.

Address : Building 5, Penghua Industry Park, Heping Rd.(W),

Longhua, Shenzhen, Guangdong, China

Date of sample received: May 10, 2009

Date of Test : May 13, 2009

1.2.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee

for Laboratories

The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan, Shenzhen, Guangdong

P.R. China

1.3. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2

(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2

(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Туре	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.28.2010
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	03.28.2010
Spectrum Analyzer	Agilent	E7405A	MY45115511	03.28.2010
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	03.30.2010
Loop Antenna	Schwarzbeck	FMZB1516	1516131	03.28.2010
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	03.28.2010
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	12.19.2009
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	10.09.2009
LISN	Rohde&Schwarz	ESH3-Z5	100305	03.28.2010
LISN	Schwarzbeck	NSLK8126	8126431	03.28.2010

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: Transmitting mode

Low Channel: 2402MHz Middle Channel: 2441MHz High Channel: 2480MHz

Hopping

3.2. Configuration and peripherals

EUT

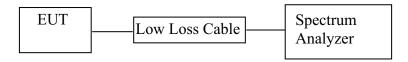
Figure 1 Setup: Transmitting mode

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(1)	20dB Bandwidth Test	Compliant
Section 15.247(a)(1)	Carrier Frequency Separation Test	Compliant
Section 15.247(a)(1)(iii)	Number Of Hopping Frequency Test	Compliant
Section 15.247(a)(1)(iii)	Dwell Time Test	Compliant
Section 15.247(b)(1)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 20DB BANDWIDTH TEST

5.1.Block Diagram of Test Setup



(EUT: Bluetooth Laser Mouse)

5.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.Bluetooth Laser Mouse (EUT)

Model Number : DS-2292(2292-B)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

- 5.4.1. Setup the EUT and simulator as shown as Section 5.1.
- 5.4.2. Turn on the power of all equipment.
- 5.4.3.Let the EUT work in TX(Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

5.5.Test Procedure

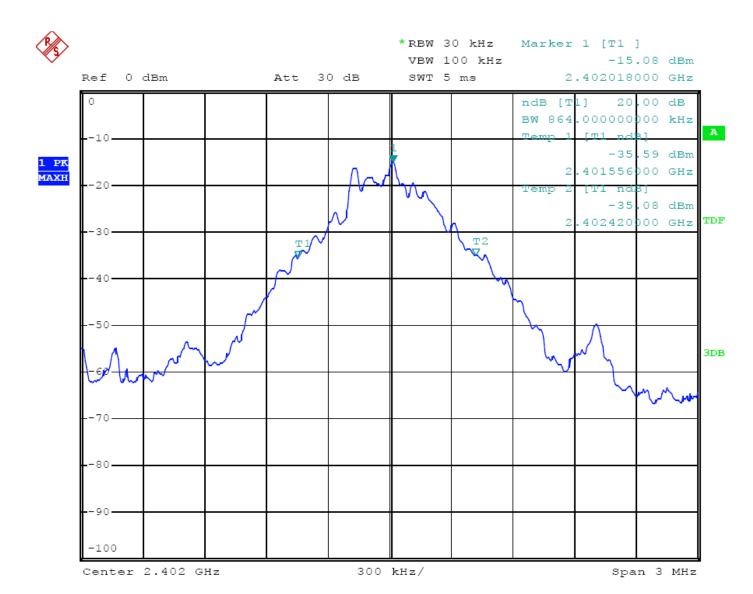
- 5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 5.5.2.Set RBW of spectrum analyzer to 30kHz and VBW to 100kHz.
- 5.5.3.The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

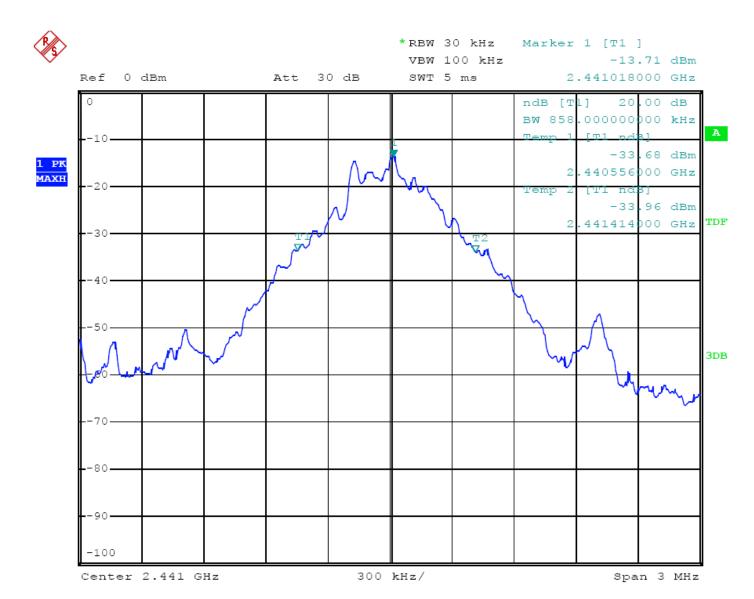
5.6.Test Result

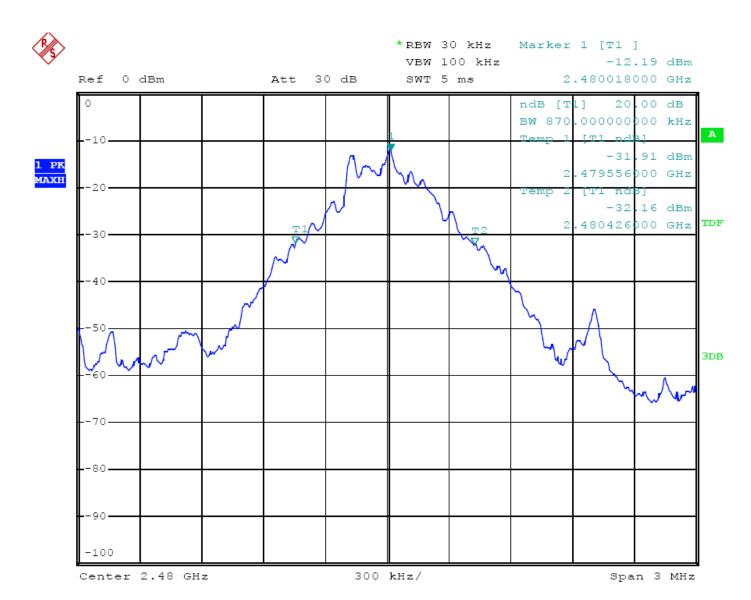
PASS.

Date of Test:May 13, 2009Temperature:25°CEUT:Bluetooth Laser MouseHumidity:52%Model No.:DS-2292(2292-B)Power Supply:DC 2.4VTest Mode:TXTest Engineer:Joe

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
Low	2402	0.864	
Middle	2441	0.858	
High	2480	0.870	

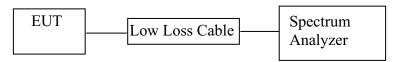






6. CARRIER FREQUENCY SEPARATION TEST

6.1.Block Diagram of Test Setup



(EUT: Bluetooth Laser Mouse)

6.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

6.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1.Bluetooth Laser Mouse (EUT)

Model Number : DS-2292(2292-B)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

- 6.4.1. Setup the EUT and simulator as shown as Section 6.1.
- 6.4.2. Turn on the power of all equipment.
- 6.4.3.Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

6.5. Test Procedure

- 6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 6.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz. Adjust Span to 3 MHz.
- 6.5.3. Set the adjacent channel of the EUT maxhold another trace.
- 6.5.4. Measurement the channel separation

6.6.Test Result

PASS.

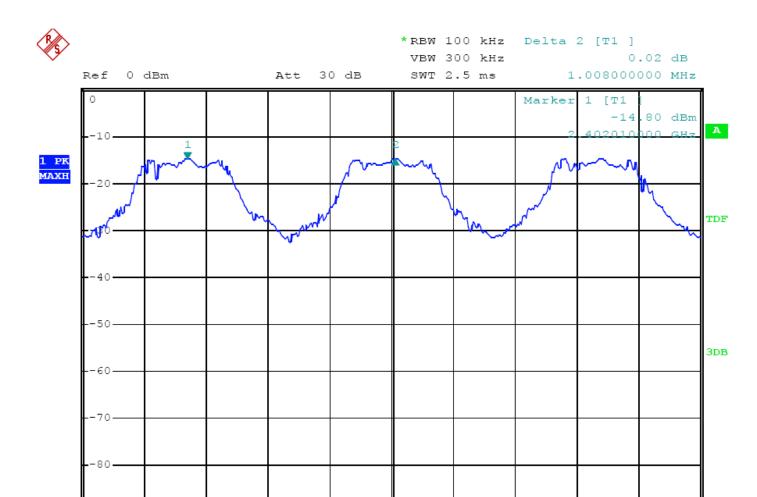
Date of Test: May 13, 2009 Temperature: 25°C

EUT: Bluetooth Laser Mouse Humidity: 52%

Model No.: DS-2292(2292-B) Power Supply: DC 2.4V

Test Mode: Hopping Test Engineer: Joe

	Channel Frequency	Channel separation		
Channel			Limit	
	(MHz)	(MHz)		
Low	2402	1.008	> the 20dB Bandwidth or 25kHz	
Low	2402	1.008	(whichever is greater)	
Middle	2441	1.002	> the 20dB Bandwidth or 25kHz	
Milate	2 44 1	1.002	(whichever is greater)	
High	2490	1.002	> the 20dB Bandwidth or 25kHz (whichever is greater) > the 20dB Bandwidth or 25kHz	
High	2480	1.002	(whichever is greater)	

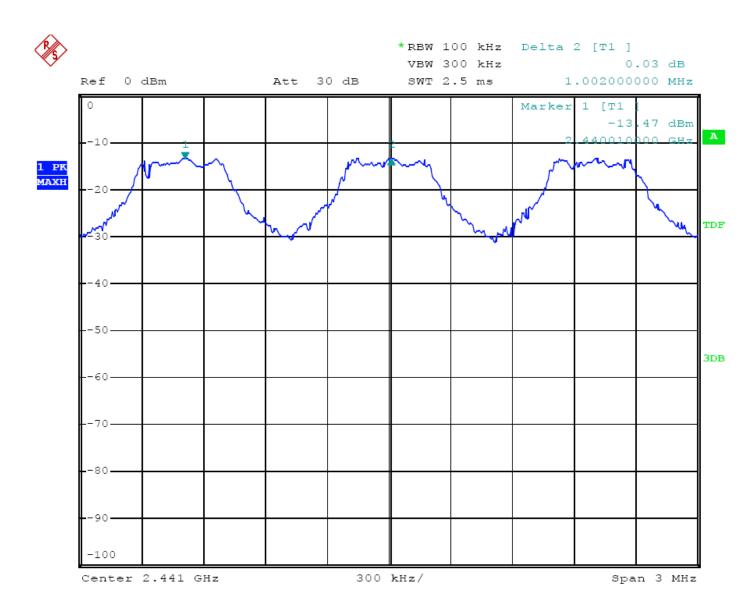


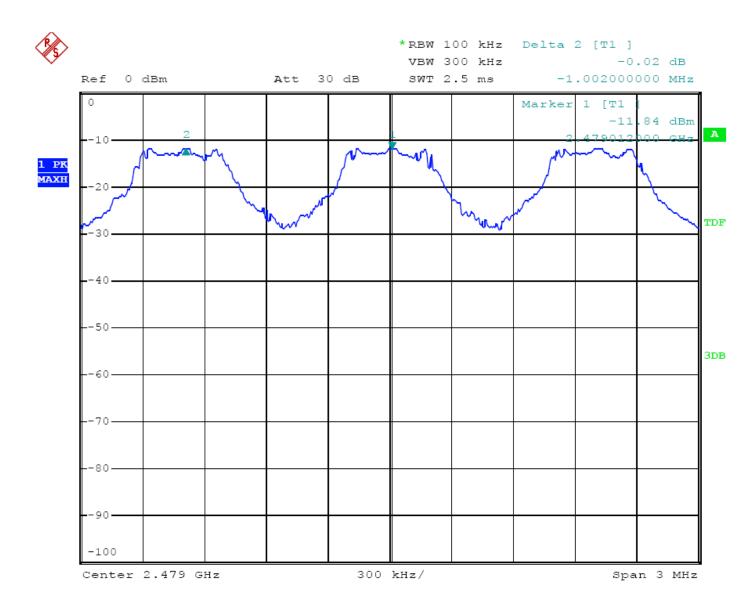
300 kHz/

-100

Center 2.403 GHz

Span 3 MHz





7. NUMBER OF HOPPING FREQUENCY TEST

7.1.Block Diagram of Test Setup



(EUT: Bluetooth Laser Mouse)

7.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

7.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1.Bluetooth Laser Mouse (EUT)

Model Number : DS-2292(2292-B)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

- 7.4.1. Setup the EUT and simulator as shown as Section 7.1.
- 7.4.2. Turn on the power of all equipment.
- 7.4.3.Let the EUT work in TX (Hopping on) modes measure it.

7.5.Test Procedure

- 7.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 7.5.2.Set the spectrum analyzer as Span=30MHz, RBW=300kHz, VBW=300kHz.
- 7.5.3.Max hold, view and count how many channel in the band.

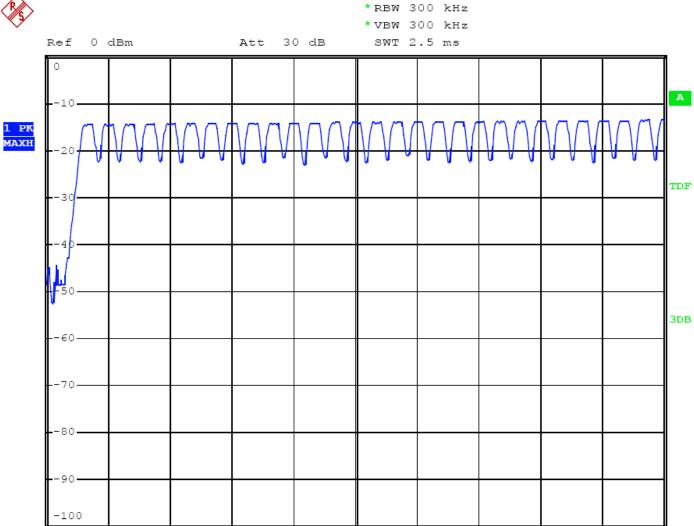
7.6.Test Result

PASS.

Date of Test:May 13, 2009Temperature:25°CEUT:Bluetooth Laser MouseHumidity:52%Model No.:DS-2292(2292-B)Power Supply:DC 2.4VTest Mode:HoppingTest Engineer:Joe

Total number of	Measurement result (CH)	Limit (CH)
hopping channel	79	>15





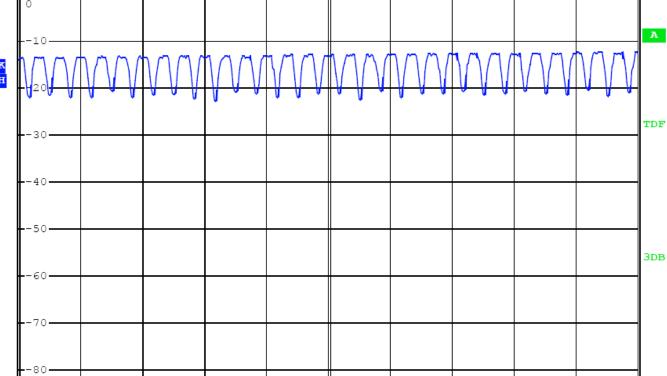
3 MHz/

Start 2.4 GHz

Stop 2.43 GHz



*RBW 300 kHz
*VBW 300 kHz
Ref 0 dBm Att 30 dB SWT 2.5 ms



Start 2.43 GHz

-100

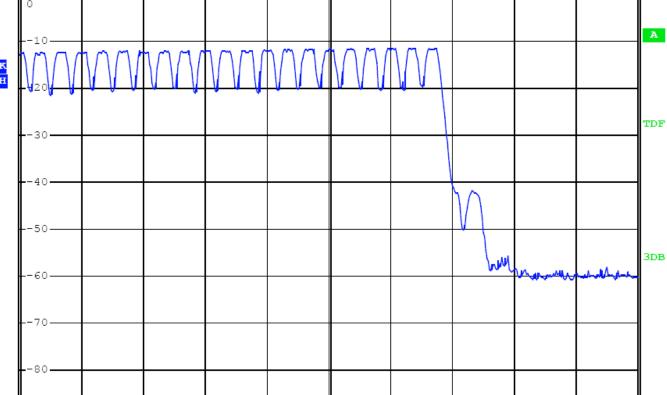
3 MHz/

Stop 2.46 GHz



Ref

* RBW 300 kHz
* VBW 300 kHz
0 dBm Att 30 dB SWT 2.5 ms



-100

8. DWELL TIME TEST

8.1.Block Diagram of Test Setup



(EUT: Bluetooth Laser Mouse)

8.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

8.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.3.1.Bluetooth Laser Mouse (EUT)

Model Number : DS-2292(2292-B)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

- 8.4.1. Setup the EUT and simulator as shown as Section 8.1.
- 8.4.2. Turn on the power of all equipment.
- 8.4.3.Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

8.5.Test Procedure

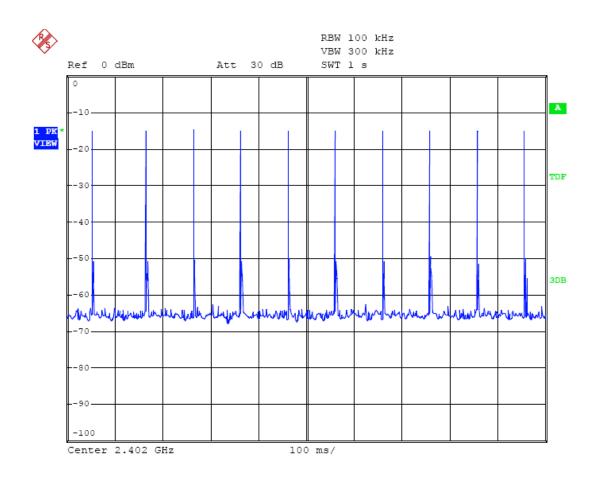
- 8.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 8.5.2.Set center frequency of spectrum analyzer = operating frequency.
- 8.5.3.Set the spectrum analyzer as RBW=100kHz, VBW=300kHz, Span=0Hz, Adjust Sweep=1s. Get the burst (in 1 sec.).
- 8.5.4.Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span=0Hz, Adjust Sweep=2ms. Get the pulse time.
- 8.5.5.Repeat above procedures until all frequency measured were complete.

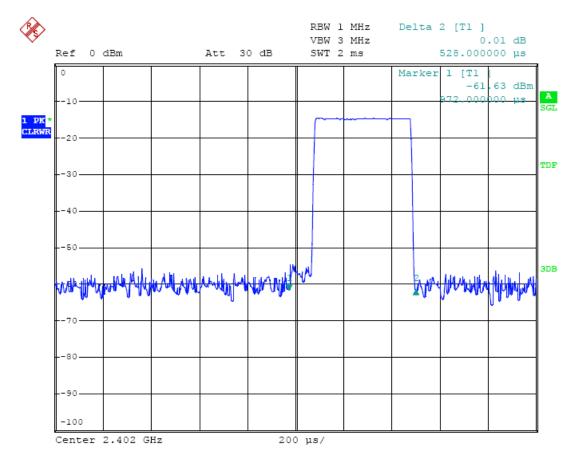
8.6.Test Result

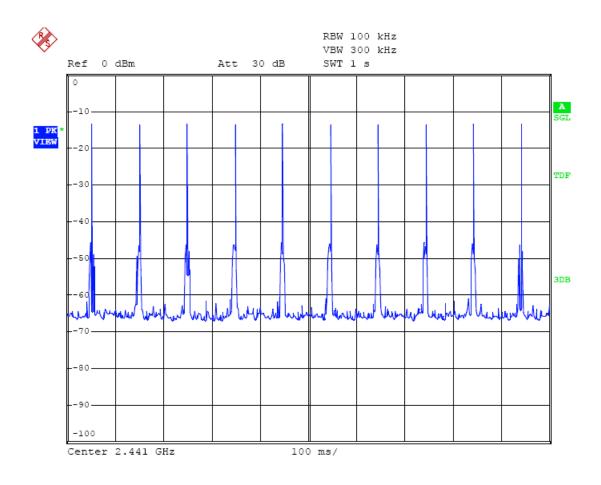
PASS.

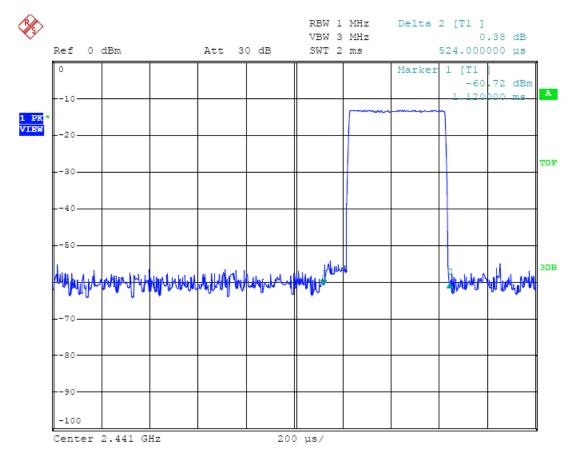
Date of Test:May 13, 2009Temperature:25°CEUT:Bluetooth Laser MouseHumidity:52%Model No.:DS-2292(2292-B)Power Supply:DC 2.4VTest Mode:HoppingTest Engineer:Joe

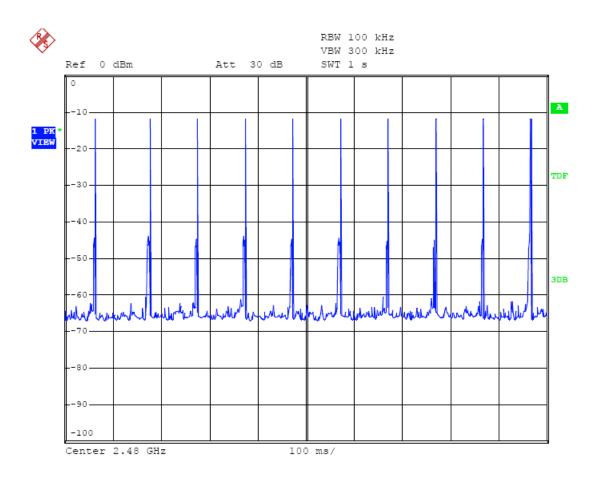
A period transmit time = $0.4 \times 79 = 31.6$						
Dwell time = p	oulse time × burst (in 1 so	ec.)×31.6				
Channel	Channel Frequency	Pulse Time	Burst	Dwell Time	Limit	
	(MHz)	(ms)	(in 1 sec.)	(ms)	(ms)	
Low	2402	0.528	10	166.85	400	
Middle	2441	0.524	10	165.58	400	
High	2480	0.524	10	165.58	400	

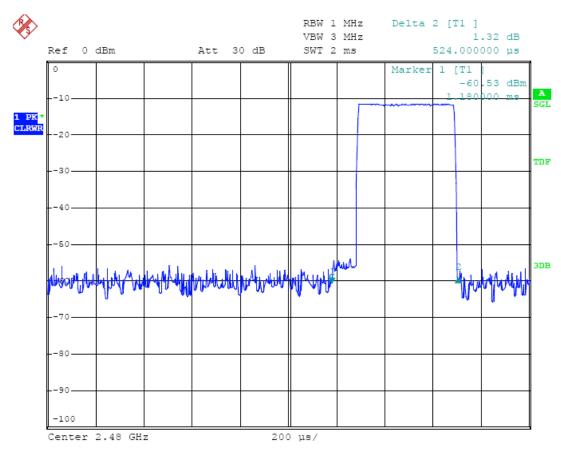












9. MAXIMUM PEAK OUTPUT POWER TEST

9.1.Block Diagram of Test Setup



(EUT: Bluetooth Laser Mouse)

9.2. The Requirement For Section 15.247(b)(1)

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

9.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.3.1.Bluetooth Laser Mouse (EUT)

Model Number : DS-2292(2292-B)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

- 9.4.1. Setup the EUT and simulator as shown as Section 9.1.
- 9.4.2. Turn on the power of all equipment.
- 9.4.3.Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

9.5.Test Procedure

- 9.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 9.5.2.Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.
- 9.5.3. Measurement the maximum peak output power.

9.6.Test Result

PASS.

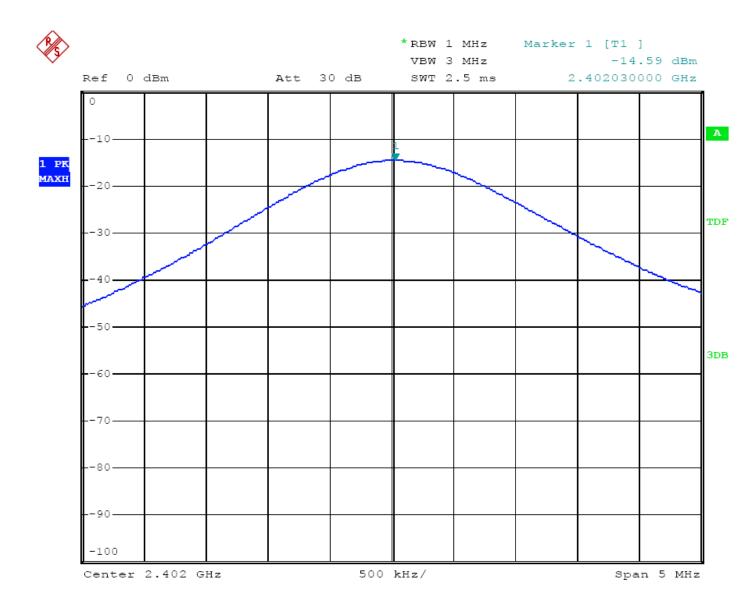
Date of Test: May 13, 2009 Temperature: 25°C

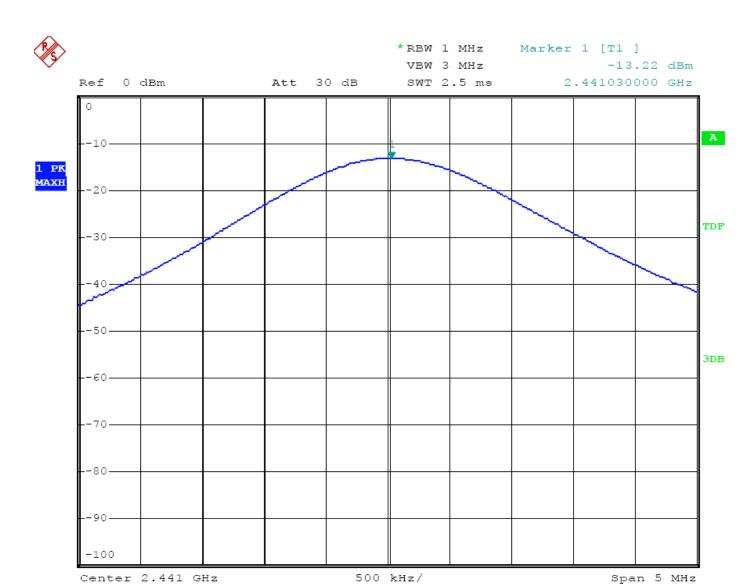
EUT: Bluetooth Laser Mouse Humidity: 52%

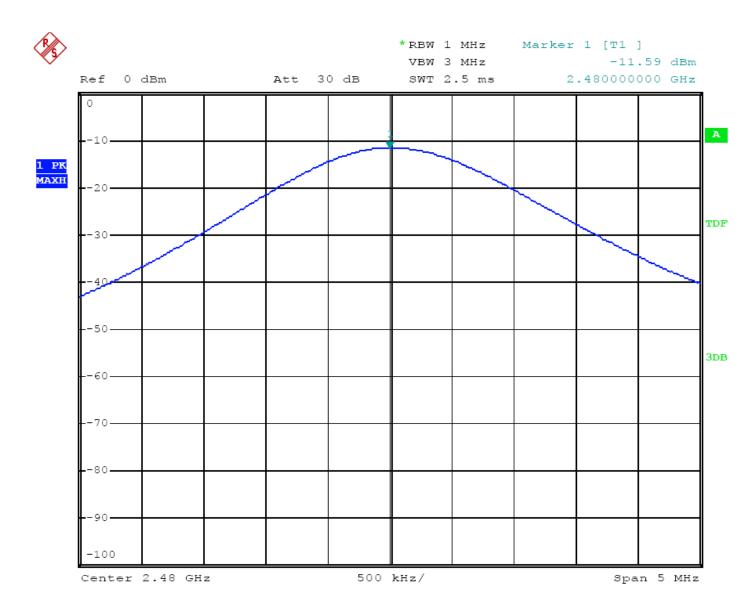
Model No.: DS-2292(2292-B) Power Supply: DC 2.4V

Test Mode: TX Test Engineer: Joe

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2402	-14.59	0.035	30 dBm / 1 W
Middle	2441	-13.22	0.048	30 dBm / 1 W
High	2480	-11.59	0.069	30 dBm / 1 W







10.BAND EDGE COMPLIANCE TEST

10.1.Block Diagram of Test Setup



(EUT: Bluetooth Laser Mouse)

10.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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).

10.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.3.1.Bluetooth Laser Mouse (EUT)

Model Number : DS-2292(2292-B)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

10.4. Operating Condition of EUT

- 10.4.1. Setup the EUT and simulator as shown as Section 10.1.
- 10.4.2. Turn on the power of all equipment.
- 10.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

10.5.Test Procedure

- 10.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 10.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.
- 10.5.3. The band edges was measured and recorded.

10.6.Test Result

Pass

Date of Test: May 13, 2009

EUT: Bluetooth Laser Mouse

Model No.: DS-2292(2292-B)

Test Mode: TX (Hopping off)

Temperature: 25°C

Humidity: 52%

Power Supply: DC 2.4V

Test Engineer: Joe

Conducted test

Frequency	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
(MHz)	, , ,	, , ,
2402	35.99	> 20dBc
2480	45.86	> 20dBc

Date of Test: May 13, 2009

EUT: Bluetooth Laser Mouse

Model No.: DS-2292(2292-B)

Test Mode: TX (Hopping on)

Test Engineer: DS-2292

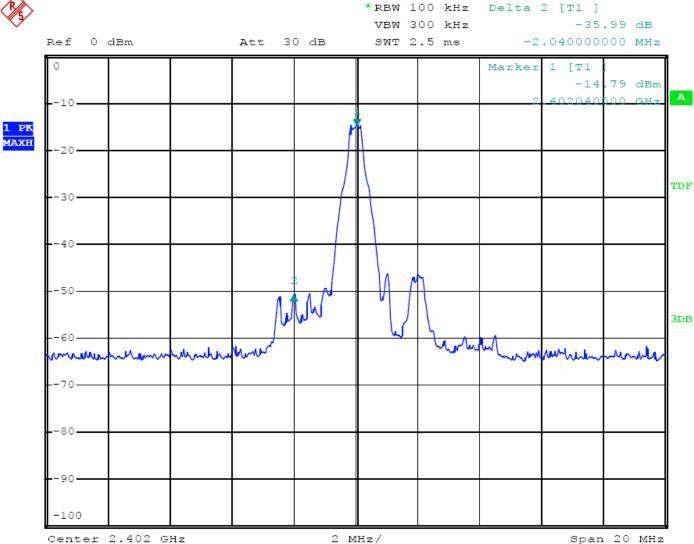
Test Mode: TX (Hopping on)

Test Engineer: Joe

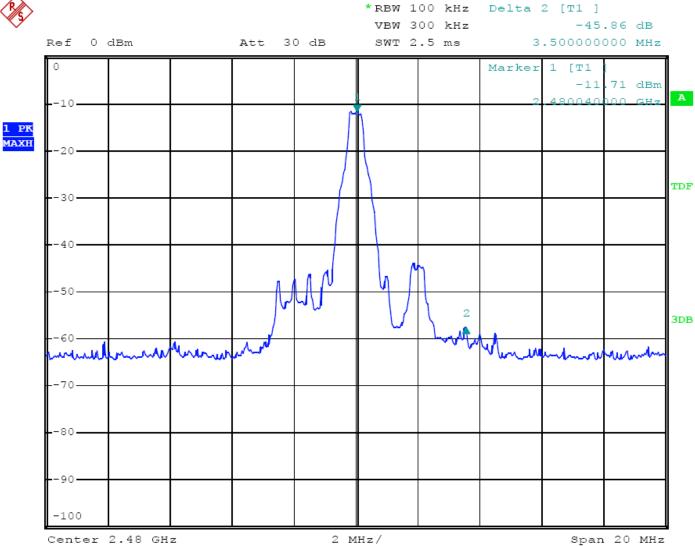
Conducted test

Frequency	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
(MHz)	, , ,	` ,
2402	39.19	> 20dBc
2480	48.06	> 20dBc

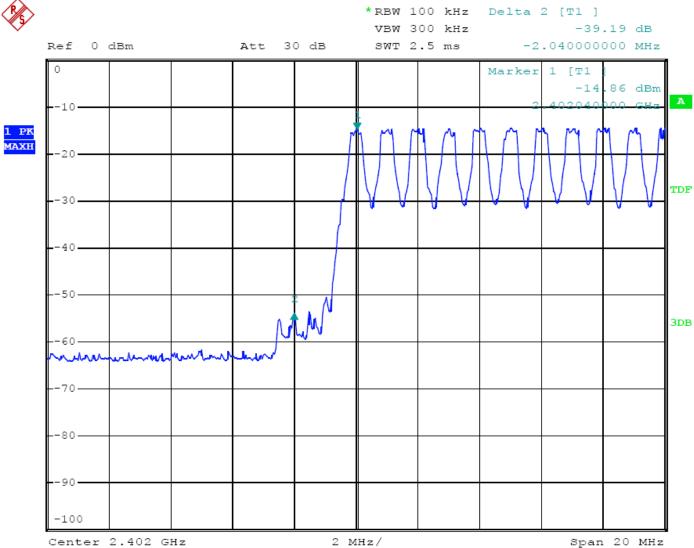


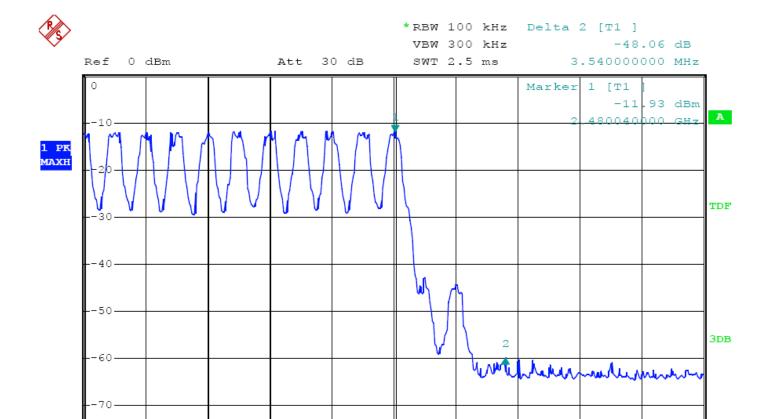












2 MHz/

-100

Center 2.48 GHz

Span 20 MHz

11. RADIATED SPURIOUS EMISSION TEST

11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators

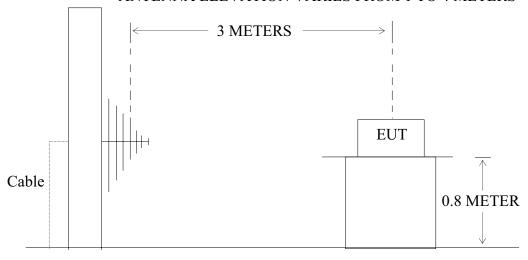
EUT

Setup: Transmitting mode

(EUT: Bluetooth Laser Mouse)

11.1.2.Semi-Anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



GROUND PLANE

(EUT: Bluetooth Laser Mouse)

11.2. The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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).

11.3.Restricted bands of operation

11.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

perii	itted in any of the freque	ncy bands listed below.	
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	$\binom{2}{}$
13.36-13.41			

Until February 1, 1999, this restricted band shall be 0.490-0.510

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

²Above 38.6

11.4. Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.4.1.Bluetooth Laser Mouse (EUT)

Model Number : DS-2292(2292-B)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

11.5. Operating Condition of EUT

- 11.5.1. Setup the EUT and simulator as shown as Section 11.1.
- 11.5.2. Turn on the power of all equipment.
- 11.5.3.Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

11.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver (R&S ESI26) is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss - Amplifier Gain

11.7.The Field Strength of Radiation Emission Measurement Results **PASS.**

Date of Test:May 13, 2009Temperature:25°CEUT:Bluetooth Laser MouseHumidity:52%Model No.:DS-2292(2292-B)Power Supply:DC 2.4VTest Mode:TX (2402MHz)Test Engineer:Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency	Reading	Factor	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP	(dB)	QP	QP	QP	
51.4960	18.07	14.40	32.47	40.00	-7.53	Vertical
96.6484	19.11	13.89	33.00	43.50	-10.50	Vertical
145.2760	21.43	14.48	35.91	43.50	-7.59	Vertical
145.2760	17.01	14.48	31.49	43.50	-12.01	Horizontal
431.7932	13.08	22.96	36.04	46.00	-9.96	Horizontal
499.2379	11.48	23.99	35.47	46.00	-10.53	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

	2011 Celear Lactor Time mila Lactor Caole 2000 Timpiner Cain									
Frequency	Reading(Reading(dBµV/m) Fac		Factor Result(dB\(\mu\)V/m)		Limit(dBµV/m)		Margin(dBμV/m)	Polarizati
(MHz)	AV	PEAK	Corr. (dB)	AV	PEAK	AV	PEAK	AV	PEAK	on
2400.000	50.21	53.59	-7.46	42.75	46.13	54	74	-11.25	-27.87	Vertical
2402.030	86.21	89.69	-7.45	78.76	82.24	-	-	-	-	Vertical
*4804.044	50.42	54.84	-0.30	50.12	54.54	54	74	-3.88	-19.46	Vertical
2400.000	46.61	49.92	-7.46	39.15	42.46	54	74	-14.85	-31.54	Horizontal
2402.030	82.33	85.68	-7.45	74.88	78.23	-	_	-	-	Horizontal
*4804.044	49.17	53.46	-0.30	48.87	53.16	54	74	-5.13	-20.84	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

Date of Test:May 13, 2009Temperature:25°CEUT:Bluetooth Laser MouseHumidity:52%Model No.:DS-2292(2292-B)Power Supply:DC 2.4VTest Mode:TX (2441MHz)Test Engineer:Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

`	corrected ractor	7 tiiteiiiia 1	actor - Cabic	Loss miph			
	Frequency	Reading Factor		Result	Limit	Margin	Polarization
	(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
		QP (dB)		QP	QP	QP	
	43.2305	14.48	16.83	31.31	40.00	-8.69	Vertical
	96.6484	18.96	13.89	32.85	43.50	-10.65	Vertical
	145.2760	22.67	14.48	37.15	43.50	-6.35	Vertical
	145.2760	18.85	14.48	33.33	43.50	-10.17	Horizontal
	431.7933	13.74 22.96		36.70	46.00	-9.30	Horizontal
	499.2379	11.62	23.99	35.61	46.00	-10.39	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency	Reading(dBμV/m)	Factor	Result(c	Result(dBµV/m)		Limit(dBµV/m)		Margin(dBµV/m)	
(MHz)	AV	PEAK	Corr. (dB)	AV	PEAK	AV	PEAK	AV	PEAK	on
2.441.030	82.75	86.22	-7.35	75.40	78.87	-	-	-	-	Vertical
*4882.047	49.96	54.42	0.14	50.10	54.56	54	74	-3.90	-19.44	Vertical
2.441.030	82.94	86.20	-7.35	75.59	78.85	-	-	-	-	Horizontal
*4882.047	48.51	53.19	0.14	48.65	53.33	54	74	-5.35	-20.67	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

Date of Test:May 13, 2009Temperature:25°CEUT:Bluetooth Laser MouseHumidity:52%Model No.:DS-2292(2292-B)Power Supply:DC 2.4VTest Mode:TX (2480MHz)Test Engineer:Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

	ı			III Guiii		
Frequency	Reading	Factor	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP	(dB)	QP	QP	QP	
96.1485	19.33	13.88	33.21	43.50	-10.29	Vertical
145.2760	20.13	14.48	34.61	43.50	-8.89	Vertical
151.9955	18.56	14.54	33.10	43.50	-10.40	Vertical
155.7427	17.38	14.57	31.95	43.50	-11.55	Horizontal
158.9289	17.64	14.59	32.23	43.50	-11.27	Horizontal
431.7932	14.45	22.96	37.41	46.00	-8.59	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency	Reading(dBμV/m)	Factor	Result(c	lBμV/m)	Limit(dBµV/m)		Margin(dBμV/m)	Polarizati
(MHz)	AV	PEAK	Corr. (dB)	AV	PEAK	AV	PEAK	AV	PEAK	on
2.480.000	85.38	88.53	-7.37	78.01	81.16	-	-	-	-	Vertical
2483.500	40.11	43.37	-7.37	32.74	36.00	54	74	-21.26	-38.00	Vertical
*4960.001	49.17	53.46	0.52	49.69	53.98	54	74	-4.31	-20.02	Vertical
2.480.000	83.34	86.49	-7.37	75.97	79.12	-	-	-	-	Horizontal
2483.500	38.31	41.57	-7.37	30.94	34.20	54	74	-23.06	-39.80	Horizontal
*4960.001	48.41	52.83	0.52	48.93	53.35	54	74	-5.07	-20.65	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ET #105

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

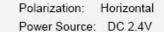
Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Bluetooth Laser Mouse
Mode: Bluetooth TX 2402MHz

Model: DS-2292(2292-B)

Manufacturer: Eastern Times Technology Co., Ltd.

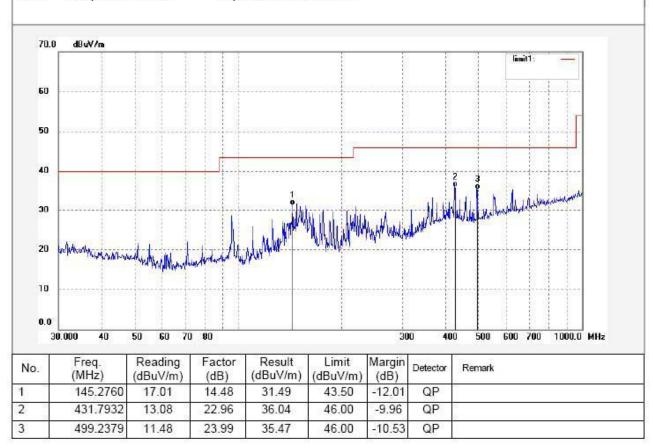
Note: Sample No.:090072 Report No.:ATE20090070



Date: 2009/05/13 Time: 13:55:59

Engineer Signature: Joe

Distance: 3m





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ET #106

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2402MHz Model: DS-2292(2292-B)

Manufacturer: Eastern Times Technology Co., Ltd.

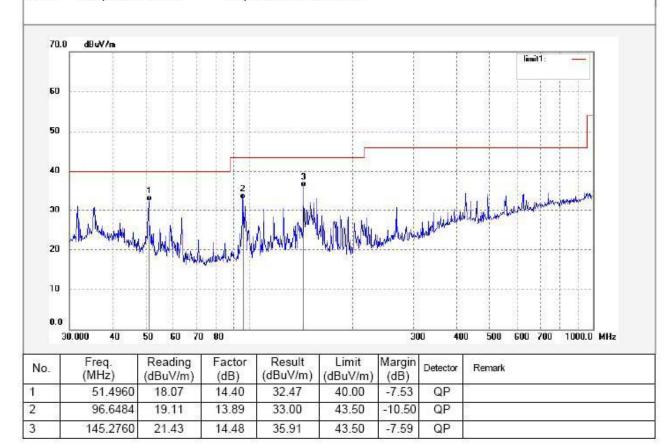
Note: Sample No.:090072 Report No.:ATE20090070

Polarization: Vertical Power Source: DC 2.4V

Date: 2009/05/13 Time: 13:57:38

Engineer Signature: Joe

Distance: 3m





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

18000.0 MHz

Job No.: ET #135

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 % EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2402MHz Model: DS-2292(2292-B)

Manufacturer: Eastern Times Technology Co., Ltd.

Note: Sample No.:090072 Report No.:ATE20090070

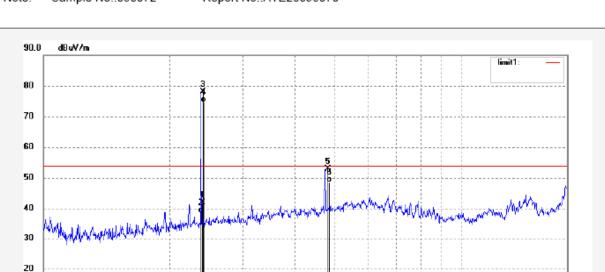
Polarization: Horizontal Power Source: DC 2.4V

Date: 2009/05/13 Time: 16:42:41

Distance: 3m

6000 7000 8000 9000

Engineer Signature: Joe



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	49.92	-7.46	42.46	74.00	-31.54	peak	
2	2400.000	46.61	-7.46	39.15	54.00	-14.85	AVG	
3	2402.030	85.68	-7.45	78.23	-	-	peak	
4	2402.030	82.33	-7.45	74.88	-	-	AVG	
5	4804.044	53.46	-0.30	53.16	74.00	-20.84	peak	
6	4804.044	49.17	-0.30	48.87	54.00	-5.13	AVG	

3000

2000

10 0.0

1000.000



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

18000.0 MHz

Job No.: ET #136

30

20

10 0.0

1000.000

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 % EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2402MHz Model: DS-2292(2292-B)

Manufacturer: Eastern Times Technology Co., Ltd.

Note: Sample No.:090072 Report No.:ATE20090070

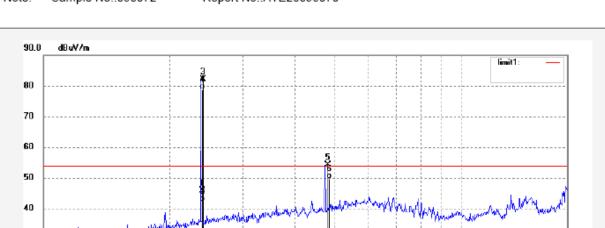
Polarization: Vertical Power Source: DC 2.4V

Date: 2009/05/13 Time: 16:53:38

Distance: 3m

6000 7000 8000 9000

Engineer Signature: Joe



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	53.59	-7.46	46.13	74.00	-27.87	peak	
2	2400.000	50.21	-7.46	42.75	54.00	-11.25	AVG	
3	2402.030	89.69	-7.45	82.24	-	-	peak	
4	2402.030	86.21	-7.45	78.76	-	-	AVG	
5	4804.044	54.84	-0.30	54.54	74.00	-19.46	peak	
6	4804.044	50.42	-0.30	50.12	54.00	-3.88	AVG	

3000

2000



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Polarization:

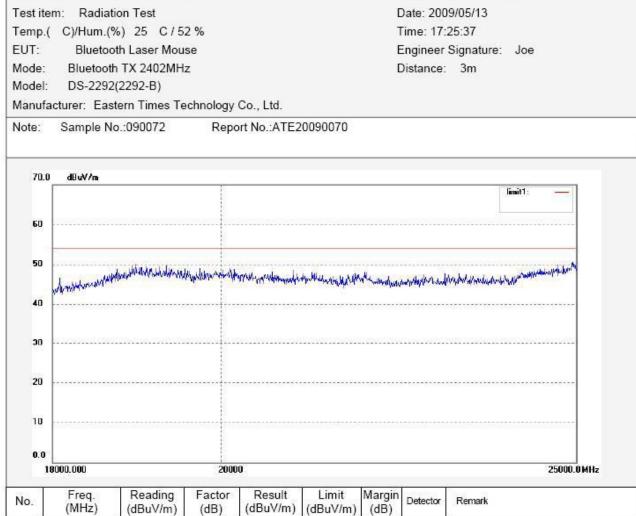
Power Source: DC 2.4V

Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Horizontal

Job No.: ET #142

Standard: FCC Class B 3M Radiated





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Polarization: Vertical

Power Source: DC 2.4V

Job No.: ET #141

Standard: FCC Class B 3M Radiated

Test item: Radiation Test





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ET #108

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

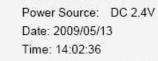
Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2441MHz Model: DS-2292(2292-B)

Manufacturer: Eastern Times Technology Co., Ltd.

Note: Sample No.:090072 Report No.:ATE20090070

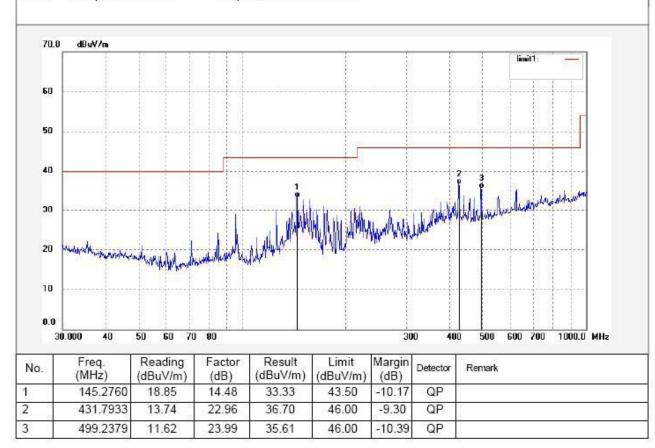


Engineer Signature: Joe

Horizontal

Distance: 3m

Polarization:





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ET #107

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2441MHz Model: DS-2292(2292-B)

Manufacturer: Eastern Times Technology Co., Ltd.

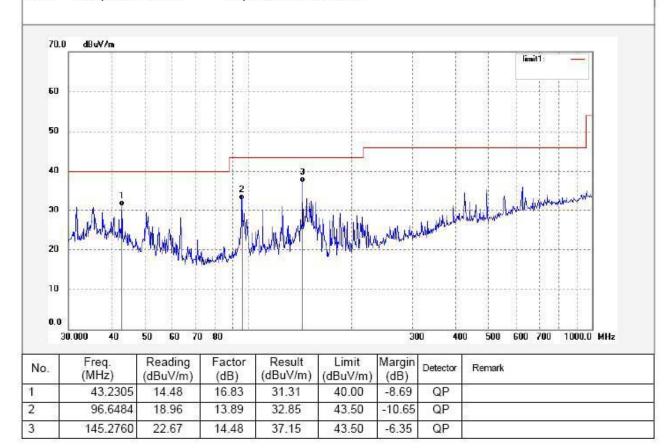
Note: Sample No.:090072 Report No.:ATE20090070

Polarization: Vertical Power Source: DC 2.4V

Date: 2009/05/13 Time: 14:00:44

Engineer Signature: Joe

Distance: 3m





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ET #138

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

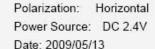
Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2441MHz Model: DS-2292(2292-B)

Manufacturer: Eastern Times Technology Co., Ltd.

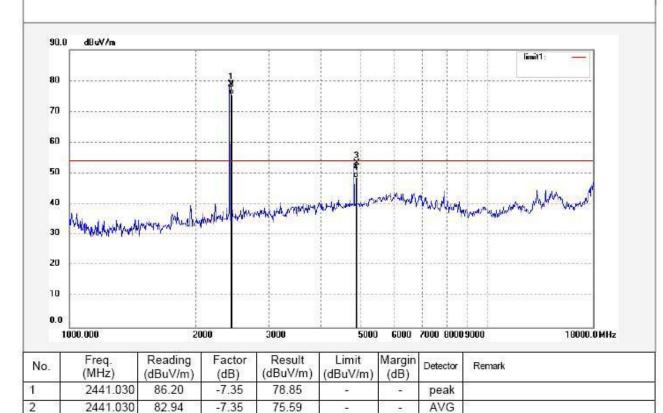
Note: Sample No.:090072 Report No.:ATE20090070



Date: 2009/05/13 Time: 17:11:41

Engineer Signature: Joe

Distance: 3m



74.00

54.00

-20.67

-5.35

peak

AVG

3

4

4882.047

4882.047

53.19

48.51

0.14

0.14

53.33

48.65



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ET #137

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2441MHz Model: DS-2292(2292-B)

2441.030

2441.030

4882.047

4882.047

86.22

82.75

54.42

49.96

-7.35

-7.35

0.14

0.14

78.87

75.40

54.56

50.10

-

74.00

54.00

Manufacturer: Eastern Times Technology Co., Ltd.

Note: Sample No.:090072 Report No.:ATE20090070

Polarization: Vertical Power Source: DC 2.4V

Date: 2009/05/13 Time: 17:03:53

Engineer Signature: Joe

Distance: 3m

peak

AVG

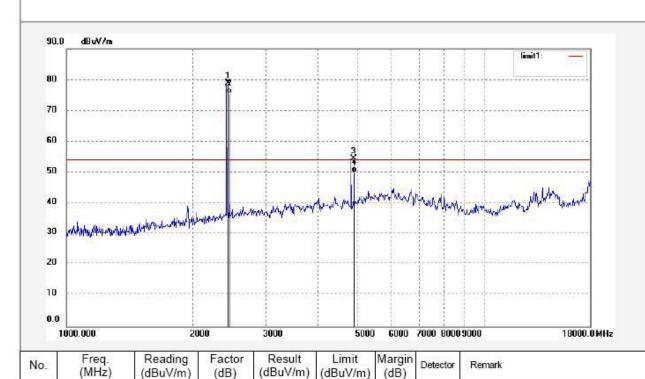
peak

AVG

4

-19.44

-3.90



2

3

4



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Polarization:

Date: 2009/05/13

Time: 17:30:16

Power Source: DC 2.4V

Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

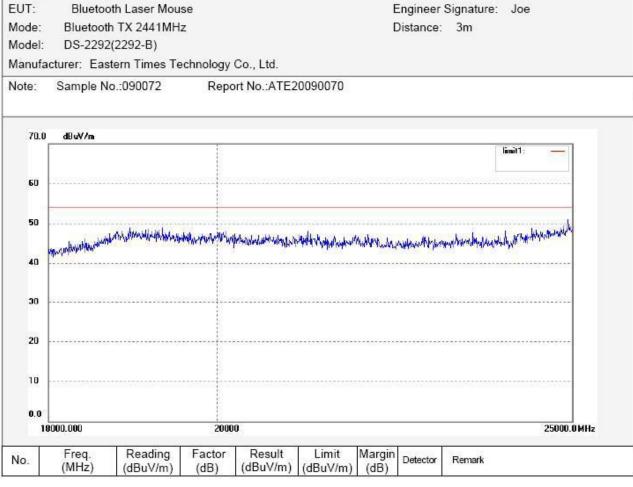
Horizontal

Job No.: ET #143

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Polarization: Vertical

Date: 2009/05/13

Time: 17:34:07

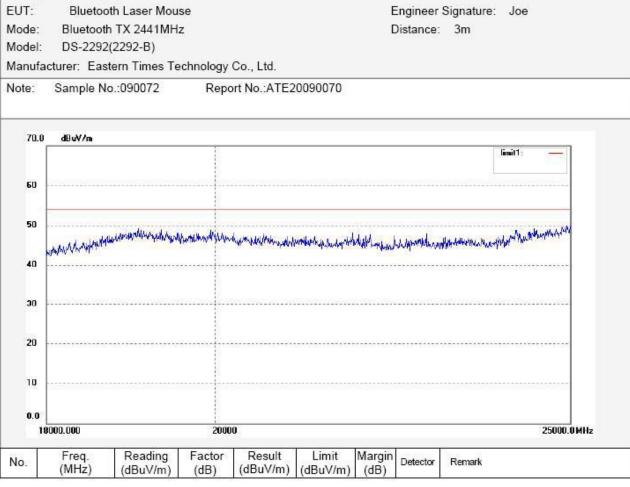
Power Source: DC 2.4V

Job No.: ET #144

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ET #109

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2480MHz Model: DS-2292(2292-B)

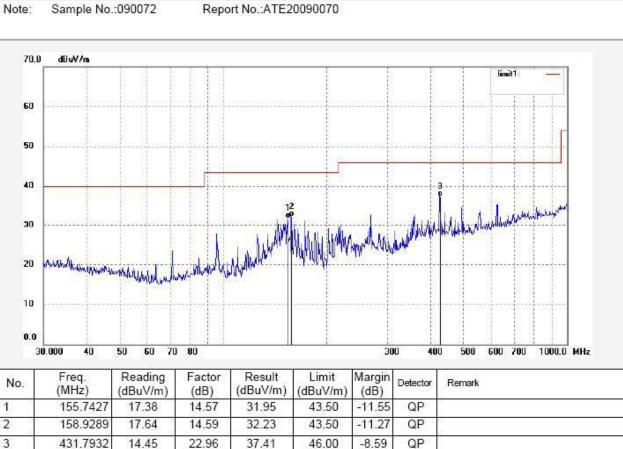
Manufacturer: Eastern Times Technology Co., Ltd.

Sample No.:090072 Note:



Horizontal

Polarization:





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ET #110

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2480MHz Model: DS-2292(2292-B)

Manufacturer: Eastern Times Technology Co., Ltd.

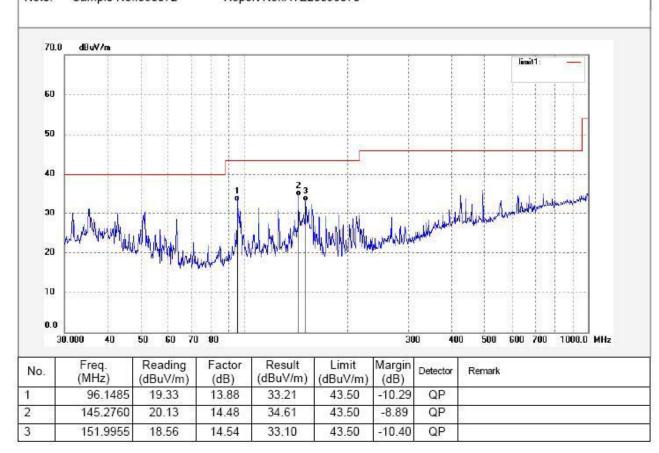
Note: Sample No.:090072 Report No.:ATE20090070

Polarization: Vertical Power Source: DC 2.4V Date: 2009/05/13

Date: 2009/05/13 Time: 14:07:30

Engineer Signature: Joe

Distance: 3m





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ET #139

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 % EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2480MHz Model: DS-2292(2292-B)

Manufacturer: Eastern Times Technology Co., Ltd.

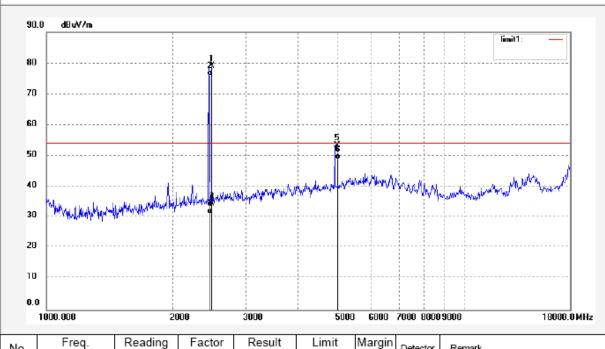
Note: Sample No.:090072 Report No.:ATE20090070

Polarization: Horizontal Power Source: DC 2.4V

Date: 2009/05/13 Time: 17:14:21

Engineer Signature: Joe

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Remark
1	2480.000	86.49	-7.37	79.12	-	-	peak	
2	2480.000	83.34	-7.37	75.97	-	-	AVG	
3	2483.500	41.57	-7.37	34.20	74.00	-39.80	peak	
4	2483.500	38.31	-7.37	30.94	54.00	-23.06	AVG	
5	4960.001	52.83	0.52	53.35	74.00	-20.65	peak	
6	4960.001	48.41	0.52	48.93	54.00	-5.07	AVG	



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ET #140

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 % EUT: Bluetooth Laser Mouse

Mode: Bluetooth TX 2480MHz Model: DS-2292(2292-B)

Manufacturer: Eastern Times Technology Co., Ltd.

Note: Sample No.:090072 Report No.:ATE20090070

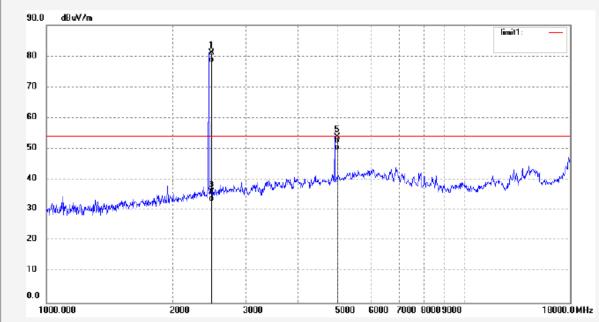
Polarization: Vertical Power Source: DC 2.4V

Date: 2009/05/13 Time: 17:16:36

Distance: 3m

Engineer Signature: Joe





No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2480.000	88.53	-7.37	81.16	-	-	peak	
2	2480.000	85.38	-7.37	78.01	-	-	AVG	
3	2483.500	43.37	-7.37	36.00	74.00	-38.00	peak	
4	2483.500	40.11	-7.37	32.74	54.00	-21.26	AVG	
5	4960.001	53.46	0.52	53.98	74.00	-20.02	peak	
6	4960.001	49.17	0.52	49.69	54.00	-4.31	AVG	



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

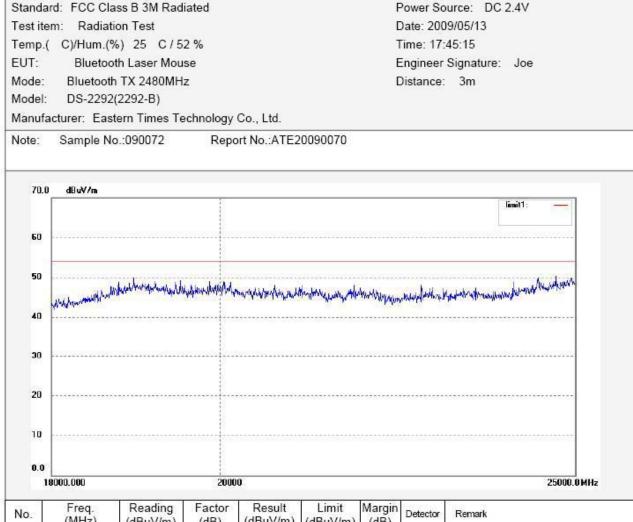
Polarization:

Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Horizontal

Job No.: ET #146

Standard: FCC Class B 3M Radiated





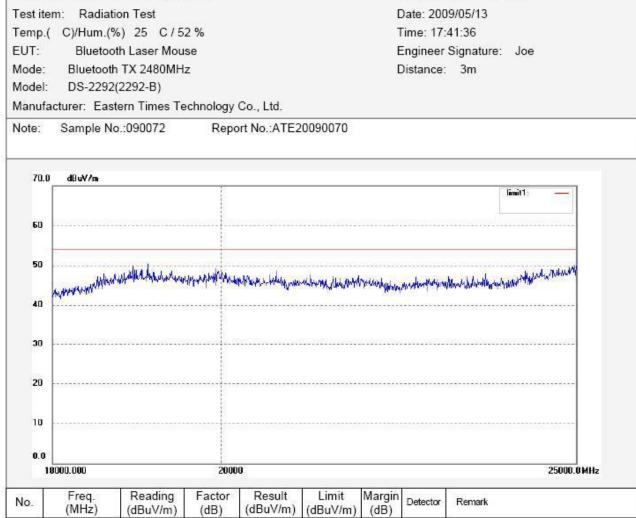
F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 966 chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Polarization: Vertical

Power Source: DC 2.4V

Job No.: ET #145

Standard: FCC Class B 3M Radiated



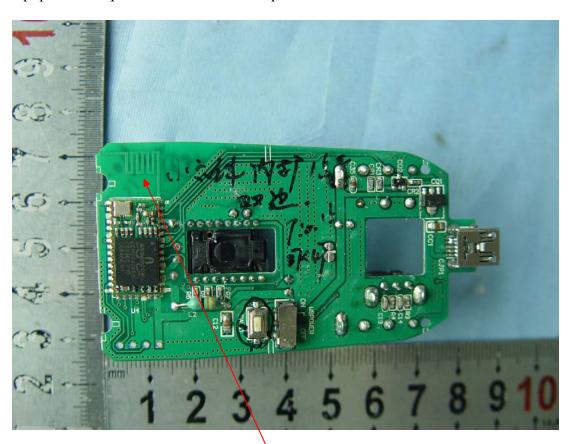
12.ANTENNA REQUIREMENT

12.1.The Requirement

According to 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.

12.2.Antenna Construction

The antenna is PCB Layout antenna, no consideration of replacement. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna