

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

2.4G Wireless Optical Mouse
Model No.: DS-2336

FCC ID: TUVDS-2336

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

Report Number : ATE20132082
Date of Test : September 30-October 8, 2013
Date of Report : October 10, 2013

TABLE OF CONTENTS

Description	Page
Test Report Certification	
1. GENERAL INFORMATION	4
1.1. Description of Device (EUT).....	4
1.2. Description of Test Facility	5
1.3. Measurement Uncertainty.....	5
2. MEASURING DEVICE AND TEST EQUIPMENT	6
3. SUMMARY OF TEST RESULTS.....	7
4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A) 8	8
4.1. Block Diagram of Test Setup.....	8
4.2. The Emission Limit	9
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. SPURIOUS 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)	14
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. BAND 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	20
6.5. The Measurement Result	21
7. ANTENNA REQUIREMENT.....	23
7.1. The Requirement	23
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 Optical Mouse
 (A) MODEL NO.: DS-2336
 (B) POWER SUPPLY: 1.5V DC ("AA" batteries 1×)

Measurement Procedure Used:

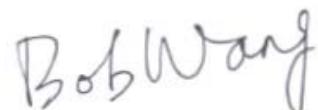
**FCC Rules and Regulations Part 15 Subpart C Section 15.249
ANSI C63.4: 2009**

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 30-October 8, 2013

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : 2.4G Wireless Optical Mouse
Model Number : DS-2336

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 25, 2013

Date of Test : September 30-October 8, 2013

1.2.Description of Test Facility

EMC Lab	: Accredited by TUV Rheinland Shenzhen
	Listed by FCC The Registration Number is 752051
	Listed by Industry Canada The Registration Number is 5077A-2
	Accredited by China National Accreditation Committee for Laboratories The Certificate Registration Number is L3193
Name of Firm	: ACCURATE TECHNOLOGY CO. LTD
Site Location	: F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

1.3.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

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

3. SUMMARY OF TEST RESULTS

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

Remark: “N/A” means “Not applicable”.

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

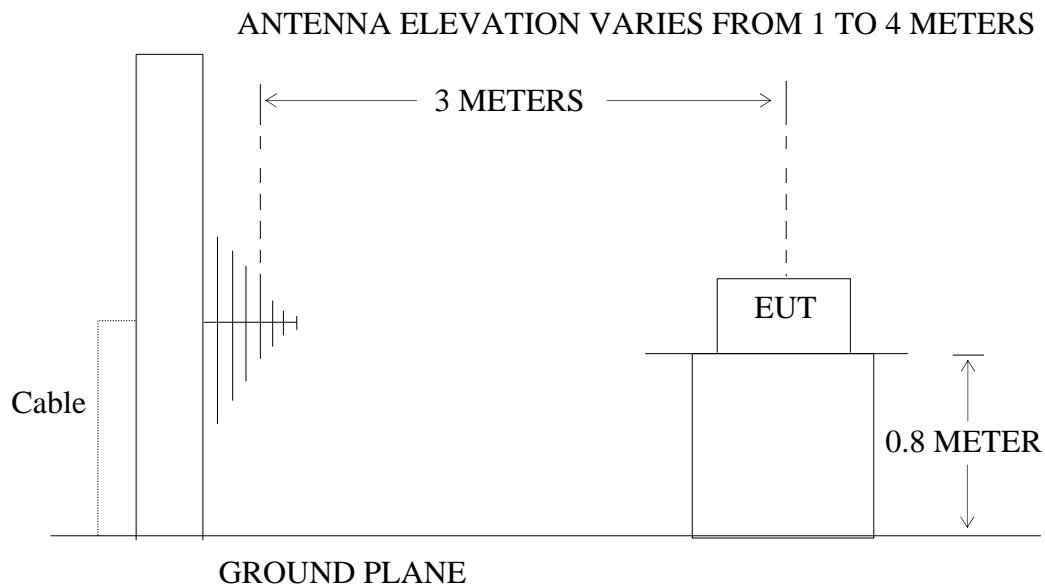
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: 2.4G Wireless Optical Mouse)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: 2.4G Wireless Optical Mouse)

4.2.The Emission Limit

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

Fundamental 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 Optical Mouse (EUT)

Model Number : DS-2336
 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 30, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2336	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	87.39	92.32	-7.44	79.95	84.88	94.00	114.00	-14.05	-29.12	Vertical
2408.000	88.21	93.66	-7.44	80.77	86.22	94.00	114.00	-13.23	-27.28	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	
*										Vertical
*										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 30, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2336	Power Supply:	DC 1.5V
Test Mode:	TX 2440.000MHz	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	
2440.000	83.96	89.81	-7.36	76.60	82.45	94.00	114.00	-17.40	-31.55	Vertical
2440.000	85.71	90.81	-7.36	78.35	83.45	94.00	114.00	-15.65	-30.55	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	
*										Vertical
*										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 30, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2336	Power Supply:	DC 1.5V
Test Mode:	TX 2474.000MHz	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	
2474.000	81.25	86.10	-7.37	73.88	78.73	94.00	114.00	-20.12	-35.27	Vertical
2474.000	81.24	86.95	-7.37	73.87	79.58	94.00	114.00	-20.13	-34.42	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	
*										Vertical
*										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)

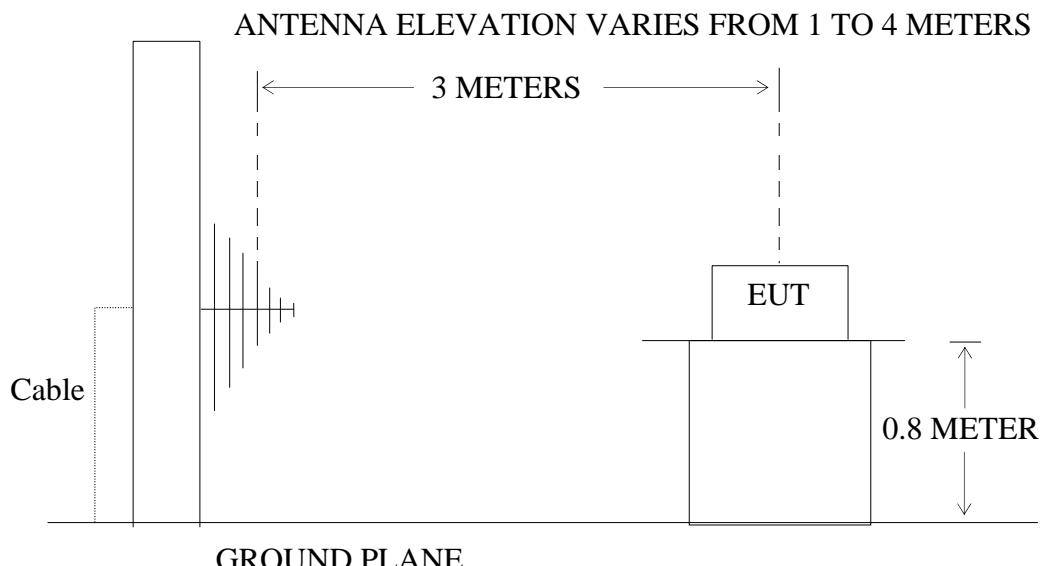
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: 2.4G Wireless Optical Mouse)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: 2.4G Wireless Optical Mouse)

5.2. The Emission Limit For Section 15.249(d)

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

Radiation Emission Measurement Limits According to Section 15.209

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 Optical Mouse (EUT)

Model Number : DS-2336
 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 30, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2336	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	
34.1649	32.98	-10.33	22.65	40.00	-17.35	Vertical
37.4329	33.95	-10.97	22.98	40.00	-17.02	Vertical
39.1824	33.89	-11.36	22.53	40.00	-17.47	Vertical
295.4623	35.37	-9.37	26.00	46.00	-20.00	Horizontal
815.6352	32.03	0.26	32.29	46.00	-13.71	Horizontal
942.0180	34.55	1.97	36.52	46.00	-9.48	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

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

Date of Test:	September 30, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2336	Power Supply:	DC 1.5V
Test Mode:	TX 2440.000MHz	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)	
33.9256	30.07	-10.32	19.75	40.00	-20.25	Vertical
35.6362	30.96	-10.57	20.39	40.00	-19.61	Vertical
40.1580	30.67	-11.58	19.09	40.00	-20.91	Vertical
302.8192	35.44	-9.24	26.20	46.00	-19.80	Horizontal
815.6352	33.02	0.26	33.28	46.00	-12.72	Horizontal
968.8724	34.74	2.43	37.17	54.00	-16.83	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 30, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2336	Power Supply:	DC 1.5V
Test Mode:	TX 2474.000MHz	Test Engineer:	Pei

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)	
31.9586	28.93	-10.12	18.81	40.00	-21.19	Vertical
38.2304	32.22	-11.14	21.08	40.00	-18.92	Vertical
39.0449	32.56	-11.34	21.22	40.00	-18.78	Vertical
298.5932	35.41	-9.32	26.09	46.00	-19.91	Horizontal
815.6352	32.16	0.26	32.42	46.00	-13.58	Horizontal
942.0180	34.54	1.97	36.51	46.00	-9.49	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 Optical Mouse (EUT)

Model Number	:	DS-2336
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:	October 4, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2336	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	
2396.356	52.08	57.46	-7.48	44.60	49.98	54.00	74.00	-9.40	-24.02	Vertical
2400.000	42.46	48.61	-7.46	35.00	41.15	54.00	74.00	-19.00	-32.85	Vertical
2395.830	52.69	57.48	-7.49	45.20	49.99	54.00	74.00	-8.80	-24.01	Horizontal
2400.000	43.26	48.44	-7.46	35.80	40.98	54.00	74.00	-18.20	-33.02	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:	October 4, 2013	Temperature:	25°C
EUT:	2.4G Wireless Optical Mouse	Humidity:	50%
Model No.:	DS-2336	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	41.17	46.79	-7.37	33.80	39.42	54.00	74.00	-20.20	-34.58	Vertical
2484.591	44.78	49.12	-7.38	37.40	41.74	54.00	74.00	-16.60	-32.26	Vertical
2483.500	42.57	47.16	-7.37	35.20	39.79	54.00	74.00	-18.80	-34.21	Horizontal
2484.530	46.58	51.09	-7.38	39.20	43.71	54.00	74.00	-14.80	-30.29	Horizontal

Note:

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

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

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.

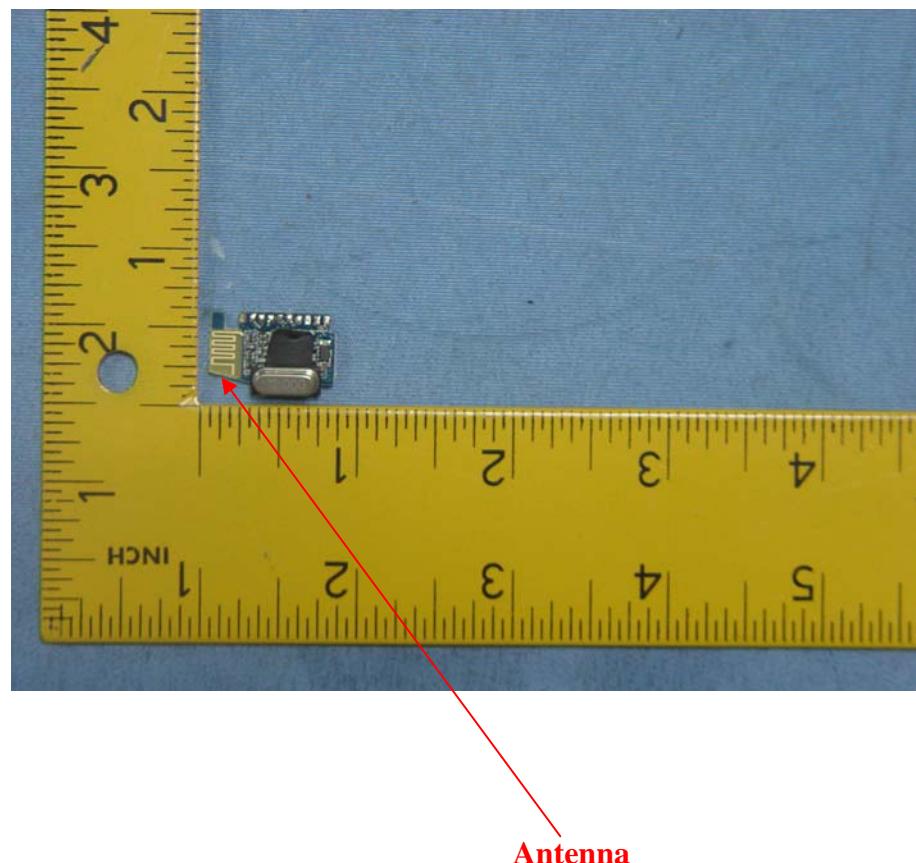
7. ANTENNA REQUIREMENT

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)


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #504

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/37/56

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

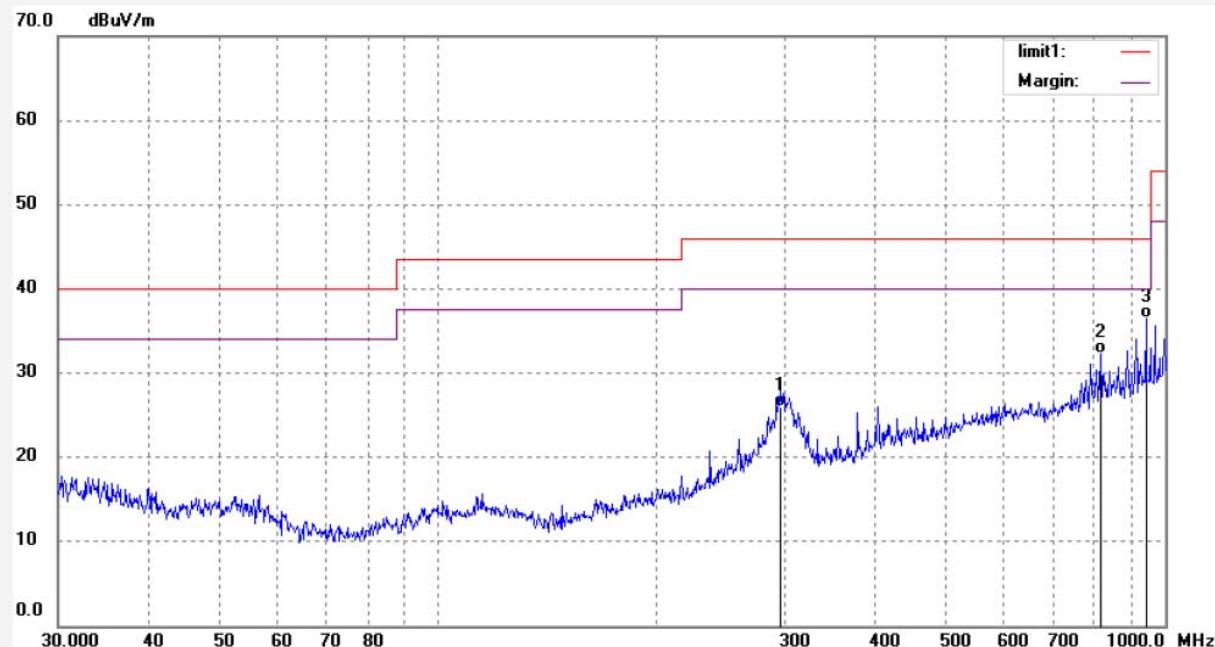
Mode: TX 2408MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	295.4623	35.37	-9.37	26.00	46.00	-20.00	QP			
2	815.6352	32.03	0.26	32.29	46.00	-13.71	QP			
3	942.0180	34.55	1.97	36.52	46.00	-9.48	QP			


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RUCKY #505

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/40/34

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

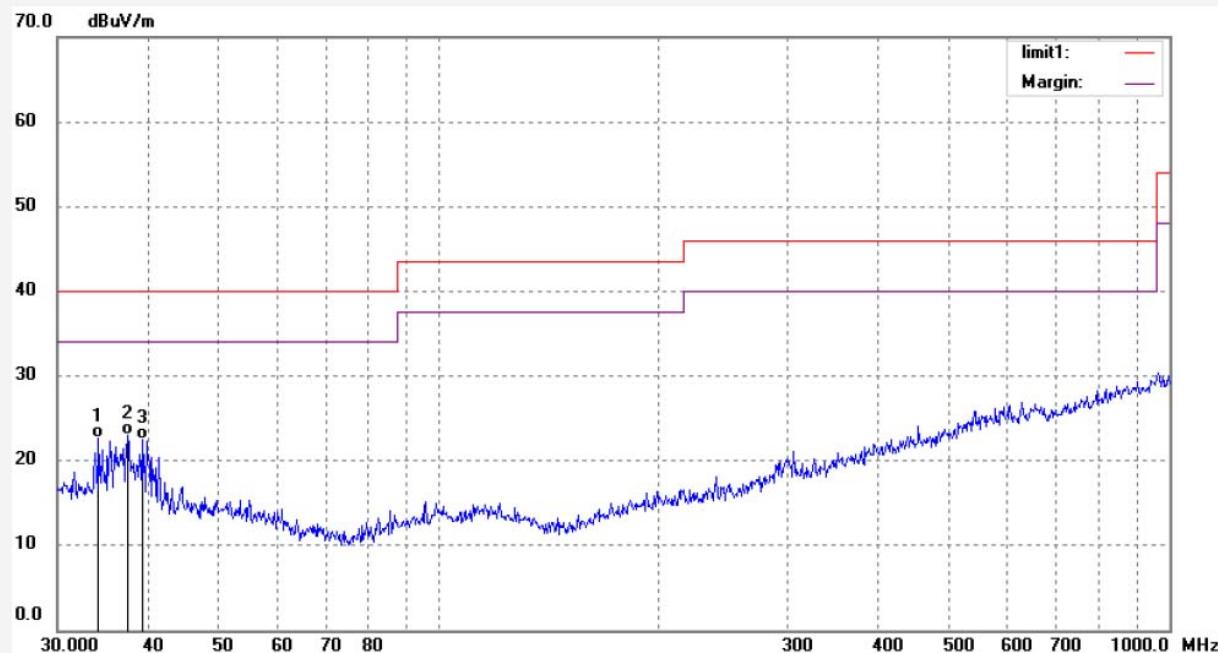
Mode: TX 2408MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.1649	32.98	-10.33	22.65	40.00	-17.35	QP			
2	37.4329	33.95	-10.97	22.98	40.00	-17.02	QP			
3	39.1824	33.89	-11.36	22.53	40.00	-17.47	QP			


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RUCKY #518

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/36/07

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

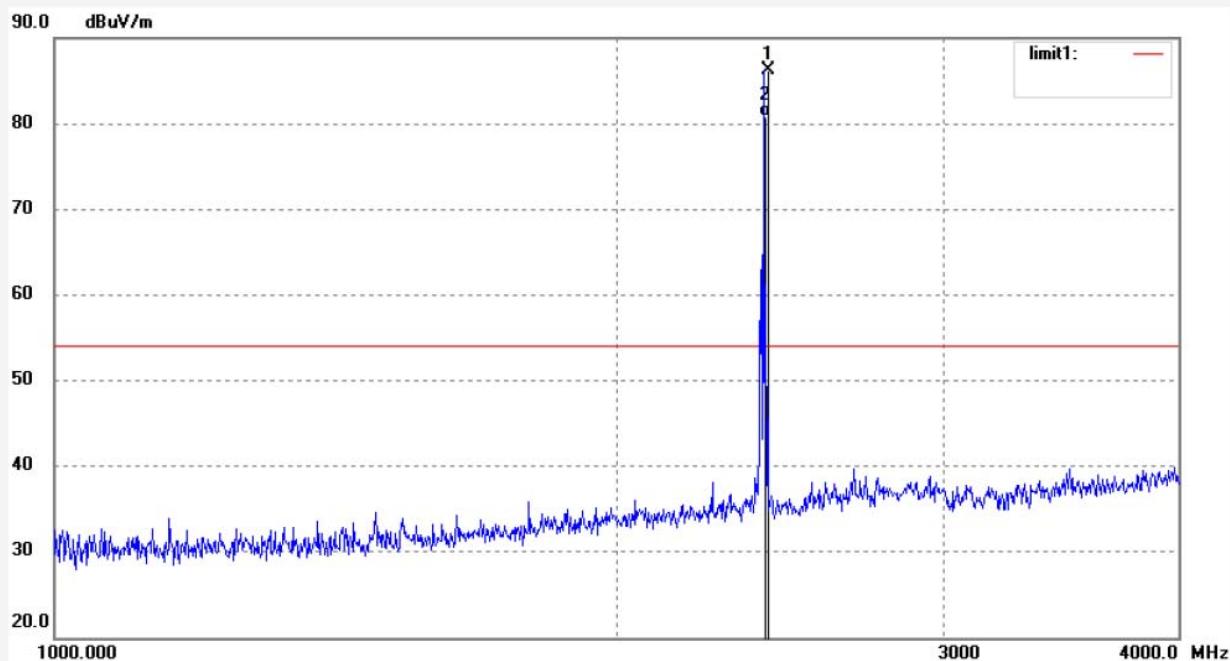
Mode: TX 2408MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



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	93.66	-7.44	86.22	114.00	-27.28	peak			
2	2408.000	88.21	-7.44	80.77	94.00	-13.23	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #519

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/39/33

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

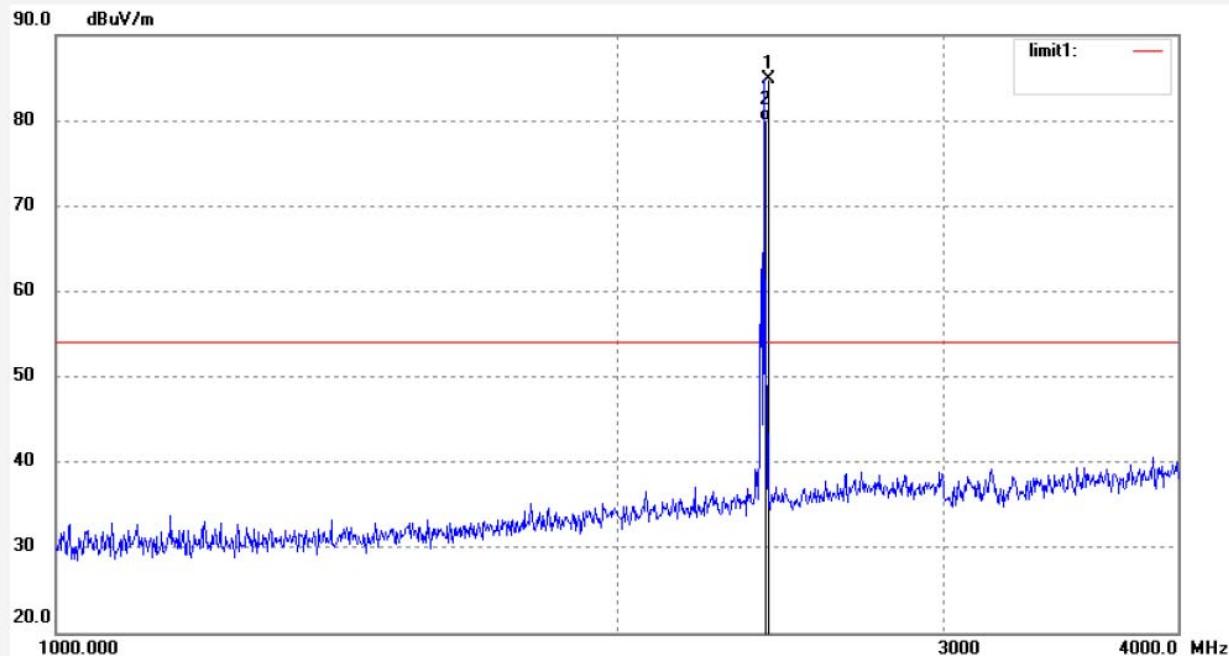
Mode: TX 2408MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



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	92.32	-7.44	84.88	114.00	-29.12	peak			
2	2408.000	87.39	-7.44	79.95	94.00	-14.05	AVG			


ACCURATE TECHNOLOGY CO., LTD.

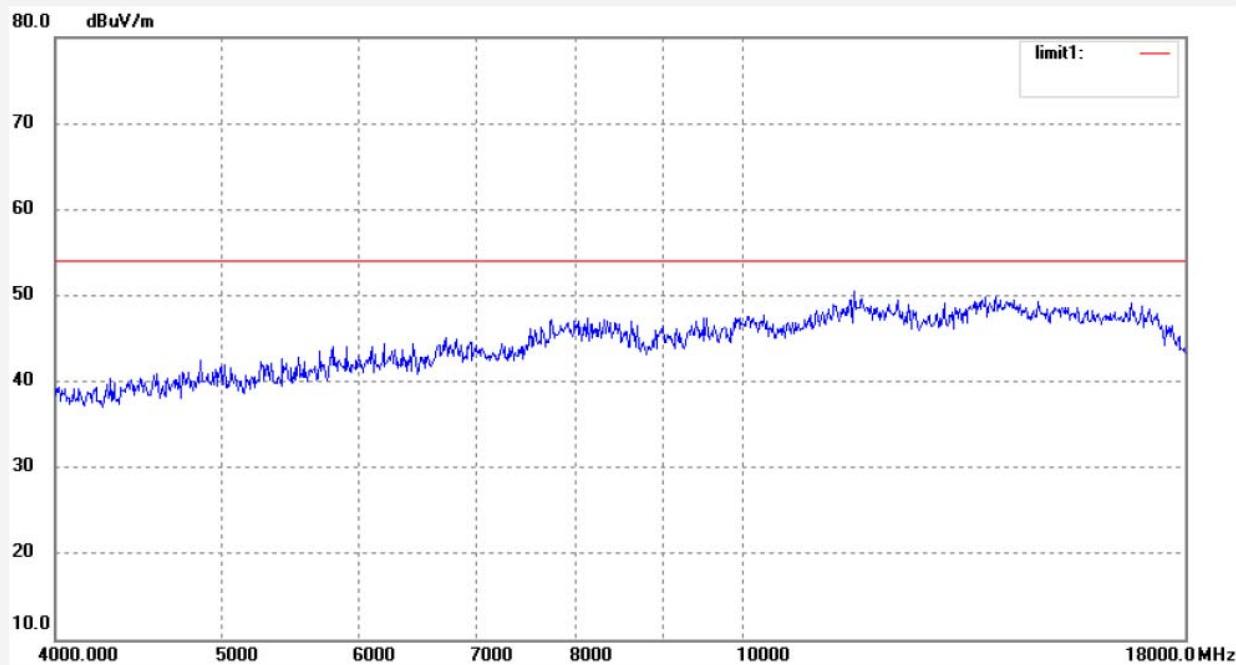
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #520
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: 2.4G Wireless Optical Mouse
 Mode: TX 2408MHz
 Model: DS-2336
 Manufacturer: Eastern

Polarization: Horizontal
 Power Source: DC 1.5V
 Date: 13/09/30/
 Time: 10/43/05
 Engineer Signature:
 Distance: 3m

Note: Report No.:ATE20132082



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


ACCURATE TECHNOLOGY CO., LTD.

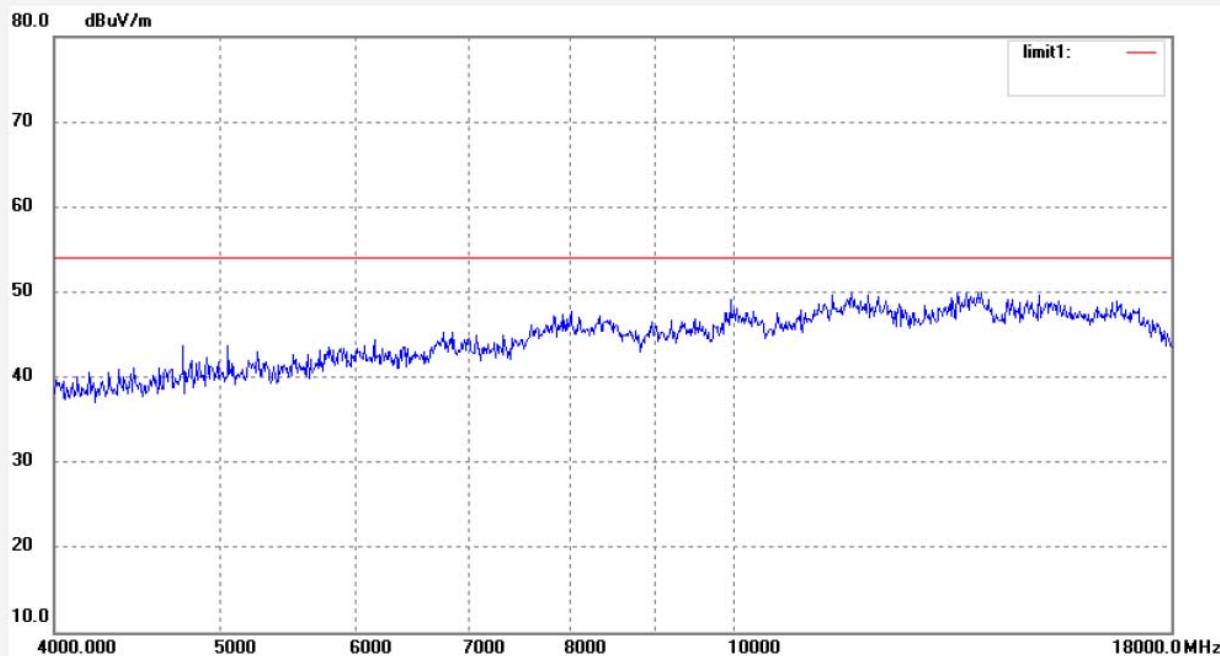
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RUCKY #521
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 2.4G Wireless Optical Mouse
Mode: TX 2408MHz
Model: DS-2336
Manufacturer: Eastern

Polarization: Vertical
Power Source: DC 1.5V
Date: 13/09/30/
Time: 10:45/01
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20132082



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


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #3894

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 2013//10/08

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

Time: 9:03:22

EUT: 2.4G Wireless Optical Mouse

Engineer Signature: Ricky

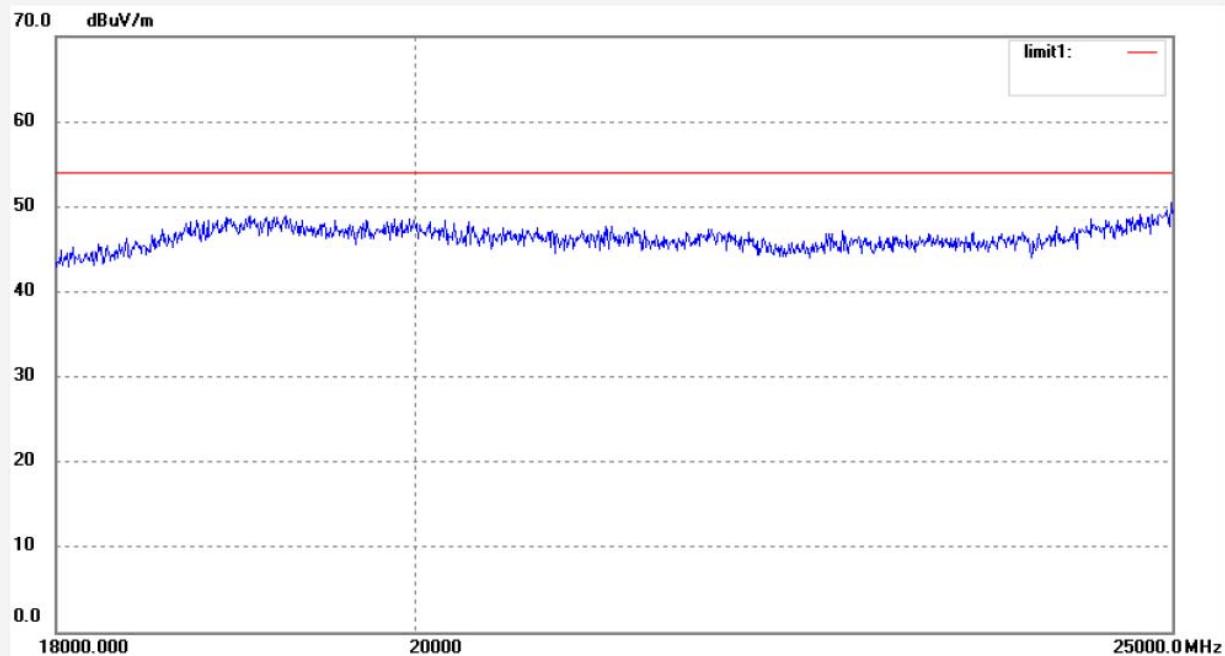
Mode: TX 2408MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note:Report No.:ATE20132082



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

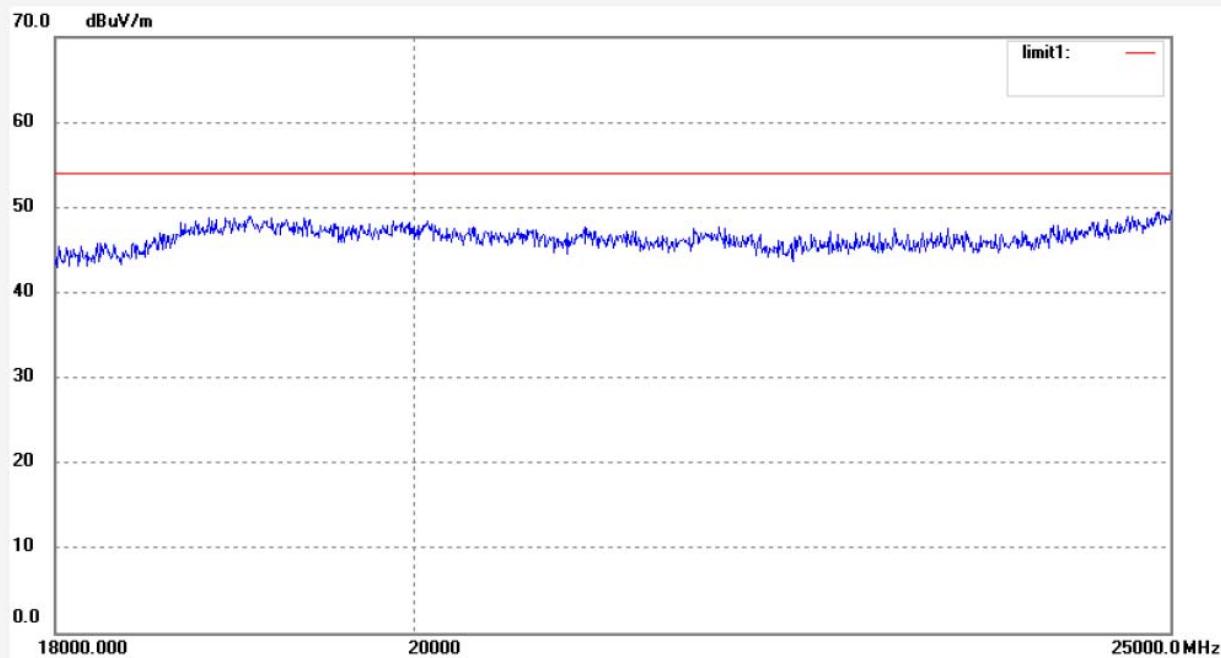

ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: Ricky #3895	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2013//10/08
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9:07:25
EUT: 2.4G Wireless Optical Mouse	Engineer Signature: Ricky
Mode: TX 2408MHz	Distance: 3m
Model: DS-2336	
Manufacturer: Eastern	

Note:Report No.:ATE20132082



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



ACCURATE TECHNOLOGY CO., LTD.

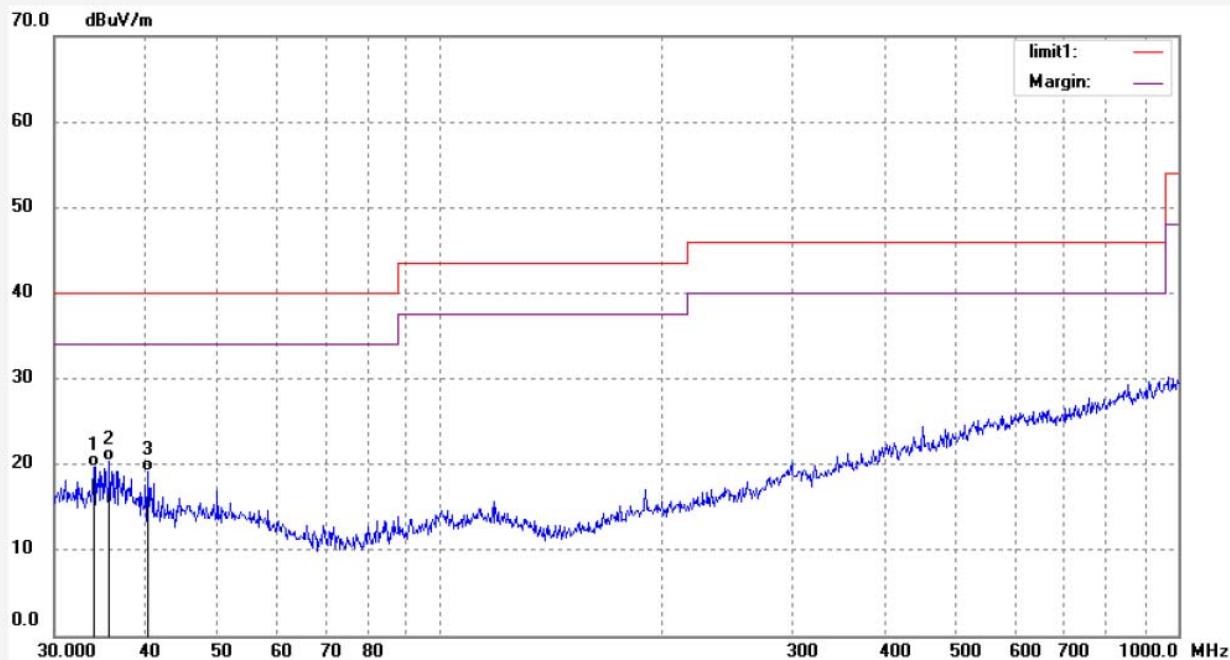
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RUCKY #506
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 2.4G Wireless Optical Mouse
Mode: TX 2440MHz
Model: DS-2336
Manufacturer: Eastern

Polarization: Vertical
Power Source: DC 1.5V
Date: 13/09/30/
Time: 9/42/45
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20132082



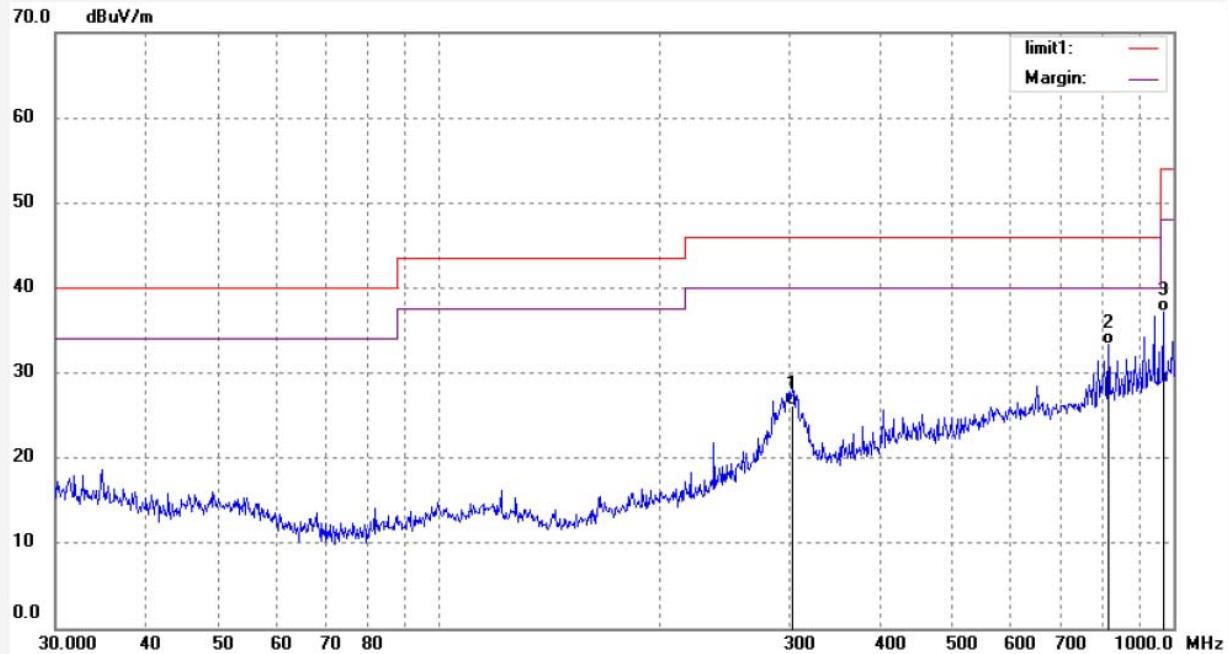
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.9256	30.07	-10.32	19.75	40.00	-20.25	QP			
2	35.6362	30.96	-10.57	20.39	40.00	-19.61	QP			
3	40.1580	30.67	-11.58	19.09	40.00	-20.91	QP			


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.:	RUCKY #507	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 1.5V
Test item:	Radiation Test	Date:	13/09/30/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	9/44/58
EUT:	2.4G Wireless Optical Mouse	Engineer Signature:	
Mode:	TX 2440MHz	Distance:	3m
Model:	DS-2336		
Manufacturer:	Eastern		
Note:	Report No.:ATE20132082		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	302.8192	35.44	-9.24	26.20	46.00	-19.80	QP			
2	815.6352	33.02	0.26	33.28	46.00	-12.72	QP			
3	968.8724	34.74	2.43	37.17	54.00	-16.83	QP			


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #516

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/24/55

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

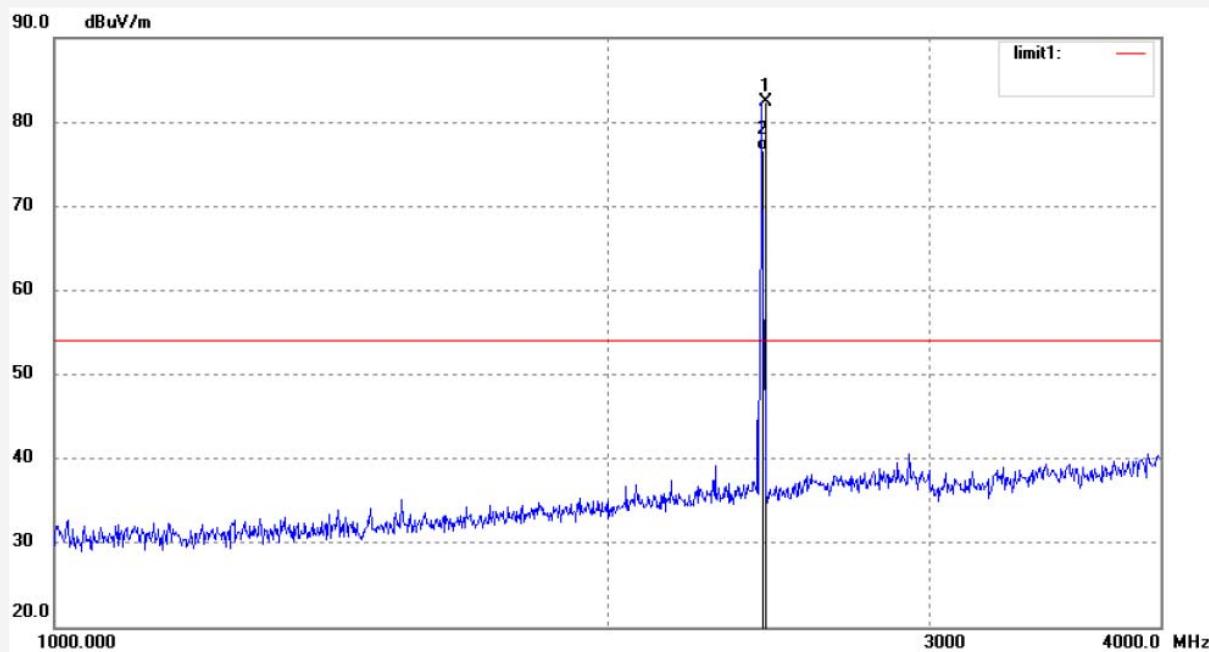
Mode: TX 2440MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



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	89.81	-7.36	82.45	114.00	-31.55	peak			
2	2440.000	83.96	-7.36	76.60	94.00	-17.40	Avg			


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RUCKY #517

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/24/55

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

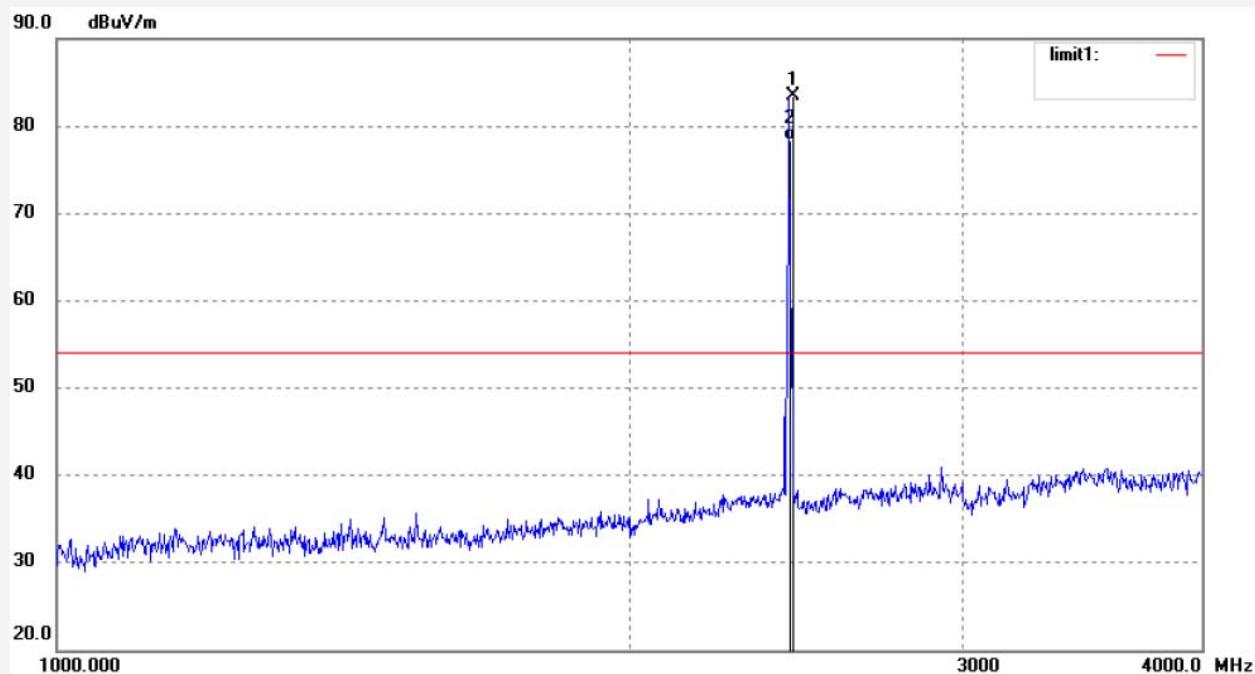
Mode: TX 2440MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	90.81	-7.36	83.45	114.00	-30.55	peak			
2	2440.000	85.71	-7.36	78.35	94.00	-15.65	AVG			


ACCURATE TECHNOLOGY CO., LTD.

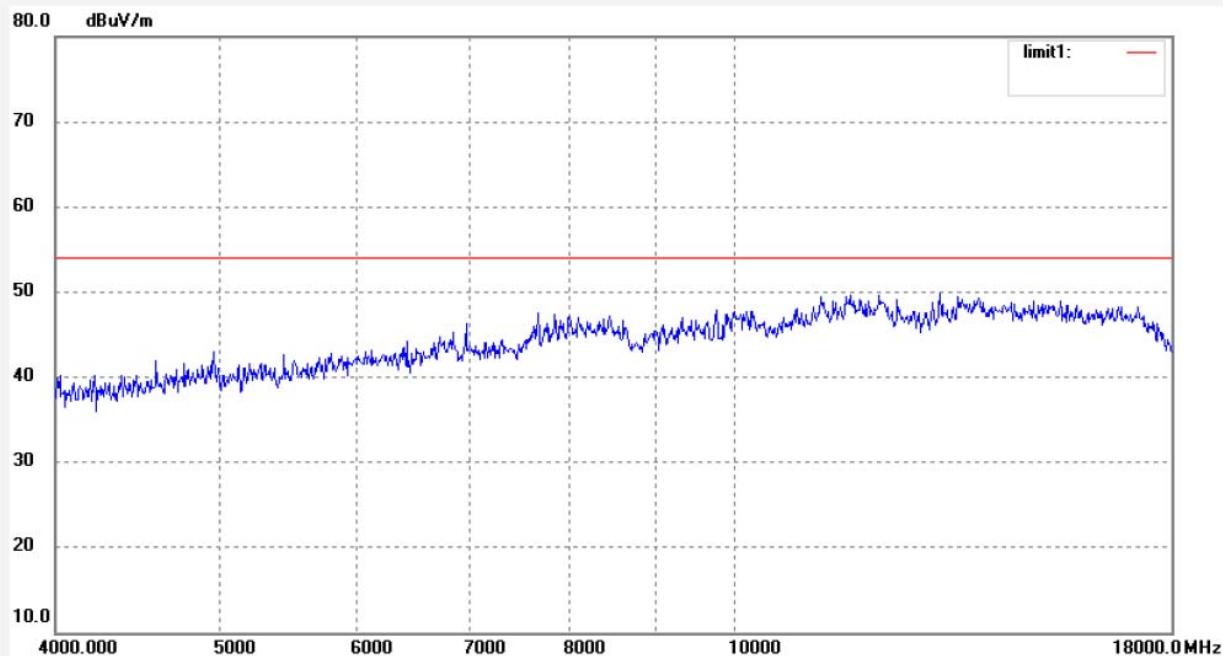
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RUCKY #522
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 2.4G Wireless Optical Mouse
Mode: TX 2440MHz
Model: DS-2336
Manufacturer: Eastern

Polarization: Vertical
Power Source: DC 1.5V
Date: 13/09/30/
Time: 10/46/14
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20132082



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


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RUCKY #523

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/47/28

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

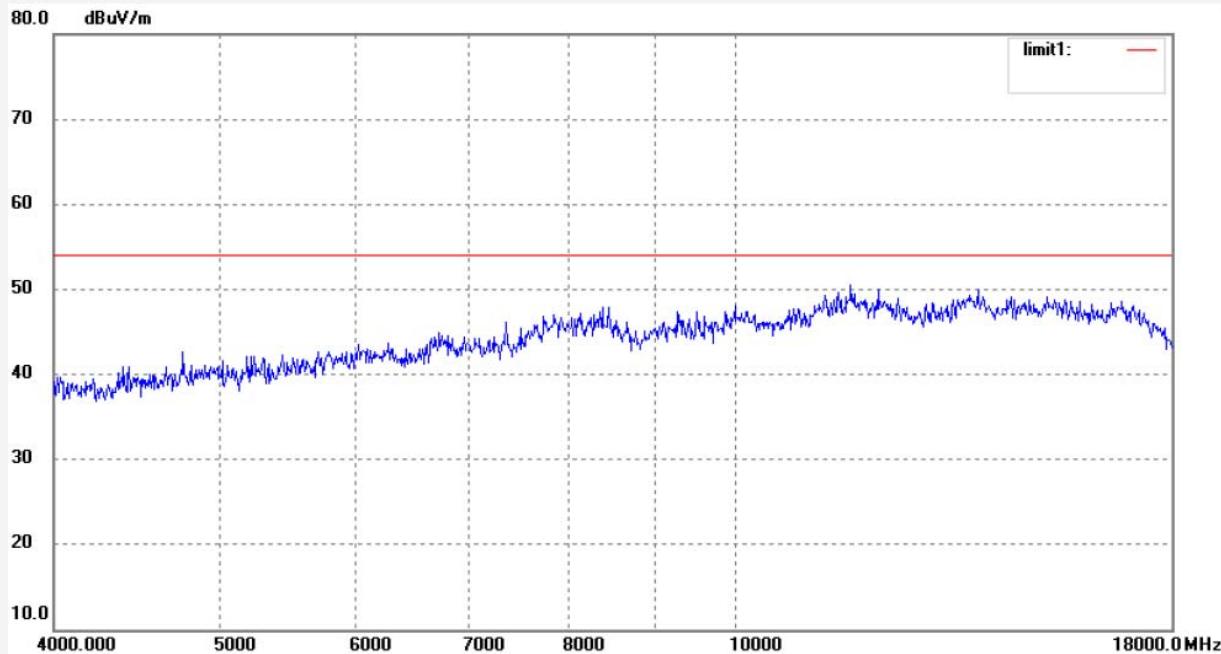
Mode: TX 2440MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



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


ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: Ricky #3896

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 2013/10/08

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

Time: 9:09:52

EUT: 2.4G Wireless Optical Mouse

Engineer Signature: Ricky

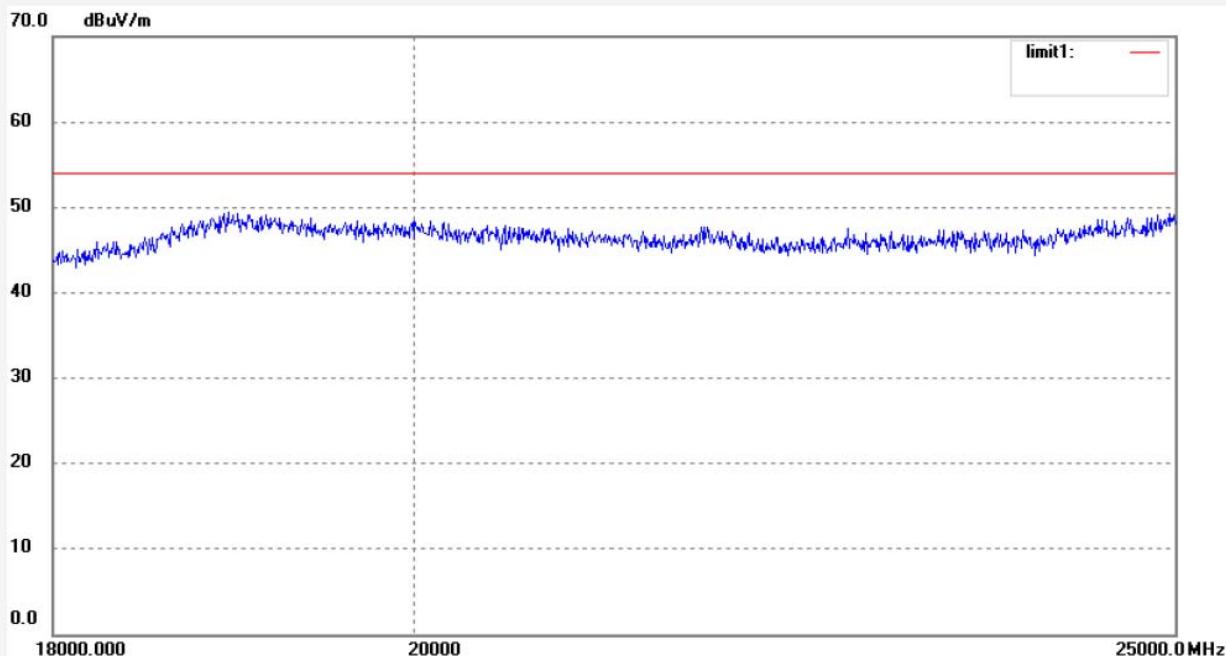
Mode: TX 2440MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note:Report No.:ATE20132082



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


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #3897

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 2013/10/08

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

Time: 9:13:41

EUT: 2.4G Wireless Optical Mouse

Engineer Signature: Ricky

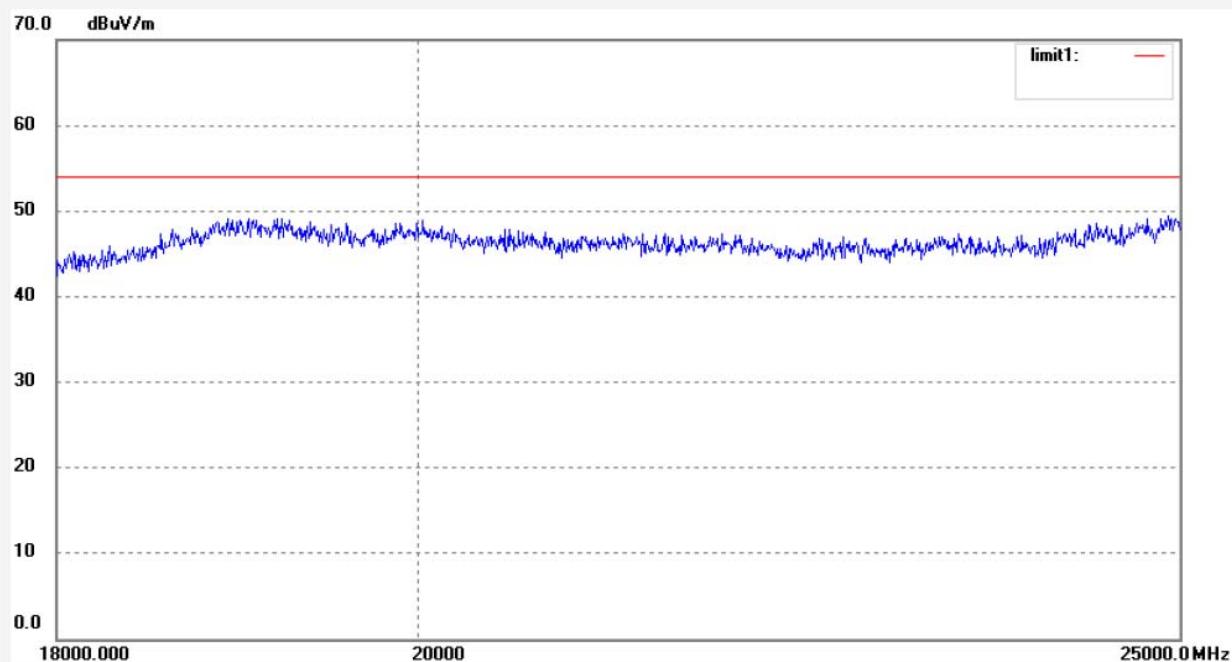
Mode: TX 2440MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note:Report No.:ATE20132082



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

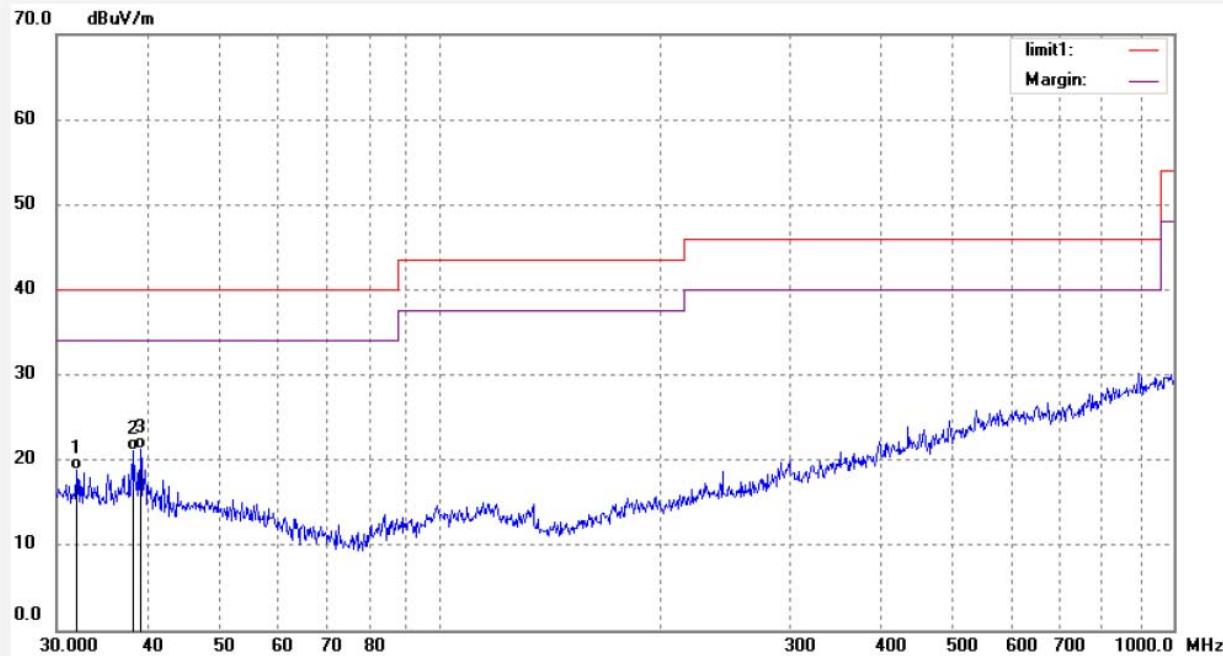

ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.:	RUCKY #508	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	DC 1.5V
Test item:	Radiation Test	Date:	13/09/30/
Temp. (C)/Hum.(%)	23 C / 48 %	Time:	9/46/30
EUT:	2.4G Wireless Optical Mouse	Engineer Signature:	
Mode:	TX 2474MHz	Distance:	3m
Model:	DS-2336		
Manufacturer:	Eastern		

Note: Report No.:ATE20132082



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.9586	28.93	-10.12	18.81	40.00	-21.19	QP			
2	38.2304	32.22	-11.14	21.08	40.00	-18.92	QP			
3	39.0449	32.56	-11.34	21.22	40.00	-18.78	QP			


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #509

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/47/52

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

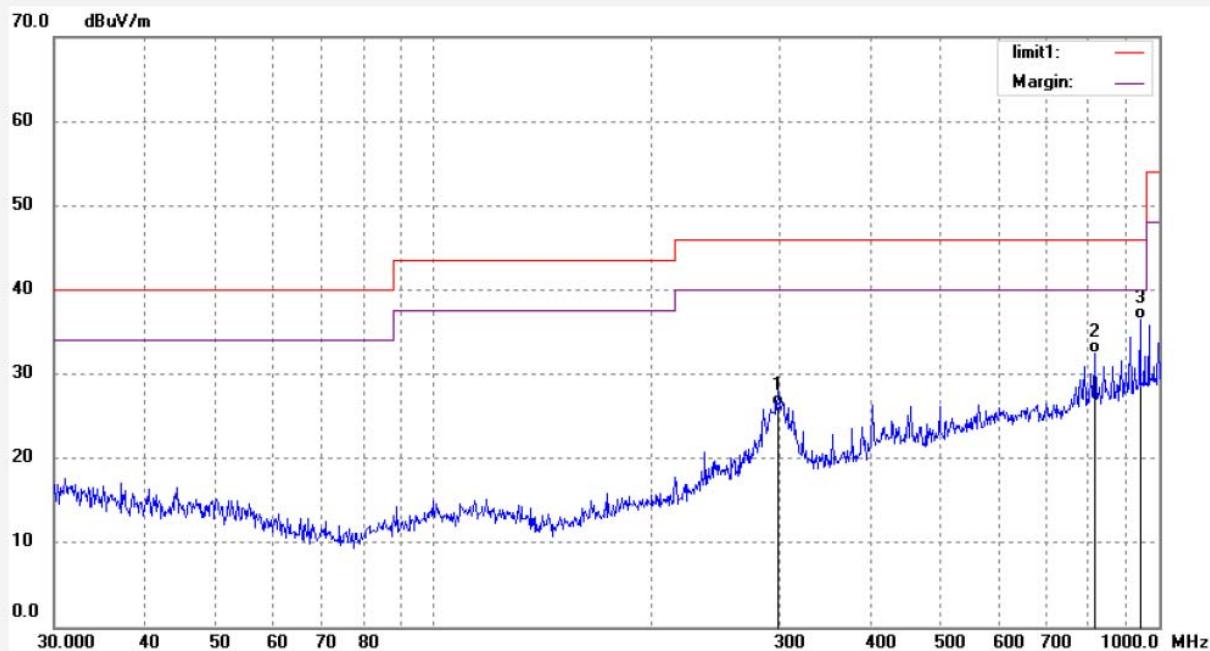
Mode: TX 2474MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	298.5932	35.41	-9.32	26.09	46.00	-19.91	QP			
2	815.6352	32.16	0.26	32.42	46.00	-13.58	QP			
3	942.0180	34.54	1.97	36.51	46.00	-9.49	QP			


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RUCKY #514

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/15/25

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

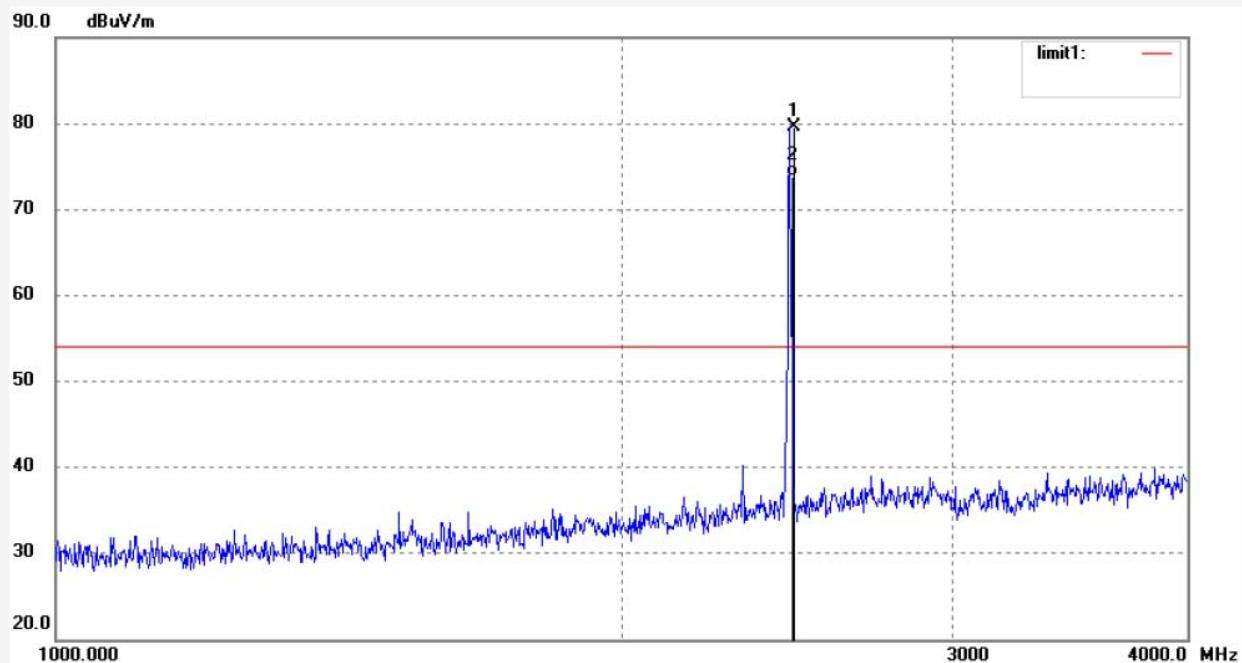
Mode: TX 2474MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



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	86.95	-7.37	79.58	114.00	-34.42	peak			
2	2474.000	81.24	-7.37	73.87	94.00	-20.13	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #515

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/19/02

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

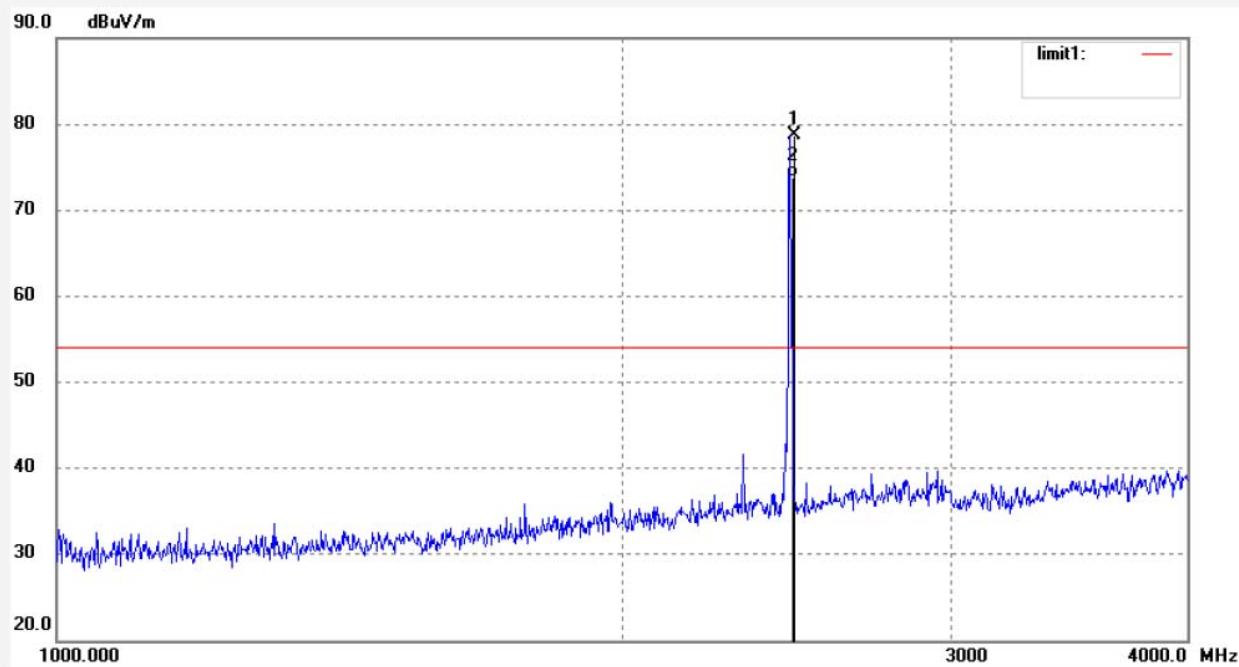
Mode: TX 2474MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



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	86.10	-7.37	78.73	114.00	-35.27	peak			
2	2474.000	81.25	-7.37	73.88	94.00	-20.12	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #524

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp. (C)/Hum.(%) 23 C / 48 %

Time: 10/48/56

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

Mode: TX 2474MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082

80.0 dB_{UV}/m

70

60

50

40

30

20

10.0

4000.000

5000

6000

7000

8000

10000

18000.0 MHz

limit1:

No.	Freq. (MHz)	Reading (dB _{UV} /m)	Factor (dB)	Result (dB _{UV} /m)	Limit (dB _{UV} /m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	-------------	-------------------------------	-------------	------------------------------	-----------------------------	-------------	----------	-------------	---------------	--------


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #525

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/09/30/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/50/17

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

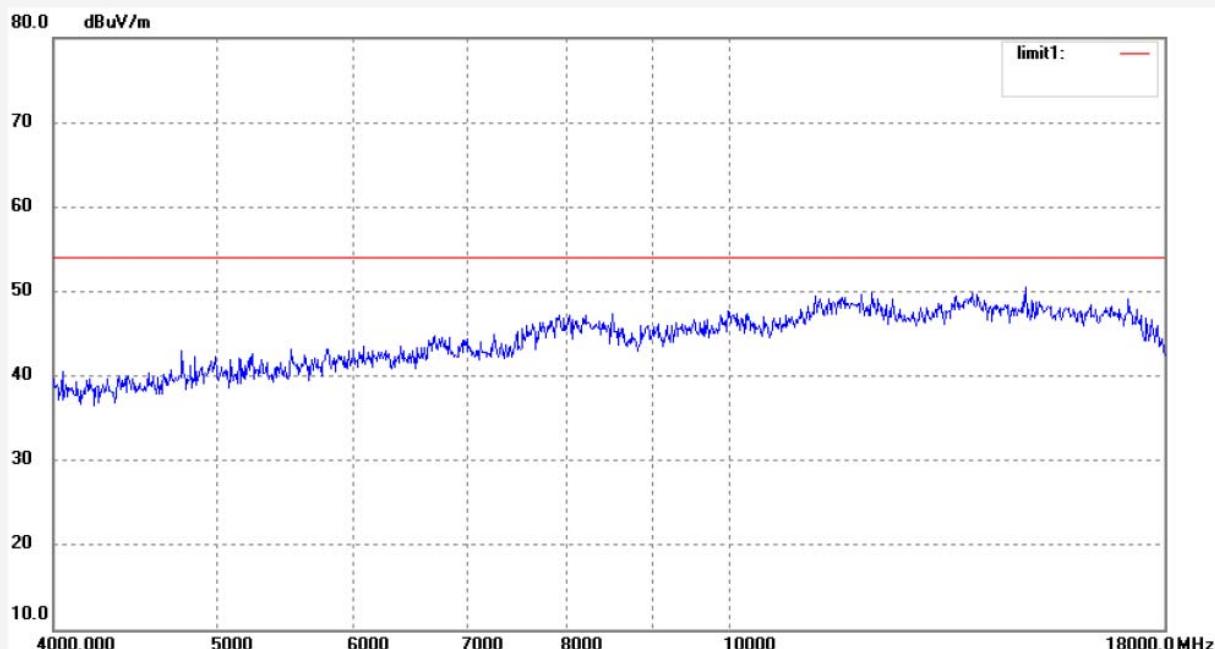
Mode: TX 2474MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



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

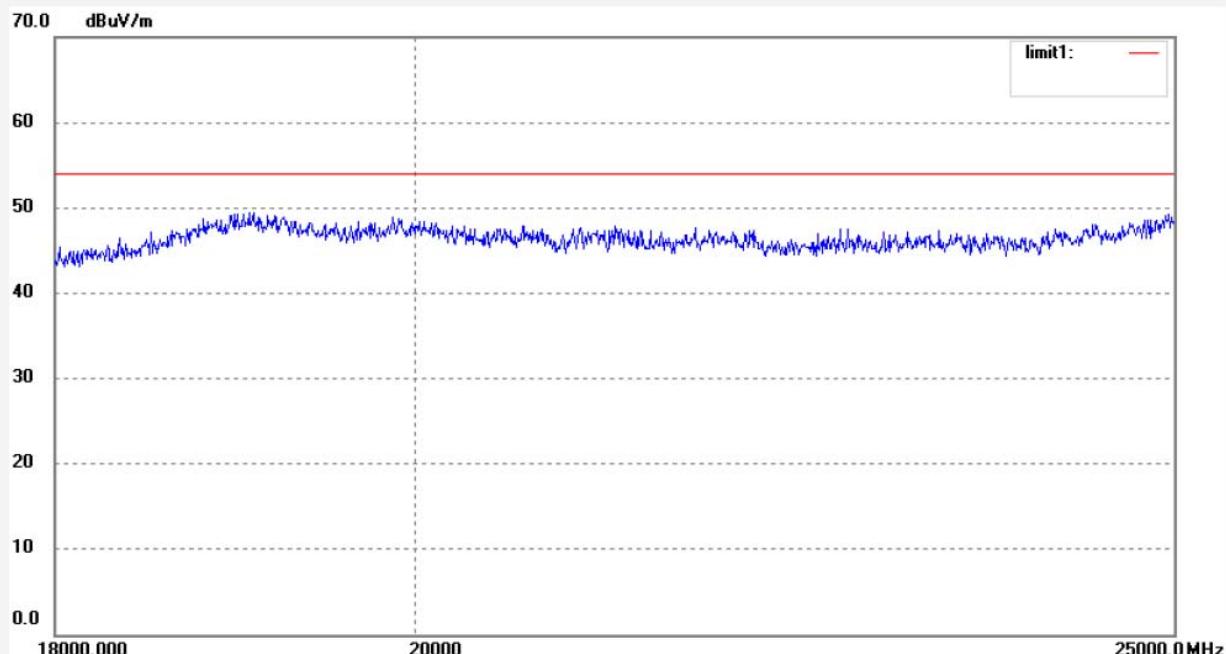

ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: Ricky #3898	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2013//10/08
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9:16:33
EUT: 2.4G Wireless Optical Mouse	Engineer Signature: Ricky
Mode: TX 2474MHz	Distance: 3m
Model: DS-2336	
Manufacturer: Eastern	

Note:Report No.:ATE20132082



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


ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: Ricky #3899

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 1.5V

Test item: Radiation Test

Date: 2013/10/08

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

Time: 9:19:37

EUT: T2.4G Wireless Optical Mouse

Engineer Signature: Ricky

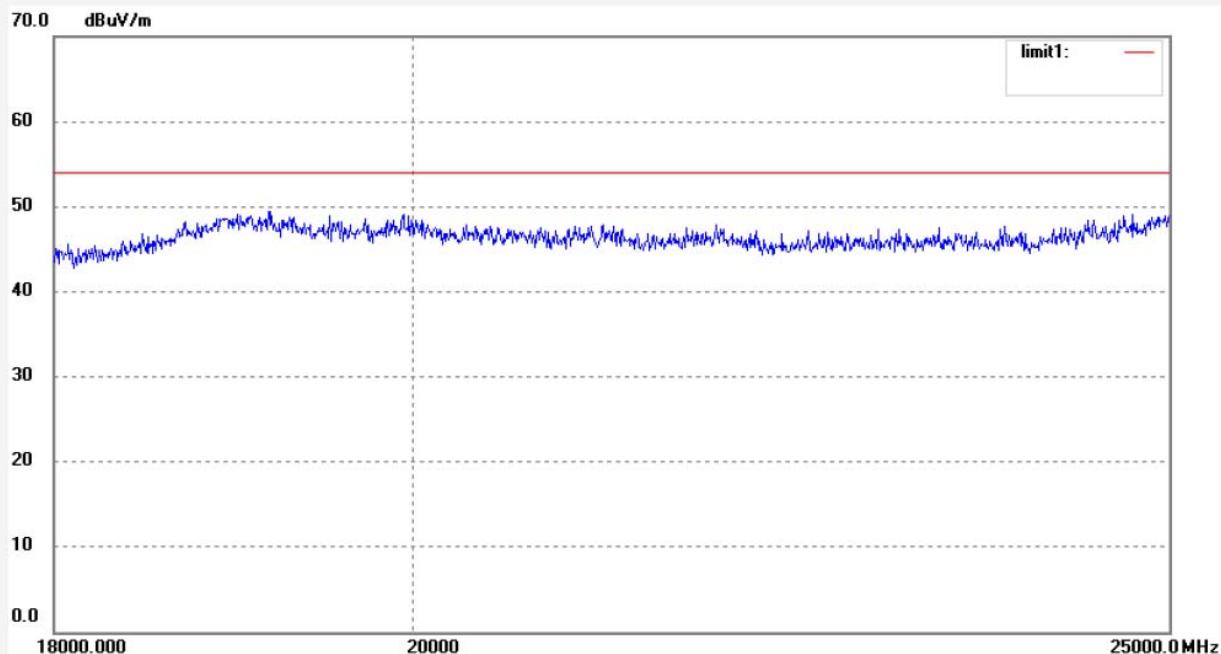
Mode: TX 2474MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note:Report No.:ATE20132082



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


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #526

Polarization: Vertical

Standard: FCC PK

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/10/04/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/36/11

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

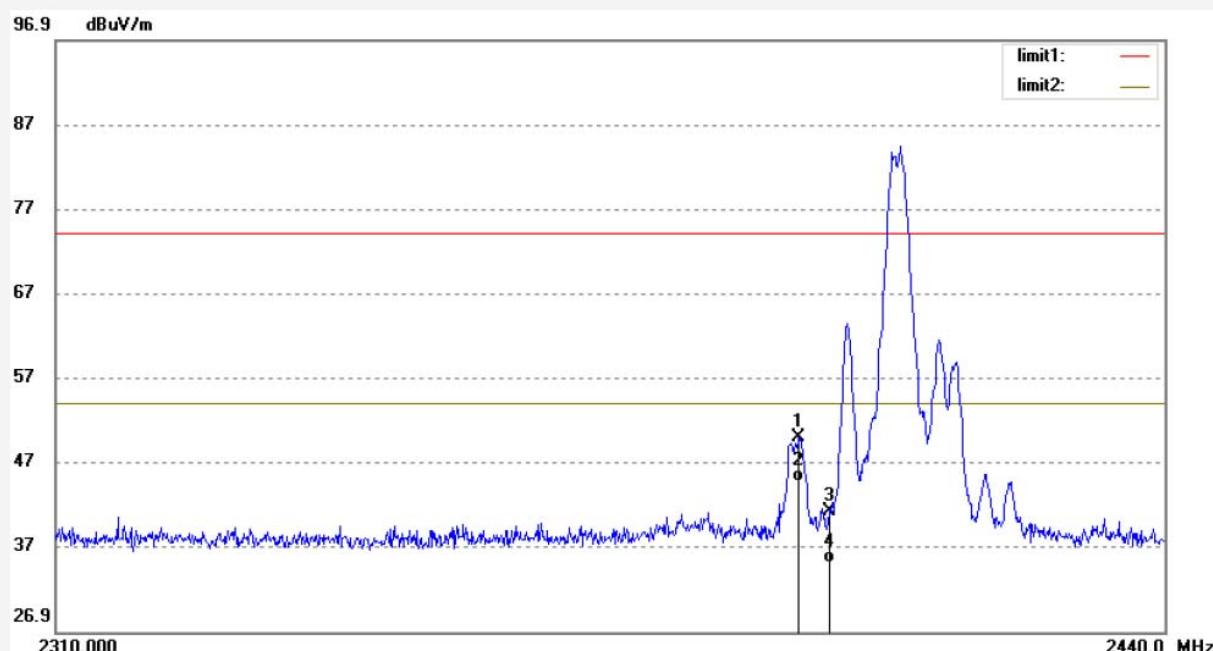
Mode: TX 2408MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



No.	Freq. (MHz)	Reading (dB _{UV/m})	Factor (dB)	Result (dB _{UV/m})	Limit (dB _{UV/m})	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2396.356	57.46	-7.48	49.98	74.00	-24.02	peak			
2	2396.356	52.08	-7.48	44.60	54.00	-9.40	AVG			
3	2400.000	48.61	-7.46	41.15	74.00	-32.85	peak			
4	2400.000	42.46	-7.46	35.00	54.00	-19.00	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RUCKY #527

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/10/04/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/44/58

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

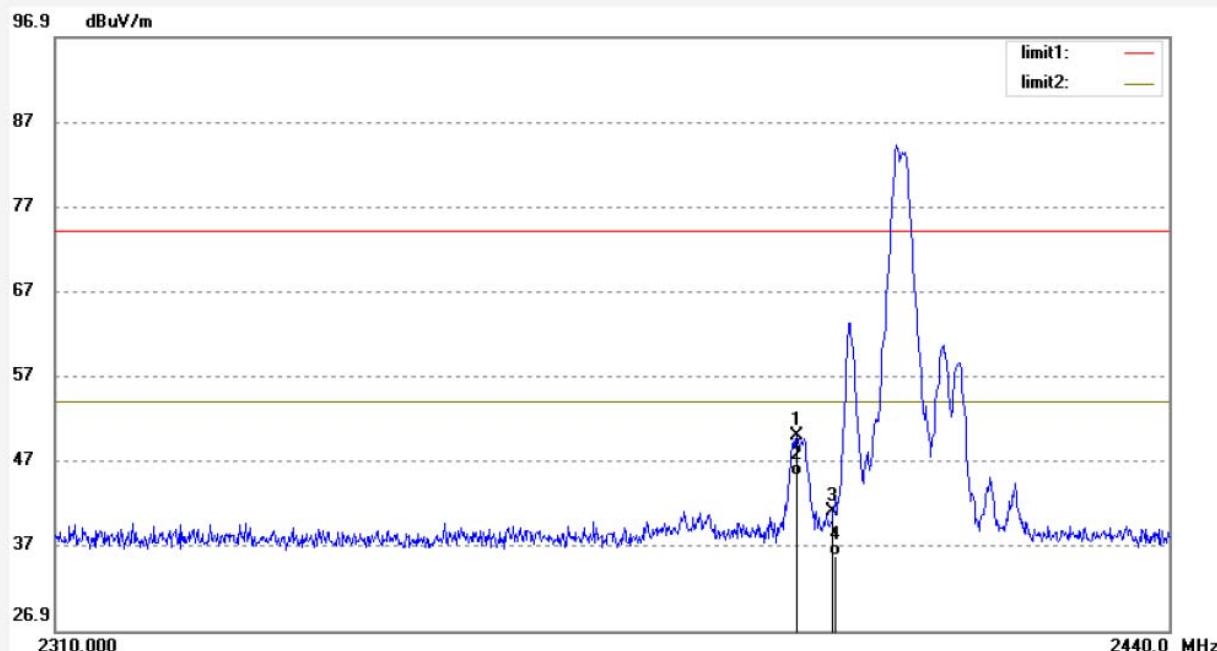
Mode: TX 2408MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2395.830	57.48	-7.49	49.99	74.00	-24.01	peak			
2	2395.830	52.69	-7.49	45.20	54.00	-8.80	AVG			
3	2400.000	48.44	-7.46	40.98	74.00	-33.02	peak			
4	2400.000	43.26	-7.46	35.80	54.00	-18.20	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #528

Polarization: Vertical

Standard: FCC PK

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/10/04/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/49/47

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

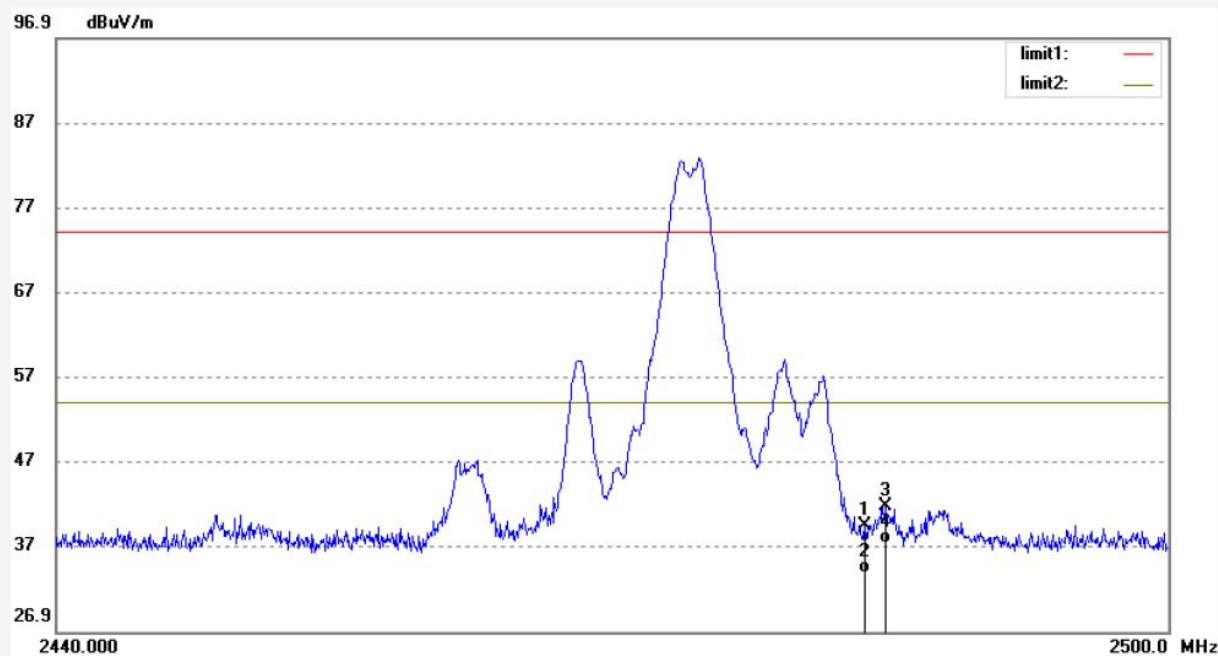
Mode: TX 2474MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



No.	Freq. (MHz)	Reading (dB _{UV/m})	Factor (dB)	Result (dB _{UV/m})	Limit (dB _{UV/m})	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.79	-7.37	39.42	74.00	-34.58	peak			
2	2483.500	41.17	-7.37	33.80	54.00	-20.20	AVG			
3	2484.591	49.12	-7.38	41.74	74.00	-32.26	peak			
4	2484.591	44.78	-7.38	37.40	54.00	-16.60	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RUCKY #529

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 1.5V

Test item: Radiation Test

Date: 13/10/04/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/57/36

EUT: 2.4G Wireless Optical Mouse

Engineer Signature:

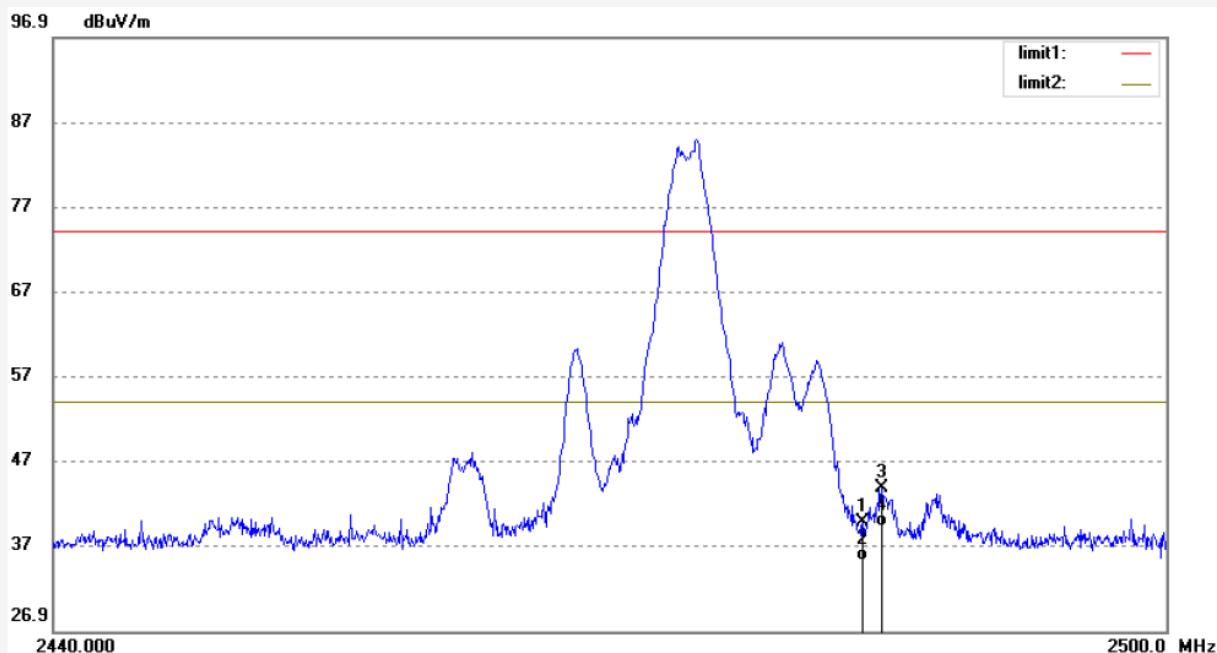
Mode: TX 2474MHz

Distance: 3m

Model: DS-2336

Manufacturer: Eastern

Note: Report No.:ATE20132082



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	47.16	-7.37	39.79	74.00	-34.21	peak			
2	2483.500	42.57	-7.37	35.20	54.00	-18.80	AVG			
3	2484.530	51.09	-7.38	43.71	74.00	-30.29	peak			
4	2484.530	46.58	-7.38	39.20	54.00	-14.80	AVG			