

Class B Certification Application

Under Part 15, Subpart B

EUT : PERSONAL COMPUTING TABLET

MODEL : Qbe-P11

FCC ID : OVKQBE-P11

SRT REPORT # T9J37-3

PREPARED FOR :

AQCESS TECHNOLOGIES INC.

3611 SOUTH HARBOR BL. SUITE 105 SANTA ANA,
CALIFORNIA,
U.S.A. 92704-6975

AQCESS TECHNOLOGIES INC.

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TEL: 714-4381038

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Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

To whom it may concern :

This is to serve as proper written authorization that Spectrum Research and Testing Laboratory, Inc., 15200, Shady Grove Rd., Rockville, MD. 20850, will act as our representative in all matters relating to FCC applications for equipment approval. This includes the signing of all related documents, the transmitting of required fees, and receiving correspondence and notifications from the FCC. All acts performed by Spectrum Research and Testing Laboratory, Inc., especially modifications to our equipment under testing will be carried out on our behalf.

Meantime, the applicant certifies that in the case of an individual applicant (e.g., corporation), no party to the applicant is subject to a denial of federal benefits, that includes FCC denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 862. For a definition of a " party " for these purposes see 47 C.F.R. 1.2002 (b).

If you have any questions regarding our applications for equipment approval, please contact Spectrum Research and Testing Laboratory, Inc. by calling (301) 670-2818.

Respectfully,

Orlando Cardenas

(Name, Surname)

CTO

(Position/Title)

Effective Dates :

From 1/21/2000 to 1/21/2001DATE : 1/21/2000

EMI TESTING REPORT

EUT : PERSONAL COMPUTING TABLET

MODEL : Qbe-PH

FCC ID : OVKQBE-PH

PREPARED FOR :

AQCESS TECHNOLOGIES INC.

3611 SOUTH HARBOR BL. SUITE 105 SANTA ANA,

CALIFORNIA,

U.S.A. 92704-6975

PREPARED BY :

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TABLE OF CONTENTS

1. TEST REPORT CERTIFICATION.....	5
2. TEST STATEMENT	
2 . 1 TEST STATEMENT.....	6
2 . 2 DEPARTURE FROM DOCUMENT POLICIES, PROCEDURE OR SPECIFICATIONS, TEST STATEMENT.....	6
3. EUT MODIFICATIONS.....	7-8
4. CONDUCTED POWER LINE TEST	
4 . 1 TEST EQUIPMENT.....	9
4 . 2 TEST PROCEDURE.....	9
4 . 3 TEST SETUP.....	10
4 . 4 CONFIGURATION OF THE EUT.....	11-12
4 . 5 EUT OPERATING CONDITION.....	13
4 . 6 EMISSION LIMITS.....	13
4 . 7 EMISSION TEST RESULTS.....	14-15
5. RADIATED EMISSION TEST	
5 . 1 TEST EQUIPMENT.....	16
5 . 2 TEST PROCEDURE.....	17
5 . 3 TEST SETUP.....	17-18
5 . 4 CONFIGURATION OF THE EUT.....	19
5 . 5 EUT OPERATING CONDITION.....	19
5 . 6 EMISSION LIMITS.....	19
5 . 7 RADIATION EMISSION TEST RESULTS.....	20-21

1. TEST REPORT CERTIFICATION**APPLICANT** : AQCESS TECHNOLOGIES INC.**ADDRESS** : 3611 SOUTH HARBOR BL. SUITE 105 SANTA ANA,
CALIFORNIA,
U.S.A. 92404-6975**EUT DESCRIPTION** : PERSONAL COMPUTING TABLET(A) POWER SUPPLY : FROM ADAPTOR(B) MODEL : Qbe-PII(C) FCC ID : OVKQBE-PII**FINAL TEST DATE** : 01/21/2000**MEASUREMENT PROCEDURE USED :**

* PART 15 SUBPART B OF FCC RULES AND REGULATIONS (47 CFR PART 15)

* ANSI C63.4 - 1992


* TEST PROCEDURE AND DATA ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS.

We hereby certify that :


The measurements contained in this report were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable.


TESTING ENGINEER : _____ DATE 01/21/2000

Bruce Chen


SUPERVISOR : _____ DATE 01/21/2000

Jesse Ho


APPROVED BY : _____ DATE 01/21/2000

Johnson Ho

2. TEST STATEMENT

2 . 1 TEST STATEMENT

1. This letter is to explain the test condition of this project.
The EUT be tested as the following status.
2. The data was shown in this report reflects the worst – case data for the condition as listed above.
Please disregard any other oricessir (s) speed shown in this user manual.
3. EUT Conditions.

CPU : Intel Pentium II 466MHz, clock chip : 66MHz

Resolution : 1024 * 768

Mode 1 differs from mode 2 in LCD panel, HDD and battery.

	LCD panel manufacturer	HDD manufacturer	Battery manufacturer
Mode 1	ACER	FUJITUS	SIMPLO
Mode 2	LG	IBM	FORMOSA

4. NVLAP logo is to be approved by management (it is according to NVLAP requirement if it need) before use.

2 . 2 DEPARTURE FROM DOCUMENT POLICIES, PROCEDURE OR SPECIFICATIONS , THE STATEMNT

A . Did have

Any departure from document policies & procedures or from specifications.

Yes _____, No _____ .

If yes , the description as below.

B . The certificate and report shall not be reproduced except in full , without the written approval of SRT laboratory.

C . The report must not be used by the client to claim product endorsement by NVLAP or any agency the government.

D. This product is a prototype product.

E. The effect that the results relate only to the items tested.

3. EUT MODIFICATIONS

The following accessories were added to the EUT during testing :

No modifications by SRT lab.

AQCESS TECHNOLOGIES INC.

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TEL: 714-4381038

FAX: 949-9750103

[HTTP://www.qbenet.com](http://www.qbenet.com)

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

To whom it may concern :

This is to serve as proper notice that our company agrees to make all
modifications to FCC ID : OVKQBE-PII as listed in section 3.0 of
modification to submitted by Spectrum Research and Testing Laboratory, Inc.

Respectfully,

Orlando Cardenas

(Name, Surname)

Effective Dates :

CTO

(Position/Title)

From 1/21/2000 to 1/21/2001DATE : 1/21/2000

4. CONDUCTED POWER LINE TEST

4 . 1 TEST EQUIPMENT

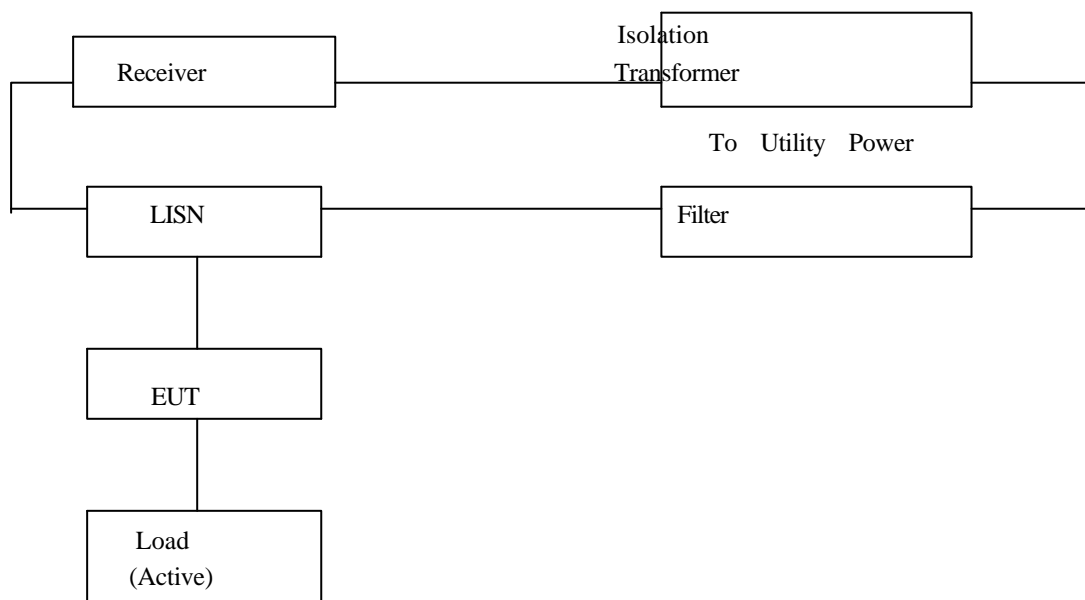
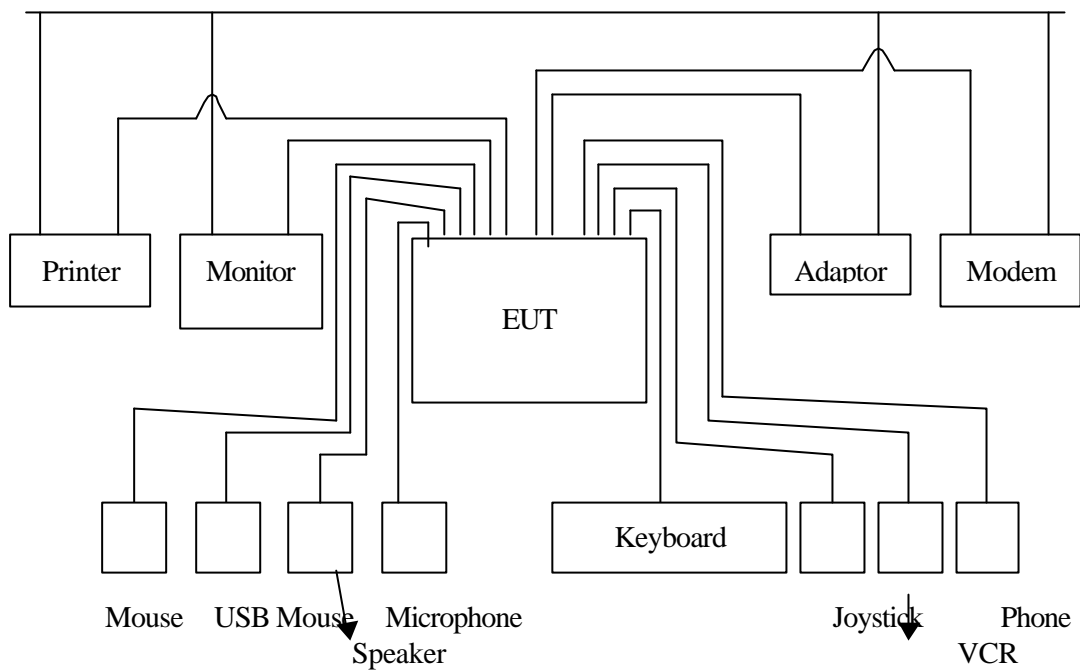
The following test equipment were used during the conducted power line test :

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DATE OF CAL. & CAL. CENTER	DUE DATE	FINAL TEST
SPECTRUM ANALYZER	9 KHz TO 1 GHz	HP	8590L/ 3624A01317	AUGUST 1999 ETC	1Y	
EMI TEST RECEIVER	9 KHz TO 30 MHz	ROHDE & SCHWARZ	ESHS30/ 826003/008	AUGUST 1999 ETC	1Y	
EMI TEST RECEIVER	9 KHz TO 2750 MHz	ROHDE & SCHWARZ	ESCS30/ 830245/012	AUGUST 1999 R&S	1Y	√
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC/ 951315	AUGUST 1999 ETC	1Y	√
LISN	50uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC/ 951318	AUGUST 1999 ETC	1Y	√
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	APRIL 1999 ETC	1Y	√
POWER CONVERTER	0 TO 300 VAC VAC 47-500 Hz	AFC	AFC-1KW/ 850510	MARCH 1999 ETC	1Y	√

4 . 2 TEST PROCEDURE

The EUT was tested according to ANSI C63.4 - 1992. The frequency spectrum from 0.45 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 uHenry as specified by section 5.1 of ANSI C63.4 - 1992. Cables and peripherals were moved to find the maximum emission levels for each frequency.

4.3 TEST SETUP



4 . 4 CONFIGURATION OF THE EUT

The EUT was configured according to ANSI C63.4 - 1992. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

DEVICE	MANUFACTURER	MODEL #	FCCID
PERSONAL COMPUTING TABLET	AQCESS TECHNOLOGIES INC.	Qbe-PII	OVKQBE-PII

B. INTERNAL DEVICES

DEVICE	MANUFACTURER	MODEL #	FCCID / DoC
LCD PANEL(MODE 1)	ACER	D291201	N/A
LCD PANEL(MODE 2)	LG	LP133X7	N/A
MAIN BOARD	TRIPOD	QBE1	N/A
HDD(MODE 1)	FUJITUS	MHK2060AT	N/A
HDD(MODE 2)	IBM	DBCA-206480	N/A
BATTERY(MODE 1)	SIMPLO	PCTA-1100-000	N/A
BATTERY(MODE 2)	FORMOSA	PCTA-1100-000	N/A
CD-ROM	SEPTEMBER	CR-175-D	N/A
CCD	KUO FENG	VA30UC3	N/A

- **REMARK** :

- (1). Battery mode 1 differs from mode 2 in manufacturer and S/N.
- (2). Mode 1 S/N : CGP345010
Mode 2 S/N : BI-PCTAT-2XD0WA

C. PERIPHERALS

DEVICE	MANUFAC-TURER	MODEL #	FCCID / DoC	CABLE
MONITOR	PHILIPS	14B1320W	A3KM064	1.8m unshielded power cord 1.5m shielded data cable (S2)
PRINTER	HP	2225C+	DSI6XU2225	1.8m unshielded power cord 1.2m shielded data cable (S2)
MODEM	SMARTEAM	103/212A	EF56A5103/212A	1.8m unshielded power cord 1.2m shielded data cable (S2)
KEYBOARD	GENVINE	K208	FKO46AK208	1.3m unshielded data cable
MOUSE	HP	M-S34	DZL211029	1.5m unshielded data cable
USB MOUSE	ALLSPIRIT	TUN2	DoC	1.5m unshielded data cable
ADAPTOR	LITEON	PA-1600-01	N/A	1.8m unshielded power cord
SPEAKER	JUSTER	JB-J99	N/A	1.2m unshielded data cable
MICROPHONE	TAKY	UDM-606	N/A	1.2m unshielded data cable
JOYSTICK	CREATIVE	020143	IBACT-BGP1020	1.6m unshielded data cable
TELEPHONE	UNISONIC	6430	N/A	0.5m unshielded data cable
VCR	RCA	VR720HF	ACJ927092AHS	1.8m unshielded data cable

- REMARK :

- (1). Cable - S1 : Single point shielding
S2 : 360° shielding
S3 : Double shielding

- (2). Cables - All 1m or greater in length – bundled according to ANSI C63.4 – 1992.

4 . 5 EUT OPERATING CONDITION

Operating condition is according to ANSI C63.4 - 1992.

1. EUT power on.
2. " H" pattern sent to the following peripherals :
 - Monitor or VGA
 - RS232 (modem)
 - Keyboard
 - Printer
 - FDD
 - HDD

3. Test with CPU

CPU : Intel Pentium II 466MHz, clock chip: 66MHz

4. Resolution: 1024 * 768

4 . 6 CONDUCTED POWER LINE EMISSION LIMITS

FREQUENCY RANGE (MHz)	CLASS B
0 . 45 - 1.705	48.0 dBuV
1.705 - 30	48.0 dBuV

NOTE : In the above table , the tighter limit applies at the band edges.

4 . 7 CONDUCTED POWER LINE TEST RESULTS

The frequency spectrum from 0.45 MHz to 30 MHz was investigated.
All readings are quasi-peak values with a resolution bandwidth
of 9 KHz.

Temperature : 18 °C

Humidity : 60 %RH

FREQUENCY (MHz)	LINE1 (dBuV)	LINE2 (dBuV)	LIMIT (dBuV)
0.86	24.8	13.0	48.0
2.11	30.0	29.3	48.0
2.78	32.8	32.6	48.0
10.02	*	30.8	48.0
16.11	36.0	*	48.0
29.17	37.1	37.0	48.0

REMARKS : (1). * = Measurement does not apply for this frequency
(2). Uncertainty in conducted emission measured is <+/-2dB
(3). Any departure from specification : N/A
(4). CPU: Intel Pentium II 466MHz, clock chip: 66MHz
(5). Resolution : 1024*768
(6). Mode 1

Bruce

SIGNED BY TESTING ENGINEER : _____

4 . 7 CONDUCTED POWER LINE TEST RESULTS

The frequency spectrum from 0.45 MHz to 30 MHz was investigated.
All readings are quasi-peak values with a resolution bandwidth
of 9 KHz.

Temperature : 18 °C

Humidity : 60 %RH

FREQUENCY (MHz)	LINE1 (dBuV)	LINE2 (dBuV)	LIMIT (dBuV)
0.49	35.0	*	48.0
0.83	33.4	*	48.0
0.90	*	32.6	48.0
10.50	25.5	33.8	48.0
23.96	35.1	*	48.0
27.95	*	39.7	48.0

REMARKS : (1). * = Measurement does not apply for this frequency
(2). Uncertainty in conducted emission measured is <+/-2dB
(3). Any departure from specification : N/A
(4). CPU: Intel Pentium II 466MHz, clock chip: 66MHz
(5). Resolution : 1024*768
(6). Mode 2

Bruce

SIGNED BY TESTING ENGINEER : _____

5. RADIATED EMISSION TEST

5.1 TEST EQUIPMENT

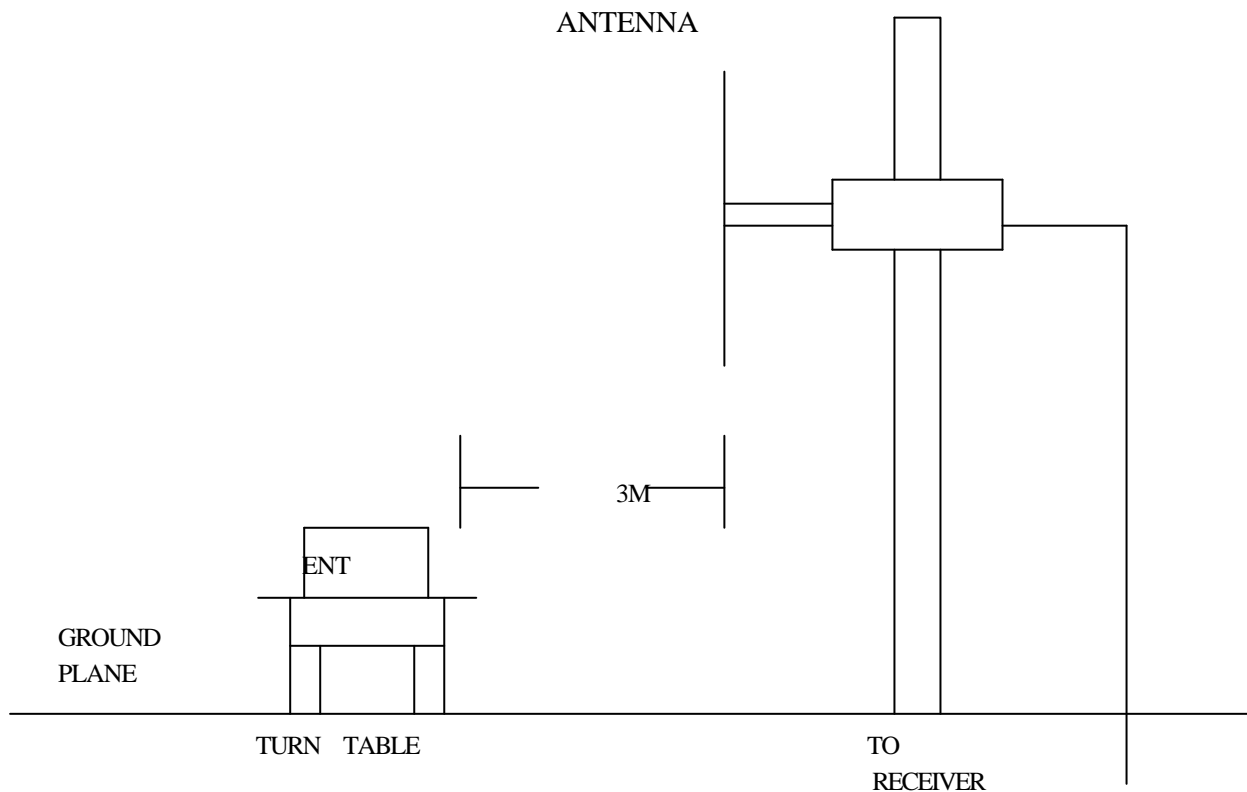
The following test equipment were used during the radiated emission test :

EQUIPMENT / FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL # / SERIAL #	DATE OF CAL. & CAL. CENTER	DUE DATE	FINAL TEST
TEST RECEIVER	9 KHz TO 2.75 GHz	R & S	ESCS30/830245/012	AUGUST 1999 R&S	1Y	
TEST RECEIVER	20 MHz TO 1000 MHz	R & S	ESVS30/841977/003	APRIL 1999 ETC	1Y	√
SPECTRUM ANALYZER	100 Hz TO 1500 MHz	HP	8568B/3019A05294	OCT. 1999 ETC	1Y	
SPECTRUM ANALYZER	9 KHz TO 22 GHz	HP	8593E/3322A00670	MAY 1999 ETC	1Y	
SPECTRUM ANALYZER	100 Hz TO 1000 MHz	IFR	A-7550/2684/1248	JULY 1999 ETC	1Y	
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/841104/019	APRIL 1999 ETC	1Y	√
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/9003-534	MAR. 1999 SRT	1Y	
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/9611-1239	SEP. 1999 SRT	1Y	
BI-LOG ANTENNA	26 MHz TO 2000 MHz	EMCO	3142/9701-1124	JAN. 2000 SRT	1Y	√
BI-LOG ANTENNA	26 MHz TO 2000 MHz	EMCO	3142/9608-1073	SEP. 1999 SRT	1Y	
BI-LOG ANTENNA	26 MHz TO 1100 MHz	EMCO	3143/9509-1152	SEP. 1999 SRT	1Y	
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/2944A08402	APRIL 1999 ETC	1Y	
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/2944A06412	AUGUST 1999 ETC	1Y	
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115/9602-4681	DEC. 1999 ETC	1Y	

5 . 2 TEST PROCEDURE

- (1).The EUT was tested according to ANSI C63.4 - 1992. The radiated test was performed at SRT lab's open site. this site is on file with the FCC laboratory division, reference 31040/SIT.
- (2).The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-1992.
- (3).The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (4). The antenna high were varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5). The antenna polarization : Vertical polarization and horizontal polarization.

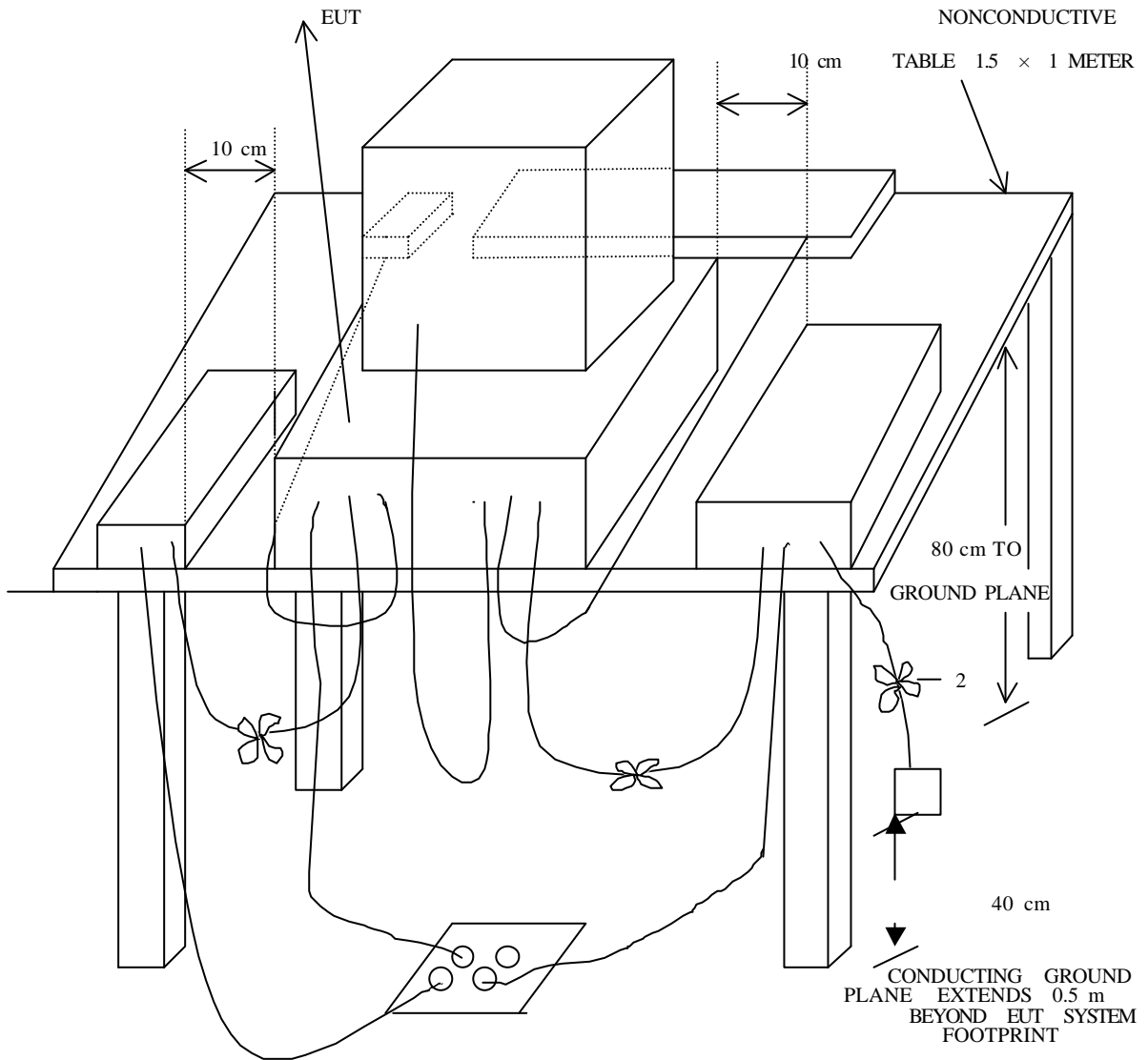
5 . 3 RADIATED TEST SET-UP



5.3 RADIATED TEST SET-UP

ANSI C63.4-1992

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9 KHz TO 40 GHz



5 . 4 CONFIGURATION OF THE THE EUT

Same as section 4.4 of this report

5 . 5 EUT OPERATING CONDITION

Same as section 4.5 of this report.

5 . 6 RADIATED EMISSION LIMITS

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below :

CLASS B

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (dBuV/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.

5 . 7 RADIATED EMISSION TEST RESULTS

The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz . Measurements were made at 3 meters.

Temperature : 18

Humidity : 60 %RH

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBuV)		EMISSION (DbuV/m)		LIMITS (dBuV/m)
			HORIZ	VERT	HORIZ	VERT	
128.3712	1.3	8.6	24.3	22.6	34.2	32.5	43.5
146.2473	1.5	9.0	23.9	21.8	34.4	32.3	43.5
193.2993	1.8	10.6	23.3	23.5	35.7	35.9	43.5
255.8765	2.0	13.3	26.5	22.3	41.8	37.6	46.0
579.8953	3.2	21.0	16.2	15.4	40.4	39.6	46.0
788.5241	4.0	22.2	14.5	16.9	40.7	43.1	46.0

- REMARKS** :
- (1). *= Measurement does not apply for this frequency.
 - (2). Uncertainty in radiated emission measured is <+/-4dB
 - (3). Any departure from specification : N/A
 - (4). Factor will include cable loss and correction factor.
 - (5). Sample calculation

$$20 \log (\text{emission}) \text{ uV/m} = \text{Factor(dB)} + \text{Ant. factor(dB/m)} + \text{reading(dBuV)}$$
 - (6). CPU: Intel Pentium II 466MHz, clock chip: 66MHz
 - (7). Resolution : 1024*768
 - (8). Mode 1

Bruce

SIGNED BY TESTING ENGINEER : _____

5 . 7 RADIATED EMISSION TEST RESULTS

The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz . Measurements were made at 3 meters.

Temperature : 18

Humidity : 60 %RH

FREQ. (MHz)	FACTOR (dB)	ANT. FACTOR (dB/m)	READING (dBuV)		EMISSION (DbuV/m)		LIMITS (dBuV/m)
			HORIZ	VERT	HORIZ	VERT	
40.7123	0.8	13.9	20.3	20.8	35.0	35.5	40.0
193.2993	1.8	10.6	24.3	24.5	36.7	36.9	43.5
386.5978	2.6	16.2	23.3	22.8	42.1	41.6	46.0
579.8951	3.2	21.0	19.2	17.2	43.4	41.4	46.0
786.6073	4.0	22.2	15.3	18.2	41.5	44.4	46.0
885.1237	4.2	23.6	14.5	13.6	42.3	41.4	46.0

- REMARKS** :
- (1). *= Measurement does not apply for this frequency.
 - (2). Uncertainty in radiated emission measured is <+/-4dB
 - (3). Any departure from specification : N/A
 - (4). Factor will include cable loss and correction factor.
 - (5). Sample calculation

$$20 \log (\text{emission}) \text{ uV/m} = \text{Factor(dB)} + \text{Ant. factor(dB/m)} + \text{reading(dBuV)}$$
 - (6). CPU: Intel Pentium II 466MHz, clock chip: 66MHz
 - (7). Resolution : 1024*768
 - (8). Mode 2

Bruce

SIGNED BY TESTING ENGINEER : _____