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

2.4G Wireless Gaming Mouse Model No.: DS-2472, Z4

FCC ID: TUV2472

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	:	ACCURATE TECHNOLOGY CO. LTD F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China
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Report Number	:	ATE20131992
Date of Test	:	September 12-13, 2013
Date of Report	:	September 17, 2013

TABLE OF CONTENTS

Description

Page

1.	GE	NERAL INFORMATION	4
	1.1.	Description of Device (EUT)	4
	1.2.	Description of Test Facility	
	1.3.	Measurement Uncertainty	5
2.	ME	ASURING DEVICE AND TEST EQUIPMENT	6
3.		MMARY OF TEST RESULTS	
4.	FU	NDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A	A) 8
	4.1.	Block Diagram of Test Setup	8
	4.2.	The Emission Limit	
	4.3.	Configuration of EUT on Measurement	9
	4.4.	Operating Condition of EUT	9
	4.5.	Test Procedure	10
	4.6.	The Field Strength of Radiation Emission Measurement Results	11
5.	SPU	JRIOUS RADIATED EMISSION FOR SECTION 15.249(D)	14
	5.1.	Block Diagram of Test Setup	14
	5.2.	The Emission Limit For Section 15.249(d)	
	5.3.	EUT Configuration on Measurement	15
	5.4.	Operating Condition of EUT	15
	5.5.	Test Procedure	16
	5.6.	The Emission Measurement Result	17
6.	BA	ND EDGES	20
	6.1.	The Requirement	20
	6.2.	EUT Configuration on Measurement	20
	6.3.	Operating Condition of EUT	20
	6.4.	Test Procedure	
	6.5.	The Measurement Result	21
7.	AN	TENNA REQUIREMENT	23
	7.1.	The Requirement	
	7.2.	Antenna Construction	23

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 Gaming Mouse
		(A) MODEL NO.: DS-2472, Z4
		(B) POWER SUPPLY: 1.5V DC ("AA" batteries $1 \times$)

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 :

September 12-13, 2013

Prepared by :

1300

(Engineer)

Approved & Authorized Signer :

(Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

		2.4G Wireless Gaming Mouse DS-2472, Z4 (Note: These samples are identical, except the appearance is difference. Therefore only model DS-2472 is tested for EMC tests.)
Power Supply :		1.5V DC ("AA" batteries $1 \times$)
Operate Frequency :		2408.000-2474.000MHz
Applicant : Address :	:	Eastern Times Technology Co., Ltd. Building D, Nan An Industry Park, Youganpu Village Fenggang Town, Dongguan City, Guangdong, China
	:	Eastern Times Technology Co., Ltd. Building D, Nan An Industry Park, Youganpu Village Fenggang Town, Dongguan City, Guangdong, China
Date of sample received :		September 11, 2013
Date of Test		September 12-13, 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

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Kind of equipment	Manufacturer	Туре	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

Table 1: List of Test and Measurement Equipment

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)

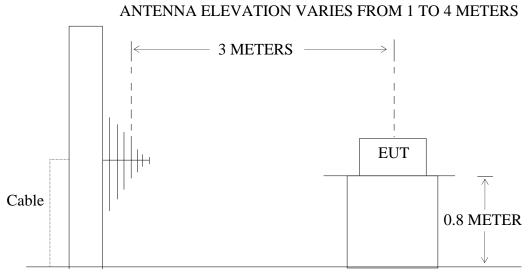
4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators



(EUT: 2.4G Wireless Gaming Mouse)

4.1.2.Semi-Anechoic Chamber Test Setup Diagram



GROUND PLANE

(EUT: 2.4G Wireless Gaming 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 Gaming Mouse (EUT)

Model Number	:	DS-2472
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:	September 12, 2013	Temperature:	25°C
EUT:	2.4G Wireless Gaming Mouse	Humidity:	50%
Model No.:	DS-2472	Power Supply:	DC 1.5V
Test Mode:	TX 2408.000MHz	Test Engineer:	Pei

Fundamental Radiated Emissions

Frequency	Reading(dBµV/m)	Factor(dB)	Result(c	lBµV/m)	Limit(d	BµV/m)	Marg	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2408.000	85.45	97.63	-6.74	78.71	90.89	94.00	114.00	-15.29	-23.11	Vertical
2408.000	81.58	95.03	-6.74	74.84	88.29	94.00	114.00	-19.16	-25.71	Horizontal

Harmonics Radiated Emissions

Frequency	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	46.50	50.30	-1.56	44.94	48.74	54.00	74.00	-9.06	-25.26	Vertical
7224.000	47.47	51.04	1.31	48.78	52.35	54.00	74.00	-5.22	-21.65	Vertical
4916.000	43.59	47.05	-1.25	42.34	45.80	54.00	74.00	-11.66	-28.20	Horizontal
7224.000	46.00	49.49	1.31	47.31	50.80	54.00	74.00	-6.69	-23.20	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:	September 12, 2013	Temperature:	25°C
EUT:	2.4G Wireless Gaming Mouse	Humidity:	50%
Model No.:	DS-2472	Power Supply:	DC 1.5V
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
(10112)	AV	PEAK	Con.	AV	PEAK	AV	PEAK	AV	PEAK	
2440.000	84.94	97.78	-6.65	78.29	91.13	94.00	114.00	-15.71	-22.87	Vertical
2440.000	81.55	93.46	-6.65	74.90	86.81	94.00	114.00	-19.10	-27.19	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBµV/m	Factor(dB) Corr.			Limit(dBµV/m)		Margin(dB)		Polarization
	AV	PEAK	Con.	AV	PEAK	AV	PEAK	AV	PEAK	
4880.000	42.12	46.49	-1.38	40.74	45.11	54.00	74.00	-13.26	-28.89	Horizontal
7320.000	43.61	47.09	1.40	45.01	48.49	54.00	74.00	-8.99	-25.51	Horizontal
4880.000	44.55	48.33	-1.34	43.21	46.99	54.00	74.00	-10.79	-27.01	Vertical
7320.000	46.08	50.54	1.40	47.48	51.94	54.00	74.00	-6.52	-22.06	Vertical

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:	September 12, 2013	Temperature:	25°C
EUT:	2.4G Wireless Gaming Mouse	Humidity:	50%
Model No.:	DS-2472	Power Supply:	DC 1.5V
Test Mode:	TX 2474.000MHz	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	
2474.000	87.82	99.55	-6.56	81.26	92.99	94.00	114.00	-12.74	-21.01	Vertical
2474.000	82.14	94.32	-6.56	75.58	87.76	94.00	114.00	-18.42	-26.24	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBµV/m	Factor(dB) Corr.			Limit(dBµV/m)		Margin(dB)		Polarization
	AV	PEAK	C011.	AV	PEAK	AV	PEAK	AV	PEAK	
4948.000	44.20	48.69	-1.15	43.05	47.54	54.00	74.00	-10.95	-26.46	Vertical
7422.000	45.32	50.51	1.49	46.81	52.00	54.00	74.00	-7.19	-22.00	Vertical
4948.000	41.22	46.54	-1.15	40.07	45.39	54.00	74.00	-13.93	-28.61	Horizontal
7422.000	44.39	48.03	1.49	45.88	49.52	54.00	74.00	-8.12	-24.48	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)

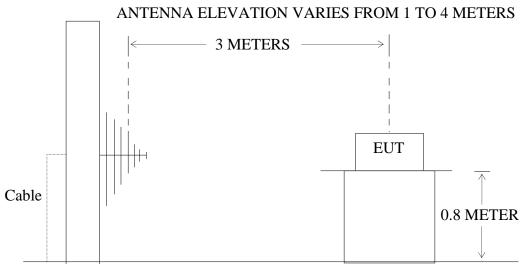
5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators



(EUT: 2.4G Wireless Gaming Mouse)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram



GROUND PLANE

(EUT: 2.4G Wireless Gaming 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.

	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 mention above, the
1.705 - 30.0	30	30	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 Gaming Mouse (EUT)

Model Number	:	DS-2472
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:	September 12, 2013	Temperature:	25°C
EUT:	2.4G Wireless Gaming Mouse	Humidity:	50%
Model No.:	DS-2472	Power Supply:	DC 1.5V
Test Mode:	TX 2408.000MHz	Test Engineer:	Pei

30MHz-25GHz

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
300.3672	41.91	-17.86	24.05	46.00	-21.95	Vertical
612.0642	34.57	-11.42	23.15	46.00	-22.85	Vertical
830.4002	33.55	-7.27	26.28	46.00	-19.72	Vertical
300.3672	47.37	-17.86	29.51	46.00	-16.49	Horizontal
612.0642	40.27	-11.42	28.85	46.00	-17.15	Horizontal
854.0247	37.10	-6.92	30.18	46.00	-15.82	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:	September 12, 2013	Temperature:	25°C
EUT:	2.4G Wireless Gaming Mouse	Humidity:	50%
Model No.:	DS-2472	Power Supply:	DC 1.5V
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	
300.3672	39.60	-17.86	21.74	46.00	-24.26	Vertical
612.0642	34.48	-11.42	23.06	46.00	-22.94	Vertical
854.0247	32.70	-6.92	25.78	46.00	-20.22	Vertical
300.3672	48.20	-17.86	30.34	46.00	-15.66	Horizontal
612.0642	40.46	-11.42	29.04	46.00	-16.96	Horizontal
830.4002	37.45	-7.27	30.18	46.00	-15.82	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:	September 12, 2013	Temperature:	25°C
EUT:	2.4G Wireless Gaming Mouse	Humidity:	50%
Model No.:	DS-2472	Power Supply:	DC 1.5V
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	
300.3672	39.59	-17.86	21.73	46.00	-24.27	Vertical
588.9050	33.29	-11.90	21.39	46.00	-24.61	Vertical
854.0247	32.48	-6.92	25.59	46.00	-20.44	Vertical
300.3672	47.65	-17.86	29.79	46.00	-16.21	Horizontal
612.0642	39.25	-11.42	27.83	46.00	-18.17	Horizontal
854.0247	37.40	-6.92	30.48	46.00	-15.52	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 Gaming Mouse (EUT)

Model Number	:	DS-2472
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:	September 13, 2013	Temperature:	25°C
EUT:	2.4G Wireless Gaming Mouse	Humidity:	50%
Model No.:	DS-2472	Power Supply:	DC 1.5V
Test Mode:	TX 2408.000MHz	Test Engineer:	Pei

Frequency	Reading(c	dBμV/m)	Factor(dB)	Result(dE	βμV/m)	Limit(dl	BμV/m)	Margi	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	33.20	44.89	-6.99	26.21	37.90	54.00	74.00	-27.79	-36.10	Vertical
2382.600	35.67	47.30	-6.81	28.86	40.49	54.00	74.00	-25.14	-33.51	Vertical
2390.000	32.50	44.71	-6.78	25.72	37.93	54.00	74.00	-28.28	-36.07	Vertical
2310.000	35.54	46.11	-6.99	28.55	39.12	54.00	74.00	-25.45	-34.88	Horizontal
2353.620	34.85	47.50	-6.88	27.97	40.62	54.00	74.00	-26.03	-33.38	Horizontal
2390.000	32.12	43.34	-6.78	25.34	36.56	54.00	74.00	-28.66	-37.44	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:	September 12, 2013	Temperature:	25°C
EUT:	2.4G Wireless Gaming Mouse	Humidity:	50%
Model No .:	DS-2472	Power Supply:	DC 1.5V
Test Mode:	TX 2474.000MHz	Test Engineer:	Pei

Frequency	Reading(c	dBμV/m)	Factor(dB)	Result(dBµV/m)		Limit(dl	BμV/m)	Margi	Polarization	
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	46.34	56.40	-6.54	39.80	49.86	54.00	74.00	-14.20	-24.14	Vertical
2487.520	50.08	62.46	-6.52	43.56	55.94	54.00	74.00	-10.44	-18.06	Vertical
2500.000	34.11	45.23	-6.50	27.61	38.73	54.00	74.00	-26.39	-35.27	Vertical
2483.500	41.25	51.12	-6.54	34.71	44.58	54.00	74.00	-19.29	-29.42	Horizontal
2484.480	46.89	58.24	-6.54	40.35	51.70	54.00	74.00	-13.65	-22.30	Horizontal
2500.000	33.10	43.45	-6.50	26.60	36.95	54.00	74.00	-27.40	-37.05	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

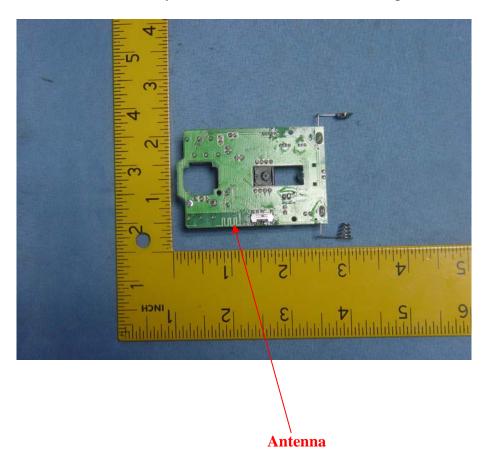
7. ANTENNA REQUIREMENT

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

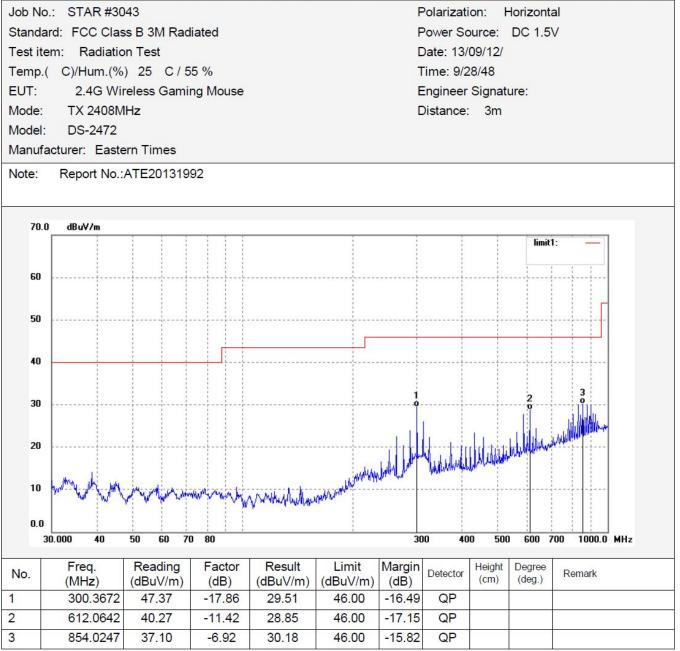
The antenna is PCB Layout antenna, no consideration of replacement.

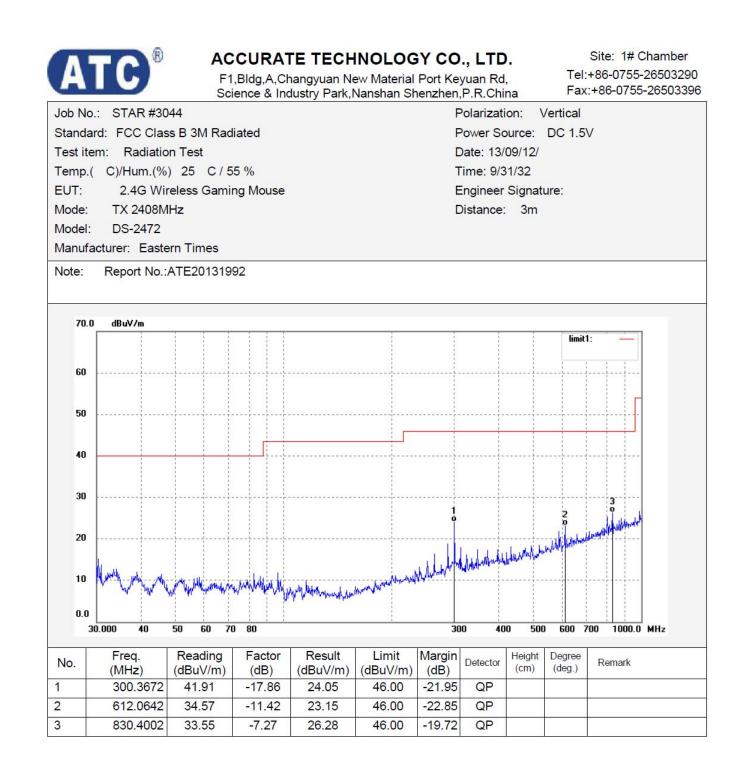


APPENDIX I (Test Curves)



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







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

Job N	o.: STAR #30	97					Polarizati	on: \	/ertical		
Stand	ard: FCC Clas	s B 3M Rad	iated				Power So	ource:	DC 1.5	V	
Test it	em: Radiatio	on Test					Date: 13/	09/12/			
Temp	(C)/Hum.(%) 25 C/5	5 %			i i i	Time: 11	/11/36			
EUT:	2.4G Wi	reless Gamir	ng Mouse				Engineer	Signat	ure:		
Mode:	TX 2408M	lHz					Distance:	3m			
Model	: DS-2472										
Manut	acturer: Easte	ern Times									
Note:	Report No.:	ATE201319	92								
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	1000.000							3000)	4000.0	MHz
No.	Freq.	Reading	Factor	Result	Limit	Margin	Detector	Height	Degree	Remark	
A CONTRACTORY	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)		
1	2408.000	97.63	-6.74	90.89	114.00	-23.1	1				
2	2408.000	85.45	-6.74	78.71	94.00	-15.29	AVG				



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

Job N	o.: STAR #30	98					Polarizati	on: H	-lorizonta	al	
Stand	ard: FCC Clas	s B 3M Rad	liated				Power Sc	ource:	DC 1.5	V	
Test if	em: Radiatio	on Test					Date: 13/	09/12/			
Temp	.(C)/Hum.(%) 25 C/5	5 %				Time: 11/	14/44			
EUT:	2.4G Wi	reless Gami	ng Mouse				Engineer	Signat	ure:		
Mode	TX 2408M	IHz					Distance:	3m			
Mode	: DS-2472										
Manut	facturer: Easte	ern Times									
Note:	Report No.:	ATE201319	92								
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0.0	1000.000							3000)	4000.0	MHz
	Free	Reading	Factor	Result	Limit	Margir		Height	Dograa		
No.	Freq. (MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Detector	(cm)	Degree (deg.)	Remark	
1	2408.000	95.03	-6.74	88.29	114.00	-25.71	peak	2			
2	2408.000	81.58	-6.74	74.84	94.00	-19.16	AVG			2	



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

Job	No.: star #3105	5				F	Polarizati	ion: H	lorizonta	al
Star	ndard: FCC Clas	s B 3M Rad	liated			F	Power Sc	ource:	DC 1.5	V
Test	t item: Radiatio	n Test				C	Date: 13/	09/12/		
Tem	np.(C)/Hum.(%) 25 C/5	5 %			Т	Time: 11/	/38/48		
EUT	T: 2.4G Wir	eless Gami	ng Mouse			E	Engineer	Signat	ure:	
Mod	le: TX 2408M	Hz				C	Distance:	3m		
Mod	lel: DS-2472									
Man	nu <mark>facturer: Eas</mark> te	ern Times								
Vote	e: Report No.:	ATE201319	92							
	100.0 dBuV/m								limit1	
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4916.000	47.05	-1.25	45.80	74.00	-28.20	peak			
2	4916.000	43.59	-1.25	42.34	54.00	-11.66	AVG			
	7224.000	49.49	1.31	50.80	74.00	-23.20	peak			
3	1227.000	10.10		Second States of the Second		1.2012/06/06/06/07/01				



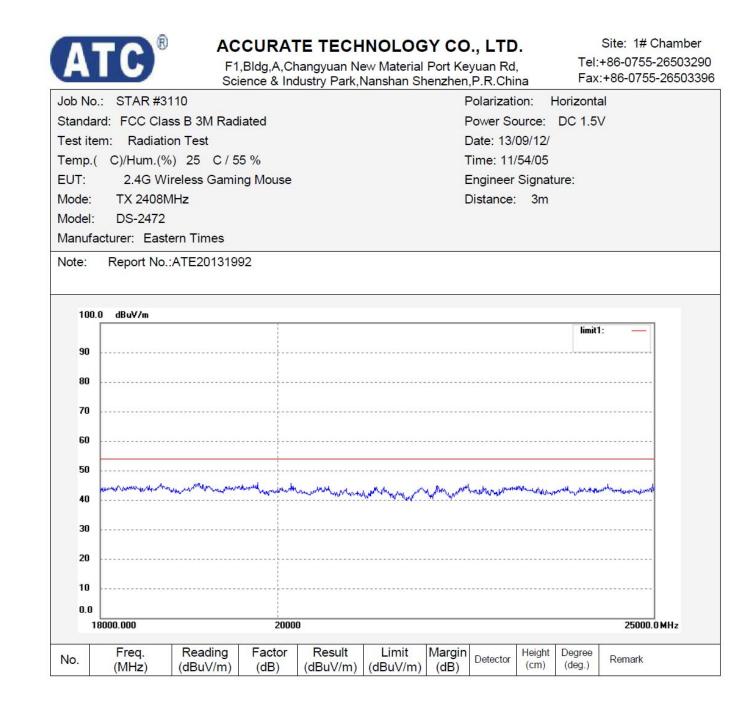
F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

ob No	o.: star #3106			austry i ark,i			Polarizatio		/ertical	
tanda	ard: FCC Clas	s B 3M Rad	liated			F	ower So	urce:	DC 1.5	V
est ite	em: Radiatio	n Test				C	Date: 13/0	09/12/		
emp.	(C)/Hum.(%)) 25 C/5	5 %			٦	ime: 11/4	41/13		
UT:	2.4G Wir	eless Gami	ng Mouse			E	Engineer	Signati	ure:	
lode:	TX 2408M	Hz				[Distance:	3m		
lodel:	DS-2472									
lanuf	acturer: Easte	ern Times								
lote:	Report No.:	ATE201319	92							
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	4000.000	5000	6000	7000 80	00	10000				18000.0 MHz
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
	4816.000	50.30	-1.56	48.74	74.00	-25.26	peak			
	4816.000	46.50	-1.56	44.94	54.00	-9.06	AVG			
) 	7224.000	51.04	1.31	52.35	74.00	-21.65				
	7224.000	47.47	1.31	48.78	54.00	-5.22	AVG			2



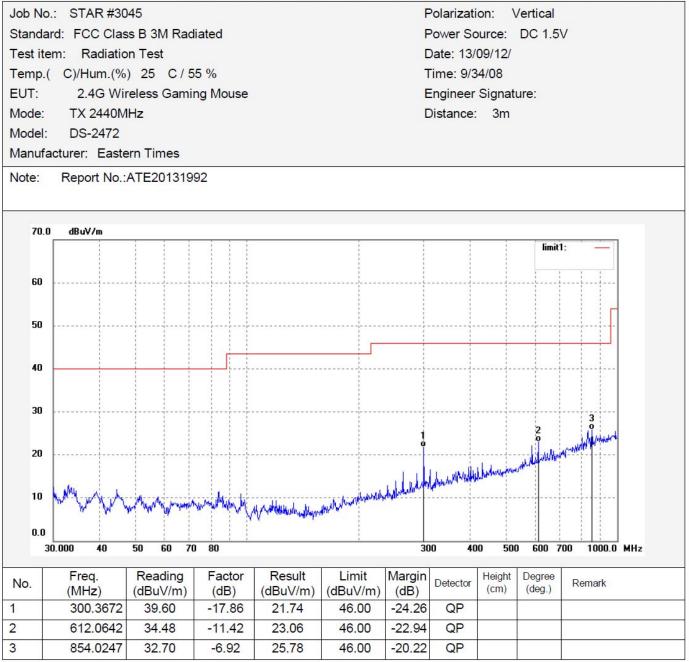
F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Job No	o.: STAR #3	109				F	olarizatio	on: \	/ertical	
Standa	ard: FCC Cla	ss B 3M Rad	iated			F	ower So	urce:	DC 1.5	V
Test ite	em: Radiatio	on Test				[Date: 13/0	09/12/		
Temp.	(C)/Hum.(%) 25 C/5	5 %			7	Time: 11/	50/36		
EUT:	2.4G Wi	reless Gamir	ng Mouse			E	Engineer	Signat	ure:	
Mode:	TX 2408M	1Hz				0	Distance:	3m		
Model:	DS-2472									
Manuf	acturer: East	ern Times								
Note:	Report No.	ATE201319	92							
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1	8000.000		2000	0						25000.0 MHz
No.	Freq.	Reading	Factor	Result	Limit	Margin	Detector	Height	Degree	Remark
0.0000000	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	



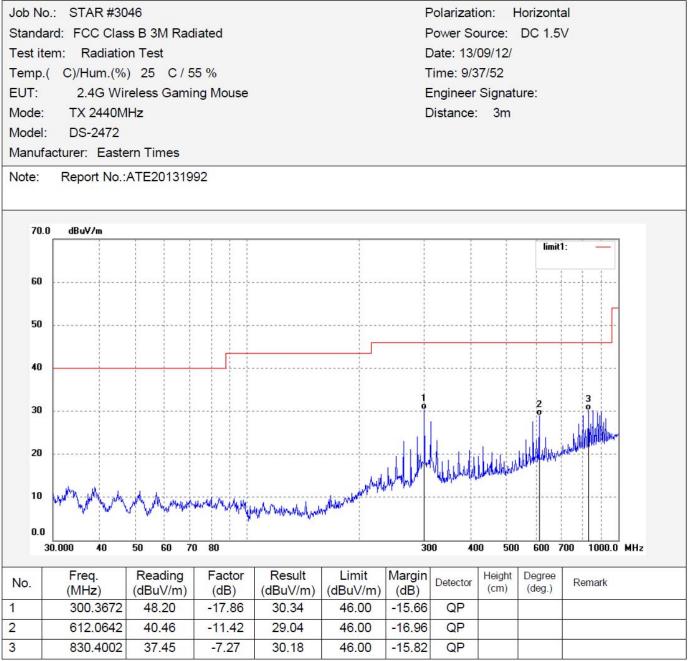


F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China





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





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

No.	: STAR #30	99				F	olarizati	on: H	Iorizonta	al
	rd: FCC Clas		F	Power So						
	m: Radiatio						Date: 13/			λά).
	C)/Hum.(%)		5 %				Time: 11			
T:		, eless Gamiı					Engineer		ure:	
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nufa	cturer: Easte	rn Times								
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	2440.000	93.46	-6.65	86.81	114.00	-27.19	100			
	2440.000	81.55	-6.65	74.90	94.00	-19.10	AVG			



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

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ob No	.: STAR #31	00				F	Polarizati	ion: \	/ertical	
Standa	rd: FCC Clas	s B 3M Radi	iated			F	Power So	ource:	DC 1.5	V
est ite	em: Radiatio	n Test				[Date: 13/	09/12/		
emp.(C)/Hum.(%)) 25 C/5	5 %			٦	Time: 11	/21/19		
UT:	2.4G Wir	eless Gamir	ng Mouse			E	Engineer	Signat	ure:	
/lode:	TX 2440M	Hz				[Distance:	3m		
Nodel:	DS-2472									
Manufa	acturer: Easte	rn Times								
Note:	Report No.:	ATE2013199	92							
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			-6.65	91.13	114.00	-22.87	peak			
	2440.000	97.78	-0.05	91.15	114.00	22.01	peak			



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

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	4880.000	48.33	-1.34	46.99	74.00	-27.01	peak			
	4880.000	44.55	-1.34	43.21	54.00	-10.79	AVG			
	7320.000	50.54	1.40	51.94	74.00	-22.06	peak			
			1.40	47.48	54.00	1	AVG	L.		



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

Job N	o.: star #3108				Natistiali Si		Polarizati		lorizonta	al
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4880.000	46.49	-1.38	45.11	74.00	-28.89	peak			
2	4880.000	42.12	-1.38	40.74	54.00	-13.26	AVG			
3	7320.000	47.09	1.40	48.49	74.00	-25.51	peak			
4	7320.000	43.61	1.40	45.01	54.00	-8.99	AVG			



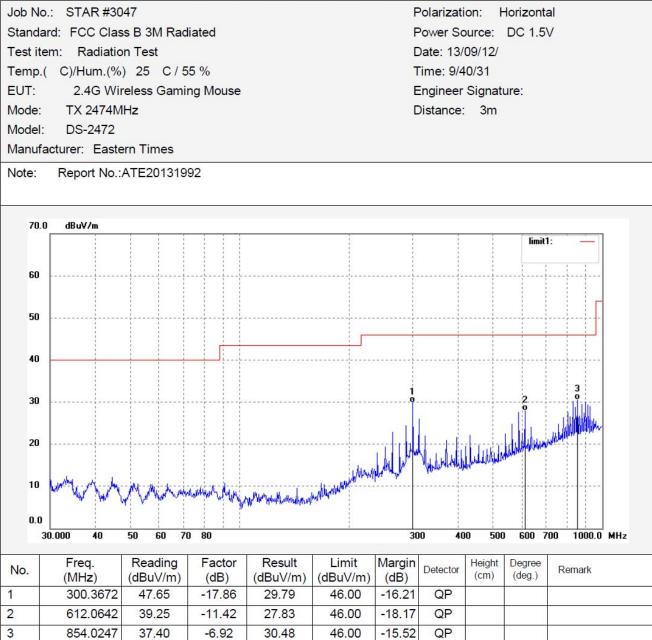
F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Job No.	.: STAR #31	111				F	Polarizatio	on: H	Horizonta	al
Standa	rd: FCC Cla	ss B 3M Radi	ated			F	Power So	urce:	DC 1.5	V
Test ite	m: Radiatio	on Test				C	Date: 13/0	09/12/		
Temp.(C)/Hum.(%) 25 C/5	5 %			٦	lime: 11/	57/34		
EUT:	2.4G Wi	reless Gamir	ng Mouse			E	Engineer	Signat	ure:	
Mode:	TX 2440M	1Hz				[Distance:	3m		
Model:	DS-2472									
Manufa	cturer: East	ern Times								
Note:	Report No.	ATE201319	92							
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No.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Detector	(cm)	(deg.)	Remark



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

Job No	b.: STAR #3	112				F	Polarizatio	n: \	/ertical	
Standa	ard: FCC Cla	ss B 3M Radi	iated			F	Power Sou	irce:	DC 1.5	V
Test ite	em: Radiatio	on Test				0	Date: 13/0	9/12/		
Temp.	(C)/Hum.(%) 25 C/5	5 %			Г	Time: 12/0	3/15		
EUT:	2.4G Wi	reless Gamir	ng Mouse			E	Engineer S	Signat	ure:	
Mode:	TX 2440N	1Hz				0	Distance:	3m		
Model:	DS-2472									
Manufa	acturer: East	ern Times								
Note:	Report No.	ATE201319	22							
NOLE.	Report No.	ATE2013138	52							
100	.0 dBuV/m									
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
		(ubuv/iii)	(UD)	(ubuv/ill)	(ubuv/m)	(UD)		(only	(409.)	

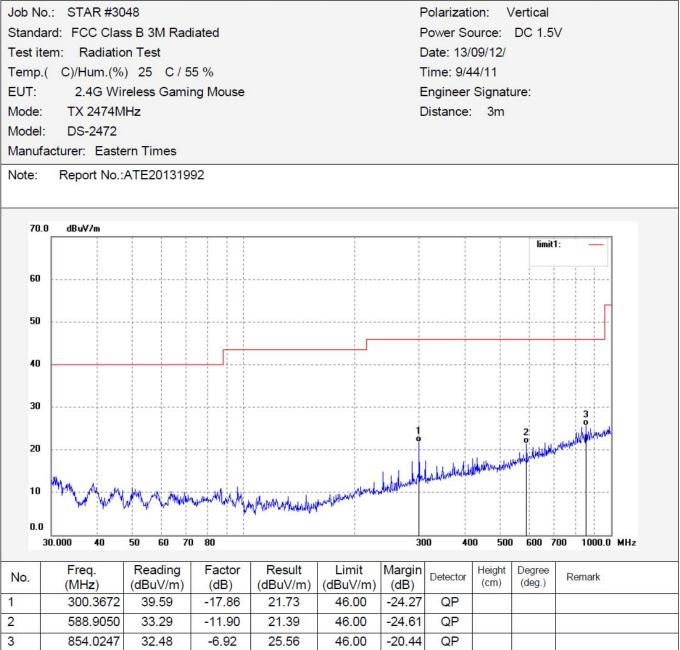


F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China





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

CTAD #24			101						
: STAR #31	01				F	Polarizati	on: H	lorizonta	al
d: FCC Clas	s B 3M Radi	iated			F	Power Sc	ource:	DC 1.5	V
m: Radiatio	n Test)ate: 13/	09/12/		
C)/Hum.(%)) 25 C/5	5 %			Т	ime: 11	24/58		
2.4G Wir	eless Gamir	ng Mouse			E	Ingineer	Signat	ure:	
TX 2474M	Hz					Distance:	3m		
DS-2472									
cturer: Easte	ern Times								
Report No.:	ATE2013199	92							
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		Factor (dB)				Detector			Remark
							1-111	13.1	
2474.000	94.32	-6.56	87.76	114.00	-26.24	peak			
	m: Radiatio C)/Hum.(% 2.4G Wir TX 2474M DS-2472 cturer: Easte Report No.:	m: Radiation Test C)/Hum.(%) 25 C / 5 2.4G Wireless Gamir TX 2474MHz DS-2472 cturer: Eastern Times Report No.:ATE2013199 0 dBuV/m	C)/Hum.(%) 25 C / 55 % 2.4G Wireless Gaming Mouse TX 2474MHz DS-2472 cturer: Eastern Times Report No.:ATE20131992 0 dBuV/m	m: Radiation Test C)/Hum.(%) 25 C / 55 % 2.4G Wireless Gaming Mouse TX 2474MHz DS-2472 cturer: Eastern Times Report No.:ATE20131992 0 dBuV/m dBuV/m Freq. Reading Factor Result	m: Radiation Test C)/Hum.(%) 25 C / 55 % 2.4G Wireless Gaming Mouse TX 2474MHz DS-2472 cturer: Eastern Times Report No.:ATE20131992 dBuV/m dBuV/m Freq. Reading Factor Result Limit	m: Radiation Test C)/Hum.(%) 25 C / 55 % 2.4G Wireless Gaming Mouse TX 2474MHz DS-2472 cturer: Eastern Times Report No.:ATE20131992 0 dBuV/m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	m: Radiation Test Date: 13/ C)/Hum.(%) 25 C / 55 % Time: 11/ 2.4G Wireless Gaming Mouse Engineer TX 2474MHz Distance: DS-2472 cturer: Eastern Times Report No.:ATE20131992 0 dBuV/m	m: Radiation Test Date: 13/09/12/ C)/Hum.(%) 25 C / 55 % Time: 11/24/58 2.4G Wireless Gaming Mouse Engineer Signat TX 2474MHz Distance: 3m DS-2472 cturer: Eastern Times Report No.:ATE20131992 0 dBuV/m 0 dBuV/m 0 dBuV/m 0 feter a figure	m: Radiation Test Date: 13/09/12/ C)/Hum.(%) 25 C / 55 % Time: 11/24/58 2.4G Wireless Gaming Mouse Engineer Signature: TX 2474MHz Distance: 3m DS-2472 cturer: Eastern Times Report No.:ATE20131992 3 dBuV/m 3 dBuV/m 5 d



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Job N	o.: STAR #31	02					Polarizati	on: \	/ertical		
Stand	ard: FCC Clas	s B 3M Rad	liated				Power Sc	ource:	DC 1.5	V	
Test i	tem: Radiatio	n Test					Date: 13/	09/12/			
Temp	.(C)/Hum.(%) 25 C/5	5 %				Time: 11/	28/10			
EUT:	2.4G Wi	reless Gami	ng Mouse				Engineer	Signat	ure:		
Mode	: TX 2474M	Hz					Distance:	3m			
Mode	I: DS-2472										
Manu	facturer: Easte	ern Times									
Note:	Report No.:	ATE201319	92								
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10	0.0 dBuV/m								limit	1]	
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	1000.000							3000	D	4000.0	MHz
Nie	Freq.	Reading	Factor	Result	Limit	Margin	Detector	Height	Degree	Domork	
No.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Detector	(cm)	(deg.)	Remark	
1	2474.000	99.55	-6.56	92.99	114.00	-21.01	a possicilar and				
2	2474.000	87.82	-6.56	81.26	94.00	-12.74	AVG				



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lah N	lo.: star #3103	S		dustry Park,		10	Polarizati	c 98	/ertical	
	ard: FCC Clas		inted				ower Sc			1
			lated						DC 1.5	V
	item: Radiatio		F 0/)ate: 13/			
	o.(C)/Hum.(%	·					ime: 11/			
EUT:		eless Gami	ng Mouse				ngineer		ure:	
Mode		Hz)istance:	3m		
Mode										
Manu	facturer: Easte	ern Times								
Note:	Report No.:	ATE201319	92							
11	00.0 dBu∀/m									
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22		1 1 1				1				
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0.	4000.000	5000	6000	7000 80	00	10000				18000.0 MHz
	4000.000	5000	6000	7000 80	00	10000				18000.0 MH2
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4948.000	48.69	-1.15	47.54	74.00	-26.46	peak			
2	4948.000	44.20	-1.15	43.05	54.00	-10.95	AVG			
3	7422.000	50.51	1.49	52.00	74.00	-22.00	peak			
4	7422.000	45.32	1.49	46.81	54.00	-7.19	AVG			



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Job No	.: star #3104	ŧ.				F	Polarizati	ion: H	Horizonta	al
Standa	rd: FCC Clas	s B 3M Rad	liated			F	Power So	ource:	DC 1.5	V
Test ite	em: Radiatio	n Test				C	Date: 13/	09/12/		
Temp.(C)/Hum.(%) 25 C/5	5 %			г	lime: 11/	/35/17		
EUT:	2.4G Wi	reless Gami	ng Mouse			E	Engineer	Signat	ure:	
Mode:	TX 2474M	IHz				0	Distance:	3m		
Model:	DS-2472									
Manufa	acturer: Easte	ern Times								
Note:	Report No.:	ATE201319	92							
100.	0 dBuV/m									
		1							limit1	: <u> </u>
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4	000.000	5000	6000	7000 80	00	10000				18000.0 MHz
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4948.000	46.54	-1.15	45.39	74.00	-28.61				
2	4948.000	41.22	-1.15	40.07	54.00	-13.93	a mana ya			
3	7422.000	48.03	1.49	49.52	74.00	-24.48				
1	7422.000	44.39	1.49	45.88	54.00	- <mark>8.12</mark>	AVG			



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Job N	o.: STAR #3	113				F	Polarizati	on: 🛝	/ertical	
Stand	ard: FCC Cla	ss B 3M Rad	iated			F	ower Sc	urce:	DC 1.5	v
	em: Radiatio						Date: 13/			
	.(C)/Hum.(%		5 %				Time: 12/			
EUT:		reless Gami					Ingineer		ire.	
Mode			ig modee				Distance:			
Model						-	notarioo.	onn		
	acturer: East	ern Times								
			00							
Note:	Report No.	ATE201319	92							
10	0.0 dBuV/m									
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0.0	18000.000		2000	n						25000.0 MHz
										2000.0 MIT2
No.	Freq.	Reading	Factor	Result	Limit	Margin	Detector	Height	Degree	Remark
122342322	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	



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Job N	o.: STAR #31	14				F	Polarizati	on: H	orizont	al
Stand	ard: FCC Clas	ss B 3M Radi	ated			F	Power Sc	ource:	DC 1.5	V
Test it	em: Radiatio	on Test					Date: 13/	09/12/		
Temp	.(C)/Hum.(%) 25 C/5	5 %			г	ime: 12/	10/18		
EUT:	2.4G Wi	reless Gamir	ng Mouse			E	Ingineer	Signat	ure:	
Mode:	TX 2474M	IHz				0	Distance:	3m		
Mode	: DS-2472									
Manut	acturer: Easte	ern Times								
Note:	Report No.:	ATE2013199	92							
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10	0.0 dBuV/m								limit	
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	18000.000		2000	U						25000.0 MHz
No.	Freq.	Reading	Factor	Result	Limit	Margin	Detector	Height	Degree	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	1.1100.000.000	(cm)	(deg.)	



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		Sci	ence & Inc	dustry Park,	Nanshan Sh	nenzhen.	P.R.Chi	na	Гах	+60-0755-2050558
ob N	o.: STAR #31	35				F	Polarizati	on: H	Horizont	al
stand	ard: FCC PK					F	Power Sc	ource:	DC 1.5	V
est if	tem: Radiatio	n Test				0	Date: 13/	09/13/		
emp	.(<mark>C)/Hum.(%</mark>) 25 C/5	5 %			Т	Time: 10/	/ <mark>58/31</mark>		
UT:	2.4G Wir	reless Gamir	ng Mouse			E	Engineer	Signat	ure:	
lode	TX 2408M	Hz				0	Distance:	3m		
lode	: DS-2472									
lanut	facturer: Easte	ern Times								
lote:	Report No.:	ATE201319	92							
10	0.0 dBu∀/m									
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	2300.000									2440.0 MHz
lo.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
	2310.000	46.11	-6.99	39.12	74.00	-34.88	peak			
	2310.000	35.54	-6.99	28.55	54.00	-25.45	AVG			
	2353.620	47.50	-6.88	40.62	74.00	-33.38	peak			
2	2353.620	34.85	-6.88	27.97	54.00	-26.03				
				Concerns and the second				12	12 (A)	
	2390.000	43.34	-6.78	36.56	74.00	-37.44	peak			



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				ustry Park,	varishari Si				T GA	
	No.: STAR #31	36				F	Polarizati	on: \	/ertical	
Stan	dard: FCC PK					F	Power Sc	ource:	DC 1.5	V
Test	item: Radiatio	n Test				[Date: 13/	09/13/		
Tem	p.(C)/Hum.(%) 25 C/5	5 %			٦	Fime: 11/	/02/54		
EUT:	2.4G Wir	eless Gami	ng Mouse			E	Engineer	Signati	ure:	
Mode	e: TX 2408M	Hz				0	Distance:	3m		
Mode	el: DS-2472									
Manu	ufacturer: Easte	ern Times								
Note	: Report No.:	ATE201319	92							
1	00.0 dBu∀/m									
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	2300.000									2440.0 MHz
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)		Delector	Height (cm)	Degree (deg.)	Remark
1	2310.000	44.89	-6.99	37.90	74.00	-36.10				
2	2310.000	33.20	-6.99	26.21	54.00	-27.79	AVG			
3	2382.600	47.30	-6.81	40.49	74.00	-33.51	peak			
4	2382.600	35.67	-6.81	28.86	54.00	-25.14	AVG			
-	2390.000	44.71	-6.78	37.93	74.00	-36.07	peak			
5	2000.000									



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Job No.: STAR #3137							Polarizati		ertical	
Standard: FCC PK							Power Sc	ource:	DC 1.5\	V
Test item: Radiation Test							Date: 13/	09/13/		
Temp.(C)/Hum.(%) 25 C / 55 %							ime: 11/	06/03		
EUT: 2.4G Wireless Gaming Mouse							Ingineer	Signati	ure:	
Mode:	TX 2474M	IHz				0)istance:	3m		
Model	: DS-2472									
Manuf	acturer: Easte	ern Times								
Note:	Report No.:	ATE201319	92							
100).0 dBu∀/m									
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	2440.000									2600.0 MHz
	Freq.	Reading	Factor	Result	Limit	Margin		Height	Degree	
No.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Detector	(cm)	(deg.)	Remark
1	2483.500	56.40	-6.54	49.86	74.00	-24.14	peak			
2	2483.500	46.34	-6.54	39.80	54.00	-14.20	AVG			
3	2487.520	62.46	-6.52	55.94	74.00	-18.06	peak			
4	2487.520	50.08	-6.52	43.56	54.00	-10.44	AVG			
5	2500.000	45.23	-6.50	38.73	74.00	-35.27	peak			
6	2500.000	34.11	-6.50	27.61	54.00	-26.39	AVG			
-										



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Job N	o.: STAR #31	38				F	Polarizati	on: H	orizonta	al			
Standard: FCC PK							Power Source: DC 1.5V						
Test item: Radiation Test							Date: 13/09/13/						
Temp.(C)/Hum.(%) 25 C / 55 %							Time: 11	11/39					
EUT: 2.4G Wireless Gaming Mouse							Ingineer	Signat	ure:				
Mode	: TX 2474M	Hz				C	Distance:	3m					
Mode	I: DS-2472												
Manut	facturer: Easte	ern Times											
Note:	Report No.:	ATE201310	02										
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1.00	Freq.	Reading	Factor	Result	Limit	Margin		Height	Degree	Anna an			
No.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)		(dB)	Detector	(cm)	(deg.)	Remark			
1	2483.500	51.12	-6.54	44.58	74.00	-29.42	peak						
2	2483.500	41.25	-6.54	34.71	54.00	-19.29	AVG						
3	2484.480	58.24	-6.54	51.70	74.00	-22.30	peak						
1	2484.480	46.89	-6.54	40.35	54.00	- <mark>1</mark> 3.65	AVG						
6		43.45	-6.50	36.95	74.00	-37.05	peak	A					
5	2500.000	43.45	-0.50	50.55	14.00	-51.05	pean						