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# CFR 47 FCC Part 15.249 TEST REPORT

Product: RF 2.4G Wireless Keyboard

Trade Name: N/A

Model Number: PSK-4571; ASK-4571; KSK-5211RFM

FCC ID: RAC4571A01

Prepared for

#### PRECISION SQUARED TECHNOLOGY CORPORATION

5F-7, NO.2 JIAN BA ROAD, CHUNG HO CITY, TAIPEI HSIENG, TAIWAN, R.O.C.

TEL.: +886 2 8228 0125

FAX.: +886 2 8228 0105

Prepared by

#### Interocean EMC Technology Corp.

244 No.5-2, Lin 1, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County, Taiwan, R.O.C.

TEL.: +886 2 2600 6861 FAX.: +886 2 2600 6859

#### Remark:

The test report consists of <u>37</u> pages in total. It shall not be reproduced except in full, without the written approval of IETC. This document may be altered or revised by IETC only, and shall be noted in the revision section of the document.

The test results in the report only to the tested sample.

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# **Statement of Compliance**

Applicant: PRECISION SQUARED TECHNOLOGY CORPORATION

Manufacturer: JING MOLD ELECTRONIC TECHNOLOGY (SHEN ZHEN) CO., LTD.

**Product:** RF 2.4G Wireless Keyboard

**Model No.:** PSK-4571; ASK-4571; KSK-5211RFM

Tested Power Supply: DC 3V

Date of Final Test: Apr. 25, 2011

**Revision of Report:** Rev. 00

Configuration of Measurements and Standards Used:

FCC Rules and Regulations Part 15 Subpart C

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.4, and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

**Note:** 1. The result of the testing report relate only to the item tested.

2. The testing report shall not be reproduced expect in full, without the written approval of IETC

Project Engineer:	Zili Chang	Approved:	Jerry Lin
	Elli Chang		Jerry Liu

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#### 1 General Information

#### 1.1 Description of Equipment Under Test

**Product**: RF 2.4G Wireless Keyboard

**Model Number** : PSK-4571; ASK-4571; KSK-5211RFM

Applicant : PRECISION SQUARED TECHNOLOGY CORPORATION

5F-7, NO.2 JIAN BA ROAD, CHUNG HO CITY, TAIPEI HSIENG, TAIWAN,

R.O.C.

Manufacturer : JING MOLD ELECTRONIC TECHNOLOGY (SHEN ZHEN) CO., LTD.

Xinqiao, 3rd Industral Zone, Shajing Town, Paoan District, Shenzhen City,

Guangdong Province. China, Shenzhen, GuangDong, China.

Operating Frequency: 2405MHz ~ 2477MHz

Channel Number : Refer to section 1.2

Type of Modulation : GFSK

**Antenna description**: This device uses PCB Print antenna.

The antenna is integral to the device, thereby meeting the requirement of

FCC 15.203.

**Date of Test** : Apr. 14 ~ 25, 2011

Additional Description: 1. The model PSK-4571 is representative selected in the test and

included in this report.

2. All model included in this report, the difference is for different market;

the rest parts are identical.

3. For more detail specification about EUT, please refer to the user's

manual.

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## 1.2 Table for Carrier Frequencies

CH No.	1	2	3	4	5	6	7	8	9	10	11
CF (MHz)	2405	2409	2413	2417	2421	2425	2429	2433	2437	2441	2445

CH No.	12	13	14	15	16	17	18	19
CF (MHz)	2449	2453	2457	2461	2465	2469	2473	2477

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#### 1.3 Details of Tested Supporting System

#### 1.3.1 Personal Computer

PC25

Model Number : ASUS-BM5320

CPU Speed : Intel Core2 Duo E5200

EMC Compliance : BSMI R31018

Manufacturer : ASUS

RAM : Anya 1G DDR2 800

Hard Disk Driver : Seagate ST32500310AS 250G

Switching Power Supply: Detal GPS-300AB C 300W

USB 3.0 Card : Manufacturer: BUFFALO, Model: IFC-PCIE2U3-AP,

SN: 15542291202517

FCC, CE, VCCI, BSMI D33093

Power Cord : Non-shielded, Detachable, 1.8m, w/o core

#### 1.3.2 Monitor

MT30

Model Number : CMV 92GH 19"

Serial Number : 92GHAGCN9120289

EMC Compliance : FCC, CE, BSMI: R31374, UL, TUV

Manufacturer : CHIMEI

Power Cord : Non-shielded, Detachable, 1.8m, w/o core D-Sub Cable : Non-shielded, Detachable, 1.8m, with core

#### 1.3.3 Modem

MD03

Model Number : 199450042

Serial Number : 211-28E1-1100-3

EMC Compliance : N/A

Manufacturer : DATATRONICS

Data Cable : Shielded, Detachable, 1.5m Power Adapter : Amigo, Model AM-12830A

Non-Shielded, Detachable, 1.8m

1.3.4 Printer

PR06

Model Number : C20SX

Serial Number : DW4E085945 EMC Compliance : BSMI 3902E004

Manufacturer : EPSON

Data Cable : Shielded, Detachable, 1.8m

Power Cord : Non-shielded, Un-detachable, 1.8m

1.3.5 Mouse

USB58

Model Number : CMS-721

Serial Number : 02904439NF

EMC Compliance : CE, FCC, C-Tick, BSMI

Manufacturer : Aopen

Data Cable : Non-shielded, detachable, 1.0m

1.3.6 Dongle

Model Number : PSX-2302

Manufacturer : PERCISION

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#### 1.4 Test Facility

Site Description : ⊠Conduction 2 ⊠OATS 2

Name of Firm : Interocean EMC Technology Corp.

Company web : http://www.ietc.com.tw

**Site 1, 2, 3 Location**: No.5-2, Lin 1, Tin-Fu Tsun, Lin-Kou Hsiang,

Taipei County, Taiwan, R.O.C.

Site Filing : • Federal Communication Commissions – USA

Registration No.: 96399 (OATS 1 & 2) Registration No.: 518958 (OATS 3)

Designation No.: TW1020

Voluntary Control Council for Interference by Information

Technology Equipment (VCCI) – Japan

Member No.: 1349

Registration No. (Conducted Room): C-1094 Registration No. (Conducted Room): T-1562 Registration No. (OATS 1): R-1040; G-274

Registration No. (OATS 2): R-1041

Industry Canada (IC)

OUR FILE: 46405-4437 Submission: 145171 Registration No. (OATS 1): Site# 4437A-1 Registration No. (OATS 2): Site# 4437A-2 Registration No. (OATS 3): Site# 4437A-3

Site Accreditation : • Bureau of Standards and Metrology and Inspection (BSMI) –

Taiwan, R.O.C.

Accreditation No.:

SL2-IN-E-0026 for CNS13438 / CISPR22 SL2-R1-E-0026 for CNS13439 / CISPR13 SL2-R2-E-0026 for CNS13439 / CISPR13 SL2-A1-E-0026 for CNS13783-1 / CISPR14-1 SL2-L1-E-0026 for CNS 14115 / CISPR 15

Taiwan Accreditation Foundation (TAF)

Accrditation No.: 1113

TüV NORD

Certificate No: TNTW0801R-03













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### 1.5 Test Equipment

Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSP30	100002	2012/01/02
Biconical Antenna	Schwarzbeck	VHA 9103	2484	2011/10/08
Log Antenna	Schwarzbeck	UHALP 9108	A 0765	2011/10/08
Preamplifier	Agilent	8449B	3008A01434	2012/04/28
Preamplifier	Agilent	83050A	3950A00225	2012/09/07
Preamplifier	SCHAFFNER	CA30100	2	2011/10/28
Horn Antenna	COM-POWER	AH-118	10081	2012/05/19
Horn Antenna	Schwarzbeck	BBHA 9170	213	2012/07/19
Temp & Humidity chamber	GIAN FORCE	GTH-150-40-2P-U	MAA0305-012	2011/05/07
EMI Test Receiver	R&S	ESCS30	100134	2011/07/20
RF Cable	HARBOUR	M71/128-RG400	MILC17-1	2011/07/23
L.I.S.N.	Schaffner	MN2050D	1597	2011/06/10
L.I.S.N.	R&S	ESH3-Z5	829996/016	2011/01/09

Note: The above equipments are within the valid calibration period.

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## 1.6 Summary of Measurement

Report Clause	lest Parameter	Reference Document CFR47 Part15	Results
2	20dB Bandwidth test	§15.215	Pass
3	RF Radiated spurious emission test	§15.249(a)(c)(d)	Pass
4	Emission on the Band Edge	§15.249(d)	Pass
5	AC Power Line Conducted Emission test	§15.207	Pass

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#### 1.7 Justification

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of the frequency band were all arrive limit requirement, thus we evaluate the EUT pass the specified test.

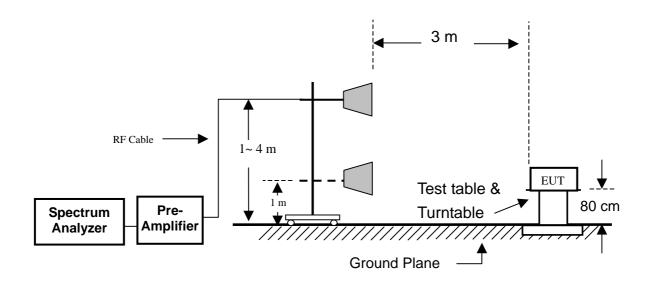
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#### 2 20dB Bandwidth test

#### 2.1 Limit

According to FCC 15.215 requirement, there was no regulation limit and for reference purpose.

#### 2.2 Configuration of Measurement



#### 2.3 Test Procedure

The 20dB bandwidth per FCC §15.215 was measured using spectrum analyzer with the resolutions bandwidth set at 100 kHz, the video bandwidth ≥ RBW, and the SPAN may equal to approximately 2 to 3 time the 20dB bandwidth.

#### 2.4 Test Result

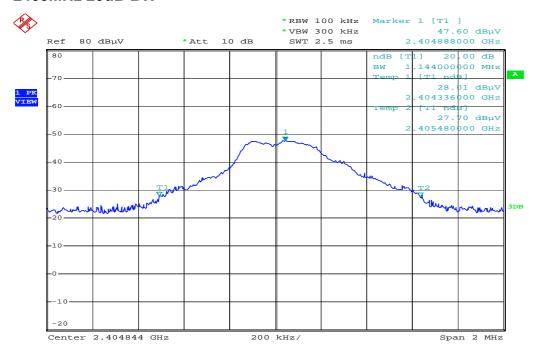
#### PASS.

The final test data is shown as following pages.

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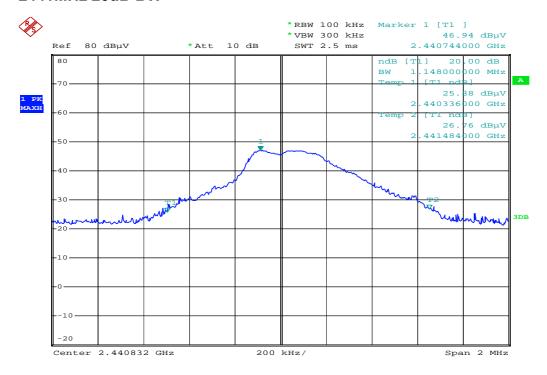
Test	t CH	20dP Pandwidth (MU=)
Modulation	Frq. (MHz)	20dB Bandwidth (MHz)
	2405	1.144
GFSK	2441	1.148
	2477	1.136

#### 2405MHz 20dB BW



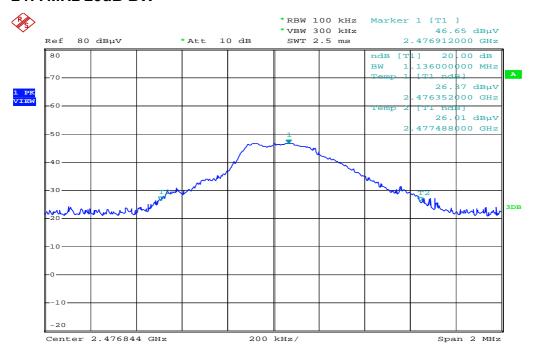
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#### 2441MHz 20dB BW



D

#### 2477MHz 20dB BW



## 3 RF Radiated spurious emission test

#### 3.1 Limit

According to §15.249 (a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

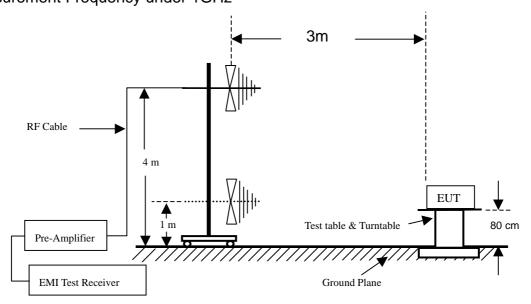
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

For intentional radiator, the radiated emission shall comply with §15.209(a).

Frequency (MHz)	Field strength dB( $\mu$ V/m)	Measurement distance (meters)		
1.705~30.0	29.5	30		
30 ~ 88	40	3		
88~216	43.5	3		
216~960	46	3		
Above 960	54	3		

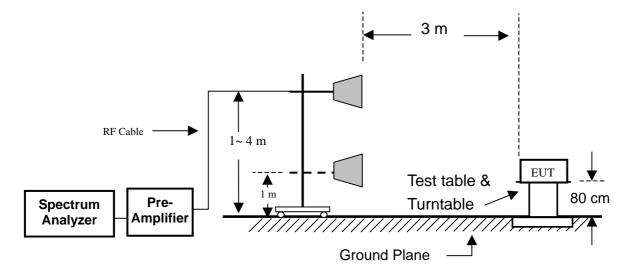
## 3.2 Configuration of Measurement

Measurement Frequency under 1GHz



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#### Measurement Frequency above 1GHz



#### 3.3 Test Procedure

The EUT was setup to ANSI C63.4, 2003.

Radiated emission measurements were performed from 30MHz to 25GHz. Spectrum Analyzer set as below: For frequency range from 30MHz to 1GHz: RBW=100kHz or greater. For frequencies above 1GHz: set RBW=VBW=1MHz for peak detector and RBW=1MHz, VBW=10Hz for average detector.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meter and down to 1 meter.

#### 3.4 The description of operation mode

Setup EUT to continuously transmit signal with 100% duty cycle during the test period.

#### 3.5 Test Result

#### PASS.

The final test data is shown on as following pages.

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# Radiated spurious emission

#### **Fundamental Emissions**

Low chann	Low channel										
Frequency (MHz)	Antenna Polarization		Preamp (dB)	Correction Factor (dB/m)	Corrected Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Det. Mode			
2405	Н	59.86	26.28	31.03	64.61	94	-29.39	PK			
2405	V	59.02	26.28	31.03	63.77	94	-30.23	PK			

Middle cha	Middle channel										
Frequency (MHz)	Antenna Polarization	Reading (dB $\mu$ V)	Preamp (dB)	Correction Factor (dB/m)	Corrected Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Det. Mode			
2441	Н	61.52	26.29	31.09	66.32	94	-27.68	PK			
2441	V	59.46	26.29	31.09	64.26	94	-29.74	PK			

F	ligh chan	nel							
F	requency (MHz)	Antenna Polarization	Reading (dB $\mu$ V)	Preamp	Correction Factor (dB/m)	Corrected Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Det. Mode
	2477	Н	62.86	26.30	31.16	67.72	94	-26.28	PK
	2477	V	60.35	26.30	31.16	65.21	94	-28.79	PK

#### Remark:

- Corrected Level = Reading Preamp + Correction Factor
   Correction Factor = Antenna Factor + Cable Loss

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## Radiated spurious emission

#### **Test Environment**

Ambient temperature : 25.2°C

Relative humidity : 54%

#### **Radiated Emission below 1GHz**

After verifying low, middle and high channel (2405MHz, 2441MHz and 2477MHz), the worse case was found at hight channel, the data will present on report.

Worst case: High channel										
Frequency (MHz)	Antenna Polarization	Reading (dB $\mu$ V)	Preamp (dB)	Correction Factor (dB/m)	Corrected Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Det. Mode		
120.000	Н	48.63	33.00	13.83	29.46	43.52	-14.06	QP		
166.320	Н	44.70	33.36	16.80	28.14	43.52	-15.38	QP		
240.000	Н	49.68	33.40	19.65	35.93	46.02	-10.09	QP		
336.000	Н	48.96	33.56	17.30	32.70	46.02	-13.32	QP		
433.230	Н	49.88	34.20	20.15	35.83	46.02	-10.19	QP		
480.000	Н	47.00	33.90	21.22	34.32	46.02	-11.70	QP		
65.600	V	52.56	33.30	7.42	26.68	40.00	-13.32	QP		
115.630	V	48.52	33.00	13.89	29.41	43.52	-14.11	QP		
165.320	V	44.62	33.35	17.67	28.94	43.52	-14.58	QP		
240.000	V	47.62	33.40	21.05	35.27	46.02	-10.75	QP		
336.000	V	48.85	33.56	17.24	32.53	46.02	-13.49	QP		
480.000	V	46.56	33.90	20.92	33.58	46.02	-12.44	QP		

Remark: Corrected Level = Reading + Correction Factor - Preamp

Correction Factor = Antenna Factor + Cable Loss

The present spurious only show those points are above noise level and the frequency range test from 30MHz to 1GHz.

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# Radiated spurious emission

#### **Radiated Emission above 1GHz**

Low Channel										
Frequency (MHz)	Antenna Polarization	Reading (dB μ V)	Preamp (dB)	Correction Factor (dB/m)	Corrected Level (dB $\mu$ V/m)	Limits (dB μ V/m)	Margin (dB)	Det. Mode		
4810	Н	40.26	26.04	36.83	51.05	54	-2.95	PK		
*7215	Н	34.26	25.77	42.20	50.69	54	-3.31	PK		
4810	V	40.85	26.04	36.83	51.64	54	-2.36	PK		
*7215	V	33.63	25.77	42.20	50.06	54	-3.94	PK		

Middle Channel										
Frequency (MHz)	Antenna Polarization	Reading (dB $\mu$ V)	Preamp (dB)	Correction Factor (dB/m)	Corrected Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Det. Mode		
4882	Н	39.69	26.02	37.04	50.71	54	-3.29	PK		
*7323	Н	33.62	25.71	42.51	50.42	54	-3.58	PK		
4882	V	38.20	26.02	37.04	49.22	54	-4.78	PK		
*7323	V	33.58	25.71	42.51	50.38	54	-3.62	PK		

High Channel										
Frequency (MHz)	Antenna Polarization	Reading (dB $\mu$ V)	Preamp (dB)	Correction Factor (dB/m)	Corrected Level (dB $\mu$ V/m)	Limits (dB μ V/m)	Margin (dB)	Det. Mode		
4954	Н	40.56	26.01	37.26	51.81	54	-2.19	PK		
*7431	Н	33.86	25.64	42.80	51.02	54	-2.98	PK		
4954	V	38.21	26.01	37.26	49.46	54	-4.54	PK		
*7431	V	34.00	25.64	42.80	51.16	54	-2.84	PK		

Remark : Corrected Level = Reading + Correction Factor - Preamp

Correction Factor = Antenna Factor + Cable Loss

<sup>\*</sup> Mark indicated background noise level.

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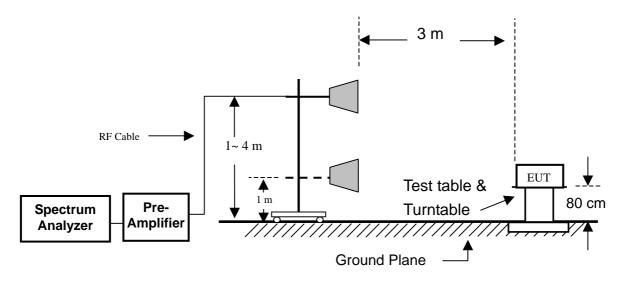
## 4 Emission on the Band Edge test

#### 4.1 Limit

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 §15.209, whichever is the lesser attenuation.

#### 4.2 Configuration of Measurement

Measurement Frequency above 1GHz



#### 4.3 Test Procedure

The EUT was setup to ANSI C63.4, 2003.

Set RBW =1M, VBW= RBW for peak, and VBW=10Hz for average.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meter and down to 1 meter.

#### 4.4 Test Result

#### PASS.

The final test data is shown on as following pages.

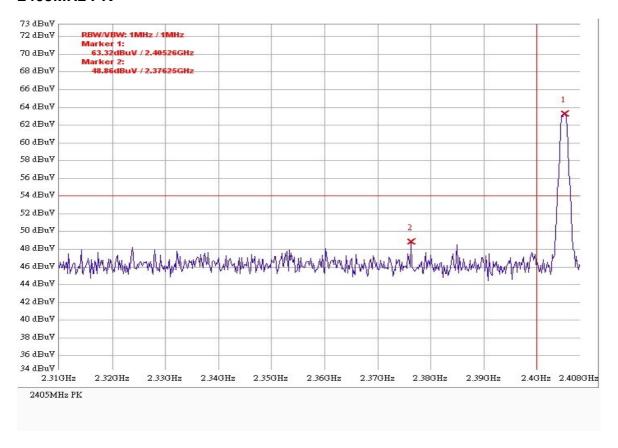
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# **Band edge**

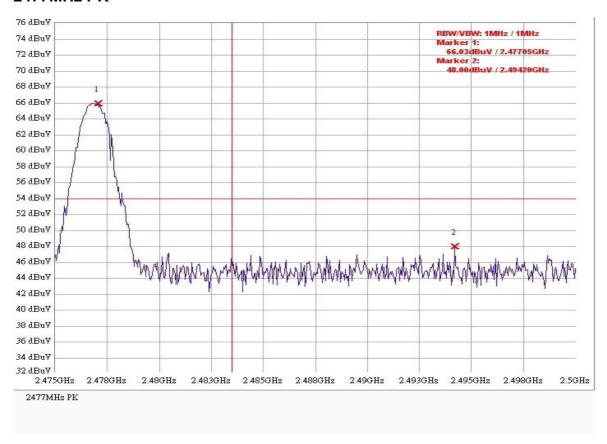
Frequency	Restrict Freq. Band (MHz)	Detector Mode	Maximum level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
2405	2310~2400	PK	48.86	54	-5.14
2477	2483.5~2500	PK	48.00	54	-6

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#### 2405MHz PK



#### 2477MHz PK



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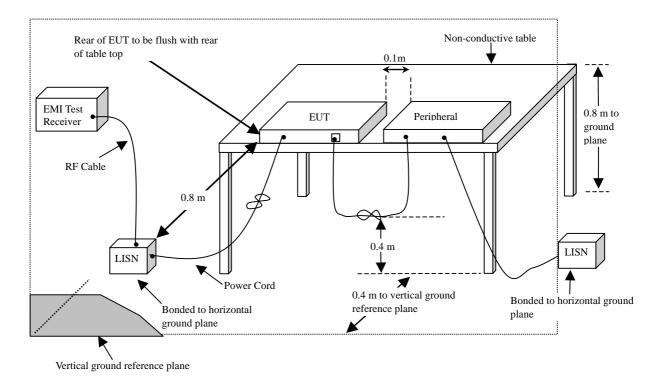
#### 5 AC Power Line Conducted Emission test

#### 5.1 Limits

Frequency	Quasi-Peak	Average
(MHz)	(dB <i>μ</i> V)	(dB $\mu$ V)
0.15 to 0.5	66 to 56	56 to 46
> 0.5 to 5	56	46
> 5 to 30	60	50

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

#### 5.2 Configuration of Measurement



#### 5.3 Test Procedures

- 1) The EUT was placed 80cm height above ground on a non-conductive table and vertical conducting plane located 40cm to the rear of the EUT.
- 2) The EUT was connected to the main power through Line Impedance Stabilization Networks (LISN). This setup provided a 50ohm/50mH coupling impedance for the measuring equipment. The auxiliary equipment will place in secondary LISN.
- 3) Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/2003 on conducted measurement.

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#### 5.4 Test Result

#### PASS.

The final test data is shown as following pages.

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## **Power Line Conducted Test Data**

EUT: RF 2.4G Wireless Keyboard POLARITY: Line

CLIENT: PRECISION DISTANCE: MODEL: PSK-4571 Serial No.:

RATING: DC 3V FILE/DATA#: PRECISION.emi/14

Temperature: 26.0  $^{\circ}$  OPERATOR: Fox

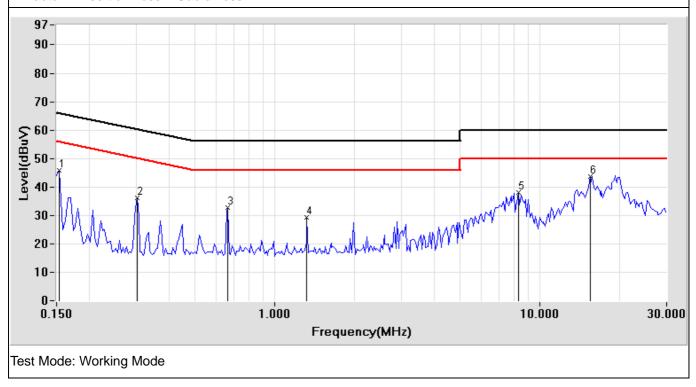
Humidity: 54 % TEST SITE: Conduction 2

Frequency	Factor	Meter Reading (dBµV)		Emission Level (dBµV)		Limits (dBµV)		Margin (dB)		
(MHz)	(dB)	Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average	
0.154	0.21	42.00	33.54	42.21	33.75	65.78	55.78	-23.57	-22.03	
0.302	0.18	35.13	27.67	35.31	27.85	60.19	50.19	-24.88	-22.34	
0.662	0.18	29.54	29.42	29.72	29.60	56.00	46.00	-26.28	-16.40	
1.318	0.18	28.78	27.43	28.96	27.61	56.00	46.00	-27.04	-18.39	
8.287	0.46	30.45	26.40	30.91	26.86	60.00	50.00	-29.09	-23.14	
15.420	0.86	35.83	29.34	36.69	30.20	60.00	50.00	-23.31	-19.80	

#### Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.



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## **Power Line Conducted Test Data**

EUT: RF 2.4G Wireless Keyboard POLARITY: Neutral

CLIENT: PRECISION DISTANCE: MODEL: PSK-4571 Serial No.:

RATING: DC 3V FILE/DATA#: PRECISION.emi/15

Temperature: 26.0 ℃ OPERATOR: Fox Humidity: 54 % TEST SITE: Conduction2

Frequency	Factor	Meter Reading (dBμV)		Emission Level (dBµV)		Limits (dBµV)		Margin (dB)	
(MHz)	(dB)	Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average
0.150	0.22	43.64	41.51	43.86	41.73	66.00	56.00	-22.14	-14.27
0.295	0.19	29.90	29.41	30.09	29.60	60.38	50.38	-30.29	-20.78
0.662	0.18	31.53	30.06	31.71	30.24	56.00	46.00	-24.29	-15.76
1.322	0.18	28.54	28.15	28.72	28.33	56.00	46.00	-27.28	-17.67
7.978	0.40	35.22	35.00	35.62	35.40	60.00	50.00	-24.38	-14.60
19.673	0.89	37.94	32.17	38.83	33.06	60.00	50.00	-21.17	-16.94

#### Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.

