Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan, R.O.C.

 $SR_{128}$ 

# **TEST REPORT**

Reference No.: A03051205 Report No.: FCCA03051205 Page:1 of 23 Date:Oct. 14, 2003

Mini Mouse

Product Name:	Wireless USB Optical RF Mini Mc
Model No.:	GME223R
Applicant:	IOGEAR, Inc.
	23 Hubble, Irvine, Ca92618, USA
Date of Receipt:	May 12, 2003
Finished date of Test:	Oct. 14, 2003
Applicable Standards:	47 CFR Part 15, Subpart C
	ANSI C63.4:1992

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 :

<u>「しん ディ</u>, Date: <u>10/14/2003</u> (Sunyou Chen)

Approved By :

Date: Oct. 14, 2003

(Johnson Ho, Director)



FCC ID:QLEGME223R





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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.
- The report must not be used by the applicant to claim that the product is endorsed by NVLAP, TÜV, NEMKO and SRT.
- The NVLAP logo applies only to the applicable standards specified in this report.

# 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.



# 2. DESCRIPTION OF EUT AND TEST MODE

# 2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless USB Optical RF Mini Mouse
MODEL NO.	GME223R
POWER SUPPLY	3Vdc from battery (1.5V x 2) for transmitter part
FOWER SUFFLI	5Vdc from PC system for receiver part
CABLE	1.5m shielded USB cable
FREQUENCY BAND	26.957 ~ 27.283 MHz
CARRIER FREQUENCY	27.015 MHz
NUMBER OF CHANNEL	1
CHANNEL SPACING	25 kHz
RATED RF OUTPUT POWER	0 dBm
I.F. & L.O.	I.F.: 0.455 MHz, L.O.: 26.56 MHz
MODULATION TYPE	FSK
BIT RATE OF TRANSMISSION	4.8 kbps
ANTENNA TYPE	Loop antenna integrated on PCB

**NOTE**: The product is a wireless optical mouse which includes transmitter part (Tx) and receiver part (RX). For more detailed features, please refer to the manufacturer's specification or User's Manual.

# 2.2 DESCRIPTION OF EUT INTERNAL DEVICE

DEVICE	BRAND / MAKER	MODEL #	FCC ID/DOC	REMARK
N/A				

# 2.3 DESCRIPTION OF TEST MODE

The EUT was tested for emission measurement under the following situations:

Mode	Power Source	Operating
1	Battery	TX+RX
2	PC SUB port	Charge



## 2.4 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.4:1992 and CISRP22:1997. 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 #	FCC ID/DOC	CABLE
1	PC	DELL	PP01L	DOC	1.8m unshielded power cord
2	MODEM	ACEEX	DM-1414	DOC	1.5m unshielded power cord 1.2m shielded data cable
3	PRINTER	EPSON	STYLUS C20SX	DOC	1.5m unshielded power cord 1.2m shielded data cable

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

# 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 C63.4:1992

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



## 4. CONDUCTED EMISSION TEST

# 4.1 CONDUCTED EMISSION LIMIT

FREQUENCY (MHz)	Class A	(dBµV)	Class B (dBµV)		
FREQUENCT (MHZ)	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.

# 4.2 TEST EQUIPMENT

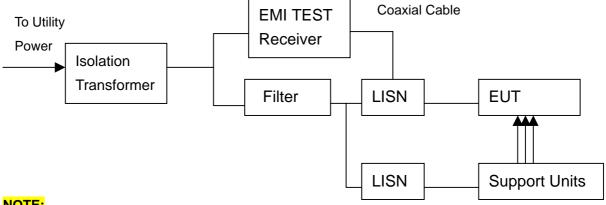
The following test equipment was used for the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST	9 kHz TO	ROHDE &	ESCS30/	AUG. 2004
RECEIVER	2750 MHz	SCHWARZ	830245/012	ETC
LISN (for EUT)	50 µH, 50 ohm	SOLAR	8012-50-R-24-BNC	JUN. 2004
		ELECTRONICS	/ 924839	ETC
LISN	50µH, 50 ohm	SOLAR	9252-50-R-24-BNC	JUN. 2004
(for Peripheral)	50µ11, 50 01111	ELECTRONICS	/ 951318	ETC
50 ohm	50 ohm	HP	11593A/	MAY 2004
TERMINATOR	50 0000		2	ETC
COAXIAL	3m	SUNCITY	J400/	JUL. 2004
CABLE	5111	SUNCTI	3M	SRT
ISOLATION	N/A	APC	AFC-11015/	N/A
TRANSFORMER		AFC	F102040016	
		FIL.COIL	FC-943/	N1/A
FILTER	2 LINE, 30A		771	N/A
	2.3M (H) x	ODT		APR. 2004
GROUND PLANE	2.4M (W)	SRT	N/A	SRT
	2.4M (H) x	ODT		APR. 2004
GROUND PLANE	2.4M (W)	SRT	N/A	SRT

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



# 4.3 TEST SETUP



#### NOTE:

1. The EUT was put on a wooden table with 0.8m height 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 951318.

4. The serial no. of the LISN connected to support units is 924839.

# 4.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:1992 and CISRP22:1997. 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.

# 4.5 EUT OPERATING CONDITION

1. Set the EUT under transmission condition continuously at specific channel frequency. (Mode 1)

2. Under Windows XP run "EMI TEST" program and PC sent "H" pattern or accessed the following peripherals directly or via EUT: (Mode 2)

- Color Monitor
- RS232
- Keyboard
- EUT (RX)
- Printer
- FDD
- HDD



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# 4.6 TEST RESULT

Temperature:	26°C	Humidity:	55 %RH
Ferquency Range:	0.15 – 30 MHz	Tested Mode:	1 (TX+RX)
Receiver Detector:	Q.P. and AV.	Tested By:	Ken Su
		Tested Date:	Jul. 10, 2003

### Power Line Measured : Line

Freq. (MHz)	Correct. Factor		g Value μV)	Emissic (dB	on Level μV)		nit μV)		rgin B)
()	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.291	0.20	32.9	28.1	33.1	28.3	60.5	50.5	-27.4	-22.2
1.980	0.20	18.8	14.5	19.0	14.7	56.0	46.0	-37.0	-31.3
3.670	0.26	27.4	23.2	27.7	23.5	56.0	46.0	-28.3	-22.5
4.890	0.31	21.2	17.1	21.5	17.4	56.0	46.0	-34.5	-28.6
15.420	0.51	24.6	18.9	25.1	19.4	60.0	50.0	-34.9	-30.6
18.150	0.56	27.8	23.8	28.4	24.4	60.0	50.0	-31.6	-25.6

# Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor	. Reading Value (dBμV)		Emission Level (dBμV)		Limit (dBµV)		Margin (dB)	
(,	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.176	0.20	46.0	37.8	46.2	38.0	64.7	54.7	-18.5	-16.7
0.295	0.20	30.2	24.1	30.4	24.3	60.4	50.4	-30.0	-26.1
3.730	0.27	28.9	23.6	29.2	23.9	56.0	46.0	-26.8	-22.1
4.250	0.30	20.3	16.4	20.6	16.7	56.0	46.0	-35.4	-29.3
15.420	0.51	22.0	18.1	22.5	18.6	60.0	50.0	-37.5	-31.4
24.290	0.68	28.3	24.5	29.0	25.2	60.0	50.0	-31.0	-24.8

#### NOTE :

1. Measurement uncertainty is +/-2dB

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:	26°C	Humidity:	55 %RH
Ferquency Range:	0.15 – 30 MHz	Tested Mode:	2 (Charger)
Receiver Detector:	Q.P. and AV.	Tested By:	Ken Su
		Tested Date:	Jul. 10, 2003

#### Power Line Measured : Line

Freq. (MHz)	Correct. Factor		ading Value Emission Leve (dBμV) (dBμV)						-
()	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.177	0.20	47.0	37.0	47.2	37.2	64.6	54.6	-17.4	-17.4
0.349	0.20	35.0	32.3	35.2	32.5	59.0	49.0	-23.8	-16.5
0.530	0.20	20.1	18.5	20.3	18.7	56.0	46.0	-35.7	-27.3
3.580	0.25	25.5	22.7	25.8	23.0	56.0	46.0	-30.3	-23.1
15.350	0.51	23.7	21.1	24.2	21.6	60.0	50.0	-35.8	-28.4
18.090	0.56	29.4	26.2	30.0	26.8	60.0	50.0	-30.0	-23.2

### Power Line Measured : Neutral

Freq. (MHz)	Factor (dBµV)		Factor (dBµV) (dBµV)		Limit (dBµV)		Margin (dB)		
()	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.175	0.20	46.2	35.9	46.4	36.1	64.7	54.7	-18.3	-18.6
0.291	0.20	32.6	29.1	32.8	29.3	60.5	50.5	-27.7	-21.2
3.730	0.27	29.6	26.6	29.9	26.9	56.0	46.0	-26.1	-19.1
4.430	0.31	24.0	21.9	24.3	22.2	56.0	46.0	-31.7	-23.8
15.390	0.51	24.6	24.6	25.1	25.1	60.0	50.0	-34.9	-24.9
25.500	0.71	27.2	25.1	27.9	25.8	60.0	50.0	-32.1	-24.2

#### NOTE :

1. Measurement uncertainty is +/-2dB

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.

#### 5. **RADIATED EMISSION TEST**

#### 5.1 **RADIATED EMISSION LIMIT**

FCC Part 15, Subpart C Section 15.227.

FREQUENCY (MHz)	DISTANCE (m)	FIELD STREN	GTH (dBµV/m)
		PEAK	AVERAGE
26.96 - 27.28	3	100.0	80.0

# FCC Part 15 Subpart B Section 15 209

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, antemma, and the closest point of any part of the device or system.

CISPR 22:1997 limits of radiated emission measurement for frequency below 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBµV/m	dBµV/m
30 – 230	40	30
230 - 1000	47	37

#### NOTE:

1. The lower limit shall apply at the transition frequencies. 2. Emission level  $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$ .



# 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
EMI TEST	20 MHz TO	ROHDE &	ESVS30/	AUG. 2004
RECEIVER	1000 MHz	SCHWARZ	841997/003	ETC
BI-LOG	25 MHz TO	ЕМСО	3142/	APR. 2004
ANTENNA	2 GHz	EMCO	9701-1124	SRT
OATS	3 – 10 M	SRT	SRT-1	APR. 2004
UAIS	MEASUREMENT	SKI	381-1	SRT
COAXIAL	2514		J400/	AUG. 2004
CABLE	25M	SUNCITY	25M	SRT
			FC-943/	N1/A
FILTER	2 LINE, 30A	FIL.COIL	869	N/A
FREQUENCY	N1/A		AFC-1KW/	AUG. 2004
CONVERTER	N/A	APC	860612	SRT

#### NOTE:

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

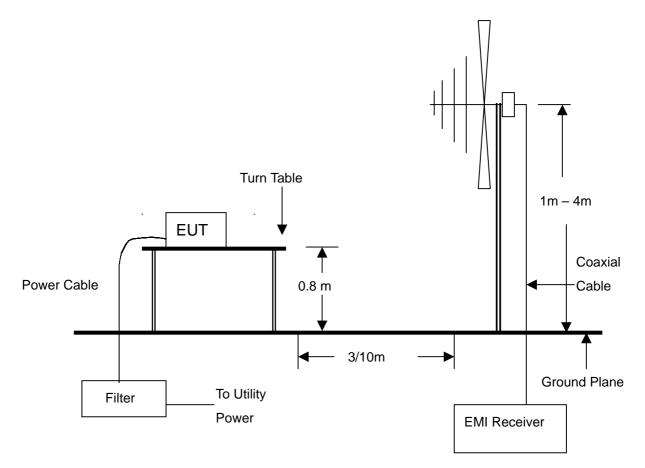
2. The Open Area Test Site (SRT-1) is registered by FCC with No. 90957 and VCCI with No. R-1081.

3. The Open Area Test Site (SRT-2) is registered by FCC with No. 98458 and VCCI with No. R-1168.



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### 5.3 TEST SET-UP



#### NOTE :

- 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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# 5.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:1992 and CISPR 22:1997. 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 or 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.

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.

# 5.5 EUT OPERATING CONDITION

Same as section 4.5 of this report.



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# 5.6 RADIATED EMISSION TEST RESULT

Temperature:	26°C	Humidity:	56 %RH
Ferquency Range:	30 - 1000 MHz	Measured Distance:	3m
Receiver Detector:	AV.	Tested Mode:	TX (Fundamental
Tested By:	Ken Su		Frequency)
Tested Date:	Jul. 09, 2003		

Frequency (MHz)	Antenna Polarization	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
27.015(F)	Н	0.9	23.80	17.6	41.5	80.0	-38.5
27.015(F)	V	0.9	23.80	19.1	46.6	80.0	-33.4

#### NOTE :

- 1. Measurement uncertainty is less than +/- 4dB
- 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.
- 5. (F) : Fundamental frequency of transmitter.



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Temperature:	26°C	Humidity:	56 %RH
Ferquency Range:	30 – 1000 MHz	Measured Distance:	3m
Receiver Detector:	Q.P.	Tested Mode:	1 (TX+RX)
Tested Date:	Jul. 09, 2003	Tested By:	Ken Su

### 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)
81.0470	1.13	8.04	18.5	27.7	40.0	-12.3	125.5	1.38
202.6088	1.64	10.58	18.9	31.1	43.5	-12.4	85.5	1.44
216.1581	1.72	11.14	16.3	29.2	46.0	-16.8	245.5	1.00
229.6252	1.85	11.75	15.2	28.8	46.0	-17.2	22.2	1.90
244.1523	1.98	12.44	18.4	32.8	46.0	-13.2	23.6	3.50

### 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)
189.1380	1.59	10.16	15.5	27.3	43.5	-16.2	96.6	1.24
202.6088	1.64	10.58	20.5	32.7	43.5	-10.8	256.6	1.00
216.1581	1.72	11.14	18.6	31.5	46.0	-14.5	125.5	1.24
229.6252	1.85	11.75	13.2	26.8	46.0	-19.2	85.5	2.67
244.1523	1.98	12.44	12.5	27.0	46.0	-19.0	111.2	1.00

### NOTE :

1. Measurement uncertainty is +/-4dB.

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:	26°C	Humidity:	56 %RH
Ferquency Range:	30 – 1000 MHz	Measured Distance:	10m
Receiver Detector:	Q.P.	Tested Mode:	2 (Charger)
Tested Date:	Jul. 09, 2003	Tested By:	Ken Su

### 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)
131.2000	1.37	7.28	13.6	22.2	30.0	-7.8	12.2	4.00
184.5562	1.60	10.46	12.5	24.6	30.0	-5.4	155.0	3.80
199.2690	1.63	9.95	12.2	23.8	30.0	-6.2	156.0	4.00
229.6252	1.85	10.68	10.6	23.1	30.0	-6.9	63.0	3.65
265.8600	1.94	12.50	14.2	28.6	37.0	-8.4	34.0	4.00
452.0062	2.60	16.97	13.2	32.8	37.0	-4.2	55.0	3.20

# 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)
131.2500	1.37	7.28	14.1	22.8	30.0	-7.2	15.0	1.20
192.6630	1.60	10.30	10.2	22.1	30.0	-7.9	56.0	1.00
199.2690	1.63	9.95	13.9	25.5	30.0	-4.5	155.0	1.00
229.6252	1.85	10.68	10.1	22.6	30.0	-7.4	69.0	1.20
265.8600	1.94	12.50	8.6	23.0	37.0	-14.0	40.0	1.40
452.0070	2.60	16.97	10.8	30.4	37.0	-6.6	55.0	1.00

### NOTE :

1. Measurement uncertainty is +/-4dB.

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.





# 6. BAND EDGE

# 6.1 BAND EDGE LIMIT

The limit is less than 26dB with respect to the amplitude of fundamental frequency.

# 6.2 TEST EQUIPMENT

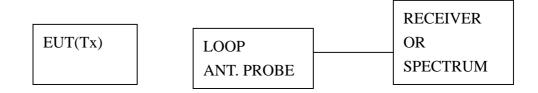
The following test equipment was used during the radiated emission test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER		DUE DATE OF CAL. & CAL. CENTER
SPECTRUM	9 kHz TO 7GHz	ROHDE & SCHWARZ	FSP7/ 839511/010	MAR. 2004 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.

# 6.3 TEST SET-UP



# 6.4 TEST PROCEDURE

A specific loop antenna was connected to receiver to detect the EUT's power level. The Receiver displayed the EUT's power level and printed out the plot of measurement.

# 6.5 EUT OPERATING CONDITION

Set the EUT under transmission condition continuously at specific channel frequency.

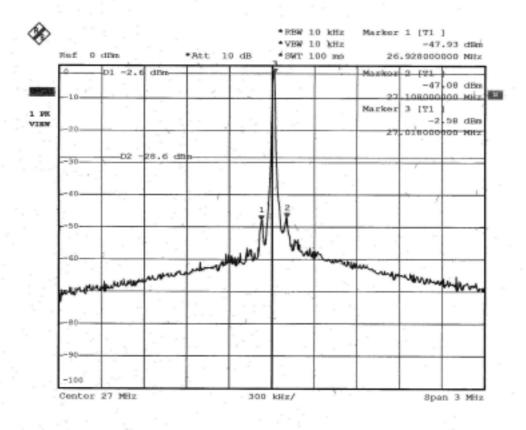


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## 6.6 BAND EDGE TEST RESULT

Temperature:	25 °C	Humidity:	55 %RH
Receiver Detector:	Peak	Tested By:	Ken Su
Test Result:	Pass		

FREQUENCY (MHZ)	RF LEVEL 10kHz BW (dBm)	LIMIT (dBm)	MARGIN (dB)
26.928	-47.93	-28.6	-19.328
27.108	-47.08	-28.6	-18.480



Qute:

14.007.2003 12:11:23



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# 7. PHOTOS OF TESTING

- Conducted test (Mode 1)







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- Conducted test (Mode 2)







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- Radiated test (Mode 1)







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- Radiated test (Mode 2)









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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