

# **FCC TEST REPORT**

**REPORT NO.:** F90010313

**MODEL NO.:** GB-1000

**RECEIVED:** Jan. 03, 2001

**TESTED:** Jan. 07, 2001

APPLICANT: IWILL CORP.

ADDRESS: NO. 10, WU-CHUAN 3 RD., HSIN-CHUANG

CITY, TAIPEI, TAIWAN R.O.C.

**ISSUED BY:** Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,

Taiwan, R.O.C.

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Accredited Laboratory

# FCC ID:LK4GB-1000



# **Table of Contents**

1	CERTIFICATION	3
2	SUMMARY OF TEST RESULTS	4
3	GENERAL INFORMATION	5
3.1 3.2 3.3 4	GENERAL DESCRIPTION OF EUT DESCRIPTION OF TEST MODES DESCRIPTION OF SUPPORT UNITS EMISSION TEST	5 6 7
4.1 4.1.1 4.1.2 4.1.3	CONDUCTED EMISSION MEASUREMENTLIMITS OF CONDUCTED EMISSION MEASUREMENTTEST INSTRUMENTSTEST PROCEDURE	7 7 8
4.1.4 4.1.5	TEST SETUPEUT OPERATING CONDITIONS	
4.1.6 4.2	TEST RESULTSRADIATED EMISSION MEASUREMENT	10 12
4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.2.6 5	LIMITS OF RADIATED EMISSION MEASUREMENT TEST INSTRUMENTS TEST PROCEDURE TEST SETUP EUT OPERATING CONDITIONS TEST RESULTS RAPHS OF THE TEST CONFIGURATION	12 13 13 13
6	APPENDIX - INFORMATION ON THE TESTING LABORATORIES	



#### CERTIFICATION

PRODUCT: IWLAN **BRAND NAME: I WILL** MODEL NO: GB-1000 APPLICANT: IWILL CORP.

STANDARDS: FCC Part 15, Subpart B, Class B

CISPR 22: 1997, Class B

ANSI C63.4-1992

We, Advance Data Technology Corporation, hereby certify that one sample of the designation has been tested in our facility on Jan 07, 2001. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

CHECKED BY: Karry Jeng, DATE: 2/1/200/
(Kathy Tseng)

APPROVED BY: Mike Su, DATE: 2/1/200/.



# **2 SUMMARY OF TEST RESULTS**

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Remarks
CISPR 22: 1997, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is – 11.6 dB at 0.207 MHz
Class D	Radiated Test	PASS	Meets Class B Limit Minimum passing margin is –3.0 dB at 132.72 MHz



#### 3 GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	IWLAN
MODEL NO.	GB-1000
	Switching
POWER SUPPLY	Power Cord:
	Nonshielded, AC (1.8m)
DATA CABLE	NA

**NOTE**: The EUT is a IWLAN with resolution up to 640 x 480.

The EUT has 1 USB port, 1 PARALLEL port and 2 SERIAL port.

For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

# 3.2 DESCRIPTION OF TEST MODES

The EUT was tested respectively using the following configuration.

COMPONENTS	SPEC.
CPU	INTEL PIII 667 MHz
MOTHERBOARD	IWILL 740100-1
POWER SUPPLY	ZIPPY MTW-6181F



# 3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	19"COLOR	HP	D2842A	KR93473118	BEJCB910
	MONITOR				
2	PRINTER	HP	2225C+	2936S56294	DSI6XU2225
3	MODEM	ACEEX	1414	980020540	IFAXDM1414
4	USB	SiliconGraphis	SK-2502U	S990800263	GYUR58SK
	KEYBOARD				
5	RS232	LOGITECH	M-M30	N/A	D2L210569
	MOUSE				
6	VGA CARD	Gordia	DSV3365	E860023331	LUT-DSV3365
7	PC	IWILL	GB-1000	N/A	FCC DoC
					APPROVED
8	21" COLOR	HP	D2846	JP92233134	FCC DoC
	MONITOR				APPROVED
9	USB	Silicon	SK-2502U	M990207216	GYUR58SK
	KEYBOARD	Graphics			
10	PS/2 MOUSE	DEXIN	A2R800A	80110026	NIYA2R800A
		CORP			

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.8 m braid shielded wire, terminated with VGA connector via metallic
	frame, w/o core.
2	1.2m braid shielded wire, terminated with DB25 and Centronics
	connector via metallic frame, w/o core.
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via
	metallic frame, w/o core.
4	2.5 m braid shielded wire, terminated with USB connector via drain wire,
	w/o core.
5	1.8 m shieleded wire.
6	N/A
7	N/A
8	1.8 m braid shielded wire, terminated with VGA connector via metallic frame,
	w/o core.
9	1.8 m foil shielded wire, terminated with USB connector via drain wire,
٦	w/o core.
10	1.5 m foil shielded wire, terminated with PS2 connector via drain wire,
10	w/o core.
	W/O COIG.

**NOTE**: 1. All power cords of the above support units are non shielded (1.8m).

- 2.Two Lan cables (1.0m) were connected to the Lan ports of EUT to form two open loop cables.
- 3. The EUT acted as SERVER PC and communicated with support units 7-10 which acted as WORKSTATION and partners of communication system via a STP cable (10m)



#### 4 EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A	(dBuV)	3 (dBuV)	
FREQUENCT (MH2)	Quasi-peak	uasi-peak Average		Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

**NOTES**: (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.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

# 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESHS30	828109/007	July 6, 2001
ROHDE & SCHWARZ Artificial Mains Network	ESH3-Z5	839135/006	July 9, 2001
ROHDE & SCHWARZ 4-wire ISN	ENY41	835154/007	Apr. 26, 2001
EMCO-L.I.S.N.	3825/2	9204-1964	July 9, 2001
Shielded Room	Site 2	ADT-C02	NA

**NOTE**: 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

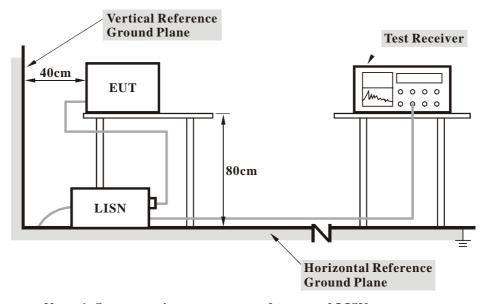
<sup>2.</sup> The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



#### 4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported.

#### 4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.



# 4.1.5 EUT OPERATING CONDITIONS

- a. Turn on the power of all equipment.
- b. EUT runs a test program to enable all functions of EUT.
- c. EUT sends and receives messages from WORKSTATION PC via a STP cable.
- d. EUT sends "H" messages to monitor and then monitor displays them on its screen.
- e. EUT sends messages to printer, and then printer prints them on paper.
- f. EUT sends messages to modem.
- g. Repeat steps c-g



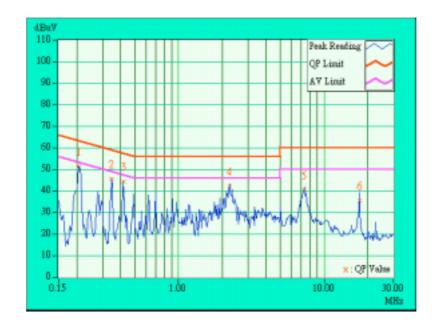
#### 4.1.6 TEST RESULTS

EUT	IWLAN	MODEL	GB-1000	
201	IVVLAIN	6dB BANDWIDTH	10 kHz	
INPUT POWER	120Vac, 60 Hz	PHASE	Line (L)	
ENVIRONMENTAL	23 deg. C, 79 % RH,	TESTED BY: John Liad		
CONDITIONS	1050 mHg	TESTED BY:	- I aa	

No	Freq.	Corr.	Read Val	lue		ssion vel (uV)]		nit (uV)]	Mar (dl	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.207	0.20	51.44	-	51.64	-	63.32	53.32	-11.68	-
2	0.349	0.20	45.62	-	45.82	-	58.99	48.99	-13.17	-
3	0.417	0.20	44.43	-	44.63	-	57.50	47.50	-12.87	-
4	2.233	0.22	42.14	-	42.36	-	56.00	46.00	-13.64	-
5	7.287	0.56	40.21	-	40.77	-	60.00	50.00	-19.23	-
6	17.542	1.05	35.44	-	36.49	-	60.00	50.00	-23.51	-

#### Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Emission Level = Correction Factor + Reading Value.



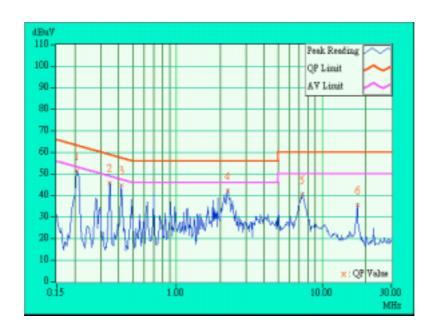


EUT	IWLAN	MODEL	GB-1000	
E01	IVVLAIN	6dB BANDWIDTH	10 kHz	
INPUT POWER	120Vac, 60 Hz	PHASE	Neutral (N)	
ENVIRONMENTAL	23 deg. C, 79 % RH,	Tolor	1	
CONDITIONS	1050 mHg	TESTED BY: John Liaa		

No	Freq.	Corr.	Read Val	ding lue		sion vel	Lir	nit	Mar	gin
		Factor	[dB (	(uV)]	[dB (	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.207	0.20	51.52	-	51.72	-	63.32	53.32	-11.60	-
2	0.349	0.20	45.95	-	46.15	-	58.98	48.98	-12.83	-
3	0.418	0.20	44.82	-	45.02	-	57.50	47.50	-12.48	-
4	2.238	0.22	42.30	-	42.52	-	56.00	46.00	-13.48	-
5	7.288	0.51	40.41	ı	40.92	ı	60.00	50.00	-19.08	-
6	17.543	0.95	35.70	-	36.65	-	60.00	50.00	-23.35	-

#### Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Emission Level = Correction Factor + Reading Value.





### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

**NOTES**: (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.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

# 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL	
HP Spectrum Analyzer	8590L	3520A00667	Sept. 13, 2001	
CHASE Preamplifier	CPA9231A/4	3215	Nov. 12, 2001	
HP Preamplifier	8449B	3008A01201	Dec. 13, 2001	
ROHDE & SCHWARZ TEST RECEIVER	ESVS10	846285/012	Dec. 28, 2001	
ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Aug. 3, 2001	
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2001	
CHASE BILOG Antenna	CBL6112	2074	Dec. 25, 2001	
EMCO Double Ridged Guide Antenna	3115	9312-4192	March 29, 2001	
CHANCE Turn Table & Tower Controller	ACS-I	NA	NA	
Open Field Test Site	Site 6	ADT-R06	Dec. 24, 2001	

**NOTE:** 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

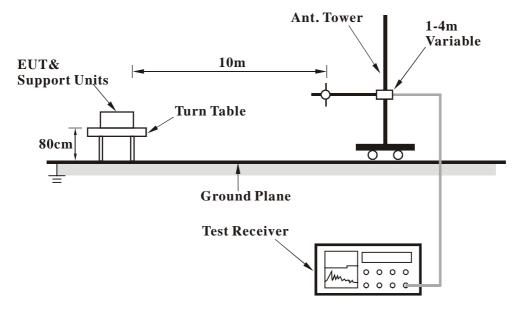
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.



# 4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a ratable table 0.8 meters above the ground at a 10-meter open field site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the ratable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be retested one by one using the quasi- peak method or average method as specified and then reported In Data sheet peak mode and QP mode.

#### 4.2.4 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

### 4.2.5 EUT OPERATING CONDITIONS

Same as 4.1.5



# 4.2.6 TEST RESULTS

		MODEL	GB-1000
EUT	IWLAN	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL	25 deg. C, 78 % RH,	TESTED BY:	ofm Line
CONDITIONS	1050 mHg	3	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M										
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor
	(1011 12)	(dBuV/m)	(abav/iii)	(GD)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)
1	66.55	20.1 QP	30.00	-9.90	3.99H	138	12.01	7.29	0.79	0.00	-8.09
2	120.00	21.5 QP	30.00	-8.50	3.99H	22	6.90	13.34	1.26	0.00	-14.60
3	132.72	27.0QP	30.00	-3.00	3.99H	71	12.87	12.82	1.31	0.00	-14.13
4	166.64	20.2 QP	30.00	-9.80	3.99H	282	7.45	11.36	1.39	0.00	-12.75
5	200.00	21.2 QP	30.00	-8.80	3.99H	30	8.57	11.07	1.57	0.00	-12.64
6	210.22	22.1 QP	30.00	-7.90	3.99H	351	8.74	11.72	1.64	0.00	-13.36
7	222.28	23.8 QP	30.00	-6.20	3.35H	360	9.50	12.56	1.72	0.00	-14.28
8	400.02	33.9 QP	37.00	-3.10	2.13H	255	14.38	17.87	1.65	0.00	-19.52
9	533.40	32.8 QP	37.00	-4.20	2.63H	357	7.83	21.70	3.27	0.00	-24.97
10	800.24	31.4 QP	37.00	-5.60	1.33H	140	3.05	24.08	4.27	0.00	-28.35
11	933.60	30.5 QP	37.00	-6.50	0.99H	326	0.85	25.22	4.44	0.00	-29.65

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M											
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction	
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor	
	(1011 12)	(dBuV/m)	(dDd v/III)	(GD)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)	
1	33.23	21.2 QP	30.00	-8.80	1.00V	32	2.92	17.74	0.54	0.00	-18.28	
2	76.21	22.3 QP	30.00	-7.70	1.74V	355	13.60	7.84	0.85	0.00	-8.70	
3	96.01	22.1 QP	30.00	-7.90	1.00V	334	10.01	11.09	1.00	0.00	-12.09	
4	132.68	25.3 QP	30.00	-4.70	0.99V	205	11.21	12.82	1.31	0.00	-14.13	
5	144.02	25.0 QP	30.00	-5.00	0.99V	8	11.37	12.28	1.36	0.00	-13.63	
6	200.00	22.4 QP	30.00	-7.60	1.00V	262	9.73	11.07	1.57	0.00	-12.63	
7	300.06	30.8 QP	37.00	-6.20	0.99V	316	12.94	15.77	2.09	0.00	-17.86	
8	398.01	33.9 QP	37.00	-3.10	1.00V	278	14.44	17.81	1.65	0.00	-19.46	
9	530.60	33.5 QP	37.00	-3.50	3.97V	168	8.75	21.52	3.23	0.00	-24.76	
10	800.01	30.9 QP	37.00	-6.10	3.12V	250	2.55	24.08	4.27	0.00	-28.36	
11	933.60	31.5 QP	37.00	-5.50	1.90V	277	1.85	25.22	4.44	0.00	-29.66	

- REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) Correction Factor(dB) 2. Correction Factor(dB) = Pre-Amplifier Factor (dB) Antenna Factor (dB) Cable Factor (dB) = 0, when the test receiver is used to read the
  - value and because it did not use the Pre-Amplifier.
  - 4. The other emission levels were very low against the limit.
  - 5. Margin value = Emission level Limit value.



		MODEL	GB-1000
EUT	IWLAN	FREQUENCY RANGE	1000-5000 MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak 1MHz
ENVIRONMENTAL	25 deg. C, 78 % RH,	TESTED BY: Jak	Line
CONDITIONS	1050 mHg		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction	
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor	
	(dBuV/m)	(ubuv/III)	(ub)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)		
1	1061.70	45.2 pk	74.00	-28.80	1.00H	154	16.60	23.82	4.82	0.00	-28.63	
2	1195.70	45.2 pk	74.00	-28.80	1.03H	156	15.70	24.32	5.16	0.00	-29.48	
3	1333.50	50.8 pk	74.00	-23.20	1.00H	150	20.50	24.79	5.48	0.00	-30.27	
4	1463.90	45.6 pk	74.00	-28.40	0.99H	140	14.50	25.26	5.87	0.00	-31.13	
5	1598.50	45.1 pk	74.00	-28.90	1.00H	260	13.00	25.88	6.21	0.00	-32.09	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M											
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction	
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor	
	(dBuV/m)	(ubuv/III)	(ub)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)		
1	1061.70	45.4 pk	74.00	-28.60	1.00V	319	16.80	23.82	4.82	0.00	-28.63	
2	1195.80	45.3 pk	74.00	-28.70	1.00V	207	15.80	24.32	5.16	0.00	-29.48	
3	1333.80	49.2 pk	74.00	-24.80	1.18V	284	18.90	24.79	5.48	0.00	-30.27	
4	1466.90	44.6 pk	74.00	-29.40	1.82V	195	13.40	25.29	5.87	0.00	-31.16	
5	1600.40	45.7 pk	74.00	-28.30	1.71V	198	13.60	25.88	6.21	0.00	-32.09	

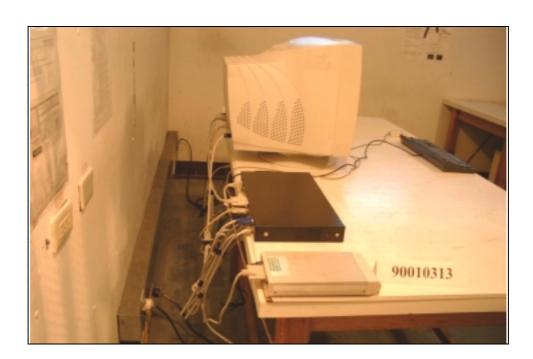
- **REMARKS**: 1. Emission level(dBuV/m)=Raw Value(dBuV) Correction Factor(dB)
  - 2. Correction Factor(dB) = Pre-Amplifier Factor (dB) Antenna Factor (dB) - Cable Factor (dB)
  - 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
  - 4. The other emission levels were very low against the limit.
  - 5. Margin value = Emission level Limit value.



# **5 RAPHS OF THE TEST CONFIGURATION**









# RADIATED EMISSION TEST







#### 6 APPENDIX - INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA FCC, NVLAP TUV Rheinland

Japan VCCI New Zealand MoC

Norway NEMKO, DNV INCHCAPE

**R.O.C.** BSMI

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: <a href="https://www.adt.com.tw/index.5/phtml">www.adt.com.tw/index.5/phtml</a>.

If you have any comments, please feel free to contact us at the following:

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