FCC CERTIFICATION On Behalf of Eastern Times Technology Co., Ltd.

2.4G Wireless Optical Mouse Model No.: DS-2283, DS-2282

FCC ID: TUVDS-2283-2282

Prepared for

Address

: Eastern Times Technology Co., Ltd.

Building D, Nan An Industry Park, Youganpu Village Fenggang Town, Dongguan City, Guangdong, China

Prepared by

Address

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Report Number : ATE20132503

Date of Test : November 28-29, 2013 Date of Report : December 3, 2013

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APPENDIX I (TEST CURVES) (28 pages)

Test Report Certification

Applicant : Eastern Times Technology Co., Ltd.Manufacturer : Eastern Times Technology Co., Ltd.

EUT Description : 2.4G Wireless Optical Mouse

(A) MODEL NO.: DS-2283, DS-2282

(B) POWER SUPPLY: 3V DC ("AAA" batteries 2×)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.4: 2009

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 Section15.249 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 :	November 28-29, 2013
Prepared by :	BobWarf
	(Engineer)
Approved & Authorized Signer :	(Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT : 2.4G Wireless Optical Mouse

Model Number : DS-2283, DS-2282

(We hereby state that these models are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement. Therefore only model DS-2283 is tested

for tests)

Power Supply : 3V DC ("AAA" batteries $2 \times)$

Operate Frequency : 2408.000-2474.000MHz

Applicant : Eastern Times Technology Co., Ltd.

Address : Building D, Nan An Industry Park, Youganpu Village

Fenggang Town, Dongguan City, Guangdong, China

Manufacturer : Eastern Times Technology Co., Ltd.

Address : Building D, Nan An Industry Park, Youganpu Village

Fenggang Town, Dongguan City, Guangdong, China

Date of sample received: November 26, 2013

Date of Test : November 28-29, 2013

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	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 12, 2013	Jan. 11, 2014
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 12, 2013	Jan. 11, 2014
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 12, 2013	Jan. 11, 2014
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 12, 2013	Jan. 11, 2014
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Feb. 06, 2013	Feb. 05, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Feb. 06, 2013	Feb. 05, 2014
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2013	Jan. 11, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2013	Jan. 11, 2014

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.249(a)	Fundamental and Harmonics Radiated Emission	Compliant
Section 15.249(d)	Spurious Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: "N/A" means "Not applicable".

4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A)

4.1.Block Diagram of Test Setup

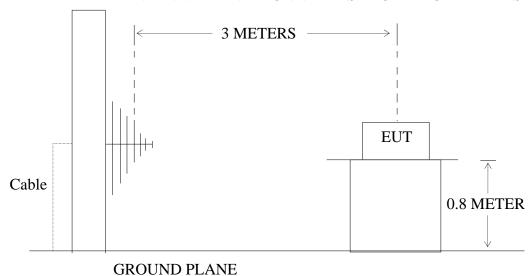
4.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: 2.4G Wireless Optical Mouse)

4.1.2.Semi-Anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: 2.4G Wireless Optical Mouse)

4.2. The Emission Limit

4.2.1.For intentional radiators, According to section 15.249(a), Operation within the frequency band of 2.4 to 2.4835GHz, The fundamental field strength shall not exceed 94 dB μ V/m and the harmonics shall not exceed 54 dB μ V/m.

Fundamental	Field Strength of Fundamental	Field Strength of harmonics			
Frequency	(millivolts/meter)	(microvolts/meter)			
902-928MHz	50	500			
2400-2483.5MHz	50	500			
5725-5875MHz	50	500			
24.0-24.25GHz	250	2500			

4.2.2.According to section 15.249(e), as shown in section 15.35(b), the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

4.3. 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.

4.3.1. 2.4G Wireless Optical Mouse (EUT)

Model Number : DS-2283 Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 4.1.
- 4.4.2. Turn on the power of all equipment.
- 4.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2408.000 2474.000 MHz MHz. We are select 2408.000MHz, 2440.000MHz, 2474.000MHz TX frequency to transmit.

4.5.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 bi-log 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: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz, and set at 1MHz in above 1000MHz.

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

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

Date of Test:November 28, 2013Temperature:25°CEUT:2.4G Wireless Optical MouseHumidity:50%Model No.:DS-2283Power Supply:3V DCTest Mode:TX 2408.000MHzTest Engineer:Pei

Fundamental Radiated Emissions

Frequency	equency Reading(dBμV/m)		Factor(dB)	Result(dBµV/m)		Limit(dBµV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2408.000	78.99	86.12	-6.74	72.25	79.38	94.00	114.00	-21.75	-34.62	Vertical
2408.000	90.84	97.30	-6.74	84.10	90.56	94.00	114.00	-9.90	-23.44	Horizontal

Harmonics Radiated Emissions

Frequency	quency Reading(dBμV/m)		Factor(dB)	Result(dBµV/m)		Limit(dBµV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
4816.000	41.65	47.32	-1.54	40.11	45.78	54.00	74.00	-13.89	-28.22	Vertical
4816.000	42.61	49.90	-1.54	41.07	48.36	54.00	74.00	-12.93	-25.64	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	November 28, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2283	Power Supply:	3V DC
Test Mode:	TX 2440.000MHz	Test Engineer:	Pei

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m	Factor(dB) Corr.	Result(dBµV/m)		Limit(dBµV/m)		Margin(dB)		Polarization
(11112)	AV	PEAK	Con.	AV	PEAK	AV	PEAK	AV	PEAK	
2440.000	84.51	90.16	-6.65	77.86	83.51	94.00	114.00	-16.14	-30.49	Vertical
2440.000	93.74	98.29	-6.65	87.09	91.64	94.00	114.00	-6.91	-22.36	Horizontal

Harmonics Radiated Emissions

Frequency	cy Reading(dBμV/m)		Factor(dB)	Result(dBµV/m)		Limit(dBµV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
4880.000	40.33	46.94	-1.33	39.00	45.61	54.00	74.00	-15.00	-28.39	Vertical
4880.000	44.15	48.88	-1.33	42.82	47.55	54.00	74.00	-11.18	-26.45	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	November 28, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2283	Power Supply:	3V DC
Test Mode:	TX 2474.000MHz	Test Engineer:	Pei

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m	Factor(dB)	Factor(dB) Result(dBµV/m) Corr.		Limit(dBµV/m)		Margin(dB)		Polarization
(WILL)	AV	PEAK	Con.	AV	PEAK	AV	PEAK	AV	PEAK	
2474.000	84.67	90.80	-6.56	78.11	84.24	94.00	114.00	-15.89	-29.76	Vertical
2474.000	91.88	97.33	-6.56	85.32	90.77	94.00	114.00	-8.68	-23.23	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(d	dBμV/m	Factor(dB) Corr.	Result(dBµV/m)		Limit(dBµV/m)		//m) Margin(dB)		Polarization
(WITIZ)	AV	PEAK	Con.	AV	PEAK	AV	PEAK	AV	PEAK	
4948.000	42.11	48.69	-1.15	40.96	47.54	54.00	74.00	-13.04	-26.46	Vertical
4948.000	42.74	49.80	-1.15	41.59	48.65	54.00	74.00	-12.41	-25.35	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

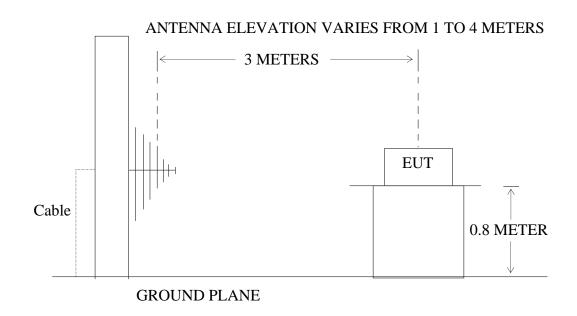
5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: 2.4G Wireless Optical Mouse)

5.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: 2.4G Wireless Optical Mouse)

5.2. The Emission Limit For Section 15.249(d)

5.2.1.Emission radiated outside of the specified frequency bands, except for harmonics, shall be comply with the general radiated emission limits in Section 15.209.

Radiation Emission Measurement Limits According to Section 15.209

	Limit					
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)	The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is			
0.009 – 0.490	2400/F(kHz)	300	performed with Average detector.			

0.490 – 1.705	24000/F(kHz)	30	Except those frequency bands
1.705 – 30.0	30	30	mention above, the final measurement for frequencies below
30 - 88	100	3	1000MHz is performed with Quasi Peak detector.
88 - 216	150	3	
216 - 960	200	3	
Above 960	500	3	

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. 2.4G Wireless Optical Mouse (EUT)

Model Number : DS-2283 Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

5.4. Operating Condition of EUT

- 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 modes measure it. The transmit frequency are 2408.000 2474.000 MHz. We are select 2408.000MHz, 2440.000MHz, 2474.000MHz TX frequency to transmit.

5.5.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: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9kHz to 25GHz 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.

5.6. The Emission Measurement Result

PASS.

Date of Test:	November 28, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2283	Power Supply:	3V DC
Test Mode:	TX 2408.000MHz	Test Engineer:	Pei

30MHz-25GHz

Frequency (MHz)	Reading	Factor(dB) Corr.	Result	Limit	Margin	Polarization
(MITZ)	(dBµV/m)	Coll.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
470.5232	37.25	-14.27	22.98	46.00	-23.02	Vertical
647.3856	35.55	-10.70	24.85	46.00	-21.15	Vertical
709.1823	35.26	-9.59	25.67	46.00	-20.33	Vertical
383.9318	46.54	-15.76	30.78	46.00	-15.22	Horizontal
709.1823	38.72	-9.59	29.13	46.00	-16.87	Horizontal
900.1474	35.21	-6.11	29.10	46.00	-16.90	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	November 28, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2283	Power Supply:	3V DC
Test Mode:	TX 2440.000MHz	Test Engineer:	Pei

30MHz-25GH

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
383.9318	36.51	-15.76	20.75	46.00	-25.25	Vertical
661.1504	34.54	-10.43	24.11	46.00	-21.86	Vertical
709.1823	34.92	-9.59	25.33	46.00	-20.67	Vertical
383.9318	46.60	-15.76	30.84	46.00	-15.16	Horizontal
636.1340	39.19	-10.94	28.25	46.00	-17.75	Horizontal
900.1474	34.96	-6.11	28.85	46.00	-17.15	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:	November 28, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2283	Power Supply:	3V DC
Test Mode:	TX 2474.000MHz	Test Engineer:	Pei

30MHz-25GH

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
383.9318	37.87	-15.76	22.11	46.00	-23.89	Vertical
612.0642	35.41	-11.42	23.99	46.00	-22.01	Vertical
709.1823	34.13	-9.59	24.54	46.00	-21.46	Vertical
383.9318	47.01	-15.76	31.25	46.00	-14.75	Horizontal
636.1340	39.93	-10.94	28.99	46.00	-17.01	Horizontal
900.1474	36.37	-6.11	30.26	46.00	-15.74	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

6. BAND EDGES

6.1.The Requirement

6.1.1.Band Edge from 2400MHz to 2483.5MHz. Emission 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.

6.2.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.

6.2.1. 2.4G Wireless Optical Mouse (EUT)

Model Number : DS-2283 Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

6.3. Operating Condition of EUT

- 6.3.1. Setup the EUT and simulator as shown as Section 4.1.
- 6.3.2. Turn on the power of all equipment.
- 6.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 2408.000-2474.000MHz MHz. We are select 2408.000MHz, 2474.000MHz TX frequency to transmit.

6.4. Test Procedure

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

6.5. The Measurement Result

Pass.

Date of Test:	November 29, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2283	Power Supply:	3V DC
Test Mode:	TX 2408.000MHz	Test Engineer:	Pei

Frequency	Reading(dBμV/m)	Factor(dB)	Result(dE	Result(dBμV/m) I		Limit(dBµV/m)		Margin(dB)	
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	38.54	43.13	-6.99	31.55	36.14	54.00	74.00	-22.45	-37.86	Vertical
2382.460	42.99	48.51	-6.81	36.18	41.70	54.00	74.00	-17.82	-32.30	Vertical
2390.000	37.69	43.59	-6.78	30.91	36.81	54.00	74.00	-23.09	-37.19	Vertical
2310.000	35.88	42.90	-6.99	28.89	35.91	54.00	74.00	-25.11	-38.09	Horizontal
2382.320	38.54	46.20	-6.81	31.73	39.39	54.00	74.00	-22.27	-34.61	Horizontal
2390.000	36.20	42.49	-6.78	29.42	35.71	54.00	74.00	-24.58	-38.29	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

 $Result = Reading + Corrected \ Factor$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

Date of Test:November 29, 2013Temperature:25°CEUT:2.4G Wireless Optical MouseHumidity:50%Model No.:DS-2283Power Supply:3V DCTest Mode:TX 2474.000MHzTest Engineer:Pei

Frequency	Reading(c	dBμV/m)	Factor(dB)	Result(dBµV/m		$B\mu V/m$ Limit($dB\mu V/m$)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	42.74	48.62	-6.54	36.20	42.08	54.00	74.00	-17.80	-31.92	Vertical
2487.520	49.37	55.20	-6.52	42.85	48.68	54.00	74.00	-11.15	-25.32	Vertical
2500.000	36.62	45.43	-6.50	33.12	38.93	54.00	74.00	-20.88	-35.07	Vertical
2483.500	39.64	44.41	-6.54	33.10	37.87	54.00	74.00	-20.90	-36.13	Horizontal
2487.520	44.85	50.00	-6.52	38.33	43.48	54.00	74.00	-15.67	-30.52	Horizontal
2500.000	37.04	43.35	-6.50	30.54	36.85	54.00	74.00	-23.46	-37.15	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

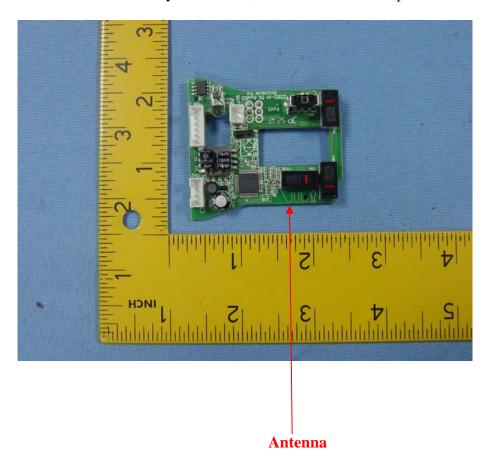
7. ANTENNA REQUIREMENT

7.1.The Requirement

7.1.1.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.

7.2. Antenna Construction

The antenna is PCB Layout antenna, no consideration of replacement.



APPENDIX I (Test Curves)



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3871

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Wireless Optical Mouse

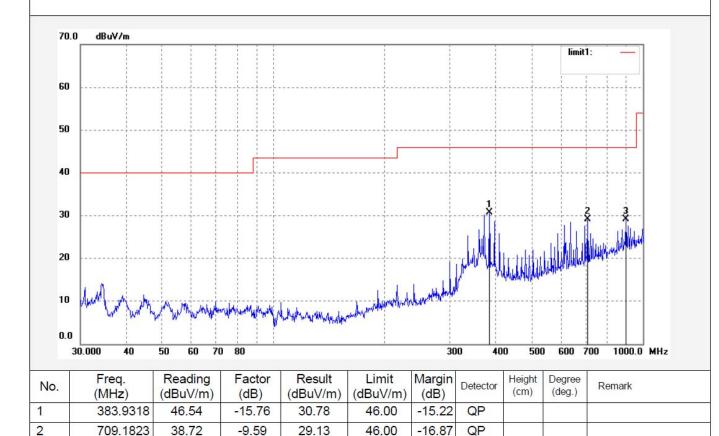
Mode: TX 2408MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Horizontal Power Source: DC 3V

Date: 2013/11/28
Time: 18:31:04
Engineer Signature:
Distance: 3m



46.00

-16.90

QP

3

900.1474

35.21

-6.11

29.10



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3870

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Wireless Optical Mouse

Mode: TX 2408MHz

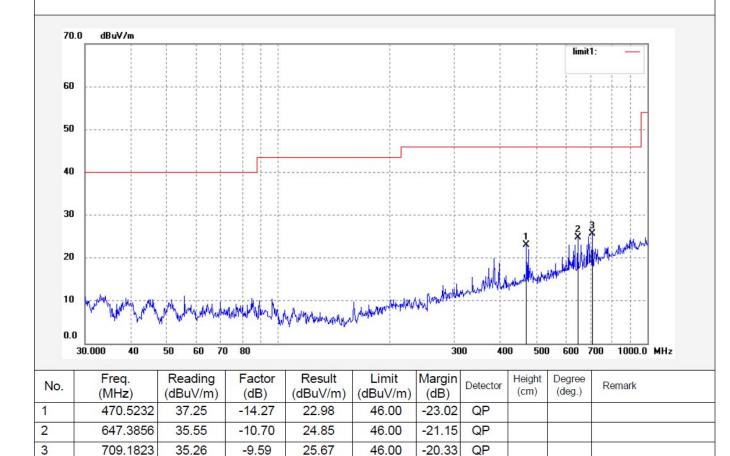
Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Vertical Power Source: DC 3V

Date: 2013/11/28
Time: 18:30:18
Engineer Signature:
Distance: 3m





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

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3860

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: 2.4G Wireless Optical Mouse

Mode: TX 2408MHz Model: DS-2283

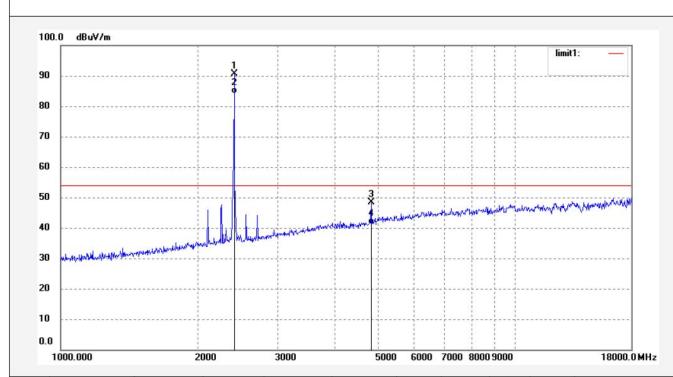
Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Horizontal Power Source: DC 3V Date: 2013/11/28 Time: 18:14:16

Distance: 3m

Engineer Signature:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.000	97.30	-6.74	90.56	114.00	-23.44	peak			
2	2408.000	90.84	-6.74	84.10	94.00	-9.90	AVG			
3	4816.000	49.90	-1.54	48.36	74.00	-25.64	peak			
4	4816.000	42.61	-1.54	41.07	54.00	-12.93	AVG			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3861

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: 2.4G Wireless Optical Mouse

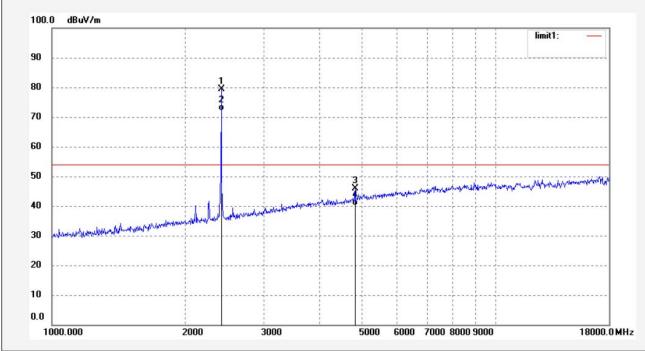
Mode: TX 2408MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Vertical
Power Source: DC 3V
Date: 2013/11/28
Time: 18:15:47
Engineer Signature:

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.000	86.12	-6.74	79.38	114.00	-34.62	peak			
2	2408.000	78.99	-6.74	72.25	94.00	-21.75	AVG			
3	4816.000	47.32	-1.54	45.78	74.00	-28.22	peak			
4	4816.000	41.65	-1.54	40.11	54.00	-13.89	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.: star #3882

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 % EUT: 2.4G Wireless Optical Mouse

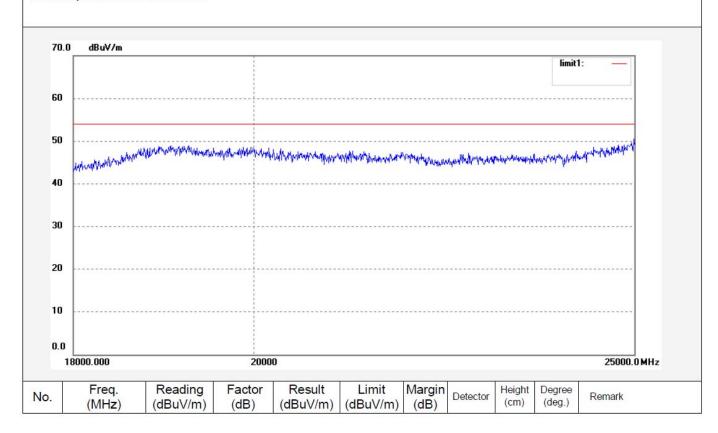
Mode: TX 2408MHz Model: DS-2283 Manufacturer: Eastern Polarization: Vertical Power Source: DC 3V

Date: 2013/11/29 Time: 12:13:24

Engineer Signature: star

Distance: 3m

Note:Report No.:ATE20132503



Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396



ACCURATE TECHNOLOGY CO., LTD.

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

Job No.: star #3883 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 3V

 Test item:
 Radiation Test
 Date: 2013/11/29

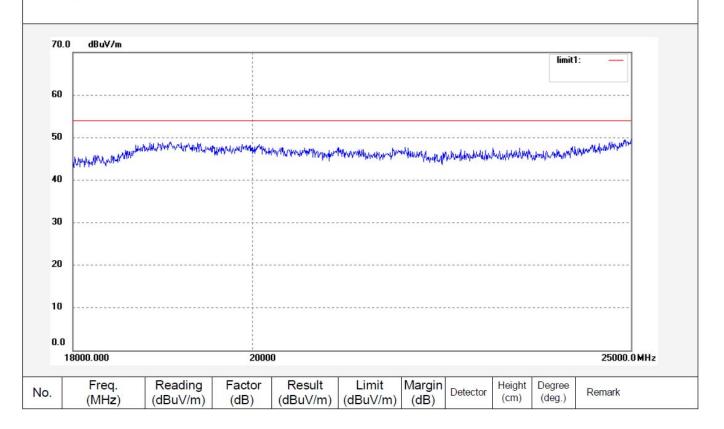
 Temp.(C)/Hum.(%)
 25 C / 50 %
 Time: 12:16:27

EUT: 2.4G Wireless Optical Mouse Engineer Signature: star

Mode: TX 2408MHz) Distance: 3m

Mode: TX 2408MHz)
Model: DS-2283
Manufacturer: Eastern

Note:Report No.:ATE20132503





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3869

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: 2.4G Wireless Optical Mouse

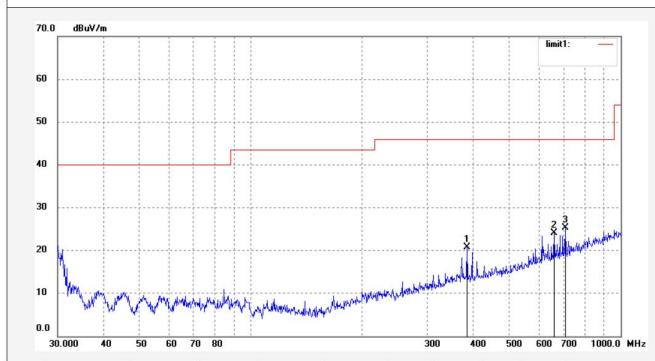
Mode: TX 2440MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Vertical Power Source: DC 3V

Date: 2013/11/28 Time: 18:29:29 Engineer Signature: Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	383.9318	36.51	-15.76	20.75	46.00	-25.25	QP			
2	661.1504	34.54	-10.43	24.11	46.00	-21.89	QP		2	
3	709.1823	34.92	-9.59	25.33	46.00	-20.67	QP			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3868

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: 2.4G Wireless Optical Mouse

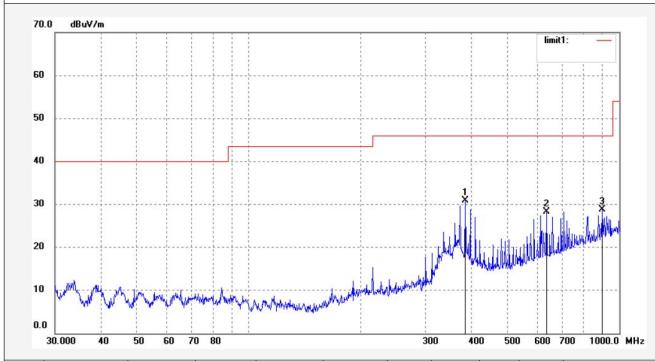
Mode: TX 2440MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Horizontal Power Source: DC 3V

Date: 2013/11/28
Time: 18:28:55
Engineer Signature:
Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	383.9318	46.60	-15.76	30.84	46.00	-15.16	QP			
2	636.1340	39.19	-10.94	28.25	46.00	-17.75	QP			
3	900.1474	34.96	-6.11	28.85	46.00	-17.15	QP			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3862

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: 2.4G Wireless Optical Mouse

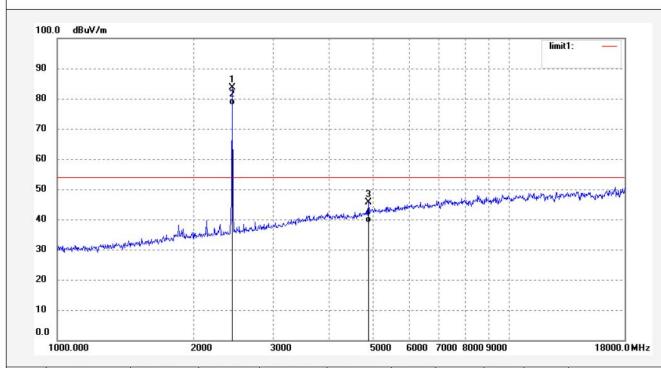
Mode: TX 2440MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Vertical

Power Source: DC 3V Date: 2013/11/28 Time: 18:17:01 Engineer Signature: Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	90.16	-6.65	83.51	114.00	-30.49	peak			
2	2440.000	84.51	-6.65	77.86	94.00	-16.14	AVG			
3	4880.000	46.94	-1.33	45.61	74.00	-28.39	peak			
4	4880.000	40.33	-1.33	39.00	54.00	-15.00	AVG			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3863

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: 2.4G Wireless Optical Mouse

Mode: TX 2440MHz Model: DS-2283

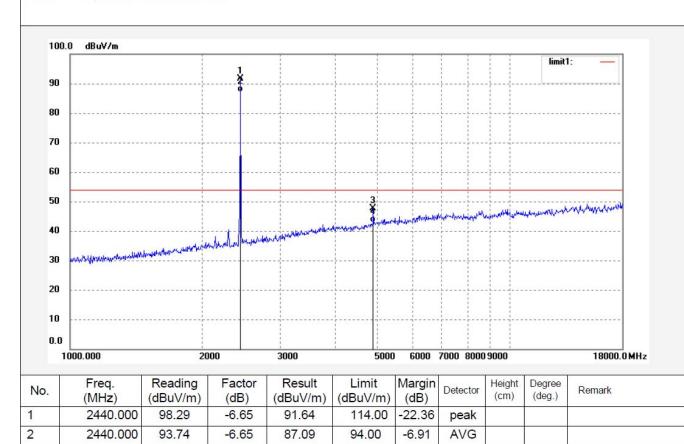
Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Power Source: DC 3V Date: 2013/11/28 Time: 18:18:24 Engineer Signature: Distance: 3m

Horizontal

Polarization:



3

4

4880.000

4880.000

48.88

44.15

-1.33

-1.33

47.55

42.82

74.00

54.00

-26.45

-11.18

peak

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.: star #3884 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: 2.4G Wireless Optical Mouse

Mode: TX 2440MHz
Model: DS-2283
Manufacturer: Eastern

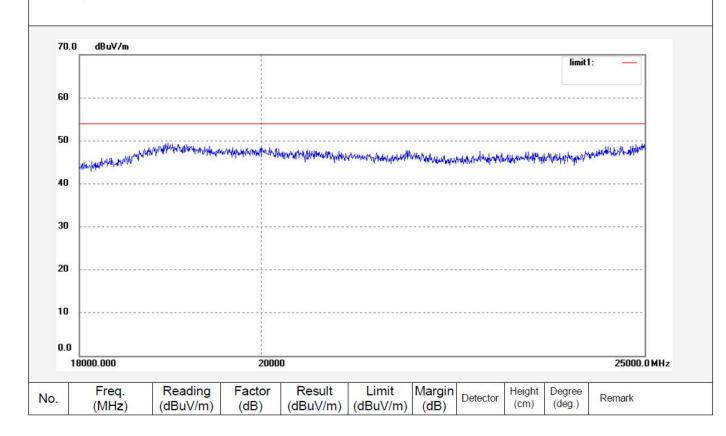
Polarization: Horizontal Power Source: DC 3V Date: 2013/11/29

Time: 12:19:42

Engineer Signature: star

Distance: 3m

Note:Report No.:ATE20132503





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.: star #3885

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 % EUT: 2.4G Wireless Optical Mouse

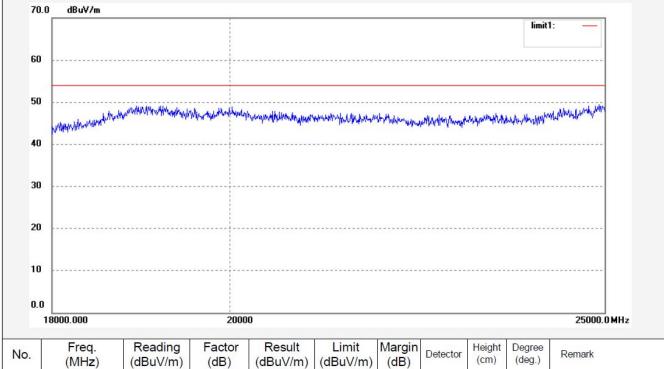
Mode: TX 2440MHz Model: DS-2283 Manufacturer: Eastern Polarization: Vertical
Power Source: DC 3V

Date: 2013/11/29 Time: 12:22:32

Engineer Signature: star

Distance: 3m







F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3867

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Wireless Optical Mouse

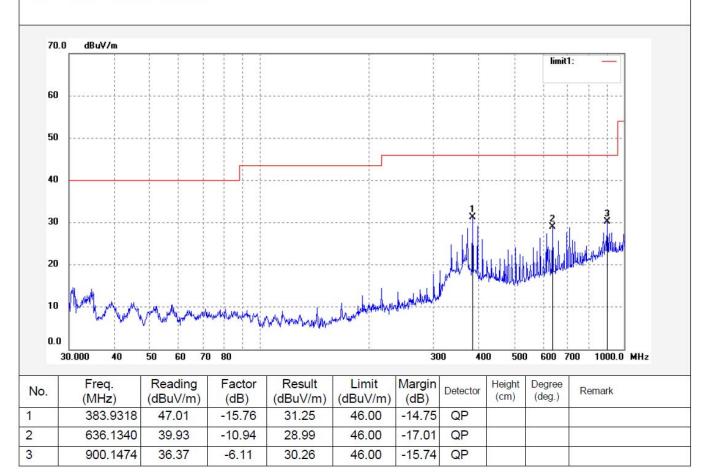
Mode: TX 2474MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Horizontal Power Source: DC 3V Date: 2013/11/28 Time: 18:28:03

Engineer Signature:
Distance: 3m





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3868

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: 2.4G Wireless Optical Mouse

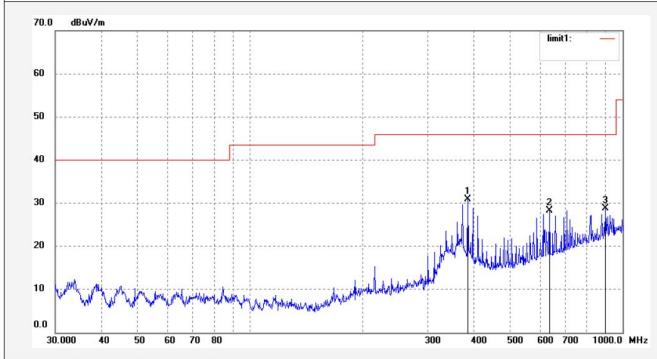
Mode: TX 2440MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Horizontal Power Source: DC 3V

Date: 2013/11/28
Time: 18:28:55
Engineer Signature:
Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	383.9318	46.60	-15.76	30.84	46.00	-15.16	QP			
2	636.1340	39.19	-10.94	28.25	46.00	-17.75	QP			
3	900.1474	34.96	-6.11	28.85	46.00	-17.15	QP			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3864

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Wireless Optical Mouse

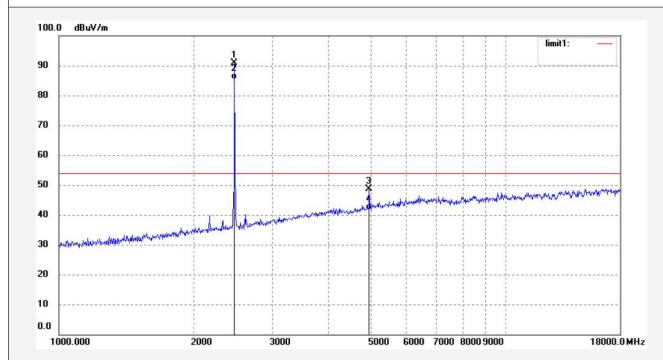
Mode: TX 2474MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Horizontal Power Source: DC 3V

Date: 2013/11/28
Time: 18:20:14
Engineer Signature:
Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2474.000	97.33	-6.56	90.77	114.00	-23.23	peak			
2	2474.000	91.88	-6.56	85.32	94.00	-8.68	AVG			
3	4948.000	49.80	-1.15	48.65	74.00	-25.35	peak			
4	4948.000	42.74	-1.15	41.59	54.00	-12.41	AVG			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3865

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: 2.4G Wireless Optical Mouse

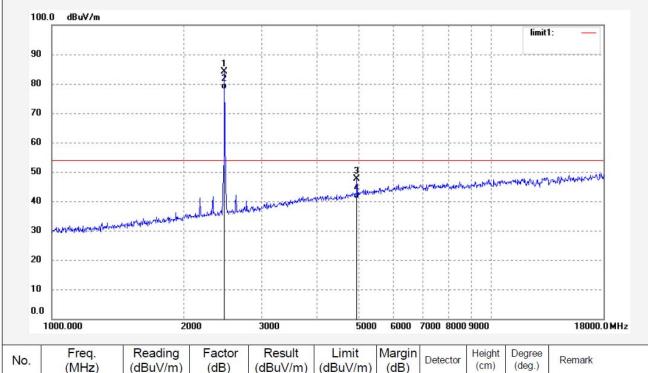
Mode: TX 2474MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Vertical Power Source: DC 3V

Date: 2013/11/28
Time: 18:22:32
Engineer Signature:
Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2474.000	90.80	-6.56	84.24	114.00	-29.76	peak			
2	2474.000	84.67	-6.56	78.11	94.00	-15.89	AVG			
3	4948.000	48.69	-1.15	47.54	74.00	-26.46	peak			
4	4948.000	42.11	-1.15	40.96	54.00	-13.04	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.: star #3886

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 % EUT: 2.4G Wireless Optical Mouse

Mode: TX 2474MHz

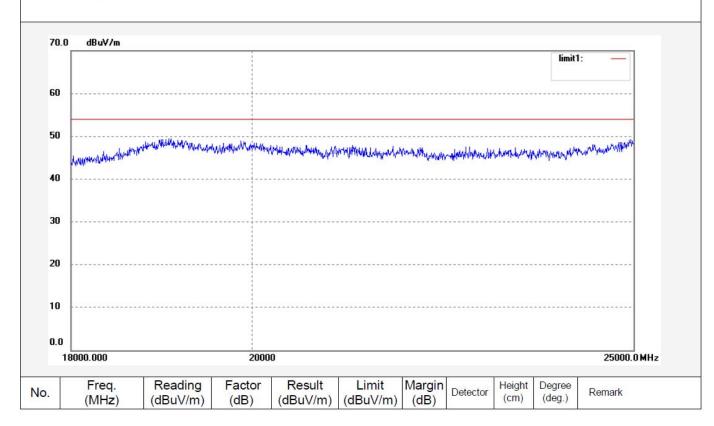
Model: DS-2283 Manufacturer: Eastern Polarization: Vertical Power Source: DC 3V

Date: 2013/11/29 Time: 12:25:36

Engineer Signature: star

Distance: 3m

Note:Report No.:ATE20132503





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.: star #3887

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: T2.4G Wireless Optical Mouse

Mode: TX 2474MHz Model: DS-2283 Manufacturer: Eastern Polarization: Horizontal

Power Source: DC 3V Date: 2013/11/29

Time: 12:28:30

Engineer Signature: star

Distance: 3m

Note:Report No.:ATE20132503





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

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3878 Polarization: Vertical Standard: FCC PK

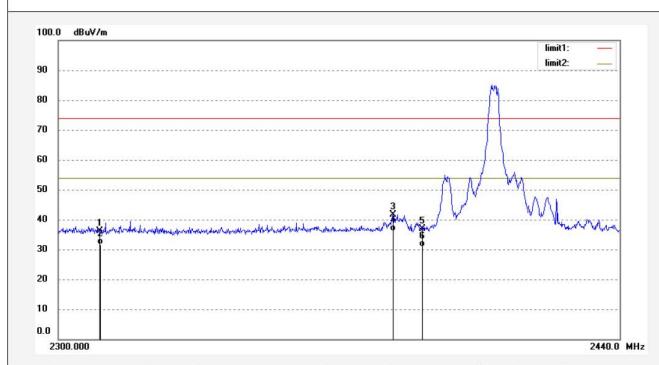
Test item: Radiation Test Temp.(C)/Hum.(%) 25 C / 55 % EUT: 2.4G Wireless Optical Mouse

Mode: TX 2408MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503 Power Source: DC 3V

Date: 13/11/29/ Time: 11/05/12 Engineer Signature: Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	43.13	-6.99	36.14	74.00	-37.86	peak			
2	2310.000	38.54	-6.99	31.55	54.00	-22.45	AVG			
3	2382.460	48.51	-6.81	41.70	74.00	-32.30	peak			
4	2382.460	42.99	-6.81	36.18	54.00	-17.82	AVG			
5	2390.000	43.59	-6.78	36.81	74.00	-37.19	peak			
6	2390.000	37.69	-6.78	30.91	54.00	-23.09	AVG			



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3879
Standard: FCC PK
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Wireless Optical Mouse

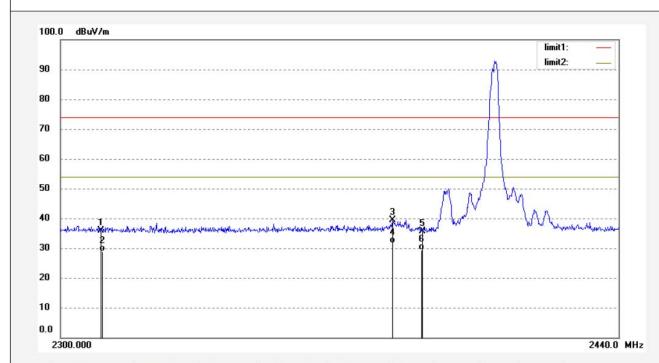
Mode: TX 2408MHz Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503

Polarization: Horizontal Power Source: DC 3V

Date: 13/11/29/
Time: 11/06/21
Engineer Signature:
Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	42.90	-6.99	35.91	74.00	-38.09	peak			
2	2310.000	35.88	-6.99	28.89	54.00	-25.11	AVG			
3	2382.320	46.20	-6.81	39.39	74.00	-34.61	peak	1		
4	2382.320	38.54	-6.81	31.73	54.00	-22.27	AVG			
5	2390.000	42.49	-6.78	35.71	74.00	-38.29	peak			
6	2390.000	36.20	-6.78	29.42	54.00	-24.58	AVG			



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

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star #3880 Polarization: Horizontal Standard: FCC PK Power Source: DC 3V

Test item: Radiation Test Date: 13/11/29/ Temp.(C)/Hum.(%) 25 C / 55 % Time: 11/09/22 EUT: 2.4G Wireless Optical Mouse

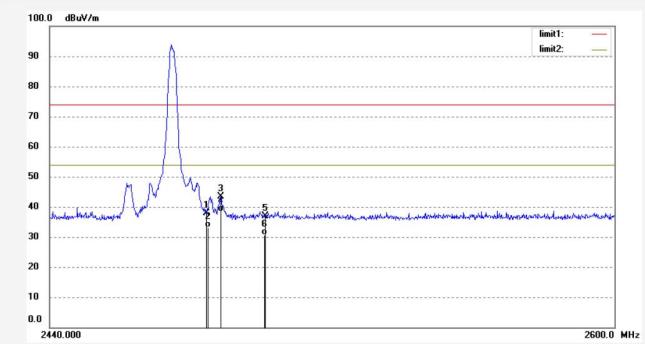
Mode: TX 2474MHz Model: DS-2283

Manufacturer: Eastern Times

Report No.:ATE201032503 Note:







No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	44.41	-6.54	37.87	74.00	-36.13	peak			
2	2483.500	39.64	-6.54	33.10	54.00	-20.90	AVG	S		
3	2487.520	50.00	-6.52	43.48	74.00	-30.52	peak			
4	2487.520	44.85	-6.52	38.33	54.00	-15.67	AVG			
5	2500.000	43.35	-6.50	36.85	74.00	-37.15	peak			
6	2500.000	37.04	-6.50	30.54	54.00	-23.46	AVG			



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Job No.: star #3881 Polarization: Vertical Standard: FCC PK Power Source: DC 3V

Test item: Radiation Test Date: 13/11/29/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 11/29/29

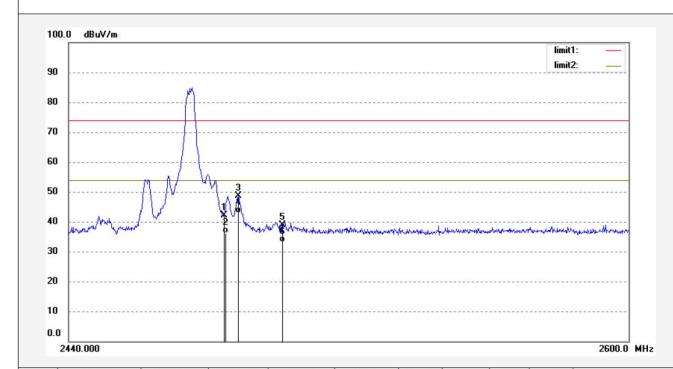
EUT: 2.4G Wireless Optical Mouse Engineer Signature:

Mode: TX 2474MHz Distance: 3m

Model: DS-2283

Manufacturer: Eastern Times

Note: Report No.:ATE201032503



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	48.62	-6.54	42.08	74.00	-31.92	peak			
2	2483.500	42.74	-6.54	36.20	54.00	-17.80	AVG			
3	2487.520	55.20	-6.52	48.68	74.00	-25.32	peak			
4	2487.520	49.37	-6.52	42.85	54.00	-11.15	AVG			
5	2500.000	45.43	-6.50	38.93	74.00	-35.07	peak			
6	2500.000	39.62	-6.50	33.12	54.00	-20.88	AVG			