

CFR 47 FCC Part 15.249

TEST REPORT

Product : **RF 2.4G Wireless Keyboard**

Trade Name : N/A

Model Number : PSK-4361; ASK-4361; XEK-100S; XEK-100B;
XEK-100W

FCC ID : RAC4361A01

Prepared for

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Remark :

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

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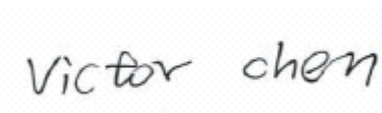
Statement of Compliance

Applicant: PRECISION SQUARED TECHNOLOGY CORPORATION
Manufacturer: JING MOLD ELECTRONIC TECHNOLOGY (SHEN ZHEN) CO., LTD.
Product: RF 2.4G Wireless Keyboard
Model No.: PSK-4361; ASK-4361; XEK-100S; XEK-100B; XEK-100W
Tested Power Supply: DC 3V
Date of Final Test: Oct. 27, 2010
Revision of Report: Rev. 01
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

Report Issued: 2011/01/26

Project Engineer: 
Victor Chen

Approved: 
Jerry Liu

1 General Information

1.1 Description of Equipment Under Test

Product	: RF 2.4G Wireless Keyboard
Model Number	: PSK-4361; ASK-4361; XEK-100S; XEK-100B; XEK-100W
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 Industrial 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.
Sample Receive date	: Sep. 17, 2010
Date of Test	: Sep. 17 ~ Oct. 27, 2010
Product information	: <u>Interface Port:</u> USB1.1 Port *1 <u>Data Cable:</u> USB Cable: ☒ Non-shielded ☒ Detachable, 0.8m ☒ w/o core
Additional Description	: 1. The model PSK-4361 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.

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

1.3 Details of Tested Supporting System

1.3.1 Personal Computer

PC24

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

1.3.2 Monitor

MT25

Model Number : CMV 92GH 19"
Serial Number : P2GHAGCN P120376
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

MD04

Model Number : 199450093
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

PR04

Model Number	:	C20SX
Serial Number	:	DW4Y038113
EMC Compliance	:	BSMI 3902E004
Manufacturer	:	EPSON
Data Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-shielded, Un-detachable, 1.8m

1.3.5 Dongle

Model Number	:	PSX-2302
Manufacturer	:	PERCISION

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 Registration No. (OATS 2): R-1041 ● Industry Canada (IC) OUR FILE: 46405-4437 Submission: 130946 Registration No. (OATS 1): 4437A-1 Registration No. (OATS 2): 4437A-2 Registration No. (OATS 3): 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-02



1.5 Test Equipment

Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSP40	100478	2011/04/20
Preamplifier	Agilent	8449B	3008A01434	2011/04/20
Preamplifier	SCHAFFNER	CA30100	2	2010/11/03
Horn Antenna	Schwarzbeck	BBHA 9120	9120D-583	2011/02/09
Biconical Antenna	Schwarzbeck	VHA 9103	2484	2011/10/08
Log Antenna	Schwarzbeck	UHALP 9108	A 0765	2011/10/08
Wide Bandwidth Sensor	Anritsu	MA2491A	728133	2010/11/13
Power Meter	Anritsu	ML2495A	736010	2010/11/13
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.

1.6 Summary of Measurement

Report Clause	Test 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

1.7 Justification

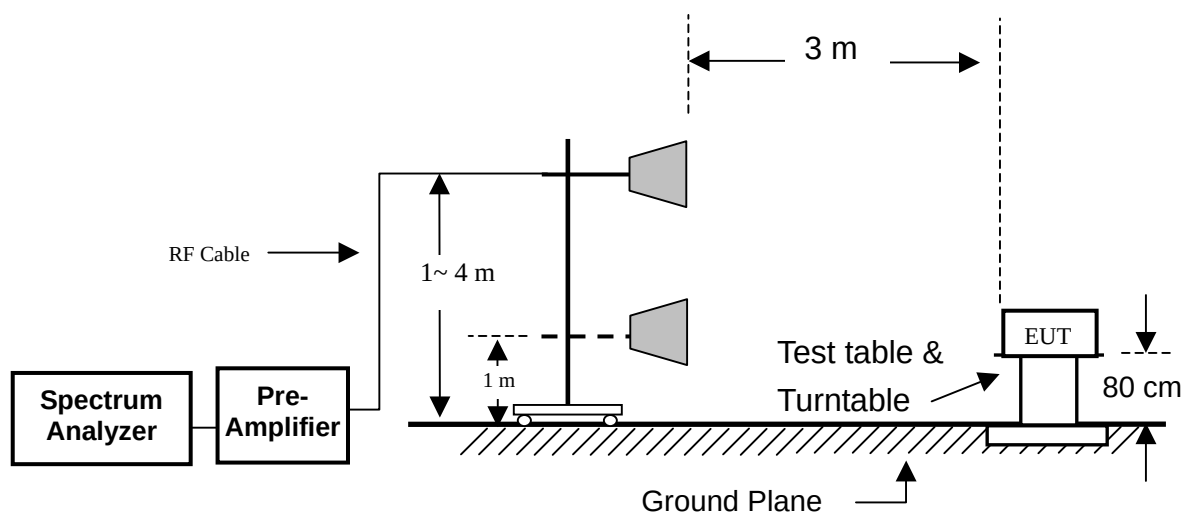
The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of the frequency band were all arrive limit requirement, thus we evaluate the EUT pass the specified test.

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 $\geq$ RBW, and the SPAN may equal to approximately 2 to 3 time the 20dB bandwidth.

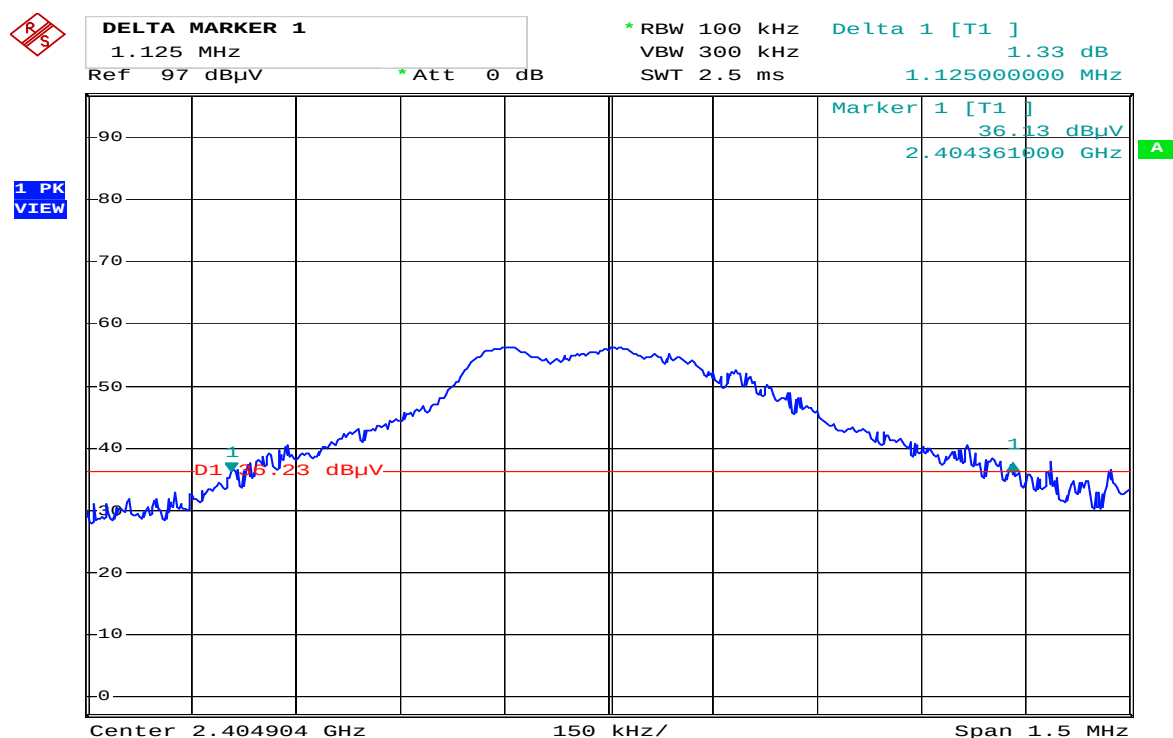
2.4 Test Result

PASS.

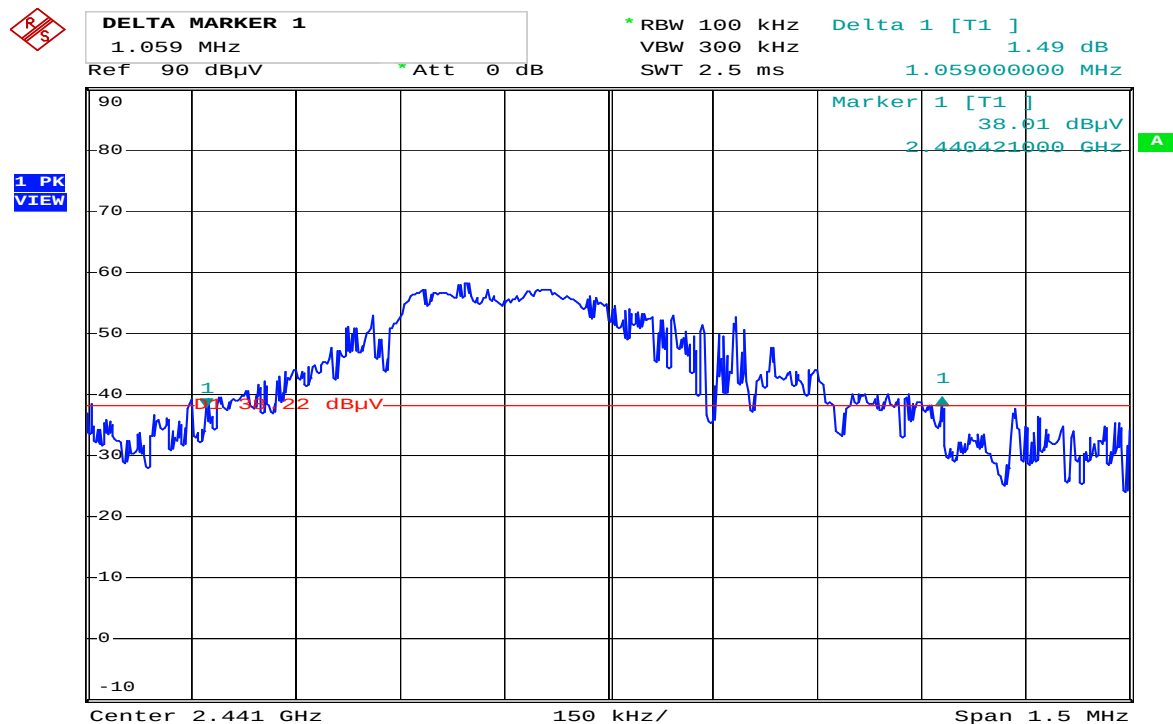
The final test data is shown as following pages.

Test CH		20dB Bandwidth (MHz)
Modulation	Frq. (MHz)	
GFSK	2405	1.125
	2441	1.059
	2477	1.092

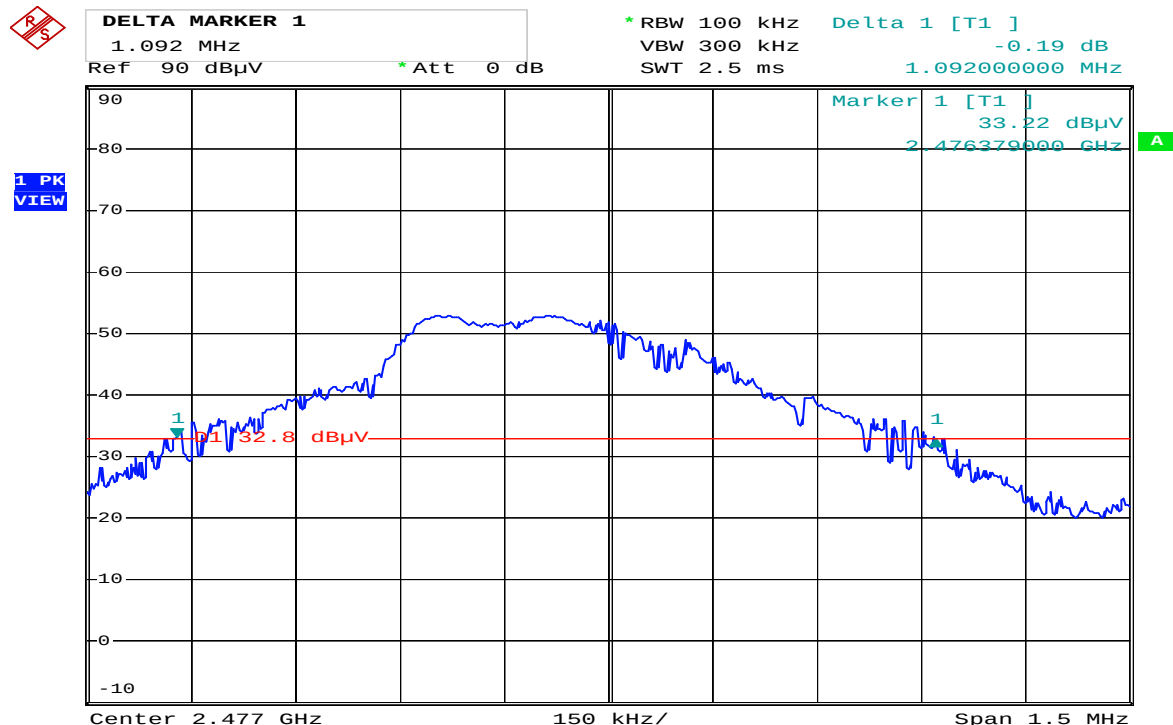
2405MHz 20dB BW



2441MHz 20dB BW



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:

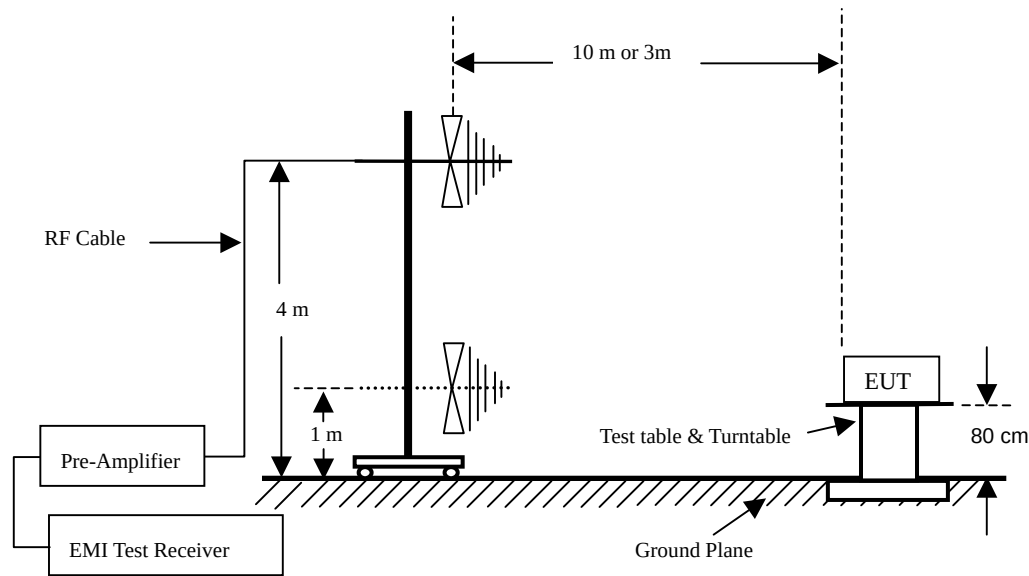
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

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

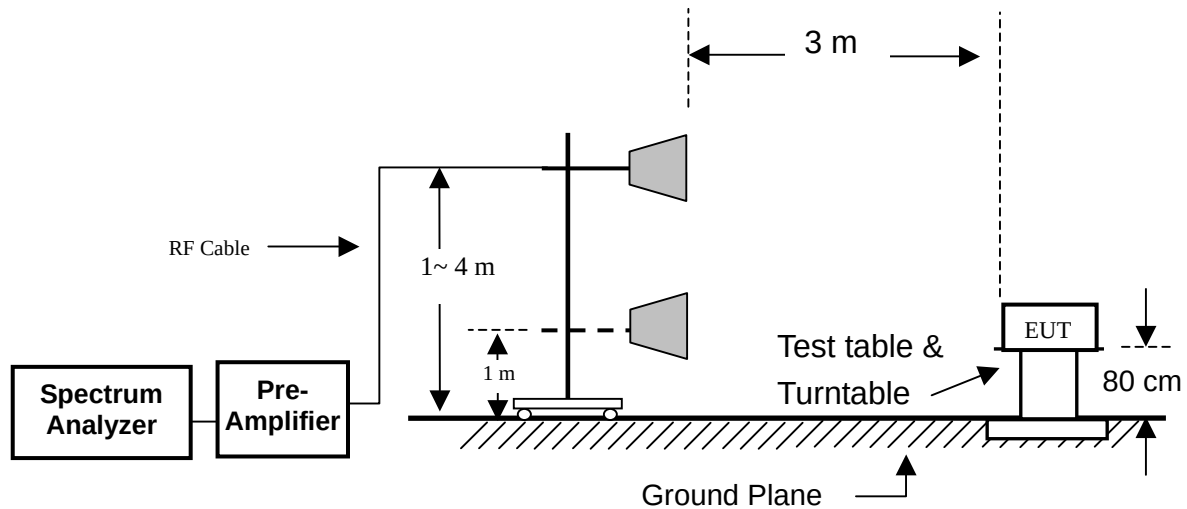
Frequency (MHz)	Field strength dB(μ V/m)	Measurement distance (meters)
1.705~30.0	29.5	30
30 ~ 88	40	3
88~216	43.5	3
216~960	46	3
Above 960	54	3

3.2 Configuration of Measurement

Measurement Frequency under 1GHz



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.

Radiated spurious emission

Fundamental Emissions

Low channel								
Frequency (MHz)	Antenna Polarization	Reading (dB μ V)	Preamplifier (dB)	Correction Factor (dB/m)	Corrected Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Det. Mode
2405	H	66.21	26.26	31.35	71.30	94	-22.70	PK
2405	V	66.15	26.26	31.35	71.24	94	-22.76	PK

Middle channel								
Frequency (MHz)	Antenna Polarization	Reading (dB μ V)	Preamplifier (dB)	Correction Factor (dB/m)	Corrected Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Det. Mode
2441	H	65.77	26.26	31.49	71.00	94	-23.00	PK
2441	V	66.07	26.26	31.49	71.30	94	-22.70	PK

High channel								
Frequency (MHz)	Antenna Polarization	Reading (dB μ V)	Preamplifier (dB)	Correction Factor (dB/m)	Corrected Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Det. Mode
2477	H	64.30	26.27	31.62	69.65	94	-24.35	PK
2477	V	61.99	26.27	31.62	67.34	94	-26.66	PK

Remark :

1. Corrected Level = Reading – Preamplifier + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

Radiated spurious emission

Test Environment

Ambient temperature : 24.9°C

Relative humidity : 57%

Radiated Emission below 1GHz

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

Worst case: low channel								
Frequency (MHz)	Antenna Polarization	Reading (dB μ V)	Preamplifier (dB)	Correction Factor (dB/m)	Corrected Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Det. Mode
84.230	H	45.92	33.12	8.04	20.84	40.00	-19.16	QP
121.230	H	43.26	33.01	13.98	24.23	40.00	-15.77	QP
240.841	H	41.23	33.40	19.65	27.48	43.52	-16.04	QP
432.001	H	42.82	34.20	20.13	28.75	46.02	-17.27	QP
668.112	H	38.26	33.50	24.38	29.14	46.02	-16.88	QP
840.200	H	35.26	33.80	26.94	28.40	46.02	-17.62	QP
120.120	V	39.23	33.00	14.54	20.77	43.52	-22.75	QP
168.110	V	37.23	33.38	17.80	21.65	43.52	-21.87	QP
280.001	V	38.26	33.60	21.64	26.30	46.02	-19.72	QP
320.001	V	41.30	33.50	16.79	24.59	46.02	-21.43	QP
662.320	V	36.82	33.50	24.11	27.43	46.02	-18.59	QP
840.001	V	35.26	33.80	26.54	28.00	46.02	-18.02	QP

Remark : Corrected Level = Reading + Correction Factor – Preamplifier

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.

Radiated spurious emission

Radiated Emission above 1GHz

Low Channel								
Frequency (MHz)	Antenna Polarization	Reading (dB μ V)	Preamplifier (dB)	Correction Factor (dB/m)	Corrected Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Det. Mode
4810	H	40.93	26.01	37.48	52.40	74	-21.60	PK
4810	H	26.82	26.01	37.48	38.29	54	-15.71	AV
7215	H	40.73	25.70	42.89	57.92	74	-16.08	PK
7215	H	27.21	25.70	42.89	44.40	54	-9.60	AV
*9620	H	39.64	25.16	46.01	60.49	74	-13.51	PK
*9620	H	28.19	25.16	46.01	49.04	54	-4.96	AV
4810	V	38.85	26.01	37.48	50.32	74	-23.68	PK
4810	V	26.58	26.01	37.48	38.05	54	-15.95	AV
7215	V	39.14	25.70	42.89	56.33	74	-17.67	PK
7215	V	26.97	25.70	42.89	44.16	54	-9.84	AV
*9620	V	40.33	25.16	46.01	61.18	74	-12.82	PK
*9620	V	27.85	25.16	46.01	48.70	54	-5.30	AV

Middle Channel								
Frequency (MHz)	Antenna Polarization	Reading (dB μ V)	Preamplifier (dB)	Correction Factor (dB/m)	Corrected Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Det. Mode
4882	H	38.99	25.99	37.59	50.59	74	-23.41	PK
4882	H	26.82	25.99	37.59	38.42	54	-15.58	AV
7323	H	38.49	25.71	43.14	55.92	74	-18.08	PK
7323	H	27.20	25.71	43.14	44.63	54	-9.37	AV
*9764	H	40.25	25.34	46.17	61.08	74	-12.92	PK
*9764	H	28.31	25.71	46.17	48.77	54	-5.23	AV
4882	V	38.52	25.99	37.59	50.12	74	-23.88	PK
4882	V	26.72	25.99	37.59	38.32	54	-15.68	AV
7323	V	39.73	25.71	43.14	57.16	74	-16.84	PK
7323	V	27.17	25.71	43.14	44.60	54	-9.40	AV
*9764	V	39.45	25.34	46.17	60.28	74	-13.72	PK
*9764	V	28.31	25.34	46.17	49.14	54	-4.86	AV

Remark : Corrected Level = Reading + Correction Factor – Preamplifier

Correction Factor = Antenna Factor + Cable Loss

* Mark indicated background noise level.

High Channel								
Frequency (MHz)	Antenna Polarization	Reading (dB μ V)	Preamplifier (dB)	Correction Factor (dB/m)	Corrected Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Det. Mode
4954	H	38.27	25.97	37.72	50.02	74	-23.98	PK
4954	H	27.81	25.97	37.72	39.56	54	-14.44	AV
7431	H	38.10	25.71	43.40	55.79	74	-18.21	PK
7431	H	26.80	25.71	43.40	44.49	54	-9.51	AV
*9908	H	38.90	25.53	46.33	59.70	74	-14.30	PK
*9908	H	27.88	25.53	46.33	48.68	54	-5.32	AV
4954	V	38.95	25.97	37.72	50.70	74	-23.30	PK
4954	V	27.38	25.97	37.72	39.13	54	-14.87	AV
7431	V	40.04	25.71	43.40	57.73	74	-16.27	PK
7431	V	26.82	25.71	43.40	44.51	54	-9.49	AV
*9908	V	38.52	25.53	46.33	59.32	74	-14.68	PK
*9908	V	27.87	25.53	46.33	48.67	54	-5.33	AV

Remark : Corrected Level = Reading + Correction Factor – Preamplifier

Correction Factor = Antenna Factor + Cable Loss

* Mark indicated background noise level.

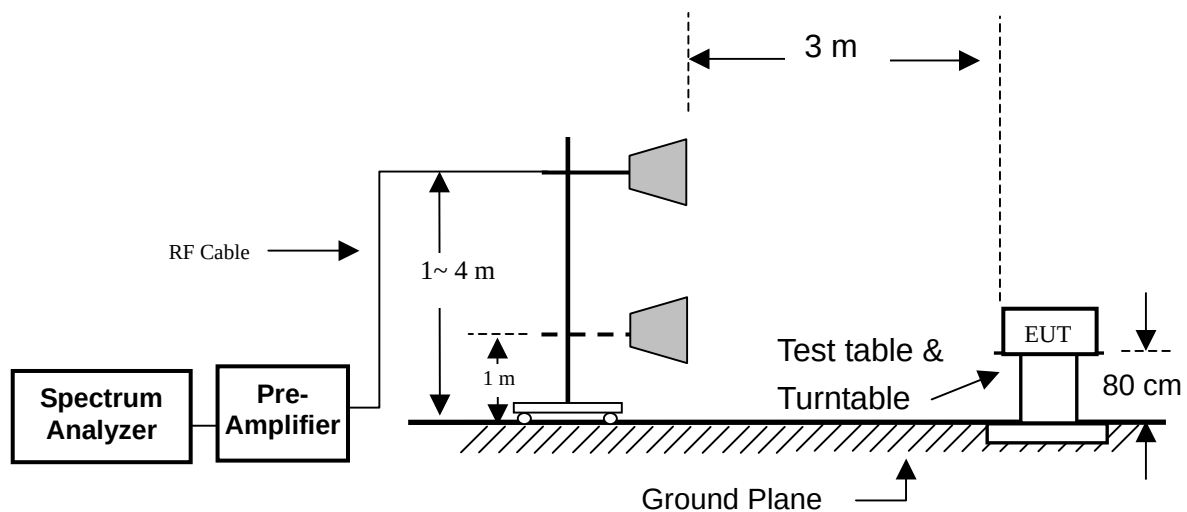
4 Emission on the Band Edge test

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

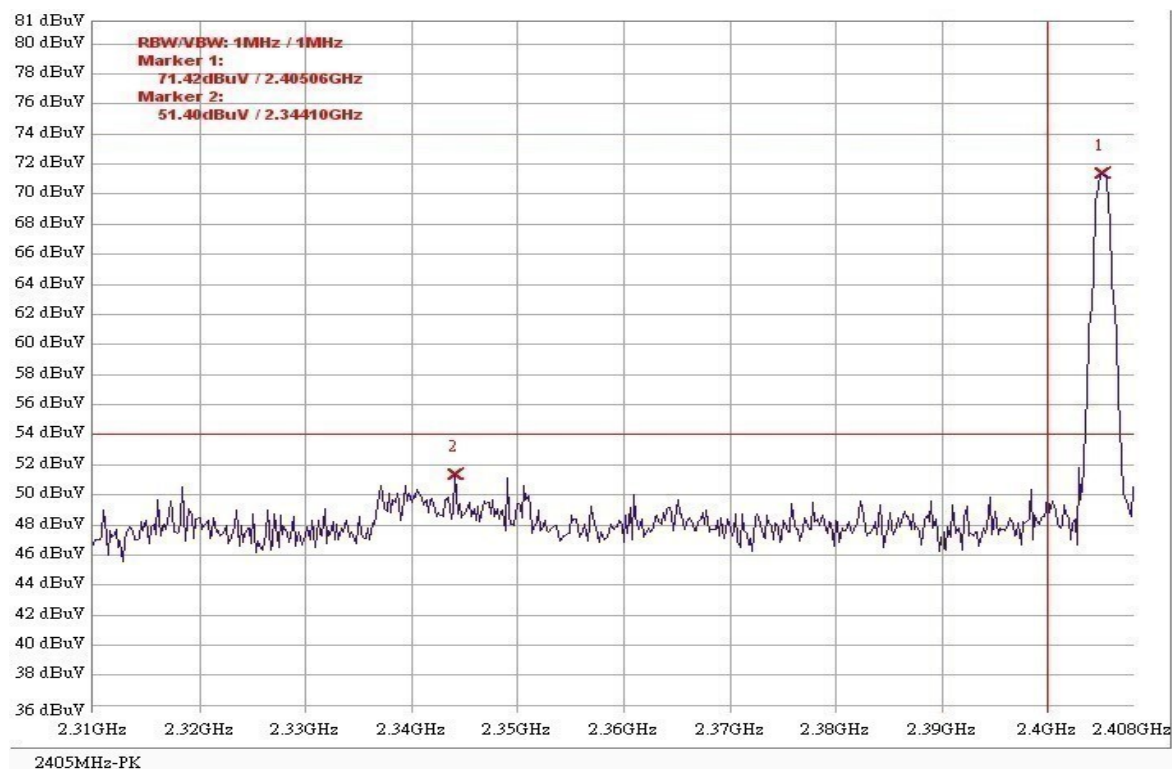
PASS.

The final test data is shown on as following pages.

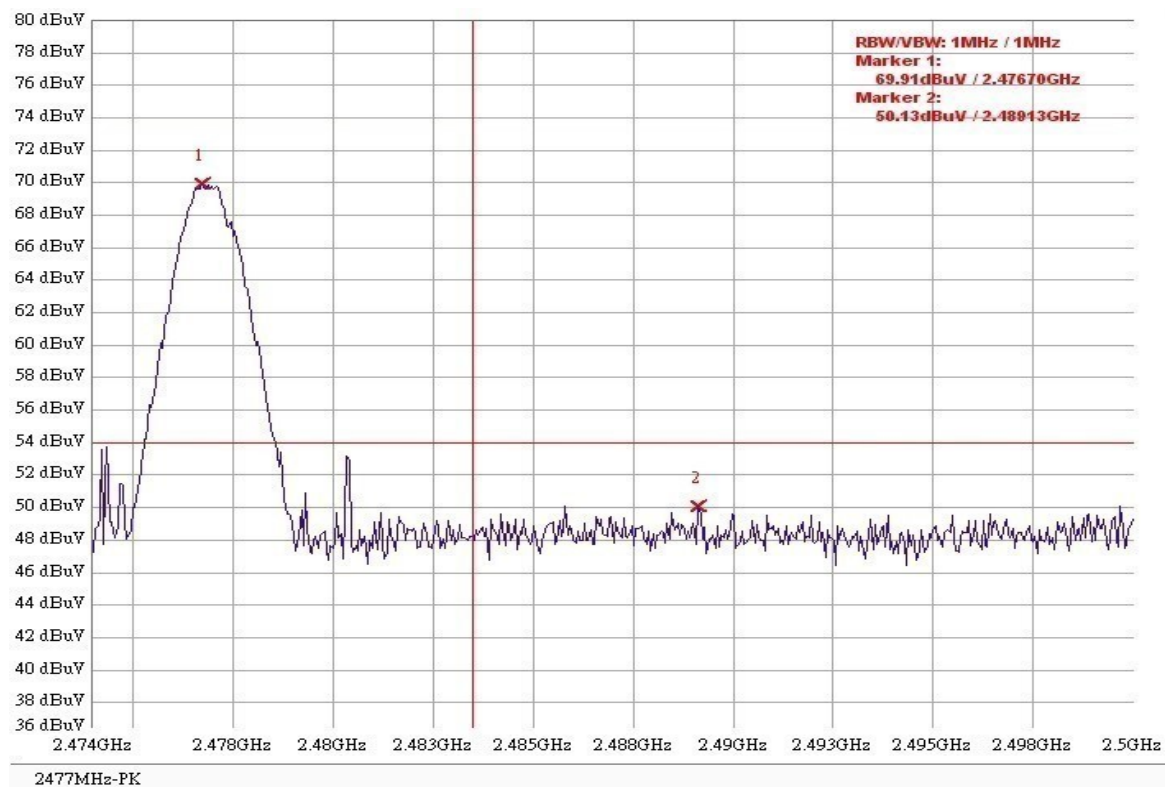
Band edge

Frequency	Restrict Freq. Band (MHz)	Detector Mode	Maximum level (dB μ V/m)	Limit (dBm)	Margin (dB)
2405	2310~2400	PK	51.40	54	-2.60
2477	2483.5~2500	PK	50.13	54	-3.87

2405MHz PK



2477MHz PK



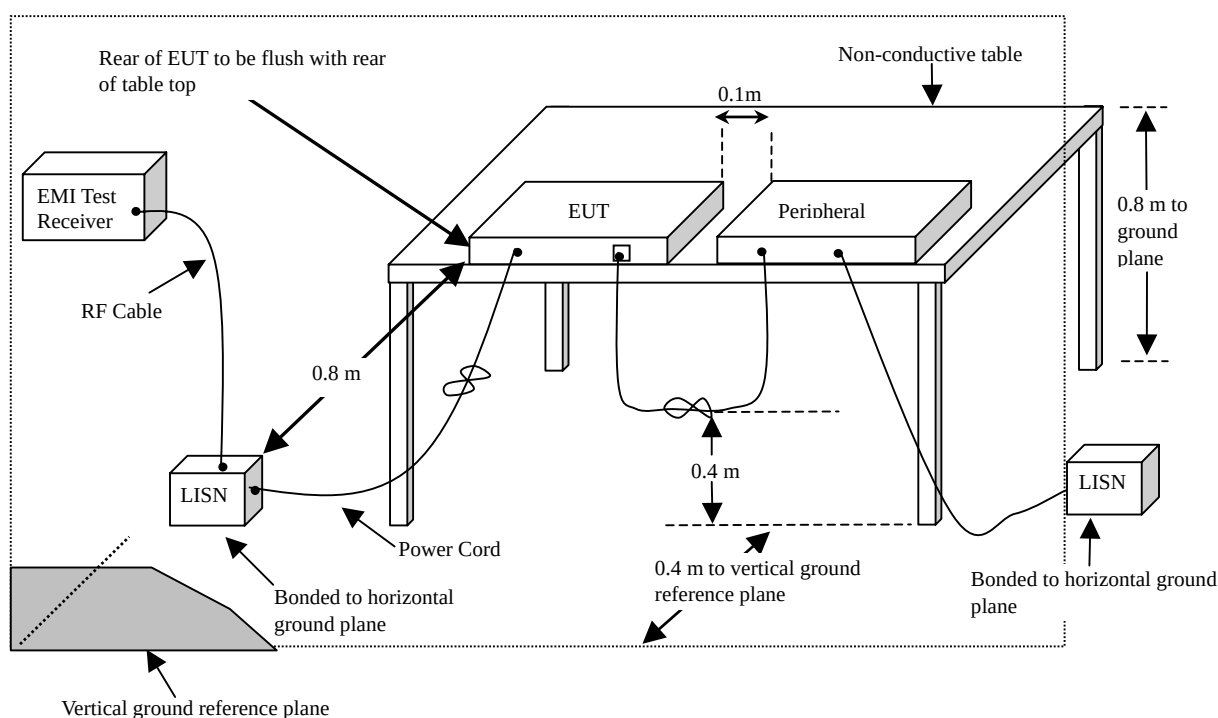
5 AC Power Line Conducted Emission test

5.1 Limit

Frequency (MHz)	Quasi-Peak (dB μ V)	Average (dB μ 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

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

- 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.

5.4 Test Result

PASS.

The final test data is shown on as following pages.

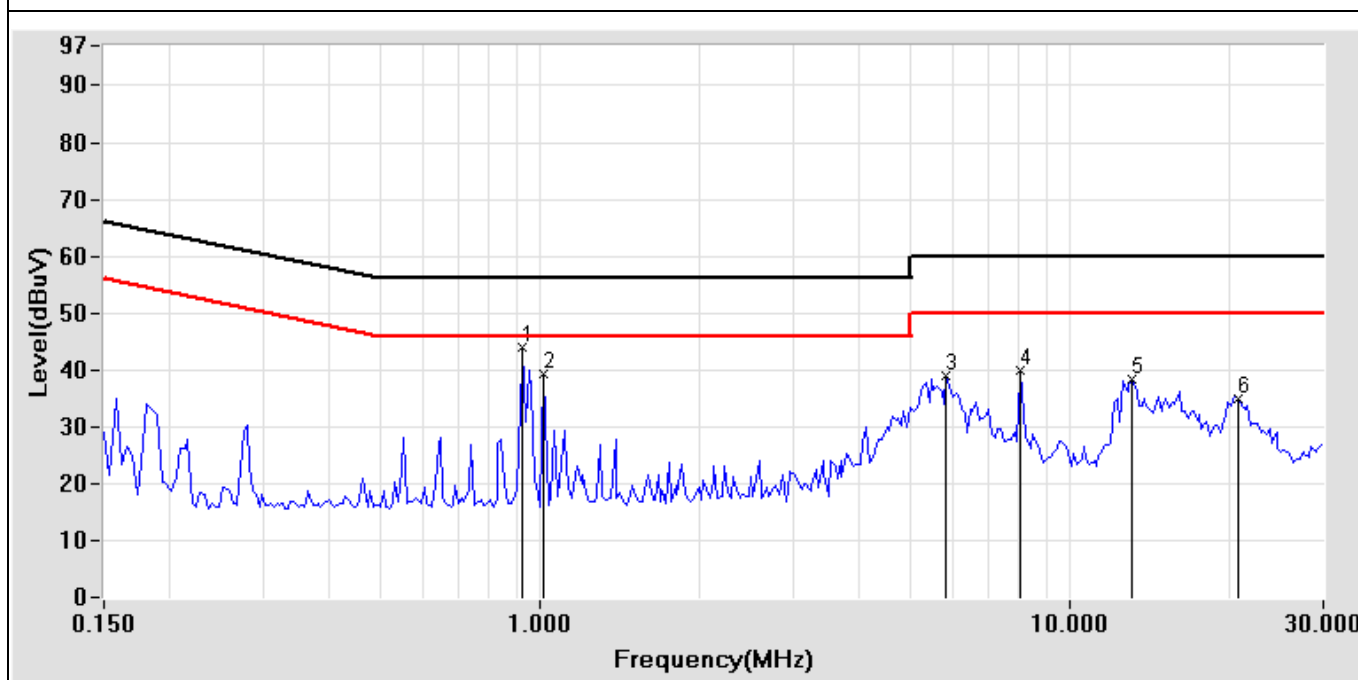
Power Line Conducted Test Data

EUT: RF 2.4G Wireless Keyboard	POLARITY: Line
CLIENT: PRECISION	DISTANCE:
MODEL: PSK-4361	Serial No.:
RATING: DC 3V	FILE/DATA#: PRECISION.emi/15
Temperature: 26.1 °C	OPERATOR: Victor
Humidity: 52 %	TEST SITE: Conduction2

Frequency (MHz)	Factor (dB)	Meter Reading (dBμV)		Emission Level (dBμV)		Limits (dBμV)		Margin (dB)	
		Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average
0.923	0.13	43.58	41.62	43.71	41.75	56.00	46.00	-12.29	-4.25
1.013	0.13	38.26	36.34	38.39	36.47	56.00	46.00	-17.61	-9.53
5.818	0.33	36.70	33.89	37.03	34.22	60.00	50.00	-22.97	-15.78
8.025	0.45	37.36	35.61	37.81	36.06	60.00	50.00	-22.19	-13.94
13.068	0.69	35.80	32.43	36.49	33.12	60.00	50.00	-23.51	-16.88
20.752	1.03	29.84	23.62	30.87	24.65	60.00	50.00	-29.13	-25.35

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



Test Mode: Mode 1: Charge Mode (USB Cable)

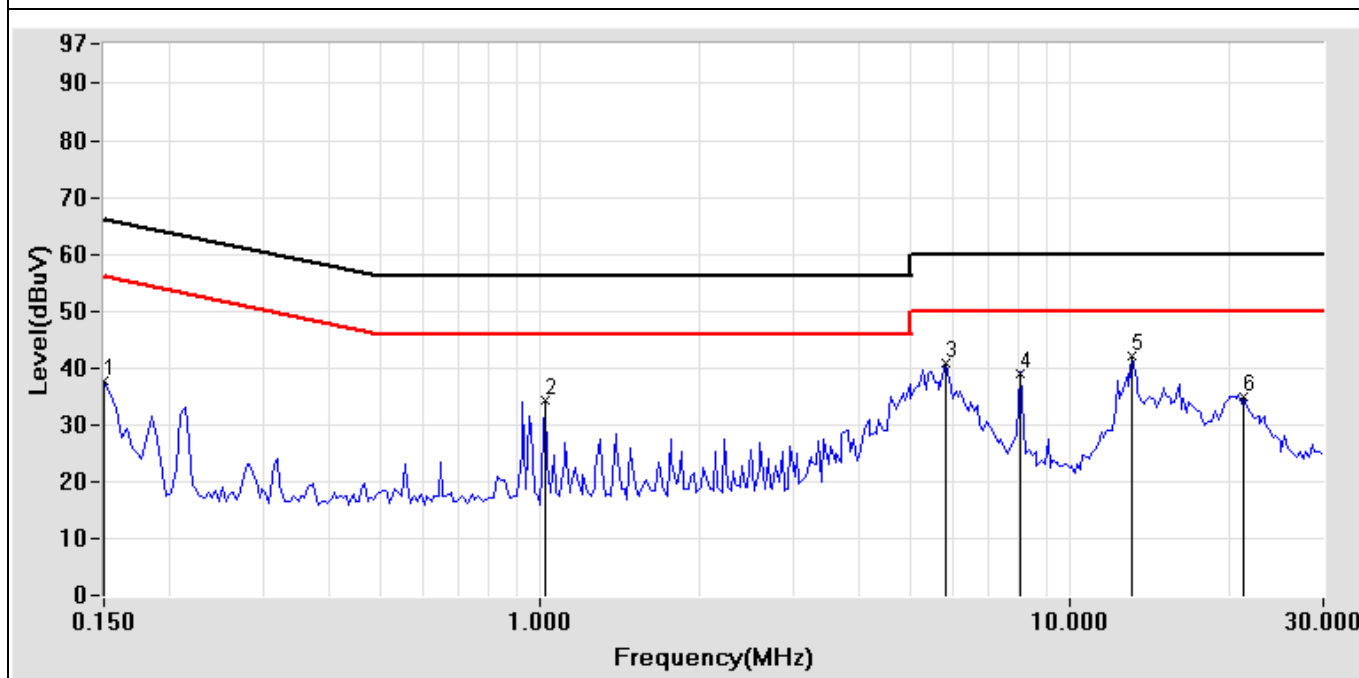
Power Line Conducted Test Data

EUT: RF 2.4G Wireless Keyboard	POLARITY: Neutral
CLIENT: PRECISION	DISTANCE:
MODEL: PSK-4361	Serial No.:
RATING: DC 3V	FILE/DATA#: PRECISION.emi/16
Temperature: 26.1 °C	OPERATOR: Victor
Humidity: 52 %	TEST SITE: Conduction2

Frequency (MHz)	Factor (dB)	Meter Reading (dBμV)		Emission Level (dBμV)		Limits (dBμV)		Margin (dB)	
		Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average
0.150	0.14	34.16	26.91	34.30	27.05	66.00	56.00	-31.70	-28.95
1.017	0.13	32.84	31.45	32.97	31.58	56.00	46.00	-23.03	-14.42
5.830	0.31	35.20	31.41	35.51	31.72	60.00	50.00	-24.49	-18.28
8.021	0.41	37.03	35.47	37.44	35.88	60.00	50.00	-22.56	-14.12
13.072	0.60	36.49	33.88	37.09	34.48	60.00	50.00	-22.91	-15.52
21.283	0.92	28.71	22.51	29.63	23.43	60.00	50.00	-30.37	-26.57

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



Test Mode: Mode 1: Charge Mode (USB Cable)