

Reference No.: A05080803 Report No.:FCCA05080803

FCCID: FSUGMZH9

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Date:Aug. 26, 2005

Product Name:

Wireless Mouse

Model Number:

GM-05004U/T, Ergo R8000/T

Applicant:

KYE SYSTEMS CORP.

No.492, Sec.5, Chung Hsin Rd., San Chung, Taipei

Hsien,241, Taiwan,R.O.C.

Date of Receipt:

Aug 12, 2005

Finished date of Test:

Aug. 23, 2005

Applicable Standards:

47 CFR Part 15, Subpart C

ANSI C63.4:2003

DA 00-705

We, Spectrum Research & Testing Laboratory Inc., hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Checked By :

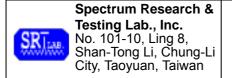
Date: 8 / >6

Approved By:

(Johnson Ho, Director)

Date: 08/26/2005

Lab Code: 200099-0



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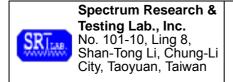
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1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

 The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC power source, 120 VAC/60 Hz, was used during the test.

1.3 EUT MODIFICATION

- No modification in SRT Lab.



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2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	WIRELESS MOUSE
MODEL NO.	GM-05004U/T,Ergo R8000/T
POWER SUPPLY	DC 3V
FREQUENCY BAND	2400~2483.5MHz
NUMBER OF CHANNEL	78
CHANNEL SPACING	80MHz
RATED RF OUTPUT POWER	0dBm
MODULATION TYPE	FSK
BIT RATE OF TRANSMISSION	62.5kbps
ANTENNA TYPE	PIFA
ANTENNA GAIN	0dBi
DUTY CYCLE	50%

NOTE:

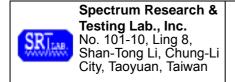
For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

2.2 DESCRIPTION OF SUPPORT UNIT

The transmitter part of EUT was tested with a PC system and configured by the requirement of ANSI C63.4. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL #	CABLE
1	NOTEBOOK	DELL	C510/C610	1.5m unshielded power cord
2	PRINTER	IEPSON		1.5m unshielded power cord 1.2m shielded data cable
3	Card Reader	Pro-Best	CR204002	1m shielded data cable

NOTE: For the actual test configuration, please refer to the photos of testing.



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2.3 DESCRIPTION OF TEST MODE

78 channels are provided by EUT. The 3 channels of lower, medium and higher were chosen for test.

Channel	Frequency (MHz)
0	2402
38	2440
77	2479

NOTE:

- 1. Below 1 GHz, the channel 0, 39 and 77 were pre-tested in chamber. The channel 78, worst case one, was chosen for conducted and radiated emission test.
- 2. Above 1 GHz, the channel 0, 39 and 77 were tested individually.

3. DESCRIPTION OF APPLIED STANDARDS

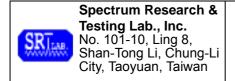
The EUT is a kind of wireless product and to be connected with a PC system for normal use. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C

ANSI C63.4: 2003

Public DA00-705 (March 2000)

All tests have been performed and recorded as the above standards.



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4.1 CONDUCTED EMISSION TEST FOR POWER PORT

4.1.1 CONDUCTED EMISSION LIMIT

FREQUENCY (MHz)	Class A	(dBμV)	Class B (dBμV)		
FREGOLIACT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.5 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

NOTE:

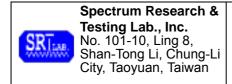
- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST EQUIPMENT

The following test equipment was used for the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST	9 kHz TO	ROHDE &	ESHS30/	AUG. 2006
RECEIVER	30 MHz	SCHWARZ	826003/008	ETC
LISN (for EUT)	50 μH, 50 ohm	FCC	FCC-LISN-50-25-2/	NOV. 2005
, ,	•		01017	ETC
LISN	50µH, 50 ohm	FCC	FCC-LISN-50-25-2/	NOV. 2005
(for Peripheral)	σομιί, σο σιπι	100	01018	ETC
50 ohm	50 ohm HP		11593A/	OCT. 2005
TERMINATOR	30 OHIII	TIF	2	ETC
COAXIAL	3m	SUNCITY	J400/	JUL. 2006
CABLE	3111	SUNCIT	3M	SRT
ISOLATION TRANSFORMER	N/A	APC	AFC-11015/ F102040016	N/A
FILTER	2 LINE, 30A	FIL.COIL	FC-943/ 771	N/A
GROUND PLANE	2.3M (H) x 2.4M (W)	SRT	N/A	N/A
GROUND PLANE	2.4M (H) x 2.4M (W)	SRT	N/A	N/A

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



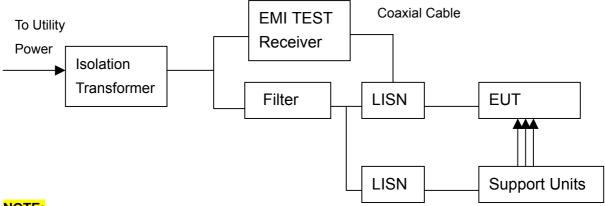
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4.1.3 TEST SETUP



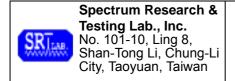
NOTE:

- 1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
- 2. For the actual test configuration, please refer to the photos of testing.
- 3. The serial no. of the LISN connected to EUT is 01017.
- 4. The serial no. of the LISN connected to support units is 01018.

4.1.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR22:2003. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50µH as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.



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4.1.5 TEST RESULT

Temperature: 27°C Humidity: 58 %RH

Ferquency Range: 0.15 – 30 MHz Tested Mode: Charge
Receiver Detector: Q.P. and AV. Tested By: Nick

Tested Date: Aug 23, 2005

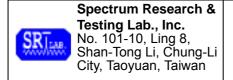
Power Line Measured : Line

Freq.	Factor (dBμV)		q. Factor (dBμV) (dBμV)		Limit (dBμV)		Margin (dB)		
(33332)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.216	0.29	51.38	39.03	51.67	39.32	62.95	52.95	-11.29	-13.64
0.504	0.24	41.20	35.68	41.44	35.92	56.00	46.00	-14.56	-10.08
1.220	0.14	38.18	32.90	38.32	33.04	56.00	46.00	-17.68	-12.96
14.683	0.10	25.40	19.62	25.50	19.72	60.00	50.00	-34.50	-30.28
14.774	0.10	25.72	19.97	25.82	20.07	60.00	50.00	-34.18	-29.93
22.154	0.10	26.82	21.16	26.92	21.26	60.00	50.00	-33.08	-28.74

Power Line Measured : Neutral

Freq.	Freq. (dB _µ V)		or (dBμV) (dBμV)		Limit (dBμV)		Margin (dB)		
(,	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.207	0.29	55.10	42.81	55.39	43.10	63.31	53.31	-7.92	-10.21
0.514	0.24	39.34	31.59	39.58	31.83	56.00	46.00	-16.42	-14.17
1.220	0.14	34.74	27.66	34.88	27.80	56.00	46.00	-21.12	-18.20
10.593	0.10	24.08	18.73	24.18	18.83	60.00	50.00	-35.82	-31.17
11.283	0.10	23.20	17.94	23.30	18.04	60.00	50.00	-36.70	-31.96
22.226	0.10	26.66	21.20	26.76	21.30	60.00	50.00	-33.24	-28.70

- 1. Measurement uncertainty is +/-1.32dB
- 2. Emission level = Reading value + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies were very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



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Temperature: 27°C Humidity: 58 %RH

Ferquency Range: 0.15 – 30 MHz Tested Mode: Link

Receiver Detector: Q.P. and AV. Tested By: Nick

Tested Date: Aug 23, 2005

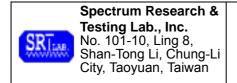
Power Line Measured : Line

Freq.	Freq. (dB _μ V)		3		Limit (dBμV)		Margin (dB)		
()	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.225	0.29	52.78	41.15	53.07	41.44	62.62	52.62	-9.55	-11.18
0.504	0.24	42.24	33.66	42.48	33.90	56.00	46.00	-13.52	-12.10
1.220	0.14	39.38	34.87	39.52	35.01	56.00	46.00	-16.48	-10.99
13.587	0.10	25.90	20.24	26.00	20.34	60.00	50.00	-34.00	-29.66
14.917	0.10	25.74	19.97	25.84	20.07	60.00	50.00	-34.16	-29.93
18.208	0.10	24.26	18.48	24.36	18.58	60.00	50.00	-35.64	-31.42

Power Line Measured : Neutral

Freq.	Freq. (dB _µ V)		or (dBμV) (dBμV)		Limit (dBμV)		Margin (dB)		
()	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.213	0.29	53.76	43.06	54.05	43.35	63.07	53.07	-9.03	-9.73
0.610	0.23	40.26	35.92	40.49	36.15	56.00	46.00	-15.52	-9.86
1.220	0.14	34.82	28.42	34.96	28.56	56.00	46.00	-21.04	-17.44
12.734	0.10	23.36	19.73	23.46	19.83	60.00	50.00	-36.54	-30.17
12.755	0.10	22.56	16.96	22.66	17.06	60.00	50.00	-37.34	-32.94
22.749	0.10	26.86	21.43	26.96	21.53	60.00	50.00	-33.04	-28.47

- 1. Measurement uncertainty is +/-1.32dB
- 2. Emission level = Reading value + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies were very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



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5.TECHNICAL CHARACTERISTICS TEST

5.1 6dB Bandwidth

5.1.1 **LIMIT**

FCC Part15, Subpart C Section 15.247(a)(1). Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 500 kHz or the 6 dB bandwidth of the hopping channel, whichever is greater.

FREQUENCY RANGE (MHz)	Limit(kHz)
902-928	>500kHz
2400-2483.5	>500kHz
5725-5850	>500kHz

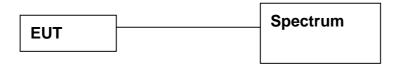
5.1.2 TEST EQUIPMENT

The following test equipment was used during the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9kHz-7GHz	ROHDE &	FSP7/	APR. 2006
		SCHWARZ	839511/010	R&S

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

5.1.3 TEST SET-UP



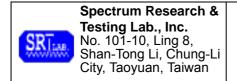
The EUT was connected to a spectrum through a 50 RF cable.

5.1.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel. Printed out the test result from the spectrum by hard copy function.

5.1.5 EUT OPERATING CONDITION

- 1. Set the EUT under transmission condition continuously at a specific channel frequency.
- 2. Under Windows XP ran "EMI TEST" programs, PC sent "H" pattern or accessed the following peripherals:
 - Printer
 - FDD
 - HDD



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5.1.6 TEST RESULT

Temperature: 25°C Humidity: 60 %RH

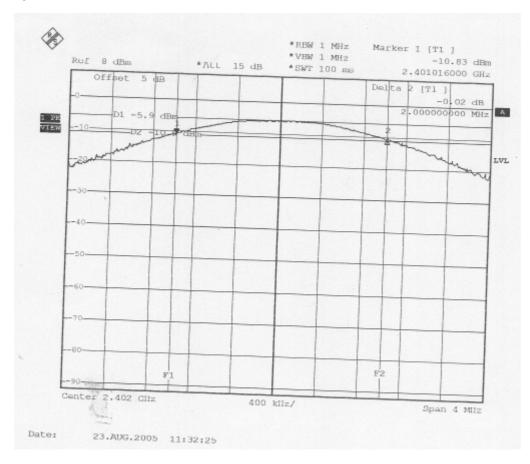
Spectrum Detector: PK Tested Mode: Wireless Mouse

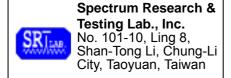
Test Result: PASS Tested By: Nick

Tested Date: Aug 23, 2005

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	6dB DOWN BW (MHz)
0	2401	2.000
38	2439	2.008

CH0, 2401MHz



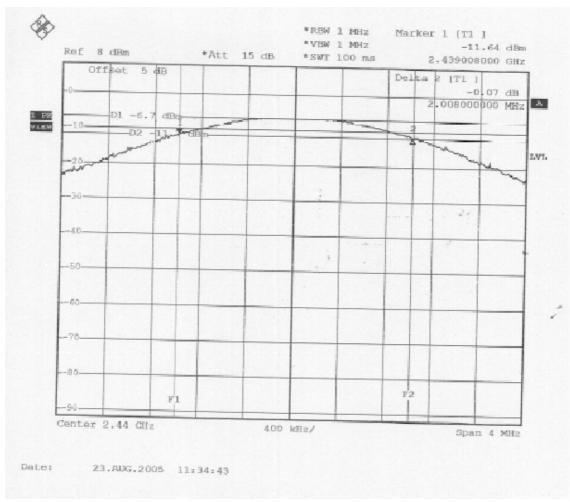


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CH38, 2439MHz



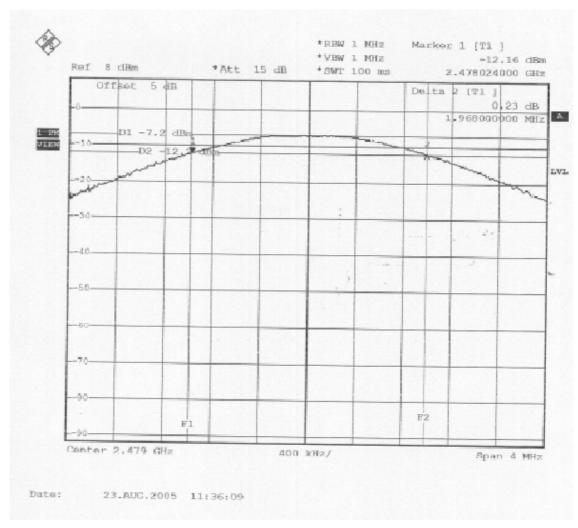


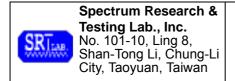
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CH77, 2478MHz





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5.2 PEAK POWER TEST

5.2.1 LIMIT

FCC Part15, Subpart C Section 15.247.

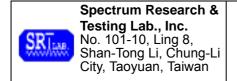
FREQUENCY	LIMIT Y (W)				
RANGE Quantity of Hopping Channel		50	25	15	75
902-9	928	1(30dBm)	0.125(21dBm)	NA	NA
2400-2483.5		NA	NA	0.125(21dBm)	1(30dBm)
5725-5	5850	NA	NA	NA	1(30dBm)

5.2.2 TEST EQUIPMENT

The following test equipment was used during the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9kHz-7GHz	ROHDE &	FSP7/	APR. 2006
SPECTRUM	9KHZ-7GHZ	SCHWARZ	839511/010	R&S
POWER METER	N/A	BOONTON	4232A/	MAY 2006
POWER WETER	IN/A	BOONTON	29001	ETC
	DC-18GHz		51011-EMC/	JUN. 2006
POWER SENSOR	0.3 μ W-100mW	BOONTON	31184	ETC
	50			EIG

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

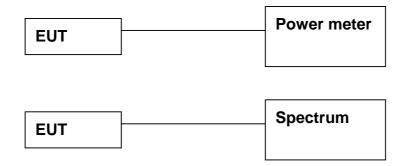


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5.2.3 TEST SET-UP



The EUT was connected to a spectrum through a 50 RF cable.

5.2.4 TEST PROCEDURE

The EUT was operating in hopping mode or could control its channel. Printed out the test result from the spectrum by hard copy function. Recorded the read value of the power meter.

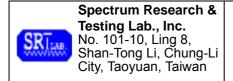
5.2.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

5.2.6 TEST RESULT

Temperature:	26°C	Humidity:	61 %RH
Spectrum Detector:	PK	Tested Mode:	Wireless Mouse
Test Result:	PASS	Tested By:	Nick
		Tested Date:	Aug 23, 2005

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)
0	2402.0000	-6.59	30
38	2440.0000	-7.49	30
77	2479.0000	-8.05	30

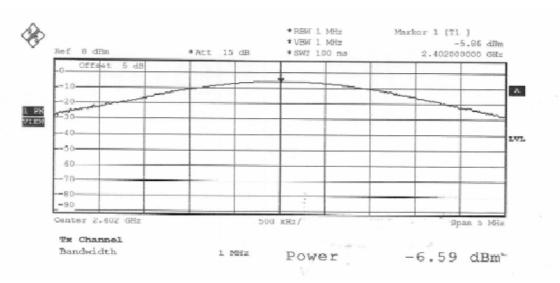


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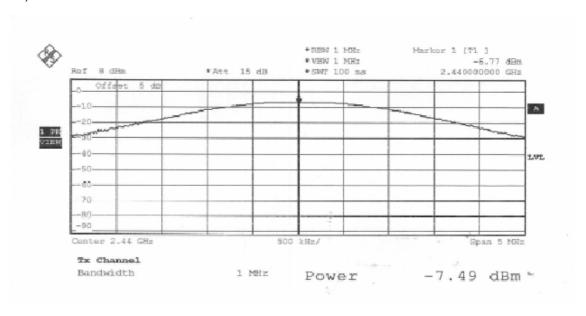
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Ch0, 2402MHz



Ch38, 2440MHz



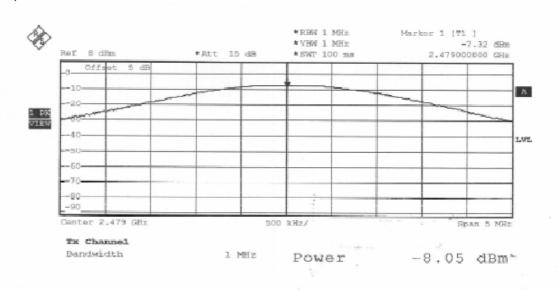


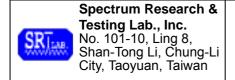
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Ch77, 2479MHz





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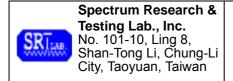
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5.3 BAND EDGE TEST

5.3.1 **LIMIT**

FCC Part15, Subpart C Section 15.247. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

OPERATING	SPURIOUS EMISSION	LIMIT		
REQUENCY RANGE FREQUENCY (MHz)		Peak power ration to emission(dBc)	Emission level(dBuV/m)	
	<902	>20	NA	
902-928	>928	>20	NA	
	960-1240	NA	54	
2400 2492 F	<2400	>20	NA	
2400-2483.5	>2483.5-2500	NA	54	
	<5350-5460	NA	54	
5725-5850	<5725	>20	NA	
	>5850	>20	NA	



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5.3.2 TEST EQUIPMENT

The following test equipment was used during the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9kHz-7GHz	ROHDE &	FSP7/	APR. 2006
SPECIRUM	9KHZ-7GHZ	SCHWARZ	839511/010	R&S
EMI TEST	9 kHz TO 2750	ROHDE &	ESCS30/	OCT. 2005
RECEIVER	MHz	SCHWARZ	830245/012	ETC
SPECTRUM	0KH= 26 ECH=	HP	8953E/	MAY 2006
SPECTRUM	9KHz-26.5GHz	ПР	3710A03220	ETC
PRE-AMPLIFIER	1GHz-26.5GHz	HP	8449B/	NOV. 2005
PRE-AWIPLIFIER	Gain:30dB	ПР	3008A01019	ETC
BI-LOG	25 MHz TO	EMCO	3142/	FEB. 2006
ANTENNA	2 GHz	EMCO	9701-1124	SRT
LIODNI ANITENNIA	1011- to 10011-	EMCO	3115/	DEC. 2005
HORN ANTENNA	1GHz to 18GHz	EMCO	9602-4681	ETC
OATS	3 - 10 M	CDT	CDT 4	APR. 2006
OATS	measurement	SRT	SRT-1	SRT

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



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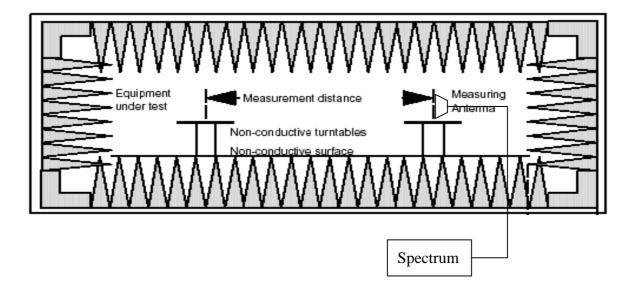
5.3.3 TEST SET-UP

FOR RF CONDUCTED TEST (dBc)

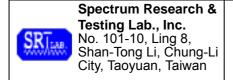


The EUT was connected to the spectrum through a 50 RF cable.

FOR RADIATED EMISSION TEST



- 1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
- 2. For the actual test configuration, please refer to the photos of testing.



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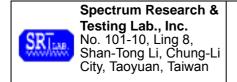
5.3.4 TEST PROCEDURE

1. The EUT was operating in hopping mode or could be controlled its channel. Printed out the test result from the spectrum by hard copy function.

2. The EUT was tested according to the requirement of ANSI C63.4 and CISPR 22. The measurements were made at an open area test site with 10 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz. All readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak and average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

5.3.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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5.3.6 TEST RESULT

Temperature:26°CHumidity:61%RHSpectrum Detector:PK & AVTested by:NICKTest Result:PASSTested Date:Aug. 23, 2005

1.Conducted test

Frequency (MHz)	PEAK POWER OUTPUT (dBm)	Emission read Value(dBm)	Result of Band edge (dBc)	Band edge LIMIT (dBc)
<2400	-6.89	-33.91	40.8	>20dBc
>2480	-7.96	-60.34	68.3	>20dBc

2.Radiated emission test

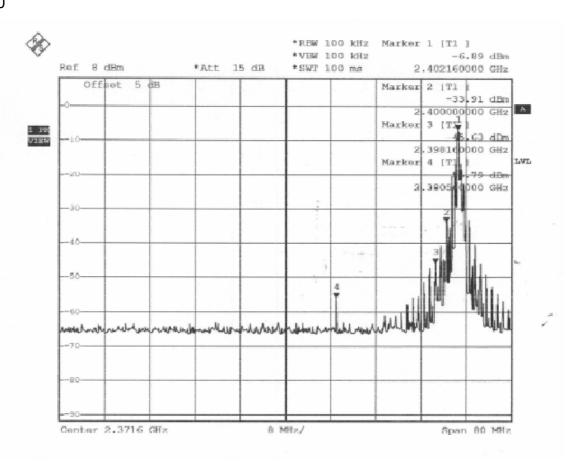
Frequency	Antenna polarization	Reading (dBuV)		Emission (dBuV/m)		Band edge Limit (dBuV/m)	
(IVITIZ)	(MHz) (H/V)	PK	AV	PK	AV	PK	AV
<2400	Н	61.0	*	51.4	*	74.0	54.0
>2483.5	V	61.9	*	50.8	*	74.0	54.0



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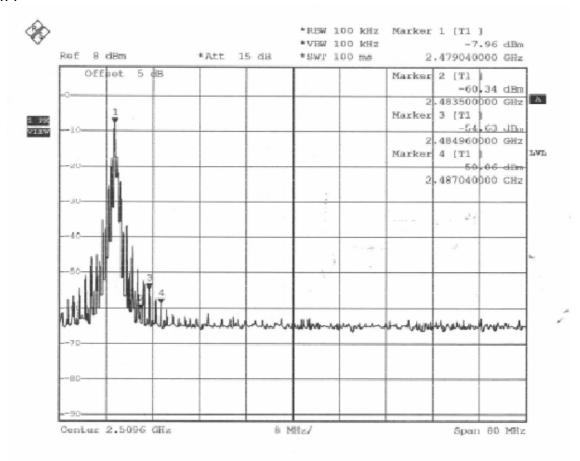


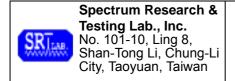


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5.4 FUNDERMENTAL & SPURIOUS RADIATED EMISSION TEST **5.4.1 LIMIT**

FCC Part15, Subpart C Section 15.209 limit of radiated emission for frequency below1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (dBμV/m)
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
ABOVE 960	3	54.0

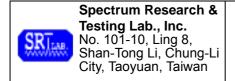
- **NOTE**: 1. In the emission tables above, the tighter limit applies at the band edges.
 - 2. Distance refers to the distance between measuring instrument, antenna, and the closest point of any part of the device or system.

FCC Part 15, Section15.35(b) limit of radiated emission for frequency above 1000 MHz

FREQUENCY (MHz)	Class A (dBu	uV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
FREQUENCY (WINZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80.0	60.0	74.0	54.0	

FCC Part 15, Subpart C Section 15.249. The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

FUNDAMENTAL FREQUENCY (MHz)	FILED STRE FUNDAN (dBuV/m)	IENTAL	FIELD STRE HARM((dBuV/m)	ONICS
	PEAK	AVERAGE	PEAK	AVERAGE
902-928	114	94	74.0	54.0
2400-2483.5	114	94	74.0	54.0
5725-5875	114	94	74.0	54.0
24000-24250	128	108	88.0	68.0



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5.4.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	20 kHz TO 1 GHz	ROHDE & SCHWARZ	ESCS30/ 830245/012	OCT. 2005 ETC
BI-LOG ANTENNA	25 MHz TO 2 GHz	EMCO	3142/ 9701-1124	FEB. 2006 SRT
OATS	3 – 10 M MEASUREMENT	SRT	SRT-1	DEC. 2005 SRT
COAXIAL CABLE	25M	SUNCITY	J400/ 25M	AUG. 2006 SRT
FILTER	2 LINE, 30A	FIL.COIL	FC-943/ 869	N/A
FREQUENCY CONVERTER	N/A	APC	AFC-2KBB/ F100030031	AUG. 2006 SRT

- 1. The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The Open Area Test Site (SRT-1) is registered by FCC with No. 90957 and VCCI with No. R-1081.
- 3. The Open Area Test Site (SRT-2) is registered by FCC with No. 98458 and VCCI with No. R-1168.

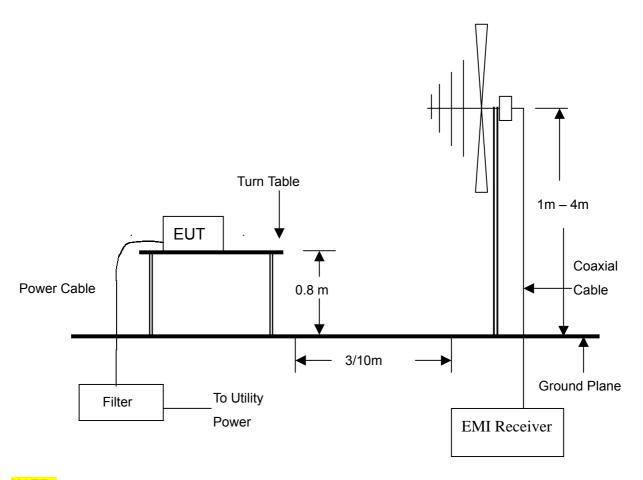


Reference No.:A05080803 Report No.:FCCA05080803

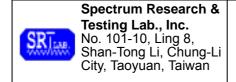
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5.4.3 TEST SET-UP



- 1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
- 2. For the actual test configuration, please refer to the photos of testing.

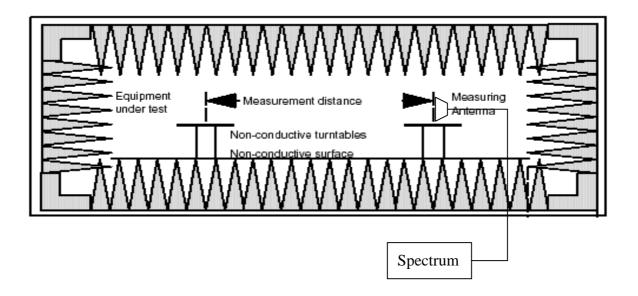


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FOR RADIATED EMISSION TEST

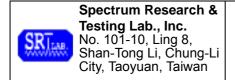


5.4.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4 and CISPR 22. The measurements were made at an open area test site with 10 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz. All readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak and average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

5.4.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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5.4.6 TEST RESULT

Temperature: 25°C Humidity: 55 %RH

Ferquency Range: 30 – 1000 MHz Measured Distance: 3m

Receiver Detector: Q.P. Tested Mode: Charge

Tested Date: Aug 23, 2005 Tested By: Nick

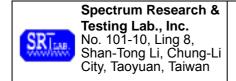
Antenna Polarization:Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
72.8470	1.59	6.62	22.6	30.8	40.0	-9.2	340	3.8
181.7240	2.35	9.52	20.3	32.2	43.5	-11.3	30	3.6
232.9840	2.67	11.34	18.4	32.4	46.0	-13.6	120	2.8
547.3400	4.36	18.91	14.5	37.8	46.0	-8.2	217	2.1
878.6520	5.71	22.90	10.8	39.4	46.0	-6.6	190	1.1
961.2850	5.93	23.67	14.7	44.3	54.0	-9.7	300	1

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
143.6700	2.09	10.48	23.4	36.0	43.5	-7.5	247	1
177.2710	2.33	9.55	21.7	33.6	43.5	-9.9	95	1
192.8130	2.46	9.68	22.8	34.9	43.5	-8.6	157	1.1
233.6900	2.68	11.38	24.3	38.4	46.0	-7.6	50	1
530.5710	4.27	18.69	13.2	36.2	46.0	-9.8	87	1
875.3700	5.70	22.85	9.7	38.3	46.0	-7.7	263	1

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



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Temperature: 27°C Humidity: 59 %RH Ferquency Range: 30 - 1000 MHz Measured Distance: 3m Receiver Detector: Q.P. Tested Mode: Link Tested Date: Aug 23, 2005 Tested By: Nick

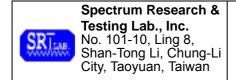
Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
124.1900	1.92	7.88	19.5	29.3	43.5	-14.2	10	3.9
138.9400	2.07	10.26	20.4	32.7	43.5	-10.8	275	3.67
165.9400	2.27	9.73	14.8	26.8	43.5	-16.7	180	3.4
233.9100	2.68	11.38	17.4	31.5	46.0	-14.5	162	2.9
526.7200	4.25	18.64	12.4	35.3	46.0	-10.7	85	1.3
881.4200	5.73	22.96	9.7	38.4	46.0	-7.6	350	1

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
123.6900	1.90	7.71	21.6	31.2	43.5	-12.3	130	1
143.7100	2.09	10.48	17.6	30.2	43.5	-13.3	90	1
166.9100	2.27	9.71	18.3	30.3	43.5	-13.2	67	1
233.0400	2.68	11.38	17.9	32.0	46.0	-14.0	294	1.1
541.6300	4.33	18.83	13.5	36.7	46.0	-9.3	167	1.2
882.9100	5.73	22.98	10.3	39.0	46.0	-7.0	350	1

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



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Temperature: 25°C Humidity: 55 %RH Ferquency Range: 30 - 1000 MHz Measured Distance: 3m Receiver Detector: Q.P. Tested Mode: CH0 Tested Date: Aug 23, 2005 Tested By: Nick

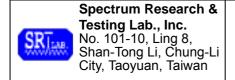
Antenna Polarization: Horizontal

	Correct	Ant. Fac.	Ant.	Rea	ding	Emi	ssion	Limi	t Line	Over	Limit		
Freq/MHz	Factor	(dB)	Pol.	(dB	uV)	(dBu	V/m)	(dBu	ıV/m)	(dBu	V/m)	ΑZ	EL
	(dB)	(ub)	(H/V)	PK	AV	PK	AV	PK	AV	PK	AV	(o)	(m)
2402.00	-32.16	28.54	I	61.0	49.4	57.4	45.8	N/A	N/A	N/A	N/A	236	1
2400.00	-32.16	28.00	I	44.1	*	39.9	*	74.0	54.0	-34.1	*	230	1
2395.28	-32.18	27.99	I	44.4	*	40.2	*	74.0	54.0	-33.8	*	235	1
2407.68	-32.17	28.01	I	44.2	*	40.0	*	74.0	54.0	-34.0	*	232	1
2409.84	-32.17	28.02	Ι	43.1	*	39.0	*	74.0	54.0	-35.0	*	200	1
4804.00	-30.47	33.04	I	41.2	*	44.4	*	74.0	54.0	-29.6	*	0	1.2

Antenna Polarization: Vertical

	Correct	Ant.	Ant.	Read	ding	Emis	ssion	Limi	t Line	Over	Limit		
Freq/MHz	Factor	Fac.	Pol.	(dB	uV)	(dBu	<i>V/m)</i>	(dBu	V/m)	(dBu	V/m)	AZ	EL
	(dB)	(dB)	(H/V)	PK	AV	PK	AV	PK	AV	PK	AV	(o)	(m)
2402.00	-32.16	28.00	V	61.9	48.5	57.8	44.3	N/A	N/A	N/A	N/A	266	1
2400.00	-32.16	28.00	V	43.8	*	39.7	*	74.0	54.0	-34.4	*	255	1
2394.80	-32.18	27.99	V	44.5	*	40.3	*	74.0	54.0	-33.7	*	260	1
2396.88	-32.18	27.99	V	46.7	*	42.5	*	74.0	54.0	-31.5	*	250	1
2408.00	-32.17	28.02	V	44.3	*	40.1	*	74.0	54.0	-33.9	*	265	1
4804.00	-30.47	33.64	V	41.8	*	45.0	*	74.0	54.0	-29.0	*	10	1

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



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Temperature: 25°C Humidity: 55 %RH Ferquency Range: 30 - 1000 MHz Measured Distance: 3m Receiver Detector: Q.P. Tested Mode: CH38 Tested Date: Aug 23, 2005 Tested By: Nick

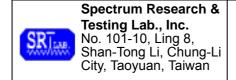
Antenna Polarization: Horizontal

	Correct		Ant.	Read	ling	Emis	sion	Limit	Line	Over	Limit		
Freq/MHz		Ant. Fac.	Pol.	(dB	uV)	(dBu	V/m)	(dBu	V/m)	(dBu ^v	V/m)	AZ	EL
	(dB)	(dB)	(H/V)	PK	AV	PK	AV	PK	AV	PK	AV	(o)	(m)
2440.00	-32.22	28.62	Н	62.5	51.4	58.9	47.8	N/A	N/A	N/A	N/A	158	1.3
2433.68	-32.21	28.07	Н	45.1	*	41.0	*	74.0	54.0	-33.0	*	150	1
2436.24	-32.22	28.07	Н	49.7	*	45.5	*	74.0	54.0	-28.5	*	155	1
2446.56	-32.23	28.09	Н	44.6	*	40.5	*	74.0	54.0	-33.5	*	157	1
2448.24	-32.24	28.10	Н	43.2	*	39.0	*	74.0	54.0	-35.0	*	160	1
4880.00	-30.27	33.70	Н	40.2	*	43.6	*	74.0	54.0	-30.4	*	170	1

Antenna Polarization: Vertical

E /MII.	Correct	Ant. Fac.	Ant.	Read	O	Emis		Limit			Limit		
Freq/MHz		(dB)	Pol.	(dB)		(dBu	<u> </u>		V/m)	(dBu ^V		AZ	EL
	(dB)		(H/V)	PK	AV	PK	AV	PK	AV	PK	AV	(0)	(m)
2440.00	-32.22	28.08	V	62.7	53.2	58.6	49.0	N/A	N/A	N/A	N/A	244	1
2434.24	-32.21	28.07	V	45.0	*	40.8	*	74.0	54.0	-33.2	*	250	1
2435.84	-32.22	28.07	V	48.6	*	44.5	*	74.0	54.0	-29.5	*	245	1
2444.32	-32.23	28.09	V	48.0	*	43.9	*	74.0	54.0	-30.1	*	240	1
2445.28	-32.23	28.09	V	45.6	*	41.5	*	74.0	54.0	-32.5	*	250	1
4880.00	-30.27	33.70	V	40.9	*	44.3	*	74.0	54.0	-29.7	*	0	1.2

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 3. The field strength of other emission frequencies were very low against the limit.



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Temperature: 25°C Humidity: 55 %RH Ferquency Range: 30 - 1000 MHz Measured Distance: 3m Receiver Detector: Q.P. Tested Mode: **CH77** Tested Date: Aug 23, 2005 Tested By: Nick

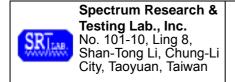
Antenna Polarization: Horizontal

	Correct		Ant.	Read	ling	Emis	ssion	Limit	Line	Over	Limit		
Freq/MHz		Ant. Fac.	Pol.	(dBi	U		V/m)		V/m)	(dBu		AZ	EL
	(dB)	(dB)	(H/V)	PK	AV	PK	AV	PK	AV	PK	AV	(o)	(m)
2479.00	-32.19	28.73	Н	61.4	49.8	58.0	46.3	N/A	N/A	N/A	N/A	135	1.1
2483.50	-32.19	28.17	Н	44.8	*	40.8	*	74.0	54.0	-33.2	*	130	1.1
2471.66	-32.21	28.14	Н	42.6	*	38.5	*	74.0	54.0	-35.5	*	132	1
2474.14	-32.20	28.15	Н	46.9	*	42.8	*	74.0	54.0	-31.2	*	137	1
2484.86	-32.19	28.17	Н	43.8	*	39.8	*	74.0	54.0	-34.2	*	135	1
4958.00	-30.26	33.77	Н	41.2	*	44.8	*	74.0	54.0	-29.3	*	150	1

Antenna Polarization: Vertical

	Correct	Ant. Fac.	Ant.	Read	ling	Emis	ssion	Limit	Line	Over	Limit		
Freq/MHz	Factor	(dB)	Pol.	(dBı	uV)	(dBu	V/m)	(dBu	V/m)	(dBu	V/m)	AZ	EL
	(dB)	(ub)	(H/V)	PK	AV	PK	AV	PK	AV	PK	AV	(o)	(m)
2479.00	-32.19	28.16	V	60.7	47.5	56.7	43.5	N/A	N/A	N/A	N/A	173	1
2483.50	-32.19	28.17	V	43.9	*	39.8	*	74.0	54.0	-34.2	*	180	1
2473.58	-32.20	28.15	V	44.8	*	40.8	*	74.0	54.0	-33.2	*	192	1
2475.18	-32.20	28.15	V	48.5	*	44.4	*	74.0	54.0	-29.6	*	180	1
2485.10	-32.18	28.17	V	42.5	*	38.5	*	74.0	54.0	-35.5	*	170	1
4958.00	-30.26	33.77	V	40.5	*	44.0	*	74.0	54.0	-30.0	*	120	1

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



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5.5 POWER DENSITY TEST

5.5.1 **LIMIT**

FCC Part15, Subpart C Section 15.247

FREQUENCY RANGE (MHz)	Limit(dBm/kHz)
902-928	
2400-2483.5	8dBm/3kHz
5725-5850	

5.5.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
ISPECTRUM I9kHz-7GHz	ROHDE &	FSP7/	APR. 2006	
	SCHWARZ	839511/010	R&S	

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

5.5.3 TEST SET-UP



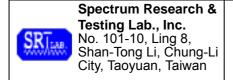
The EUT was connected to a spectrum through a 50Ω RF cable.

5.5.4 TEST PROCEDURE

The EUT was operating in transmitter mode and could be controlled its channel. Printed out the test result from the spectrum by hard copy function.

5.5.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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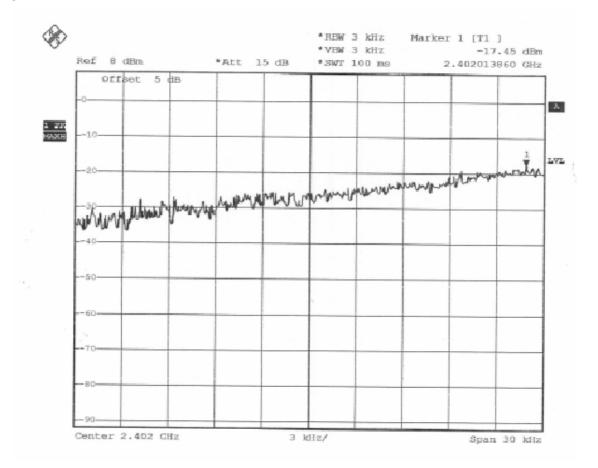
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5.5.6 TEST RESULT

Temperature:	23°C	_ Humidity:	60%RH
Spectrum Detector:	PK.	Tested Mode:	Mouse
Tested By:	NICK	Modulation Type:	FSK

Tested Date: Aug 23, 2005

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3KHz BW (dBm/3kHz)	MAXIMUM LIMIT (dBm/3kHz)
0	2.402	-17.45	8
38	2.440	-18.38	8
77	2.479	-19.64	8

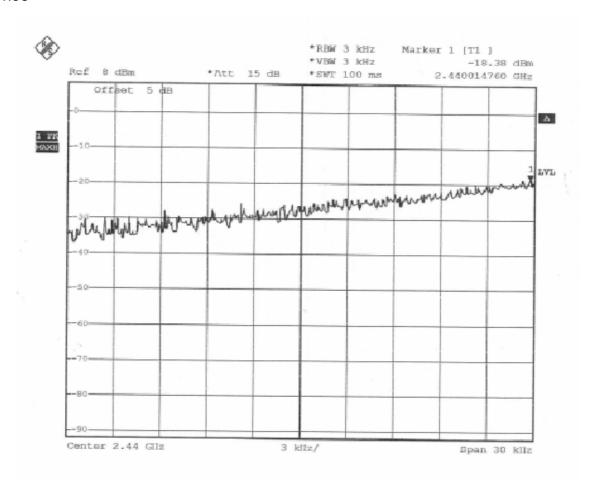




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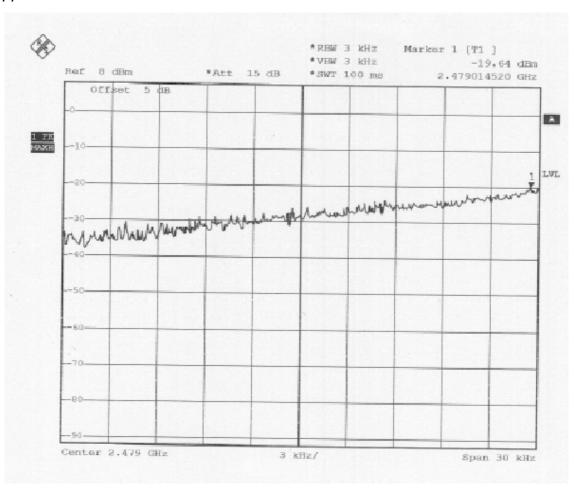


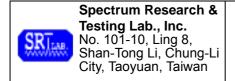


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6. Antenna application

6.1 Antenna requirement

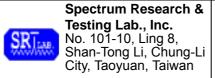
The EUT's antenna is met the requirement of FCC part15C section15.203 and 15.204.

FCC part15C section15.247 requirement:

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

6.2 Result

The EUT's antenna used a chip antenna and integrated on PCB. The antenna's gain is 0dBi and meets the requirement.



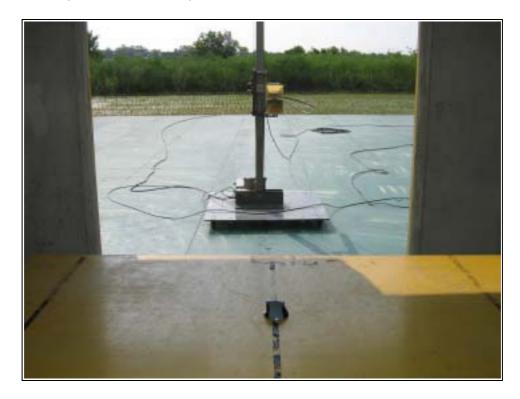
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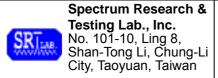
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7. PHOTOS OF TESTING

- Radiated test (Mouse-TX mode)







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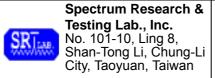
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- Radiated test (Link)



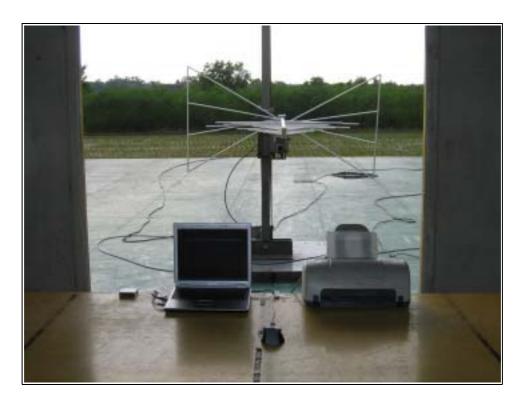




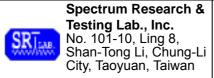
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- Radiated test (Charge)







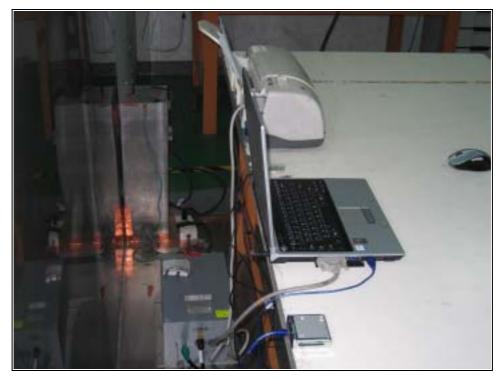
Reference No.:A05080803 Report No.:FCCA05080803

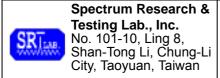
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- Conducted test (Link)







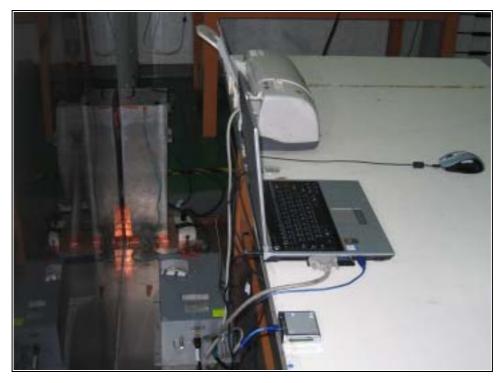
Reference No.:A05080803 Report No.:FCCA05080803

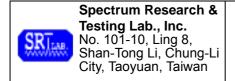
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- Conducted test (Charge)







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8. TERMS OF ABRIVATION

AV.	Average detection
AZ(°)	Turn table azimuth
Correct.	Correction
EL(m)	Antenna height (meter)
EUT	Equipment Under Test
Horiz.	Horizontal direction
LISN	Line Impedance Stabilization Network
NSA	Normalized Site Attenuation
Q.P.	Quasi-peak detection
SRT Lab	Spectrum Research & Testing Laboratory, Inc.
Vert.	Vertical direction