

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 : Eastern Times Technology Co., Ltd.
Address : Building D, Nan An Industry Park, Youganpu Village
Fenggang Town, Dongguan City, 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

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

Measurement Procedure Used:

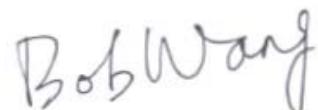
**FCC Rules and Regulations Part 15 Subpart C Section 15.249
ANSI C63.4: 2009**

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 Section 15.249 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 :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : 2.4G Wireless Gaming Mouse
 Model Number : 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×)
 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 : 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

1.3.Measurement Uncertainty

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

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)

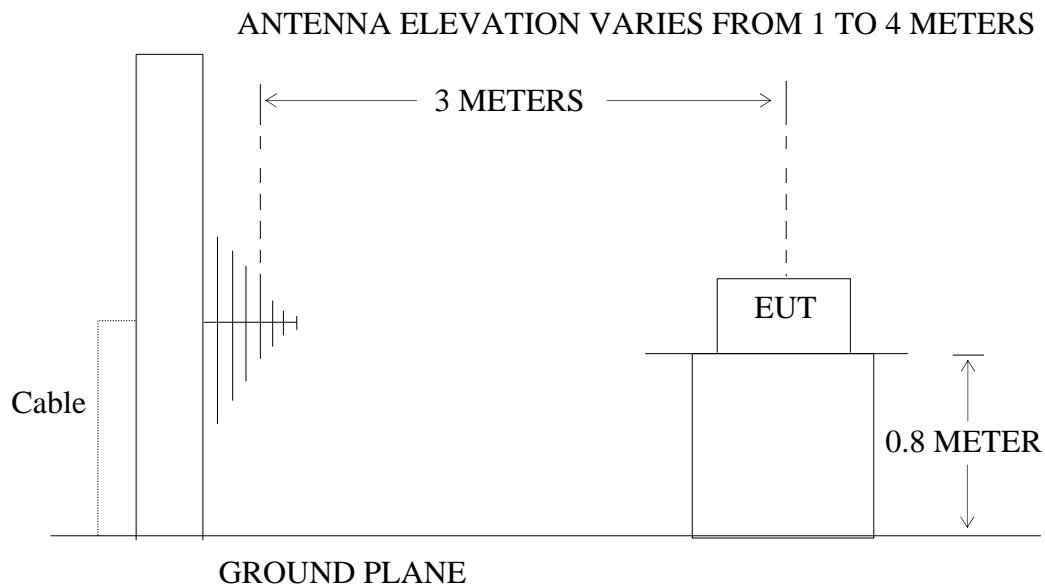
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: 2.4G Wireless Gaming Mouse)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(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 Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of harmonics (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 (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		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 (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	<u>September 12, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>2.4G Wireless Gaming Mouse</u>	Humidity:	<u>50%</u>
Model No.:	<u>DS-2472</u>	Power Supply:	<u>DC 1.5V</u>
Test Mode:	<u>TX 2440.000MHz</u>	Test Engineer:	<u>Pei</u>

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		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(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	<u>September 12, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>2.4G Wireless Gaming Mouse</u>	Humidity:	<u>50%</u>
Model No.:	<u>DS-2472</u>	Power Supply:	<u>DC 1.5V</u>
Test Mode:	<u>TX 2474.000MHz</u>	Test Engineer:	<u>Pei</u>

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		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(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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

3. The spectral diagrams in appendix I display the measurement of peak values.

5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

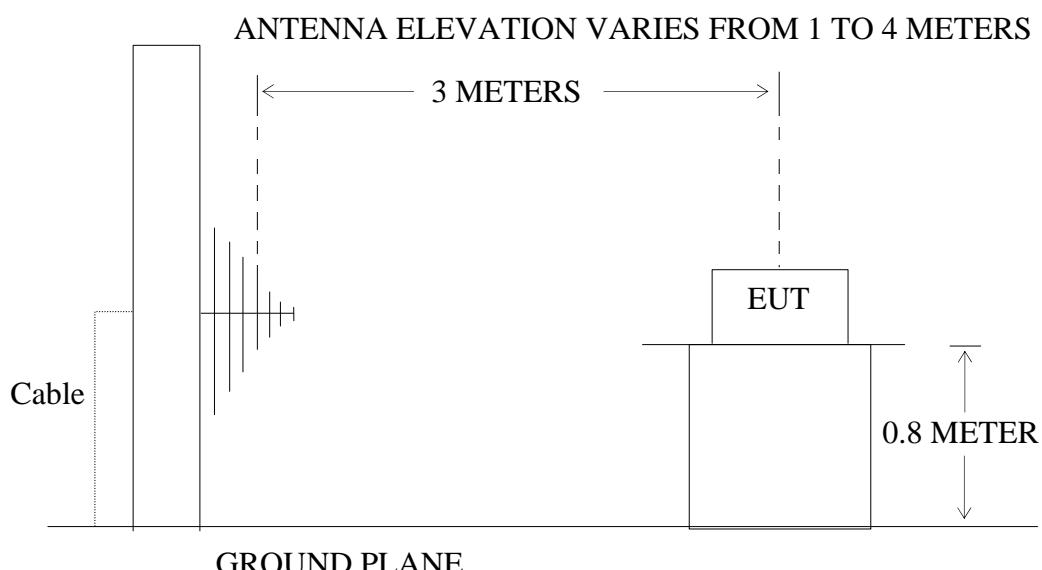
5.1. Block Diagram of Test Setup

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



(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.

Radiation Emission Measurement Limits According to Section 15.209

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

0.490 – 1.705	24000/F(kHz)	30	Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
1.705 – 30.0	30	30	
30 - 88	100	3	
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 (MHz)	Reading (dB μ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			(dB μ V/m)	(dB μ V/m)	(dB)	
QP	QP	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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	<u>September 12, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>2.4G Wireless Gaming Mouse</u>	Humidity:	<u>50%</u>
Model No.:	<u>DS-2472</u>	Power Supply:	<u>DC 1.5V</u>
Test Mode:	<u>TX 2440.000MHz</u>	Test Engineer:	<u>Pei</u>

30MHz-25GH

Frequency (MHz)	Reading (dB μ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			(dB μ V/m)	(dB μ V/m)	(dB)	
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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	<u>September 12, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>2.4G Wireless Gaming Mouse</u>	Humidity:	<u>50%</u>
Model No.:	<u>DS-2472</u>	Power Supply:	<u>DC 1.5V</u>
Test Mode:	<u>TX 2474.000MHz</u>	Test Engineer:	<u>Pei</u>

30MHz-25GH

Frequency (MHz)	Reading (dB μ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			(dB μ V/m)	(dB μ V/m)	(dB)	
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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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

3. The spectral diagrams in appendix I display the measurement of peak values.

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 (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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

3. The spectral diagrams in appendix I display the measurement of peak values.

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 (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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

3. The spectral diagrams in appendix I display the measurement of peak values.

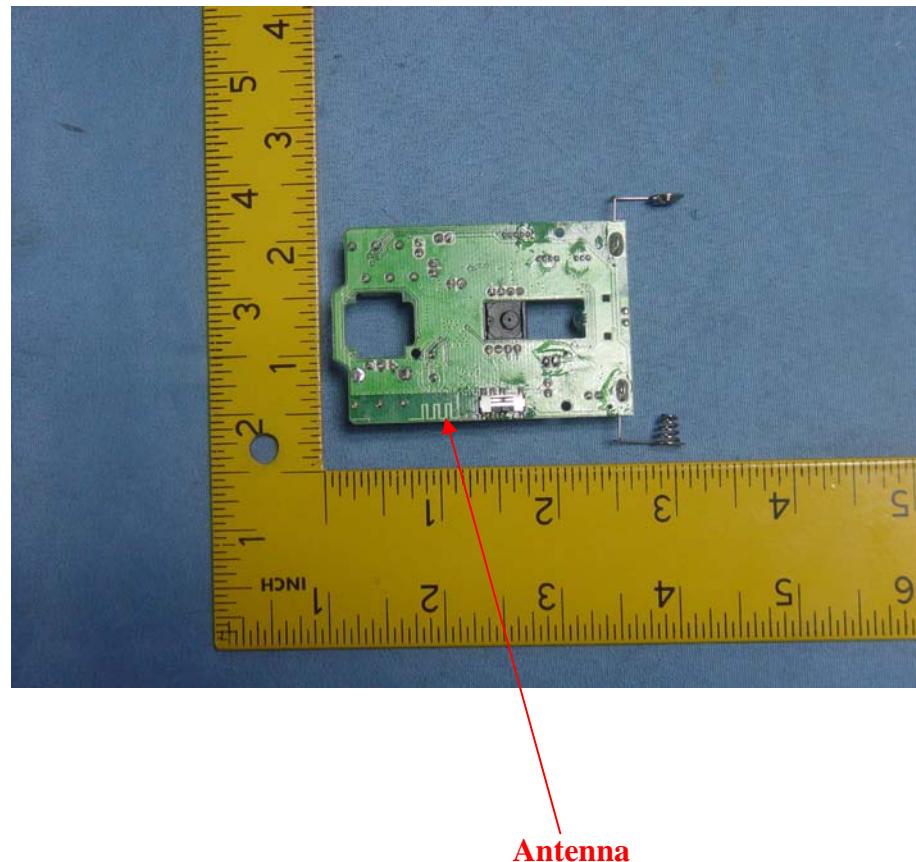
7. ANTENNA REQUIREMENT

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)


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

Job No.: STAR #3043

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/28/48

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

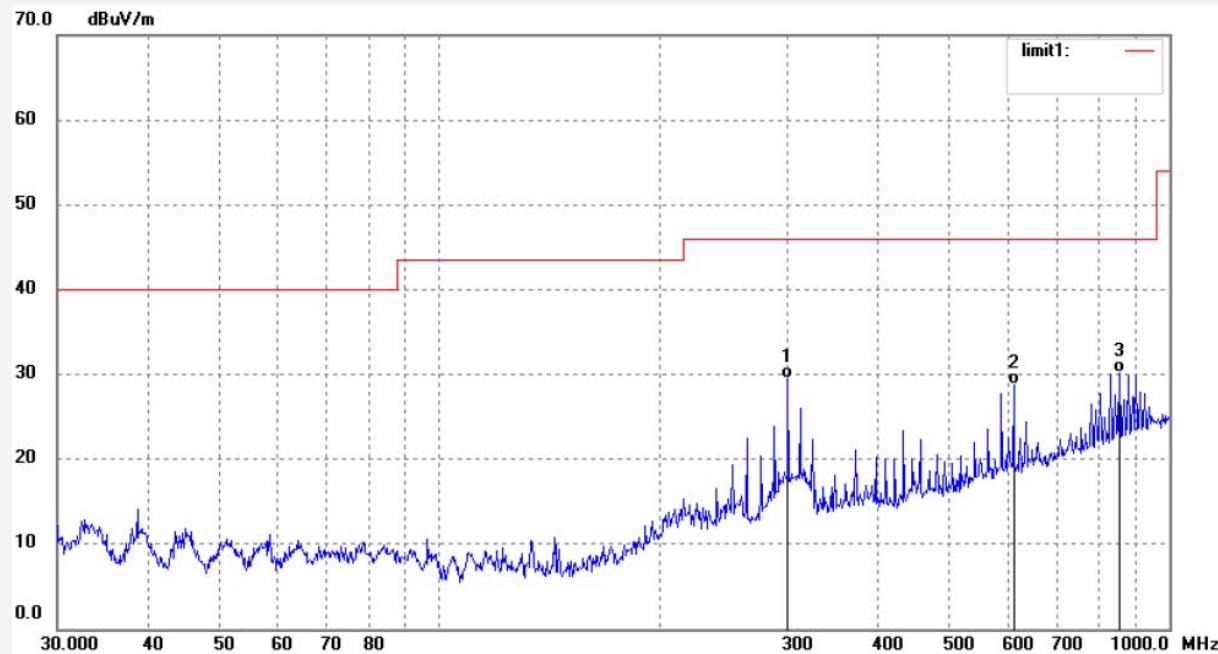
Mode: TX 2408MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	300.3672	47.37	-17.86	29.51	46.00	-16.49	QP			
2	612.0642	40.27	-11.42	28.85	46.00	-17.15	QP			
3	854.0247	37.10	-6.92	30.18	46.00	-15.82	QP			


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 Fax:+86-0755-26503396

Job No.: STAR #3044

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/31/32

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

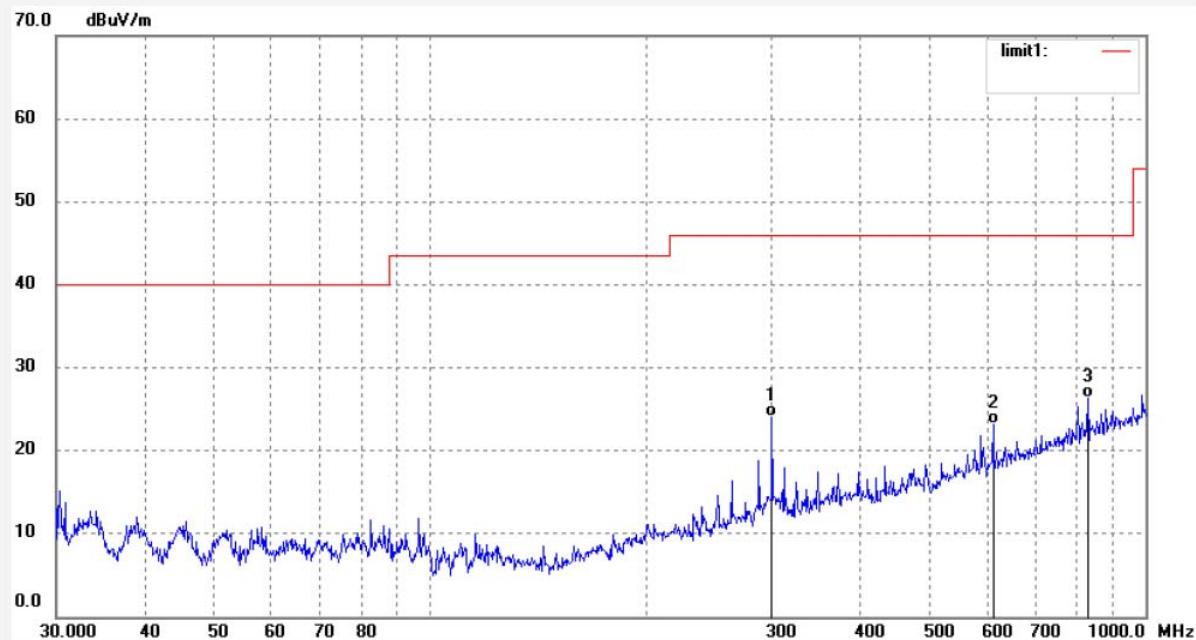
Mode: TX 2408MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	300.3672	41.91	-17.86	24.05	46.00	-21.95	QP			
2	612.0642	34.57	-11.42	23.15	46.00	-22.85	QP			
3	830.4002	33.55	-7.27	26.28	46.00	-19.72	QP			


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Fax:+86-0755-26503396

Job No.: STAR #3097

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp. (C)/Hum.(%) 25 C / 55 %

Time: 11/11/36

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

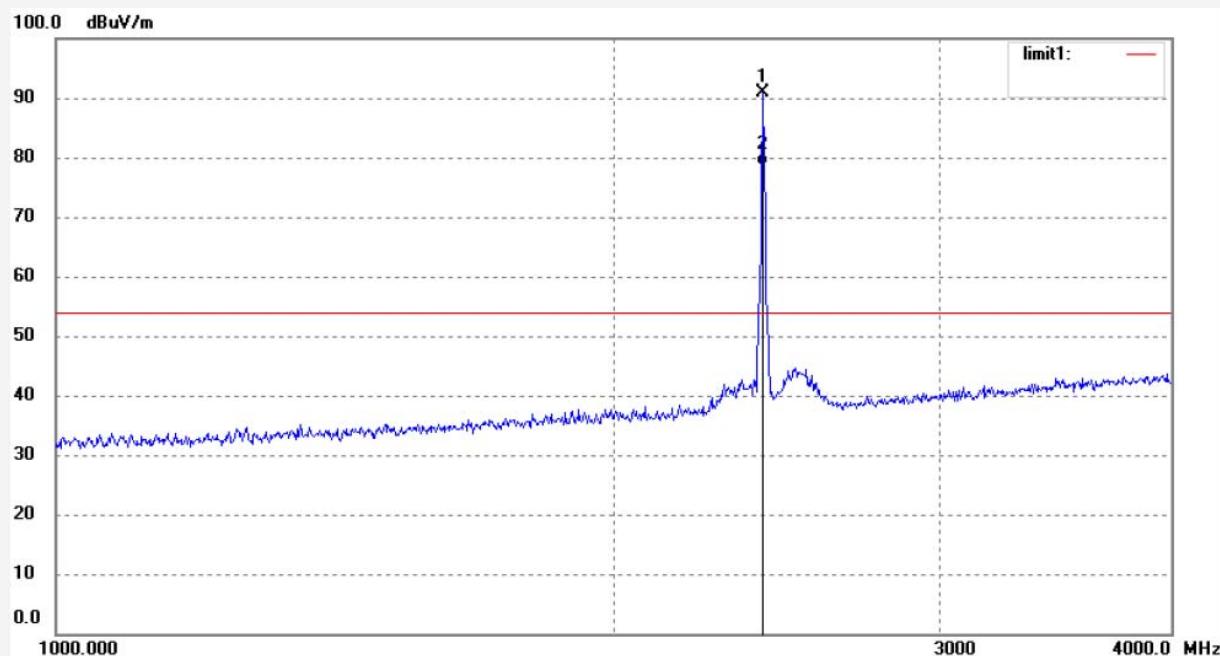
Mode: TX 2408MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	97.63	-6.74	90.89	114.00	-23.11	peak			
2	2408.000	85.45	-6.74	78.71	94.00	-15.29	AVG			


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 Fax:+86-0755-26503396

Job No.: STAR #3098

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/14/44

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

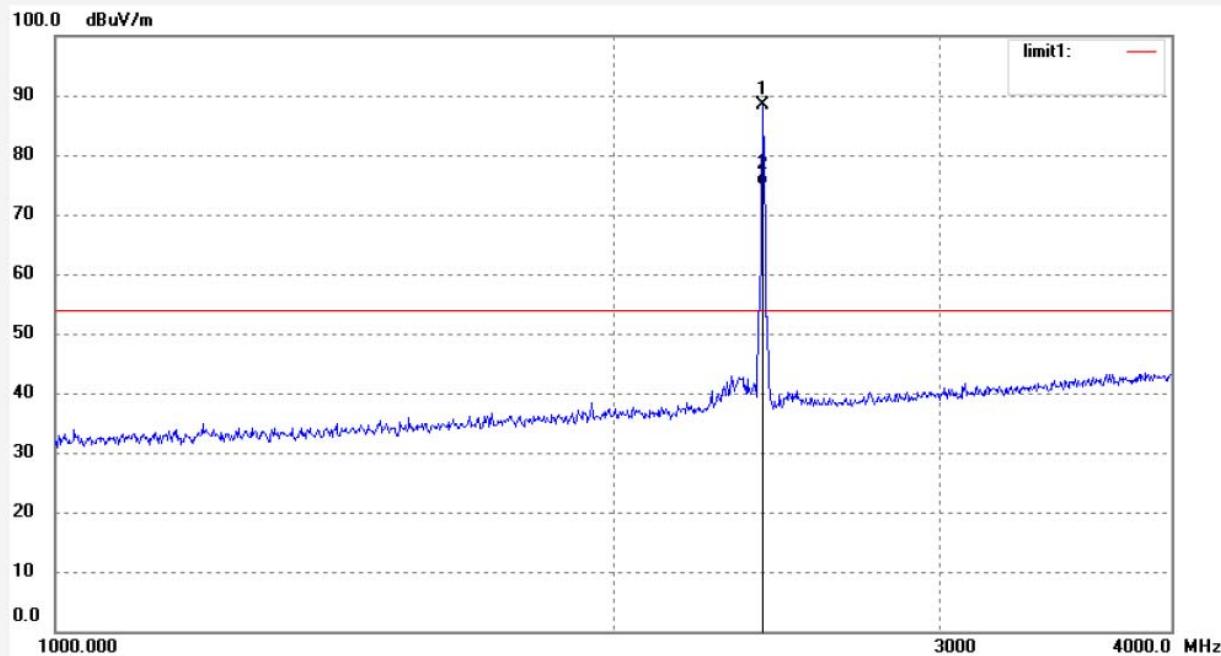
Mode: TX 2408MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	95.03	-6.74	88.29	114.00	-25.71	peak			
2	2408.000	81.58	-6.74	74.84	94.00	-19.16	AVG			


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Fax:+86-0755-26503396

Job No.: star #3105

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11:38:48

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

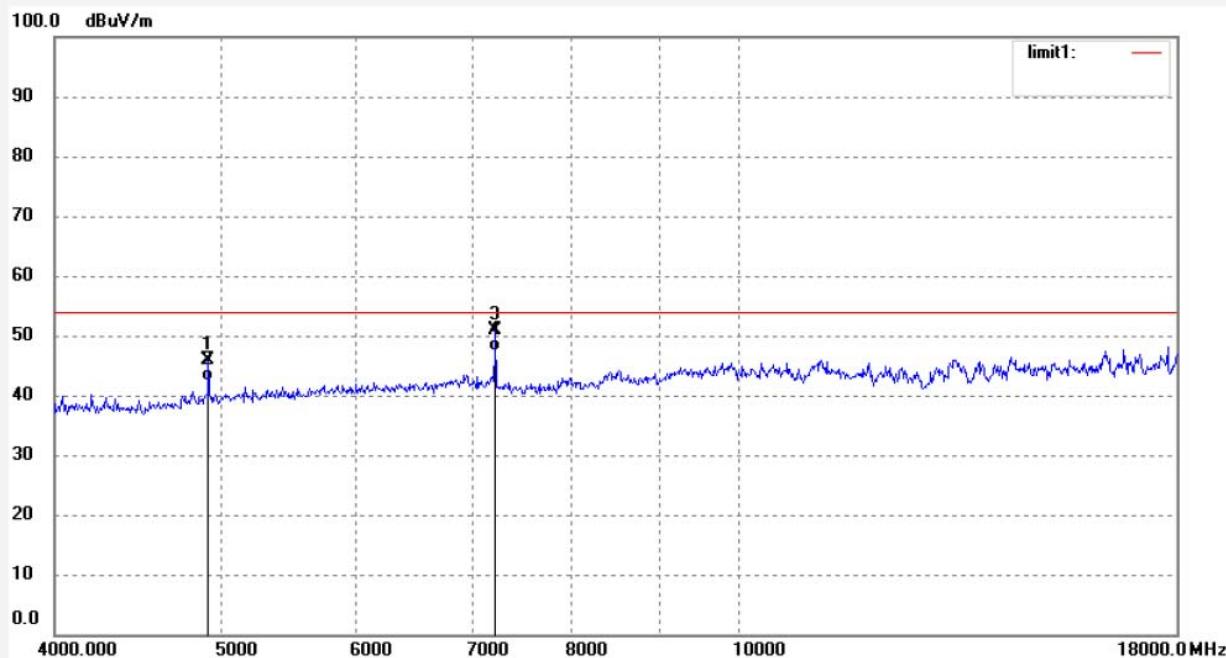
Mode: TX 2408MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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			
3	7224.000	49.49	1.31	50.80	74.00	-23.20	peak			
4	7224.000	46.00	1.31	47.31	54.00	-6.69	AVG			


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 Fax:+86-0755-26503396

Job No.: star #3106

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/41/13

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

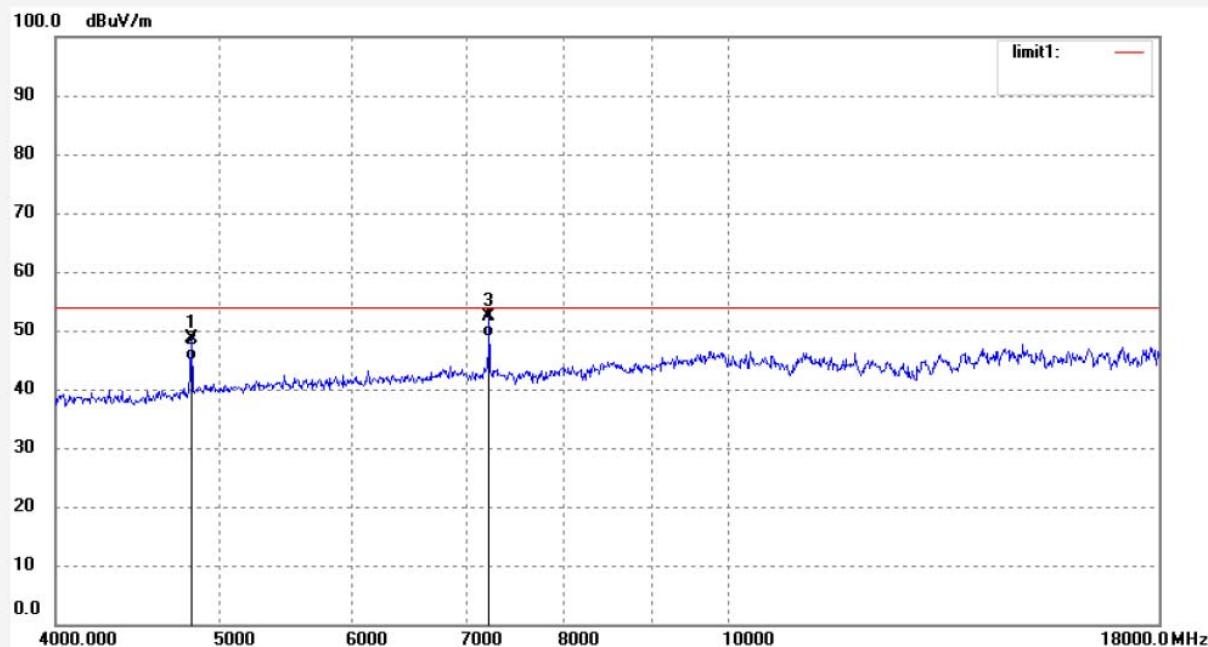
Mode: TX 2408MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4816.000	50.30	-1.56	48.74	74.00	-25.26	peak			
2	4816.000	46.50	-1.56	44.94	54.00	-9.06	AVG			
3	7224.000	51.04	1.31	52.35	74.00	-21.65	peak			
4	7224.000	47.47	1.31	48.78	54.00	-5.22	AVG			


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Fax:+86-0755-26503396

Job No.: STAR #3109

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp. (C)/Hum.(%) 25 C / 55 %

Time: 11/50/36

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

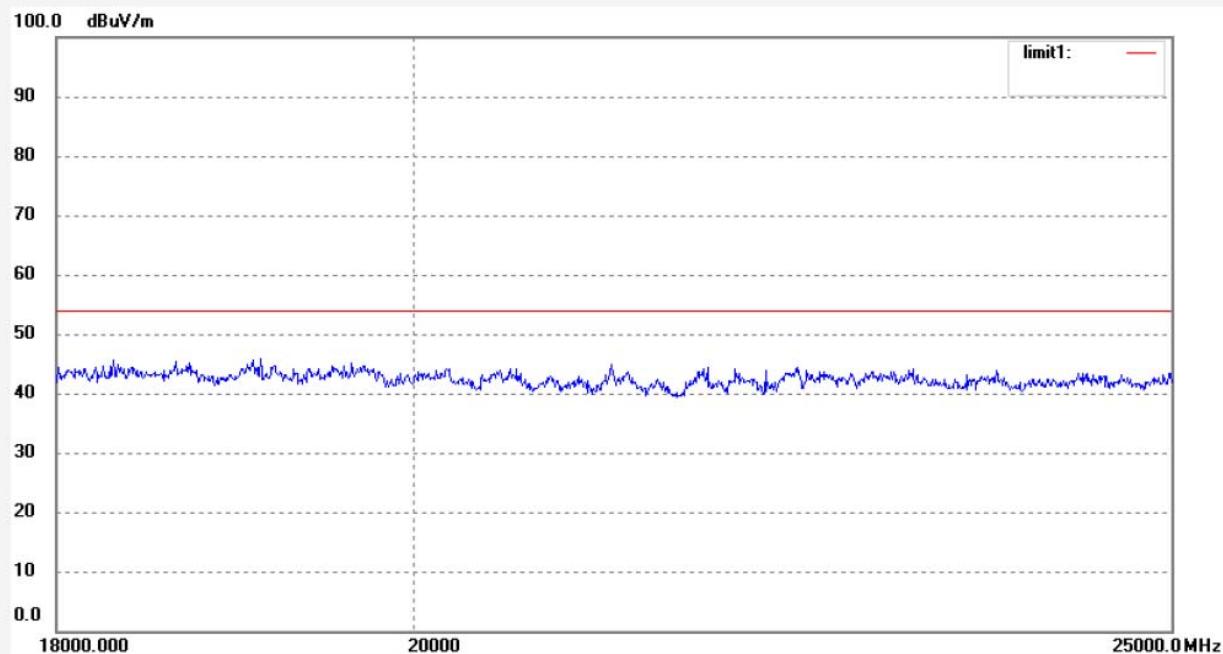
Mode: TX 2408MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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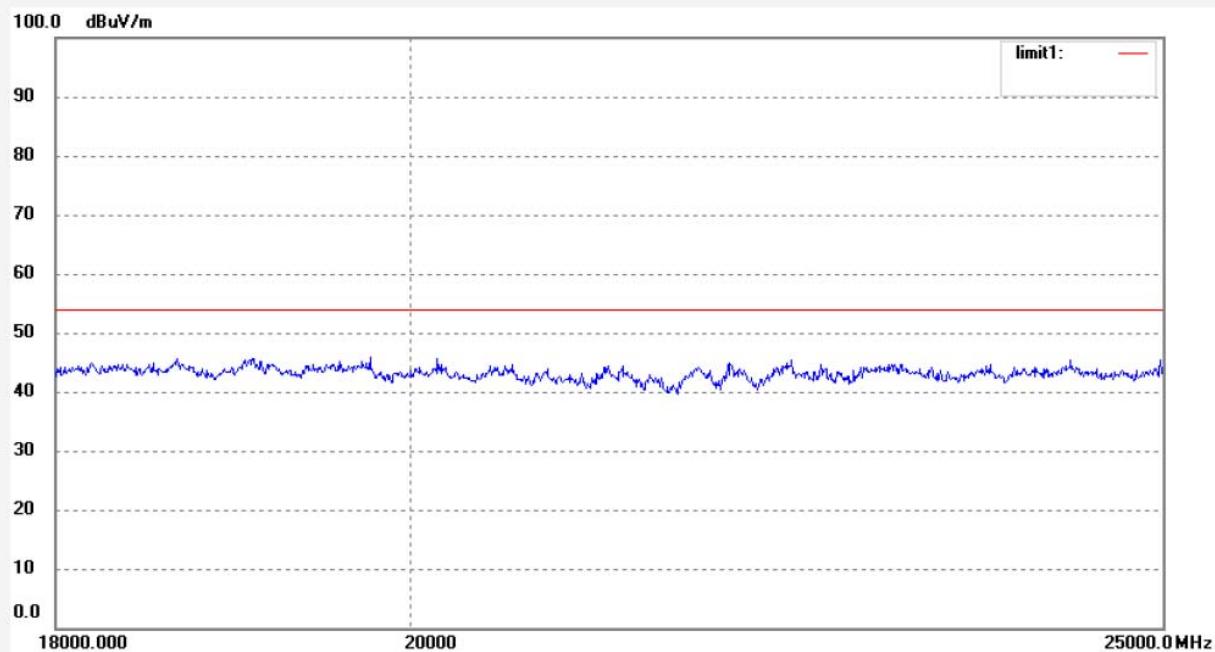
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 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: STAR #3110
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: 2.4G Wireless Gaming Mouse
 Mode: TX 2408MHz
 Model: DS-2472
 Manufacturer: Eastern Times

Polarization: Horizontal
 Power Source: DC 1.5V
 Date: 13/09/12/
 Time: 11:54:05
 Engineer Signature:
 Distance: 3m

Note: Report No.:ATE20131992



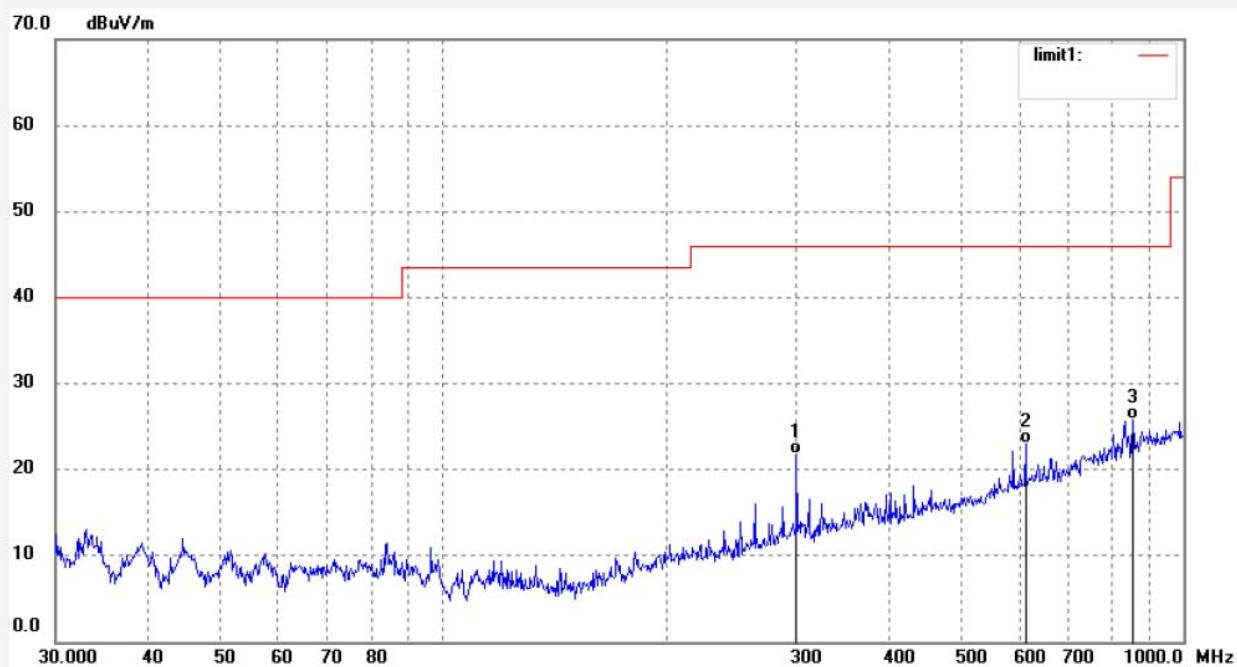
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Fax:+86-0755-26503396

Job No.: STAR #3045	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 13/09/12/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/34/08
EUT: 2.4G Wireless Gaming Mouse	Engineer Signature:
Mode: TX 2440MHz	Distance: 3m
Model: DS-2472	
Manufacturer: Eastern Times	
Note: Report No.:ATE20131992	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	300.3672	39.60	-17.86	21.74	46.00	-24.26	QP			
2	612.0642	34.48	-11.42	23.06	46.00	-22.94	QP			
3	854.0247	32.70	-6.92	25.78	46.00	-20.22	QP			


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Fax:+86-0755-26503396

Job No.: STAR #3046

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/37/52

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

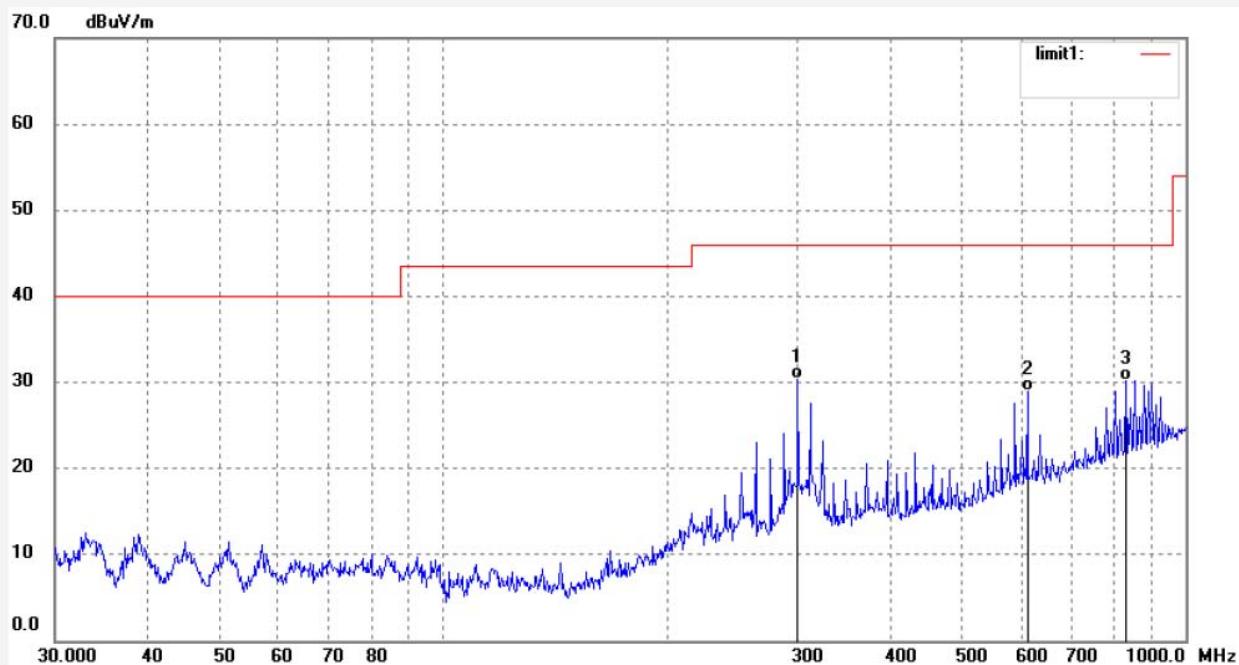
Mode: TX 2440MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	300.3672	48.20	-17.86	30.34	46.00	-15.66	QP			
2	612.0642	40.46	-11.42	29.04	46.00	-16.96	QP			
3	830.4002	37.45	-7.27	30.18	46.00	-15.82	QP			


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Fax:+86-0755-26503396

Job No.: STAR #3099

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/18/00

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

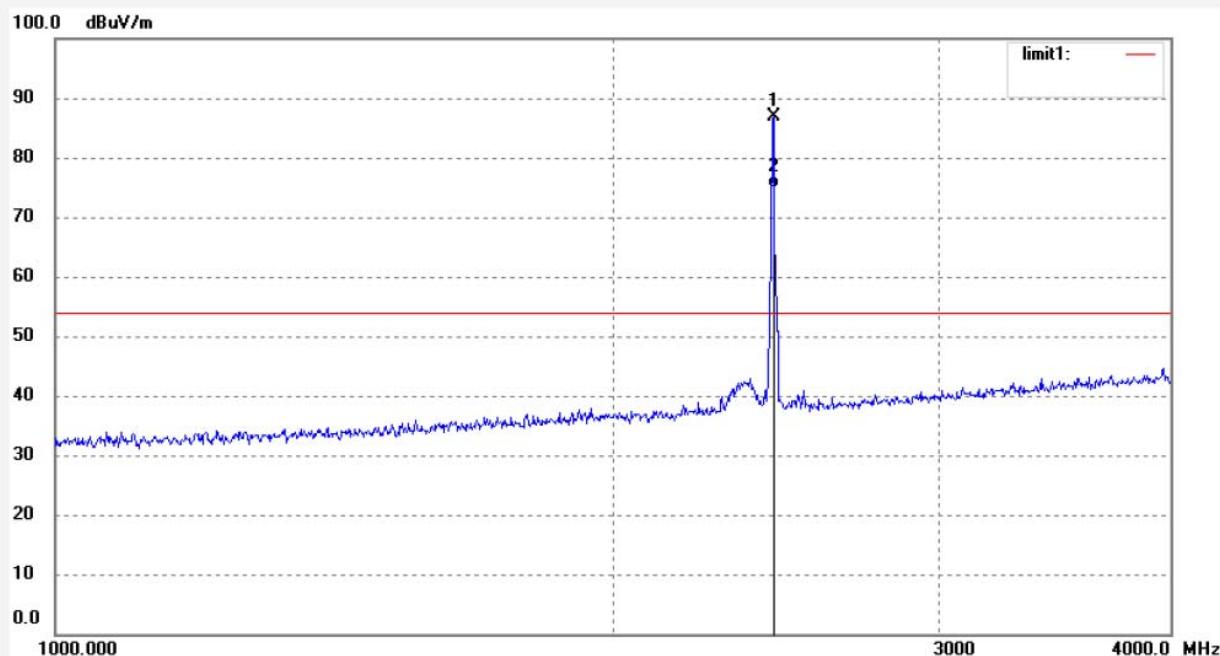
Mode: TX 2440MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	93.46	-6.65	86.81	114.00	-27.19	peak			
2	2440.000	81.55	-6.65	74.90	94.00	-19.10	AVG			


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Fax:+86-0755-26503396

Job No.: STAR #3100

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/21/19

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

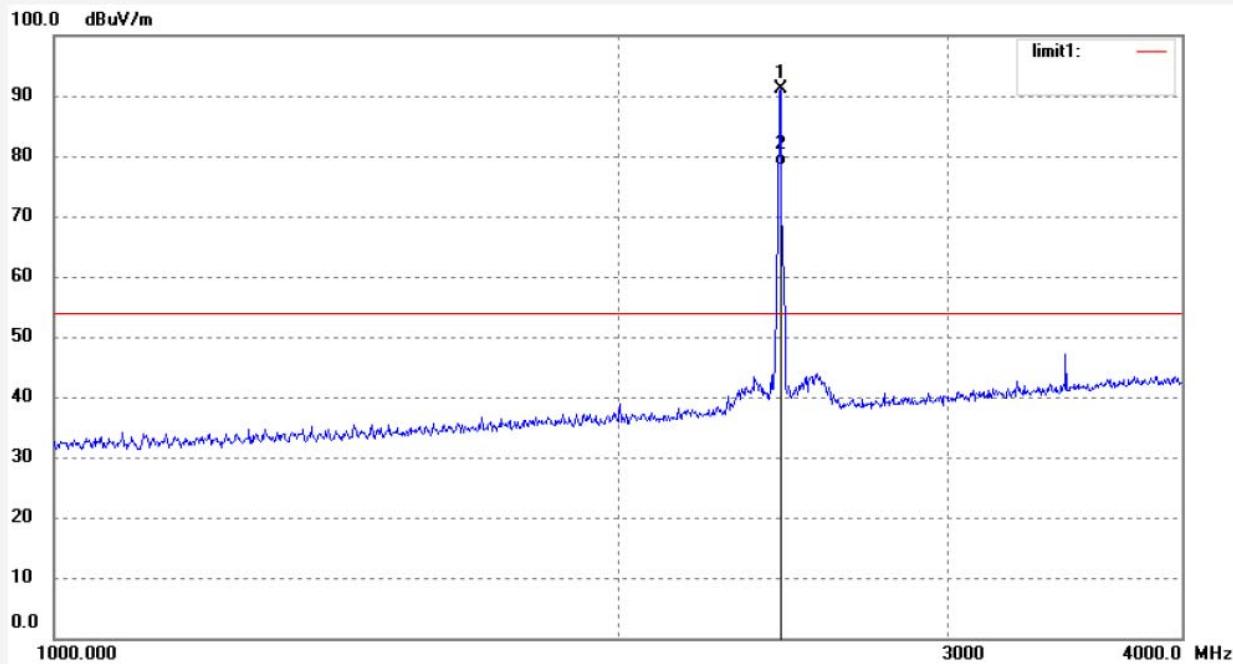
Mode: TX 2440MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	97.78	-6.65	91.13	114.00	-22.87	peak			
2	2440.000	84.94	-6.65	78.29	94.00	-15.71	AVG			


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Fax:+86-0755-26503396

Job No.: star #3107

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/44/53

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

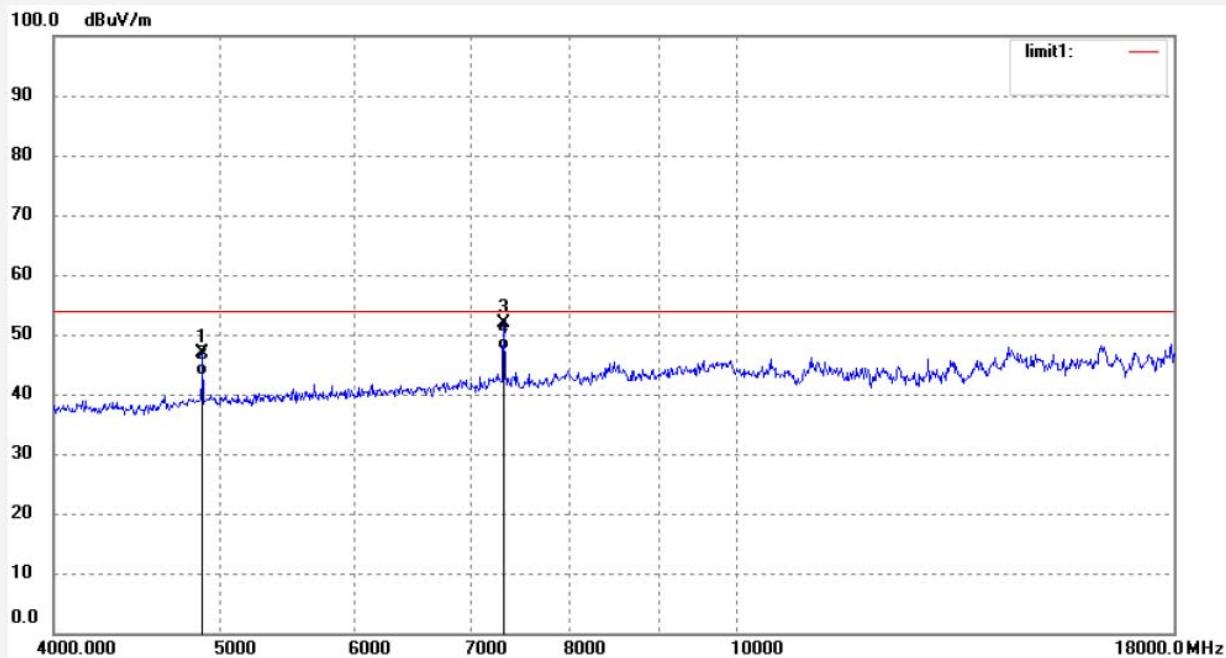
Mode: TX 2440MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	48.33	-1.34	46.99	74.00	-27.01	peak			
2	4880.000	44.55	-1.34	43.21	54.00	-10.79	AVG			
3	7320.000	50.54	1.40	51.94	74.00	-22.06	peak			
4	7320.000	46.08	1.40	47.48	54.00	-6.52	AVG			


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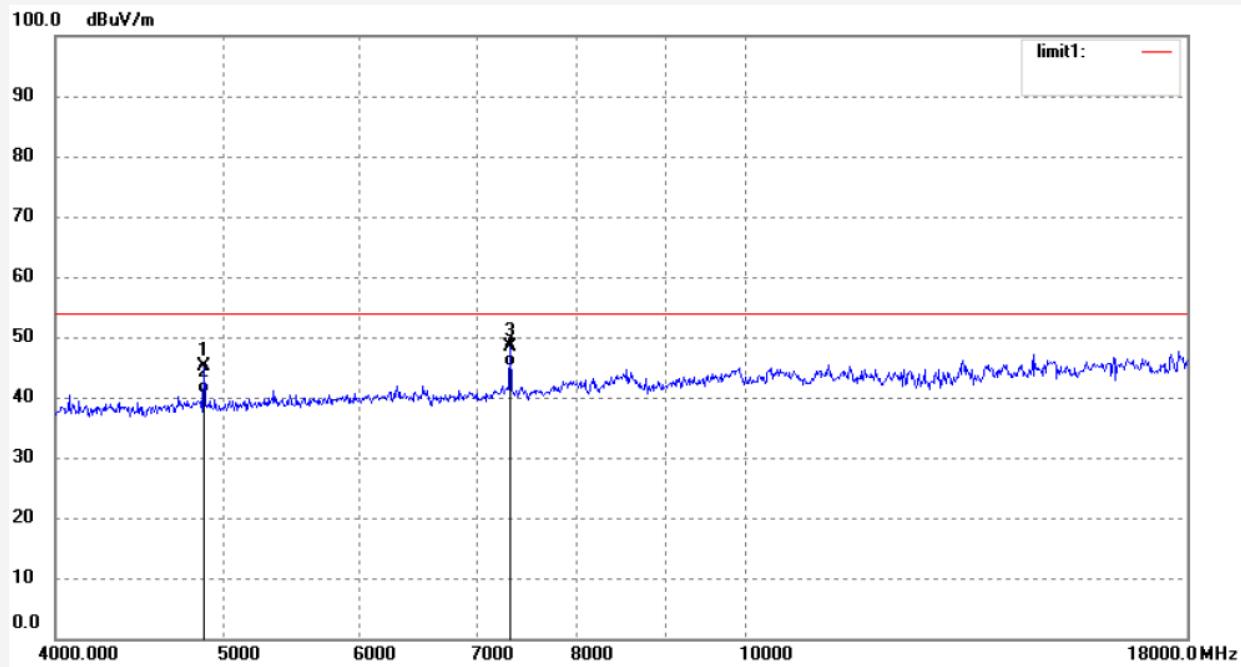
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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	star #3108	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 1.5V
Test item:	Radiation Test	Date:	13/09/12/
Temp.(C)/Hum.(%)	25 C / 55 %	Time:	11/47/14
EUT:	2.4G Wireless Gaming Mouse	Engineer Signature:	
Mode:	TX 2440MHz	Distance:	3m
Model:	DS-2472		
Manufacturer:	Eastern Times		
Note:	Report No.:ATE20131992		



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			


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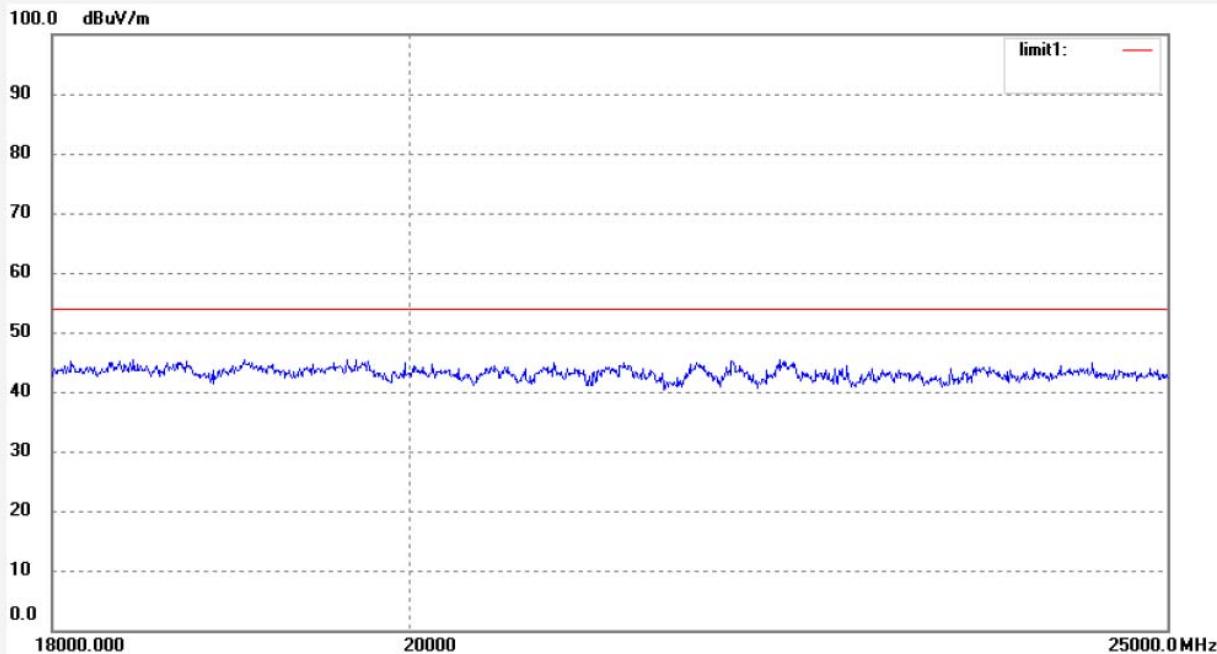
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR #3111
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: 2.4G Wireless Gaming Mouse
 Mode: TX 2440MHz
 Model: DS-2472
 Manufacturer: Eastern Times

Polarization: Horizontal
 Power Source: DC 1.5V
 Date: 13/09/12/
 Time: 11:57:34
 Engineer Signature:
 Distance: 3m

Note: Report No.:ATE20131992



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: STAR #3112

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 12/03/15

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

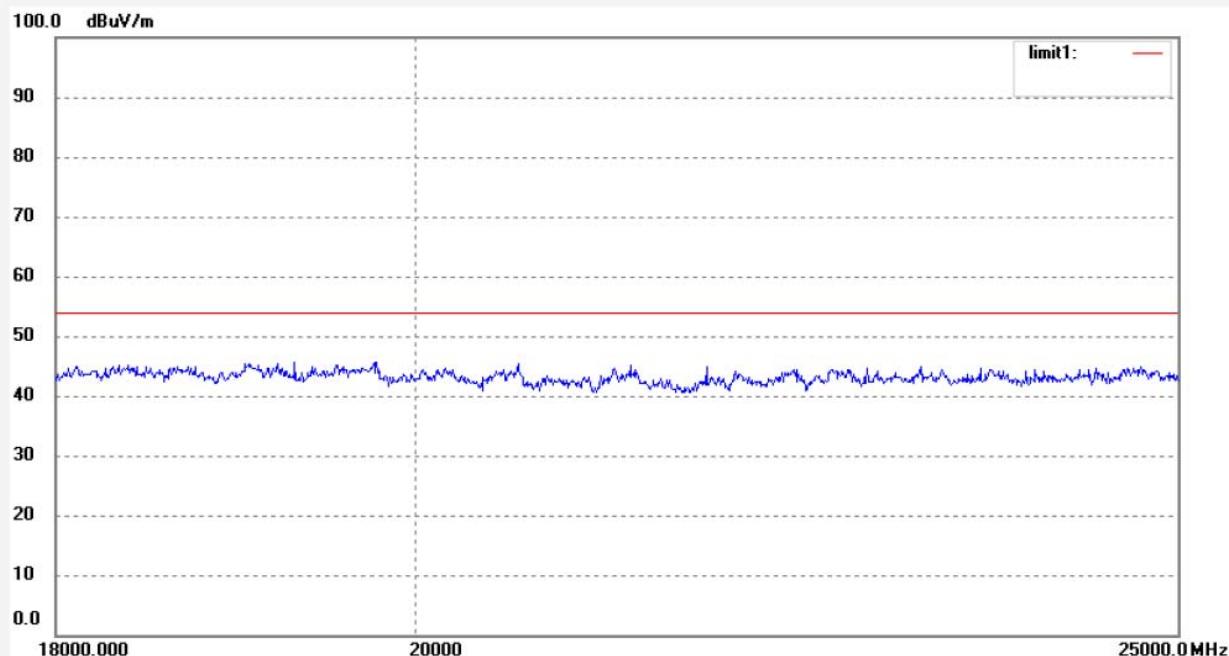
Mode: TX 2440MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: STAR #3047

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/40/31

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

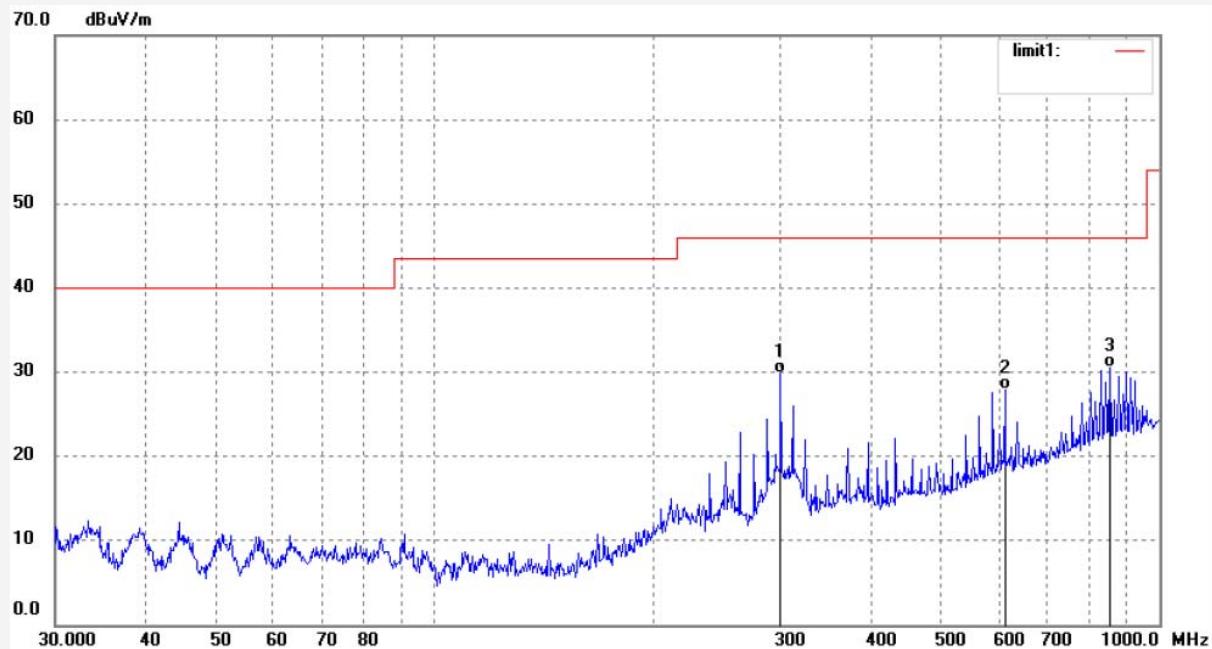
Mode: TX 2474MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	300.3672	47.65	-17.86	29.79	46.00	-16.21	QP			
2	612.0642	39.25	-11.42	27.83	46.00	-18.17	QP			
3	854.0247	37.40	-6.92	30.48	46.00	-15.52	QP			


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Job No.: STAR #3048

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/44/11

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

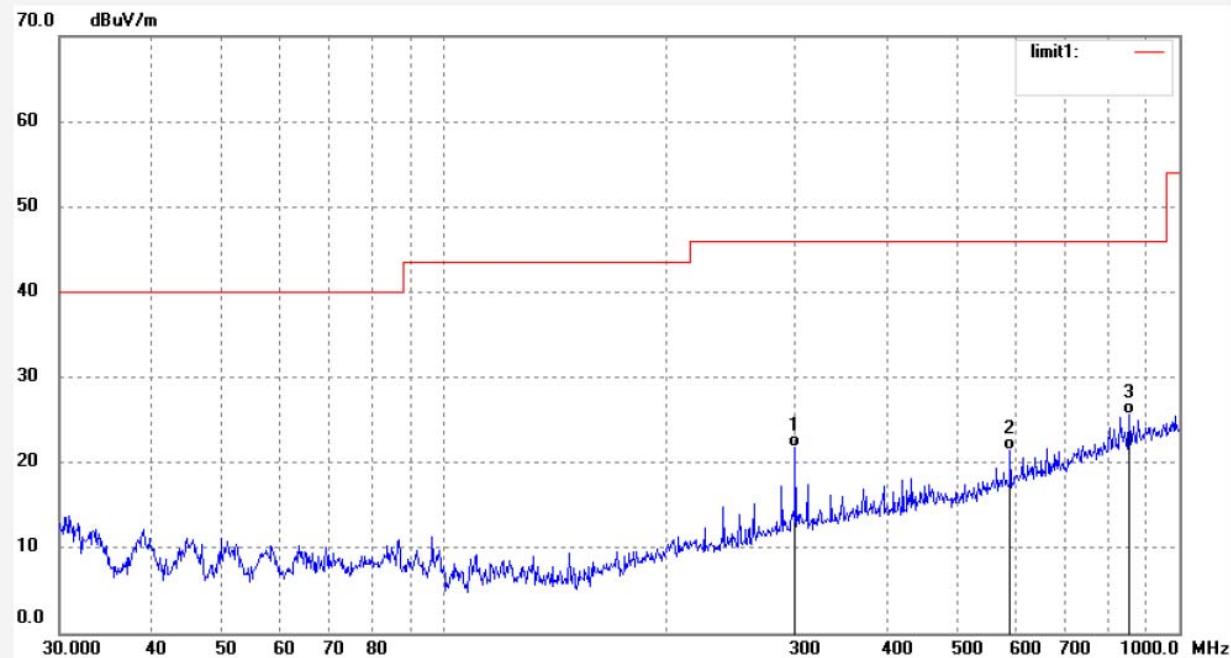
Mode: TX 2474MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	300.3672	39.59	-17.86	21.73	46.00	-24.27	QP			
2	588.9050	33.29	-11.90	21.39	46.00	-24.61	QP			
3	854.0247	32.48	-6.92	25.56	46.00	-20.44	QP			


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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: STAR #3101

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/24/58

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

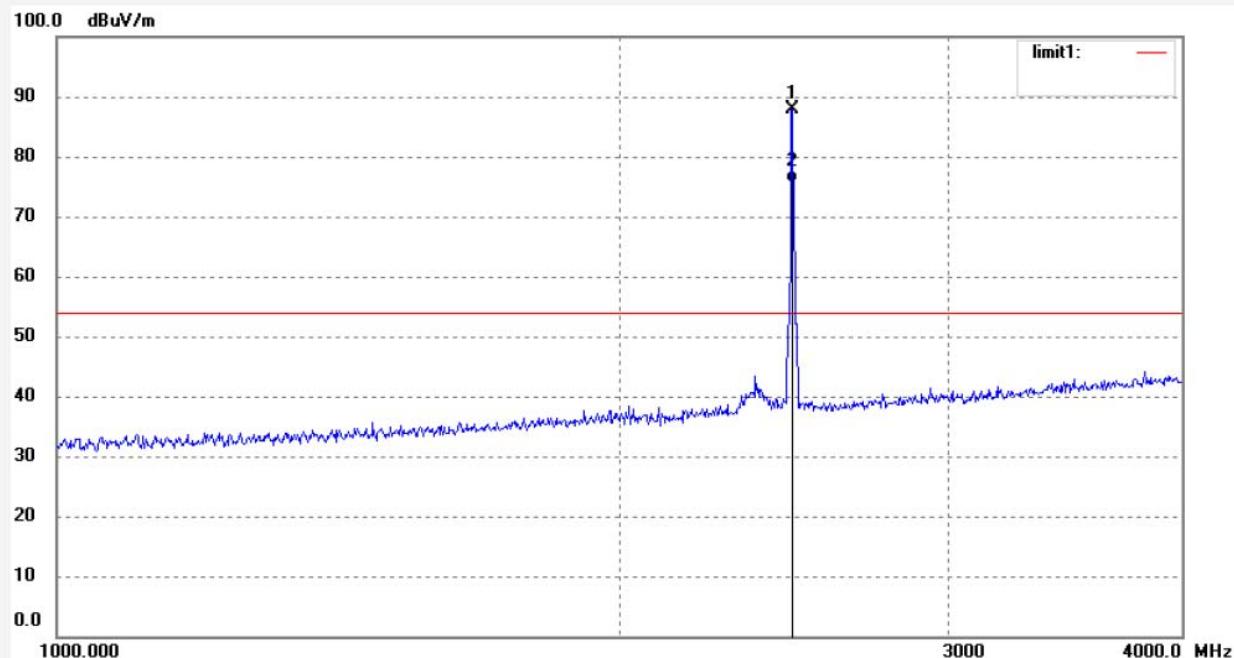
Mode: TX 2474MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	94.32	-6.56	87.76	114.00	-26.24	peak			
2	2474.000	82.14	-6.56	75.58	94.00	-18.42	AVG			


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

Job No.: STAR #3102

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/28/10

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

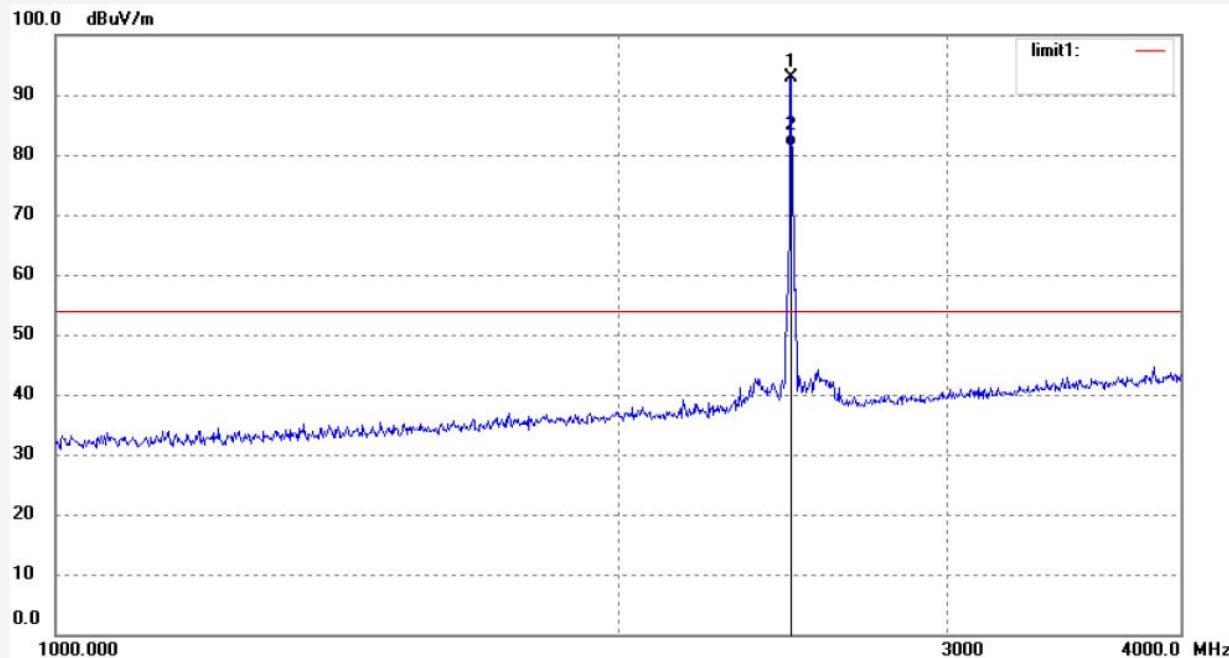
Mode: TX 2474MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	99.55	-6.56	92.99	114.00	-21.01	peak			
2	2474.000	87.82	-6.56	81.26	94.00	-12.74	AVG			


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

Job No.: star #3103

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/32/42

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

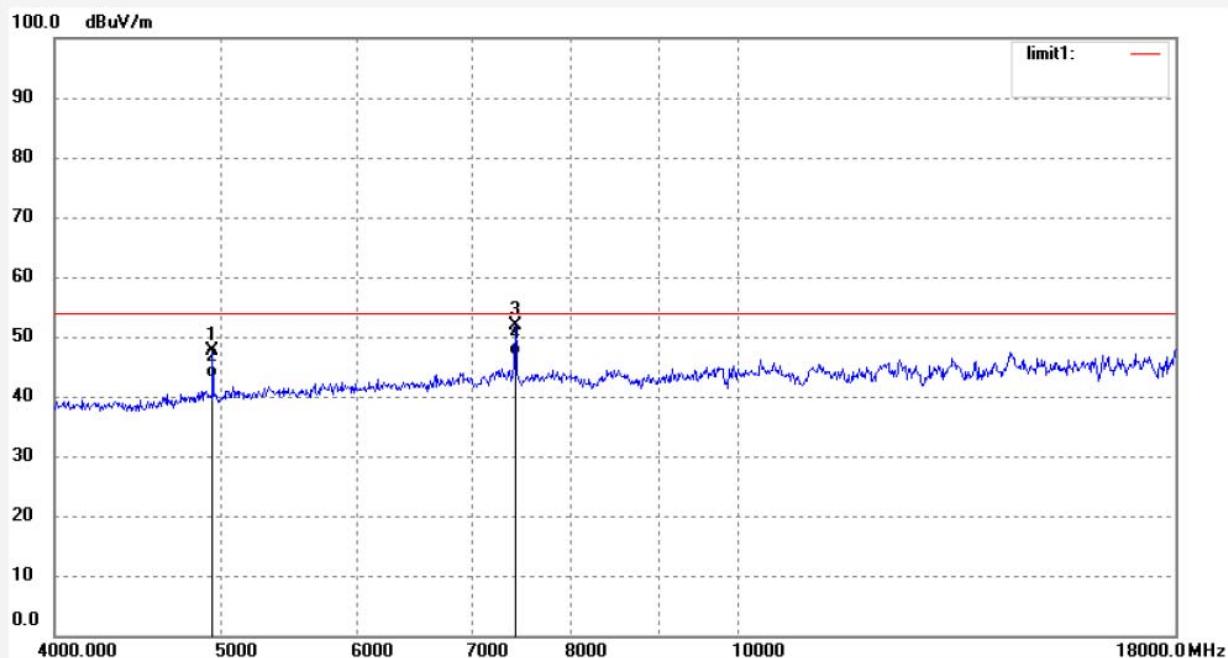
Mode: TX 2474MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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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Site: 1# Chamber
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Job No.: star #3104

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/12/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/35/17

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

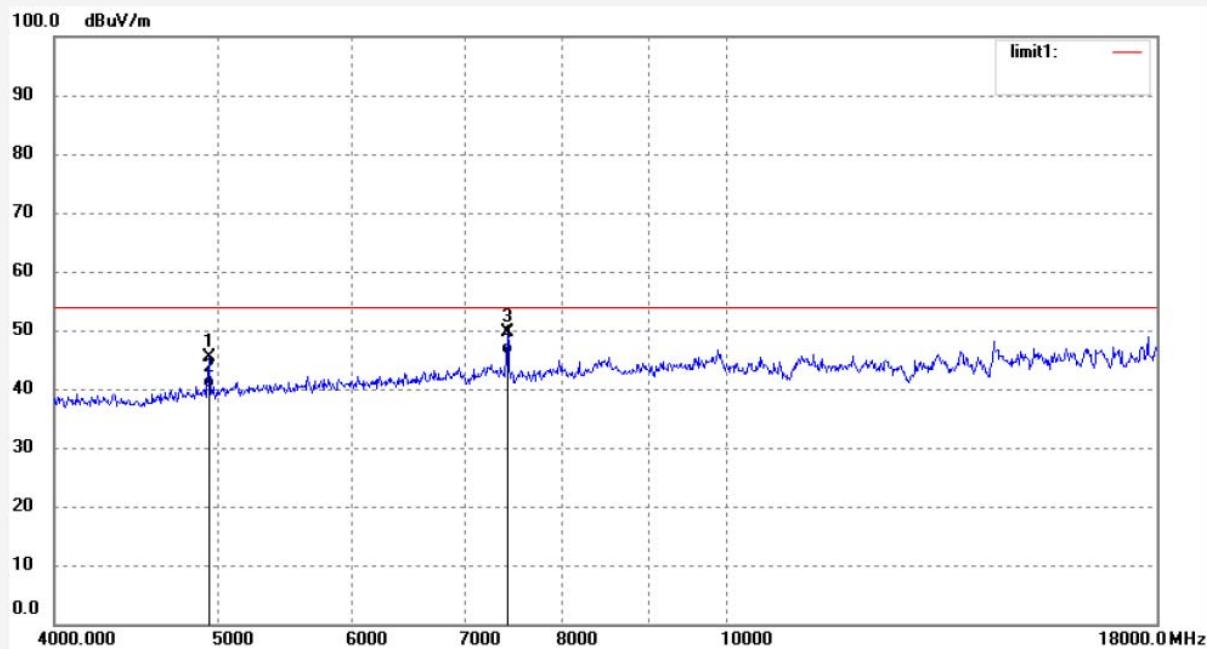
Mode: TX 2474MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



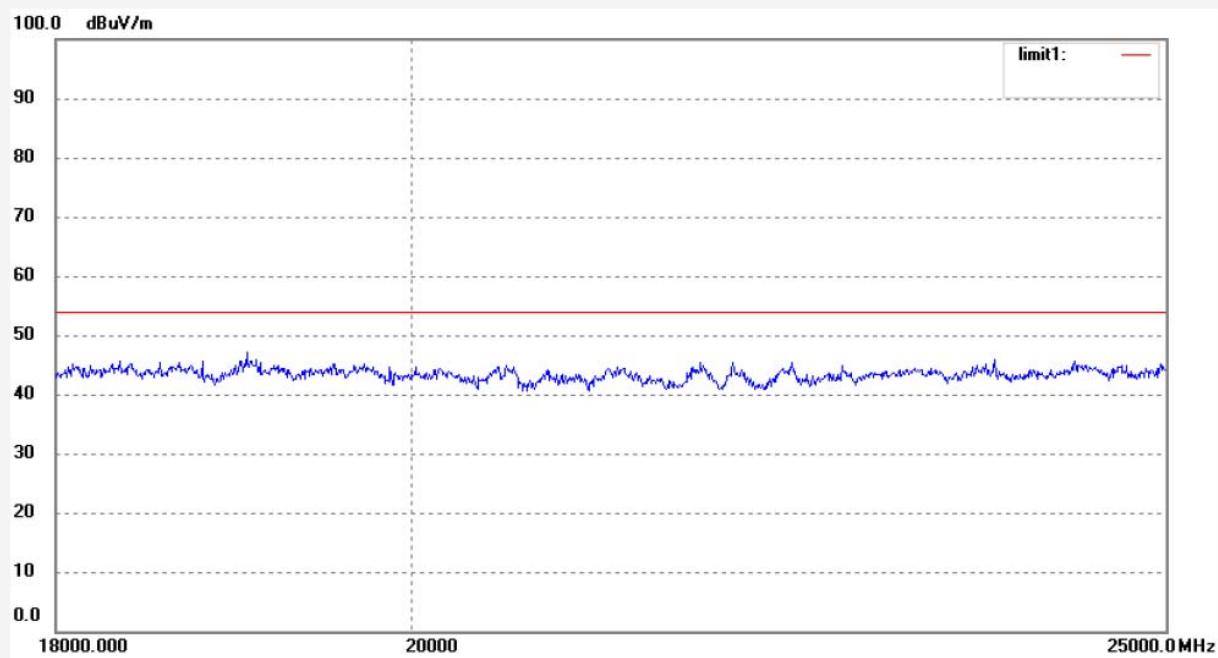
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4948.000	46.54	-1.15	45.39	74.00	-28.61	peak			
2	4948.000	41.22	-1.15	40.07	54.00	-13.93	AVG			
3	7422.000	48.03	1.49	49.52	74.00	-24.48	peak			
4	7422.000	44.39	1.49	45.88	54.00	-8.12	AVG			


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

Job No.: STAR #3113	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 13/09/12/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 12/06/55
EUT: 2.4G Wireless Gaming Mouse	Engineer Signature:
Mode: TX 2474MHz	Distance: 3m
Model: DS-2472	
Manufacturer: Eastern Times	
Note: Report No.:ATE20131992	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

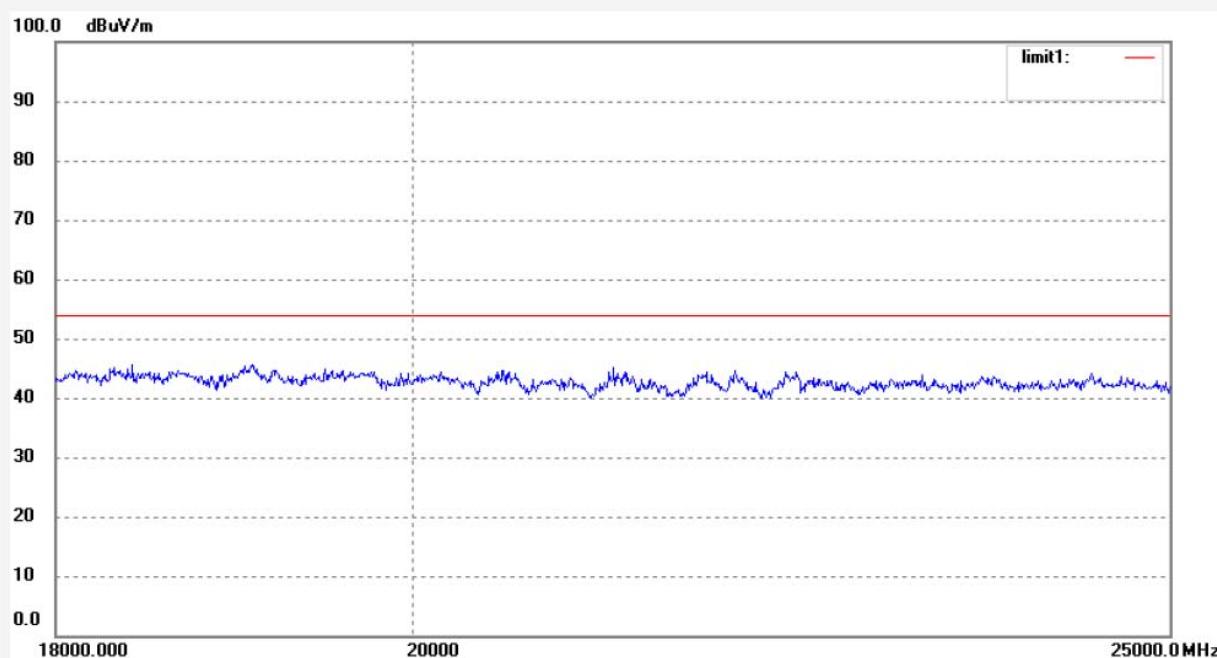

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 Site: 1# Chamber
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Job No.: STAR #3114	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 13/09/12/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 12/10/18
EUT: 2.4G Wireless Gaming Mouse	Engineer Signature:
Mode: TX 2474MHz	Distance: 3m
Model: DS-2472	
Manufacturer: Eastern Times	

Note: Report No.:ATE20131992



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 1# Chamber
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Fax:+86-0755-26503396

Job No.: STAR #3135

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/13/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/58/31

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

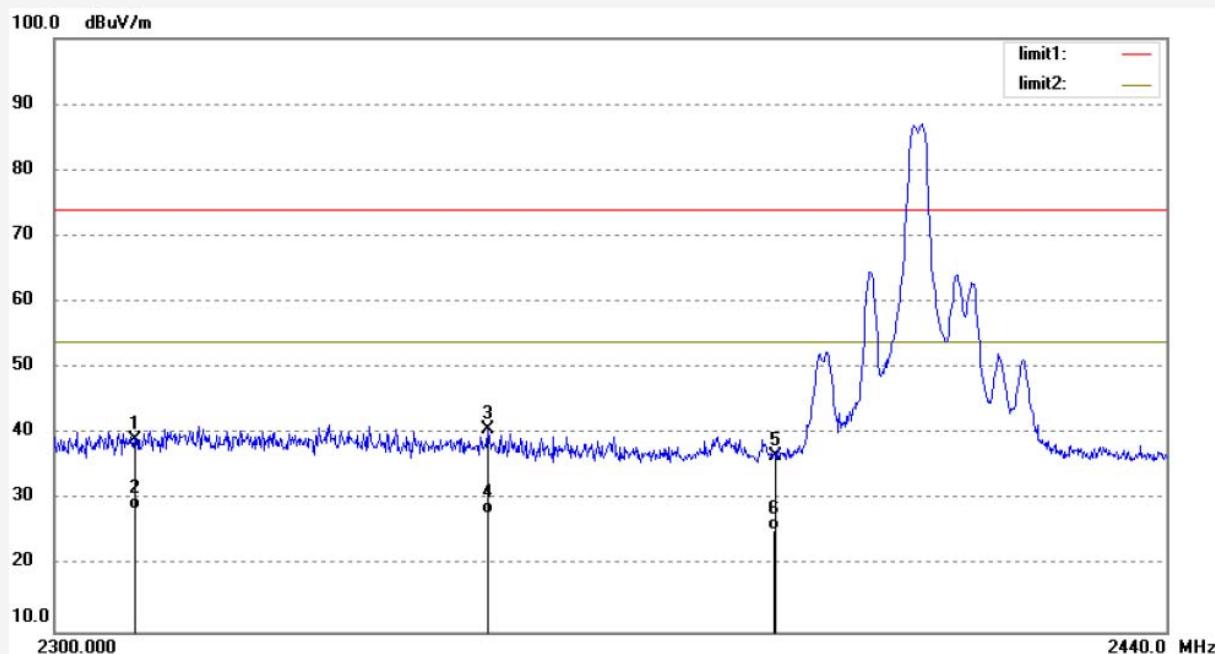
Mode: TX 2408MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	46.11	-6.99	39.12	74.00	-34.88	peak			
2	2310.000	35.54	-6.99	28.55	54.00	-25.45	AVG			
3	2353.620	47.50	-6.88	40.62	74.00	-33.38	peak			
4	2353.620	34.85	-6.88	27.97	54.00	-26.03	AVG			
5	2390.000	43.34	-6.78	36.56	74.00	-37.44	peak			
6	2390.000	32.12	-6.78	25.34	54.00	-28.66	AVG			


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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: STAR #3136

Polarization: Vertical

Standard: FCC PK

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/13/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/02/54

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

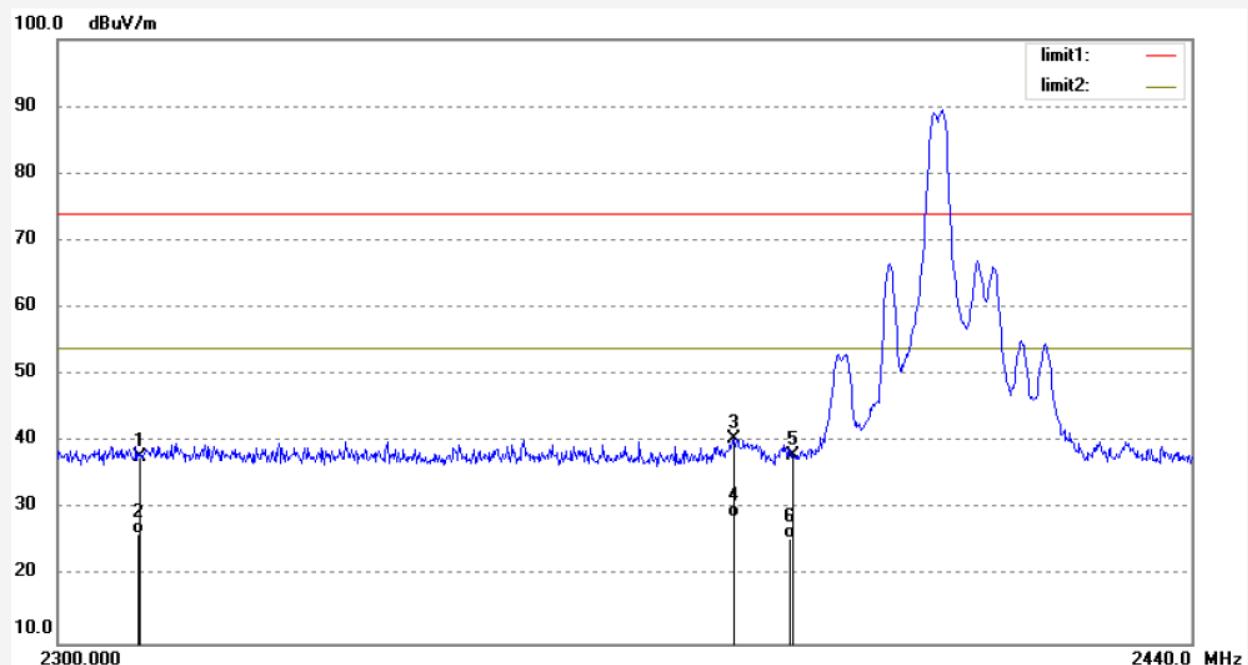
Mode: TX 2408MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	44.89	-6.99	37.90	74.00	-36.10	peak			
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			
5	2390.000	44.71	-6.78	37.93	74.00	-36.07	peak			
6	2390.000	32.50	-6.78	25.72	54.00	-28.28	AVG			


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

Job No.: STAR #3137

Polarization: Vertical

Standard: FCC PK

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/13/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 11/06/03

EUT: 2.4G Wireless Gaming Mouse

Engineer Signature:

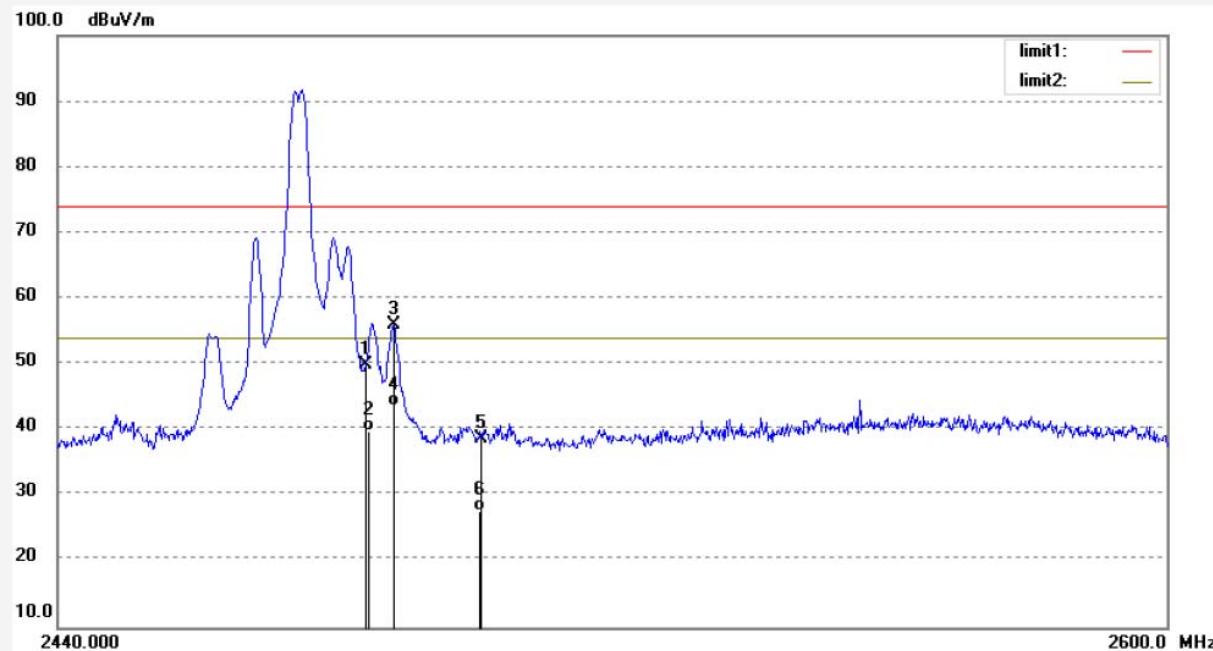
Mode: TX 2474MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	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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Fax:+86-0755-26503396

Job No.: STAR #3138

Polarization: Horizontal

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

Engineer Signature:

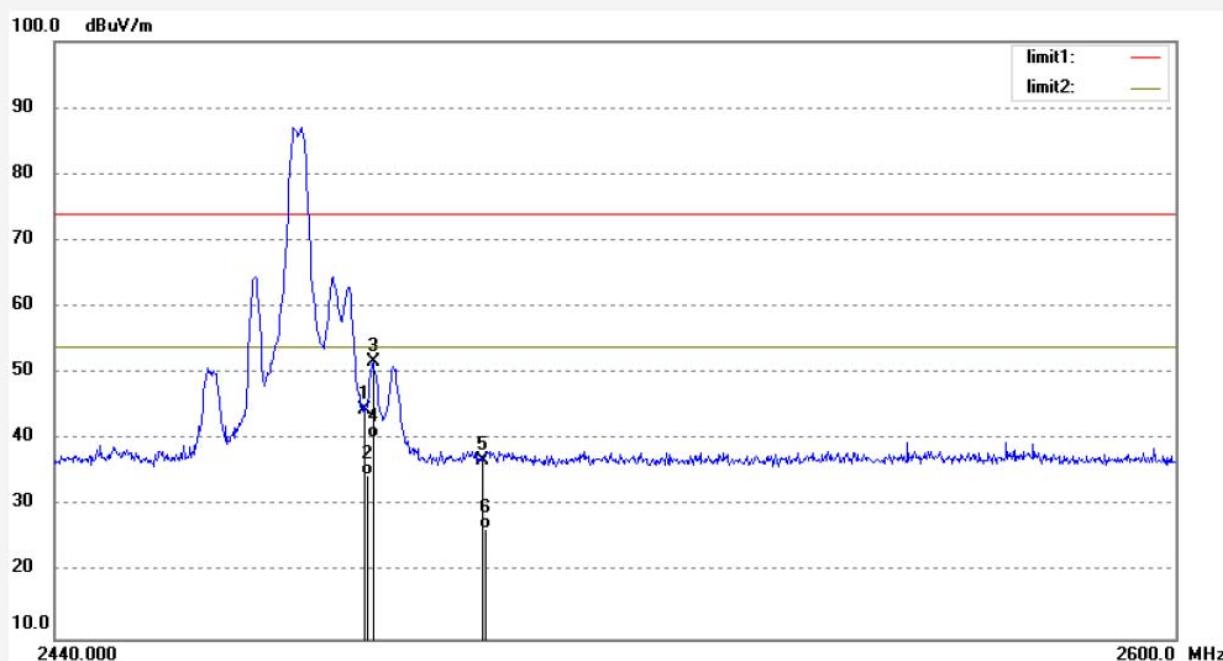
Mode: TX 2474MHz

Distance: 3m

Model: DS-2472

Manufacturer: Eastern Times

Note: Report No.:ATE20131992



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	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			
4	2484.480	46.89	-6.54	40.35	54.00	-13.65	AVG			
5	2500.000	43.45	-6.50	36.95	74.00	-37.05	peak			
6	2500.000	33.10	-6.50	26.60	54.00	-27.40	AVG			