TEST REPORT

Report No.: EM201200126-4 Application No.: ZJ00013959

Client: CHESTER CREEK TECHNOLOGIES INC.

Address: 205 WEST 2ND STREET, SUITE 130, DULUTH, MN 55802, U.S.A.

Sample 2.4GKeyboard+Optical Mouse Combo

Description:

Model: WVBW+MS

Test Location: EMC Laboratory of Guangzhou GRG Metrology and Test Co., Ltd.

Test FCC 15.249:2010

Specification:

Issue Date: 2012-05-04

Test Result: Pass.

Prepared By:Reviewed By:Approved By:Apple Li / Test EngineerAngel Liu/ EngineerGavin Wu / Manager

Date: 2012-05-04 Date: 2012-05-04 Date: 2012-05-04

Other Aspects:

None

Abbreviations: ok/P = passed; fail/F = failed; n.a./N = not applicable

The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT.

GRG Metrology and Test Technology Co., Ltd.

Address: 163, Pingyun Road, West of Huangpu Avenue, Guangzhou, Guangdong, P.R. China

Crain Wu

Tel:+86-20-38699960 Fax:+86-20-38695185 Email: emc@grg.net.cn http://www.grgtest.com Ver.:2.0/ 01. Jan. 2011

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DIRECTIONS OF TEST

1. This station carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.

- 2. The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.
- 3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.

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1. TEST RESULT SUMMARY

FCC 15.249:2010							
Standard	Result						
FCC 15.249:2010	Intentional radiators Field Strength	FCC Part 15.249(a)	PASS				
	Radiated Electromagnetic Disturbance	FCC Part 15.249 (e)	PASS				
	Conduction Emissions	/	N/A(Note)				
	Out of Band Emissions	FCC Part 15.249(d)	PASS				

Note: The EUT is own DC 3V battery supply

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: CHESTER CREEK TECHNOLOGIES INC.

Address: 205 WEST 2ND STREET, SUITE 130, DULUTH, MN 55802, U.S.A.

2.2 MANFACTURER

Name: ACCESSPRO ELECTRONICS CO., LTD.

Address: ROOM 3B27, 3F, NO. 5, SEC. 5, HSIN YI ROAD, TAIPEI, TAIWAN,

R.O.C.

2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: 2.4GKeyboard+Optical Mouse Combo

Model No.: WVBW+MS

Trade Name: CHESTER CREEK

Power Supply: Keyboard+ Mouse :DC 3V(Battery Size: 1.5 "AA"*2)

Dongle:DC 5V(USB Port)

Channel 2402MHz~2480MHz

Channel number 79

Note: /

2.4 TEST OPERATION MODES

Test mode: Mode 1:Fixed frequency mode that continuous transmission with 100%

duty cycle

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3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests and measurements refer to this report were performed by EMC Laboratory of Guangzhou GRG Metrology and Test Co., Ltd.

Add. : 163 Pingyun Rd, West of Huangpu Ave, Guangzhou, 510656, P. R. China

Telephone: +86-20-38699959, 38699960, 38699961

Fax : +86-20-38695185

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC Listed Lab No. 688188	
China	CNAS NO.L0446	
China	DILAC No.DL175	
Canada	Registration No.:8355A-1	

3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency	Uncertainty
	Horizontal	30MHz~1000MHz	4.2dB
Radiated	Horizontal	1GHz∼18GHz	4.2dB
Emission	Vertical	30MHz~1000MHz	4.4dB
	Vertical	1GHz∼18GHz	4.4dB

This uncertainty represents an expanded uncertainty factor of k=2.

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3.4 LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment Manufacturer		Model	Serial Number	Calibration Due			
Radiated Emission							
Bi-Log Antenna	ETS-LINDGRE N	3142C	75971	2012-07-30			
EMI Receiver	Rohde & Schwarz	ESCI	100529	2012-06-09			
Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA9120E3 18	2011-09-24			
Intentional radiators I	Field Strength						
EMI Receiver	Rohde & Schwarz	ESCI	100529	2012-06-09			
Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA9120E3 18	2011-09-24			
Out of Band Emissions							
Out of Band Emissions	Rohde & Schwarz	ESCI	100529	2012-06-09			

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4. EMISSION TEST

4.1 INTENTIONAL RADIATORS FIELD STRENGTH

4.1.1 LIMITS

Frequency (MHz)	Field Strength
2400~2483.5	50(millivolts/meter)
Field Strength of Harmonics	500(microvolts/meter)

4.1.2 TEST PROCEDURE

Procedure of Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

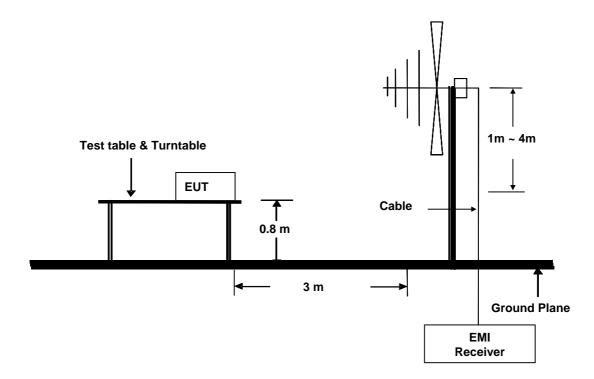
The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height $0.8~\text{m} \pm 0.01~\text{m}$, ANSI C63.10:2009 specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the test.

4.1.3 TEST SETUP



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4.1.4 TEST RESULTS

Test Result: Polarization: Horizontal **Standard:** DC 3V (RE)FCC PART 15 3m_PEAK **Power Source:** Test item: **Radiation Test** Date: 2012-4-11 Temp./Hum.(%RH): 25/57%RH Time: 17:43:34 **EUT:** Mouse Model: WVBW+MS Note:

Polarization	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Vertical	2402	35.22	31.21	66.43	114.00	47.57	peak
Vertical	2402	18.35	31.21	49.56	94.00	44.56	AVG
Horizontal	2402	38.30	27.25	65.55	114.00	48.45	peak
Horizontal	2402	19.45	27.25	46.70	94.00	47.3	AVG
Vertical	2441	33.21	27.40	60.61	114.00	53.39	peak
Vertical	2441	16.10	27.40	43.50	94.00	50.50	AVG
Horizontal	2441	38.64	27.40	66.04	114.00	47.96	peak
Horizontal	2441	22.80	27.40	50.20	94.00	43.80	AVG
Vertical	2480	31.67	27.53	59.20	114.00	54.80	peak
Vertical	2480	17.07	27.53	44.60	94.00	49.40	AVG
Horizontal	2480	37.29	27.53	64.82	114.00	49.18	peak
Horizontal	2480	20.27	27.53	47.80	94.00	46.2	AVG

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4.2 RADIATED ELECTROMAGNETIC DISTURBANCE

4.2.1 LIMITS

Frequency (MHz)	Quasi-peak(dBμV/m)
30 ~ 88	40
88~216	43.5
216 ~ 960	46
Above 960	54

NOTE: (1) The lower limit shall apply at the transition frequencies.

Frequency (GHz)	PEAK and AVG(dBμV/m)
Above 1G	74 PEAK
Above 1G	54 AVG

4.2.2 TEST PROCEDURES

Procedure of Preliminary Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height 0,8 m \pm 0,01 m, ANSI C63.10:2009 $\,$ specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test. The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level. Record at least six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only QP reading is presented. The test data of the worst-case condition(s) was recorded.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

4.2.3 TEST SETUP

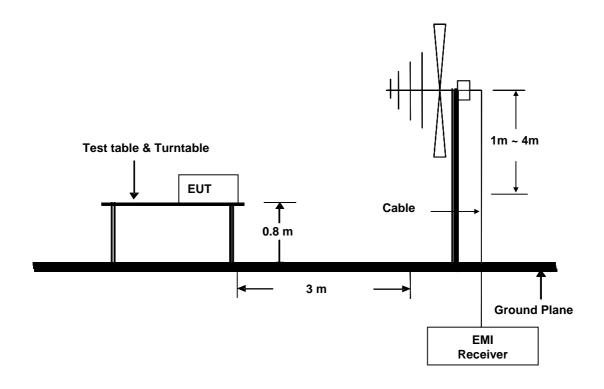


Figure 1. 30MHz to 1GHz radiated emissions test configuration

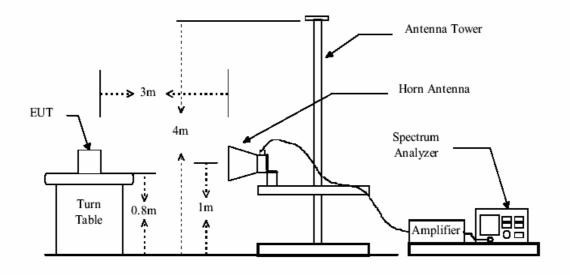
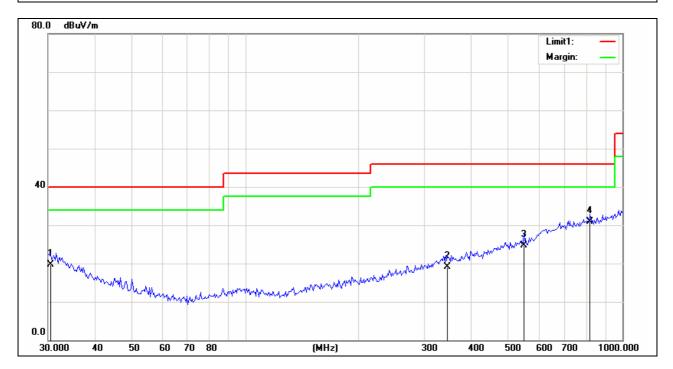


Figure 2. Above 1GHz radiated emissions test configuration

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4.2.4 TEST RESULTS

Test Result:	Pass	Probe:	Vertical
Standard:	(RE)FCC PART 15 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2012-4-11
Temp./Hum.(%RH):	25/57%RH	Time:	15:26:05
EUT:	Mouse	Model:	WVBW+MS
Note:	2402MHZ		



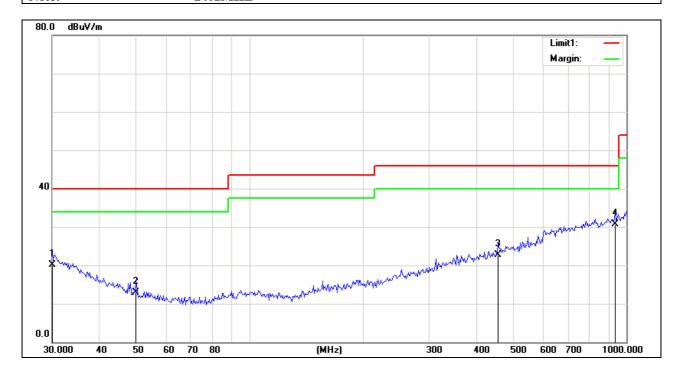
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.5100	0.58	19.12	19.70	40.00	-20.30	QP
2	343.7977	2.11	17.09	19.20	46.00	-26.80	QP
3	548.1068	3.61	21.19	24.80	46.00	-21.20	QP
4	821.4519	5.63	25.27	30.90	46.00	-15.10	QP

No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	3624.890	56.65	74.00	-17.35	PEAK
2	3624.890	44.22	54.00	-9.78	AVG
3	4763.044	58.34	74.00	-15.66	PEAK
4	4763.044	45.25	54.00	-8.75	AVG
5	8284.556	64.26	74.00	-9.74	PEAK
6	8284.556	48.01	54.00	-5.99	AVG

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Test Result: Pass Probe: Horizontal **Standard:** (RE)FCC PART 15 3m **Power Source:** DC 3V Test item: **Radiation Test** Date: 2012-4-11 Temp./Hum.(%RH): 25/57%RH Time: 15:36:05 EUT: Mouse Model: WVBW+MS2402MHZ Note:

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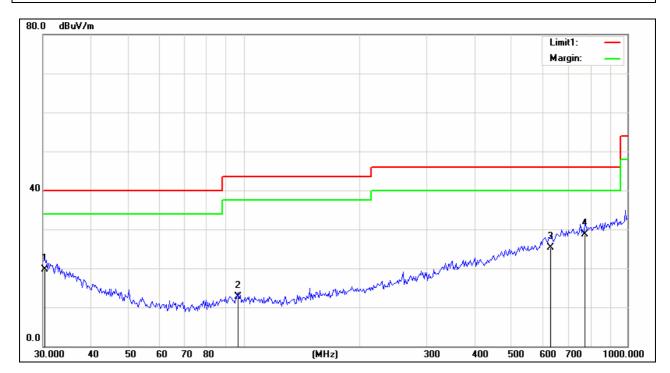


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	0.77	19.43	20.20	40.00	-19.80	QP
2	50.0274	3.16	9.74	12.90	40.00	-27.10	QP
3	457.8983	3.43	19.27	22.70	46.00	-23.30	QP
4	934.7894	4.65	26.15	30.80	46.00	-15.20	QP

No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	3638.291	55.49	74.00	-18.51	PEAK
2	3638.291	45.20	54.00	-8.8	AVG
3	5480.019	59.26	74.00	-14.74	PEAK
4	5480.019	46.09	54.00	-7.91	AVG
5	7666.822	63.73	74.00	-10.27	PEAK
6	7666.822	47.34	54.00	-6.66	AVG

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Test Result: Pass Probe: Vertical **Standard:** (RE)FCC PART 15 3m **Power Source:** DC 3V Test item: **Radiation Test** Date: 2012-4-11 Temp./Hum.(%RH): 25/57%RH Time: 15:46:05 EUT: Model: WVBW + MSMouse 2441MHZ Note:

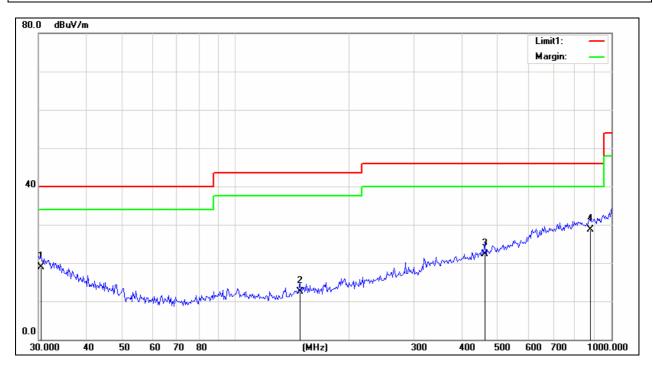


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.3389	0.48	19.22	19.70	40.00	-20.30	QP
2	96.5489	2.91	9.89	12.80	43.50	-30.70	QP
3	630.7803	2.49	22.81	25.30	46.00	-20.70	QP
4	776.5634	4.06	24.64	28.70	46.00	-17.30	QP

No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	3789.009	57.24	74.00	-16.76	PEAK
2	3789.009	46.67	54.00	-7.33	AVG
3	7017.038	62.63	74.00	-11.37	PEAK
4	7017.038	50.53	54.00	-3.47	AVG
5	8595.970	63.62	74.00	-10.38	PEAK
6	8595.970	51.67	54.00	-2.33	AVG

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Test Result: Pass Probe: Horizontal **Standard:** (RE)FCC PART 15 3m **Power Source:** DC 3V Test item: **Radiation Test** Date: 2012-4-11 Temp./Hum.(%RH): 25/57%RH Time: 15:56:05 **EUT:** Model: WVBW+MS Mouse Note: **2441MHZ**

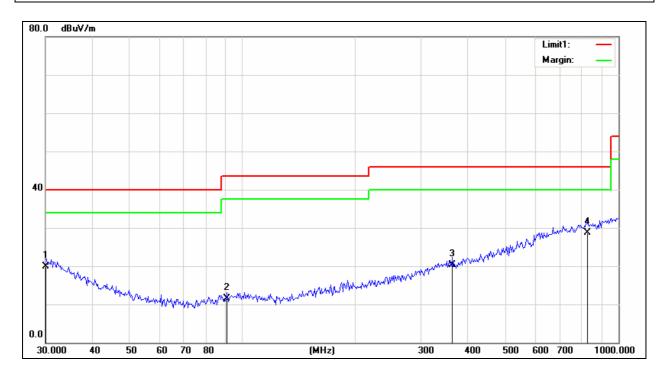


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.5100	-0.22	19.12	18.90	40.00	-21.10	QP
2	148.8217	2.58	10.02	12.60	43.50	-30.90	QP
3	460.4787	2.91	19.39	22.30	46.00	-23.70	QP
4	878.7558	3.13	25.67	28.80	46.00	-17.20	QP

No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	3638.291	56.75	74.00	-17.25	PEAK
2	3638.291	45.67	54.00	-8.33	AVG
3	5108.970	59.10	74.00	-14.90	PEAK
4	5108.970	47.89	54.00	-6.11	AVG
5	8043.568	64.17	74.00	-9.83	PEAK
6	8043.568	50.22	54.00	-3.78	AVG

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Test Result: Pass Probe: Vertical **Standard: Power Source:** DC 3V (RE)FCC PART 15 3m Test item: **Radiation Test** Date: 2012-4-11 Temp./Hum.(%RH): 25/57%RH Time: 15:26:56 EUT: Mouse Model: WVBW+MS2480MHZ Note:

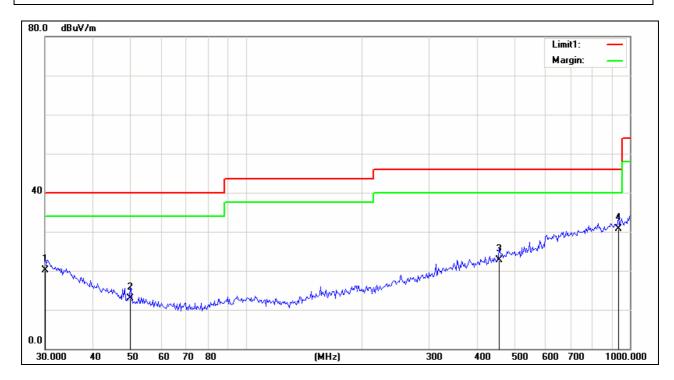


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	0.47	19.43	19.90	40.00	-20.10	QP
2	91.2728	1.84	9.66	11.50	43.50	-32.00	QP
3	361.6326	2.83	17.47	20.30	46.00	-25.70	QP
4	826.0810	3.50	25.30	28.80	46.00	-17.20	QP

No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	3638.291	56.95	74.00	-17.05	PEAK
2	3638.291	46.67	54.00	-7.33	AVG
3	6212.541	60.19	74.00	-13.81	PEAK
4	6212.541	47.90	54.00	-6.10	AVG
5	8133.105	63.81	74.00	-10.19	PEAK
6	8133.105	50.22	54.00	-3.78	AVG

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Test Result: Pass Probe: Horizontal Standard: (RE)FCC PART 15 3m **Power Source:** DC 3V Test item: 2012-4-11 **Radiation Test** Date: Temp./Hum.(%RH): 25/57%RH 15:26:56 Time: WVBW+MS **EUT:** Mouse **Model:** Note: 2480MHZ



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.5100	-0.22	19.12	18.90	40.00	-21.10	QP
2	148.8217	2.58	10.02	12.60	43.50	-30.90	QP
3	460.4787	2.91	19.39	22.30	46.00	-23.70	QP
4	878.7558	3.13	25.67	28.80	46.00	-17.20	QP

Emission above 1GHz:

No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	3665.241	56.79	74.00	-17.21	PEAK
2	3665.241	46.67	54.00	-7.33	AVG
3	5582.065	59.76	74.00	-14.24	PEAK
4	5582.065	49.90	54.00	-4.10	AVG
5	8013.941	64.92	74.00	-9.08	PEAK
6	8013.941	52.22	54.00	-1.78	AVG

Remark:

The disturbance above 10G was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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4.3 OUT OF BAND EMISSIONS

4.3.1 LIMITS

Emissions 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.

4.3.2 TEST PROCEDURES

Procedure of Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

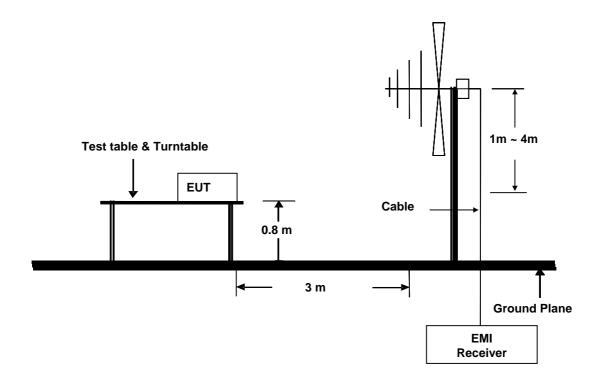
The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height 0,8 m \pm 0,01 m, ANSI C63.10:2009specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the test.

4.3.3 TEST SETUP



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4.3.4 TEST RESULTS

The field strength was measured with an EMI measuring receiver and 1 MHz RBW / VBW for peak and with 1MHz RBW / 10Hz VBW for average at a distance of 3m

Peak Measurement:

No.	Frequency	Reading	Correct	Result	Limit	Over	Antenna
						Limit	polarization
	(MHz)	(dBuV/m)	Factor (dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2395.192	51.50	2.66	54.16	74.00	-19.84	Horizontal
2	2483.590	51.60	5.88	57.48	74.00	-16.52	Horizontal
3	2395.192	51.60	2.66	54.26	74.00	-19.74	Vertical
4	2483.590	51.44	5.88	57.32	74.00	-16.68	Vertical

AV Measurement:

No.	Frequency	Reading	Correct	Result	Limit	Over	Antenna
						Limit	polarization
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2395.192	32.55	2.66	35.21	54.00	-18.79	Horizontal
2	2483.590	28.60	5.88	34.48	54.00	-19.52	Horizontal
3	2395.192	31.56	2.66	34.22	54.00	-19.78	Vertical
4	2483.590	29.00	5.88	34.88	54.00	-19.12	Vertical

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