## EMI TESTING REPORT

EUT :	PC SYSTEM
MODEL:	CM0103
FCCID:	EUNCM0103
PREPARE	D FOR:
FIRST	INTERNATIONL COMPUTER, INC.
	ORMOSA PLASTICS REAR BUILDING
	, TUNG HWA N. RD.,
	TATWAN R.O.C.

## PREPARED BY:

SPECTRUM RESEARCH & TESTING LABORATORY INC.

NO. 101-10, LING 8, SHAN-TONG LI CHUNG-LI CITY, TAOYUAN, TAIWAN, R.O.C.

TEL: (03)4987684 FAX: (03)4986528

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1. TEST REPORT CERTIFICATION
APPLICANT : FIRST INTERNATIONAL COMPUTER, INC.
ADDRESS: 6F., FORMOSA PLASTICS REAR BUILIDING 201-24, TUNG HWA N. RD., TAIPEI, TAIWAN, R.O.C.
EUT DESCRIPTION : PC SYSTEM
(A) POWER SUPPLY : <u>115/230V</u>
(B) MODEL : <u>CM0103</u>
(C) FCCID : <u>EUNCM0103</u>
FINAL TEST DATE :07/31/1998
MEASUREMENT PROCEDURE USED :
PART 15 SUB PART B OF FCC RULES AND REGULATIONS ( 47 CFR PART 15 ) FCC / ANSI C63.4 - 1992
WE HEREBY SHOW THAT:
THE MEASUREMENTS SHOWN IN THE ATTACHMENT 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 : Jan (V) / CDATE 2/3/198
SUPERVISOR: DATE 7/11/78  Jesse Ho

Johnson Ho DATE 7/31/3&

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APPROVED BY :

## 2. TEST STATEMENT

### 2.1 TEST STATEMENT

TO whom it may concern,

This letter is to explain the test condition of this project. The EUT be tested as the following status.

CPU: IBM MX-300: 225MHz
CPU: IBM MX-300: 233MHz
CPU: AMD K6/2: 300MHz
CPU: AMD K6/2: 333MHz
CPU Clock Signal: 66 MHz
CPU Clock Signal: 66 MHz
CPU Clock Signal: 66 MHz

VGA RESOLUTION: 1024\*768

The data shown in this report reflects the worst-case data for each condition as listed above.

Please disregard any other conditions that shown in this user manual.

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Spectrum Re	esearch &	Testing	Lab.	FCC ID	: <u>EUNCM0103</u>	Report#:	T8G21-1
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## 2. TEST STATEMENT

2.2 DEPARTURE FROM DOCUMENT POLICIES, PROCEDURE OR SPECIFICATIONS

DID	HAVE ANY DEPARTURE FROM DOCUMENT POLICIES & PROCEDURES OR FROM SPECIFICATIONS.
	YES , NON/A
	IF YES, THE DESCRIPTION AS BELOW.

### 2.3 TEST STATEMENT

- 1. THE CERTIFICATE OR REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY.
- 2. THE REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT.

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### 3. EUT MODIFICATIONS

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING:

NO MODIFICATION BY SRT LAB.

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4. MODIFICATION LETTER

THIS SECTION CONTAINS THE FOLLOWING DOCUMENTS:

A. LETTER OF MODIFICATIONS



# 大衆電腦股份有限公司 FIRST INTERNATIONAL COMPUTER, INC.

台北市敦化北路201號之24 台塑大樓後棟6樓 6F., FORMOSA PLASTICS REAR BUILDING 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN TEL: (02)717-4500 (代表集)

FAX: (02)712-0231

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 FCCID: EUNCM0103 as listed in section 3.0 of the test report submitted by Spectrum Research andTesting Laboratory, Inc.

Respectfully,

Effective Dates:

JEFF HSUE

(Name, Surname)

From 5/197 to 3/19

(Position/Title)

DATE: 5/22/-17

## 5. CONDUCTED POWER LINE TEST

### 5.1 TEST EQUIPMENT

THE FOLLOWING TEST EQUIPMENT WAS USED DURING THE CONDUCTED POWER LINE TEST:

EQUIPMENT/ FACILITIES	SPECIFICAT -IONS	MANUFACTURER	MODEL#/ SERIAL#	DATE OF CAL. & CAL.CENTER	DUE DATE
SPECTRUM ANALZER	9 KHZ TO 1 GHZ	HP	8590L/ 3624A01317	OCT, 1997 ETC	14
EMI TEST RECEIVER	9 KHz TO 30 MHz	ROHDE & SCHWARZ	ESHS30/ 893517/013	OCT, 1997 ETC	1Y
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC/ 951315	AUGUST, 1997 ETC	1Y
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC/ 951318	AUGUST, 1997 ETC	1Y
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	APRIL, 1998 ITRI	1Y
POWER CONVERTER	0 TO 300 VAC 47 - 500 Hz	AFC	AFC-1KW/ 850510	APRIL, 1998 SRT	1Y

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### 5.2 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.

### -EUT

DEVICE	MANUFACTURER	MODEL #	FCCID
PC STSTEM	FIRST INTERNATIONAL COMPUTER, INC.	CM0103	EUNCM0103

### -REMARK

### - INTERNAL DEVICES

DEVICE	MANUFACTURER	MODEL #	FCCID/DoC
MAIN BOARD	FIC	CM0103	N/A
POWER SUPPLY	HIPRO	HP-Q075YF5	DoC
POWER SUPPLY	DELTA	DPS-75UB	DoC
HDD	SEAGATE	ST32111A 2.	
HDD	SEAGATE	ST34323A 4.3	•
HDD	SEAGATE	ST38641A 8.	•
HDD	FUJITSU	FB11 2.1GB	N/A
HDD	JTS	C4300-3AS 4	.3GB N/A
FDD(3.5")	NEC	FD1231T	N/A
FDD(3.5")	MITSUBISHI	MF355F-3494	UL N/A
CD ROM	TRAY LOAD	CRD-8320B	BEJCRD-8320B
CD ROM	LITEON	LTN-301	DoC
CD ROM	PANASONIC	CR-588-CCQ	
SDRAM	$H\mathbf{Y}\mathbf{U}$	N/A	N/A
SDRAM	LGS	N/A	N/A
SDRAM	MITSUBISHI	N/A	N/A
SDRAM	NEC	N/A	N/A
RISER CARD(WITH/ N	NIC) CM0103	N/A	DoC
RISER CARD(W/O NIC	C) CM0103	N/A	DoC
MODEM CARD	SHETLAND	007201-003	DoC
MODEM CARD	ZEPHYR	M1-5614PM3	DoC
MODEM CARD	DIAMOND	007201-003	DoC

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## - PERIPHERALS

DEVICE	MANUFAC- TURER	MODEL# / SERIAL#	FCCID	CABLE
MONITOR	PHILIPS	14B1320W	A3KM064	POWER-UNS DATA -S
PRINTER	НР	2225C+	DSI6XU2225	POWER-UNS DATA -S
MODEM	SMARTEAM	103/212A	EF56A5103/212A	POWER-UNS DATA -S
KEYBOARD	CRIBBEAN	SK-2700	GYUR55SK	DATA -UNS
KEYBOARD	NMB	122741-001	AQ6-71Z15	DATA -UNS
MOUSE	LOGITECH	M-S34	DZL211029	DATA -UNS
MOUSE	PRIMAX	MUS9JN	EMJMUSJR	DATA -UNS
USB MOUSE	ABIT	97M32U	M5497M32U	DATA -S
USB MOUSE	ABIT	97M32U	M5497M32U	DATA -S
SPEAKER	J-S	J-003	N/A	DATA -S
MICROPHONE	TAKY	UDM-606	N/A	DATA -S
EARPHONE	ALWA	HP-V141	N/A	DATA -S
EARPHONE	ALWA	HP-V141	N/A	DATA -S
TELEPHONE	PANASONIC	VB-9211EX	N/A	DATA -S
JOYSTICK	СН	4620176	N/A	DATA -S

## -REMARK

(1). CABLE - UNS : UNSHIELDED CABLE S : SHIELDED CABLE

(2). CABLES - ALL 1m OR GREATER IN LENGTH-BUNDLED ACCORDING TO ANSI C63.4 - 1992.

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### 5.3 EUT OPERATING CONDITION

OPERATING CONDITION IS ACCORDING TO ANSI C63.4 - 1992.

- 1. EUT POWER ON.
- 2. "H" PATTERN SENT TO THE FOLLOWING PERIPHERALS:
  - PRINTER
  - MONITOR
  - MODEM
  - KEYBOARD
  - HDD
  - FDD
- 3. CONNECT RISER CARD (WITH NIC) TO FILE SERVE AND SENT SIGNAL BETWEEN FILE SERVE & RISER CARD (WITH NIC)
- 4. CD ROM PLAY MUSIC
- 5. CPU : IBM MX-300 : 225MHz
  - CLOCK CHIP : 75MHz
  - CPU : IBM MX-300 : 233MHz
  - CLOCK CHIP : 66MHz
  - CPU : AMD K6/2 : 300MHz
  - CLOCK CHIP : 66MHz
  - CPU : AMD K6/2 : 333MHz
  - CLOCK CHIP : 66MHz

VGA RESULOTION: 1024\*768

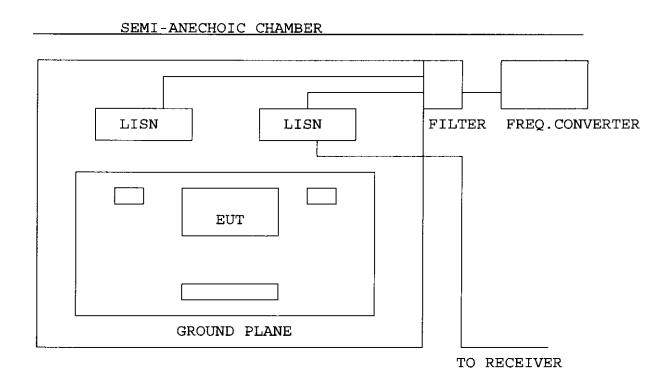
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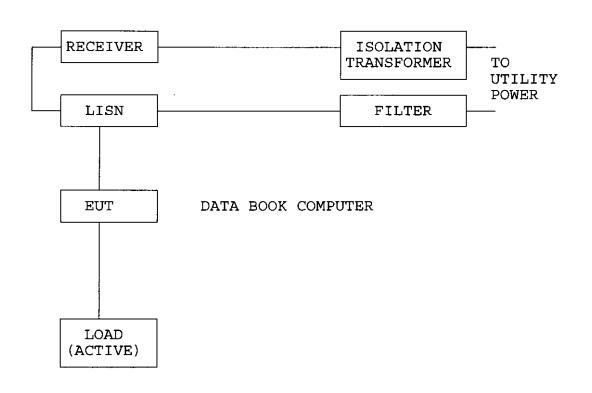
## 5.4 TEST PROCEDURE

THE EUT WAS TESTED ACCORDING TO ANSI C63.4 - 1992. THE CONDUCTED TEST WAS PERFORMED ACCORDING TO ANSI C63.4 7.2 TEST PROCEDURES. 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.

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### 5.5 TEST SETUP





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## 5.6 CONDUCTED POWER LINE EMISSION LIMIT

FREQUENCY RANGE (MHz)	CLASS A	CLASS B
0.045 - 1.705	1000 uV	250 uV
1.705 - 30	3000 uV	250 uV

NOTE : IN THE ABOVE TABLE, THE TIGHTER LIMIT APPLIES AT THE BAND EDGES.

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### 5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)	
0.69	37.58	36.73	250	
0.77	37.58	39.36	250	
3.58	7.240	*	250	
10.0	18.20	21.88	250	
26.0	38.02	38.90	250	

REMARKS : (1) .\* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

- (2).UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
- (3).CPU: IBM MX-300 :225MHz CLOCK CHIP : 75MHz

WITH HIPRO POWER

WITH RISER CARD W/O NIC

HDD:SEAGATE 4.3GB FDD:MITSUBLSHI CD ROM:LITEON

SDRAM: LGS

MODEM CARD: MIAMOND

- (4).TEST CONFIGURATION PLEASE SEE 4.2
- (5).TEST EQUIPMENT PLEASE SEE 4.1

	(6).ANY	DEPARTURE	FROM	SPECIFICATION	:	<u>N/A</u>	7 11
SIGNED	BY TESTING	G ENGINEER	:				Junto 1
0101.22							

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Spectrum Research & Testing Lab. FCC ID: EUNCM0103 Report#: T8G21-1

### 5.7 CONDUCTED POWER LINE TEST RESULT

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 : <u>28</u> C

HUMIDITY: 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.82	46.24	130.3	250
1.17	*	125.9	250
4.45	52.48	*	250
10.7	109.6	95.50	250
23.1	23.1 91.20		250

REMARKS : (1).\* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

- (2).UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
- (3).CPU: IBM MX-300 :225MHz CLOCK CHIP : 75MHz

WITH DOLTA POWER

WITH RISER CARD W/O NIC

HDD:SEAGATE 2.1GB

FDD: NEC

CD ROM: TRAY LOAD

SDRAM HYU

MODEM CARD: SHETLAND

- (4). TEST CONFIGURATION PLEASE SEE 4.2
- (5). TEST EQUIPMENT PLEASE SEE 4.1
- (6).ANY DEPARTURE FROM SPECIFICATION : N/A

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			PAGE	:	17	OF	90			

### 5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

HUMIDITY: 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.70	27.54	40.74	250
0.77	39.81	38.90	250
1.49	41.21	26.92	250
4.03	8.040	6.610	250
9.93	16.79	16.98	250
26.6	26.00	24.55	250

REMARKS : (1).\* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

- (2).UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
- (3).CPU: IBM MX-300 :233MHz CLOCK CHIP : 66MHz

WITH HIPRO POWER

WITH RISER CARD W/O NIC

HDD:SEAGATE 8GB

FDD: NEC

CD ROM:PANASONIC SDRAM:MITSUBISHI MODEM CARD:DIAMOND

- (4).TEST CONFIGURATION PLEASE SEE 4.2
- (5).TEST EQUIPMENT PLEASE SEE 4.1
- (6).ANY DEPARTURE FROM SPECIFICATION : N/A

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			PAGE	:	18	OF	90	· ·	I	

### 5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

HUMIDITY: 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.49	28.84	139.6	250
0.82	40.74	128.8	250
1.15_	53.09	118.9	250
3.13	50.12	89.13	250
4.36	39.81	*	250
			·

REMARKS : (1).\* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

- (2).UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
- (3).CPU: IBM MX-300 :233MHz CLOCK CHIP : 66MHz

WITH DELTA POWER

WITH RISER CARD W/O NIC

HDD:FUJITSU 2.1GB FDD:MITSUBISHI

CD ROM: TRAY LOAD

SDRAM: NEC

MODEM CARD: SHETLAND

- (4).TEST CONFIGURATION PLEASE SEE 4.2
- (5).TEST EQUIPMENT PLEASE SEE 4.1
- (6).ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED	вч	TESTING	ENGINEER	:	Jon	Mor
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### 5.7 CONDUCTED POWER LINE TEST RESULT

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 : <u>28</u> C

HUMIDITY: 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.52	16.60	5.880	250
1.22	19.72	*	250
2.99	3.98	5.820	250
4.14	3.590	*	250
10.4	10.4 *		250
			<u></u>

REMARKS: (1).\* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

- (2).UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
- (3).CPU: AMD K6/2 :300MHz CLOCK CHIP : 66MHz

WITH HIPRO POWER

WITH RISER CARD WITH NIC

HDD:JTS 4.3GB

FDD: NEC

CD ROM:LITEON

SDRAM: HYU

MODEM CARD: ZEPHYR

- (4).TEST CONFIGURATION PLEASE SEE 4.2
- (5).TEST EQUIPMENT PLEASE SEE 4.1
- (6) ANY DEPARTURE FROM SPECIFICATION : N/A

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	PAGE : 20 OF 90	

# 5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

HUMIDITY: 78 %RH

1101112			
FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
	43.65	121.6	250
0.82	51.29	117.5	250
1.15	*	90.16	250
2.47 4.83	25.70	*	250
11.6	52.48	51.88	250
23.1	100.0	114.8	250
23.1			
			<u> </u>
			<u> </u>

REMARKS : (1).\* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

- (2). UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS < + / - 2dB
- (3).CPU: AMD K6/2 :300MHz CLOCK CHIP : 66MHz

WITH DELTA POWER

WITH RISER CARD WITH NIC

HDD:SEAGATE 2.1GB FDD:MITSUBISHI CD ROM: PANASONIC

SDRAM: LGS

MODEM CARD: DIAMOND

- (4).TEST CONFIGURATION PLEASE SEE 4.2
- (5).TEST EQUIPMENT PLEASE SEE 4.1
- (6).ANY DEPARTURE FROM SPECIFICATION : N/A

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	Jaylon
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## 5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

HUMIDITY: 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.53	16.98	6.610	250
1.50	*	28.18	250
3.16	9.770	*	250
6.18	18.84	*	250
9.54	*	20.42	250

REMARKS : (1) .\* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

- (2). UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
- (3).CPU: AMD K6/2 :333MHz CLOCK CHIP : 66MHz

WITH HIPRO POWER

WITH RISER CARD WITH NIC

HDD:SEAGATE 4.3GB

FDD:NEC

CD ROM: TRAY LOAD SDRAM: MITSUBISHI MODEM CARD: SHETLAND

- (4).TEST CONFIGURATION PLEASE SEE 4.2
- (5). TEST EQUIPMENT PLEASE SEE 4.1

(6).ANY DEPARTURE	FROM	SPECIFICATION	:	<u>N/A</u>
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	(6).ANY	DEPARTURE	FROM	DrECII ICIII ICI.	• =	$\sim$ $\sim$
CICNED	BY TESTING	2 FNGINEER				Tongken
SIGNED	PI IFPIIN	3 ENOTHEDE	•			
						*

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## 5.7 CONDUCTED POWER LINE TEST RESULT

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 : 28 C

HUMIDITY: 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.47	19.50	136.5	250
0.82	44.16	123.0	250
1.15	50.70	121.6	250
3.86	*	74.99	250
8.22	11.09	*	250

REMARKS : (1).\* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

- (2).UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS <+/-2dB
- (3).CPU: AMD K6/2 :333MHz CLOCK CHIP : 66MHz

WITH DELTA POWER

WITH RISER CARD WITH NIC

HDD:SEAGATE 8GB FDD:MITSUBISHI CD ROM:LITEON

SDRAM: NEC

MODEM CARD: ZEPHYR

- (4). TEST CONFIGURATION PLEASE SEE 4.2
- (5). TEST EQUIPMENT PLEASE SEE 4.1

	(6).ANY	DEPARTURE	FROM	SPECIFICATION	:	N/A
SIGNED	BY TESTING	G ENGINEER	:			Jantus.

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## 6. RADIATED EMISSION TEST

## 6.1 TEST EQUIPMENT

THE FOLLOWING TEST EQUIPMENT WAS USED DURING THE RADIATED EMISSION TEST:

EQUIPMENT / FACILITIES	SPECIFICAT	MANUFACTUR -ER	MODEL#/ SERIAL#	DATE OF CAL. & CAL. CENTER	DUE DATE
RECEIVER	20 MHz TO 1000 MHz	R & S	ESVS 30/ 841977/003	APRIL, 1998 ITRI	1Y
SPECTRUM ANALYZER	100 Hz TO 1500 MHz	НР	8568B/ 3019A05294	OCT , 1997 ETC	1Y
SPECTRUM ANALYZER	9 KHz TO 22 GHz	НР	8593E/ 3322A00670	APRIL,1998 ITRI	1Y
SPECTRUM ANALYZER	100 Hz TO 1000 MHz	IFR	A-7550/ 2684/1248	JULY, 1998 ETC	1Y
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	APRIL,1998 ITRI	1Y
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9003-535	DEC, 1997 SRT	1Y
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9611-1239	DEC, 1997 SRT	1Y
BI-LOG ANTENNA	26 MHz TO 2000 MHz	EMCO	3142/ 96081-1073	DEC, 1997 SRT	1Y
BI-LOG ANTENNA	26 MHz TO 1100 MHz	EMCO	3143/ 9509-1152	DEC, 1997 SRT	1Y
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	НР	8447D/ 2944A08402	APRIL, 1998 ITRI	1Y
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	НР	8447D/ 2944A06412	OCT, 1997 ETC	1Y
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115/ 9012-3619	DEC, 1997 SRT	1Y

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# 6.2 CONFIGURATION OF THE EUT

SAME AS SECTION 5.4 OF THIS REPORT.

#### 6.3 EUT OPERATING CONDITION

SAME AS SECTION 5.3 OF THIS REPORT.

### 6.4 TEST PROCEDURE

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.

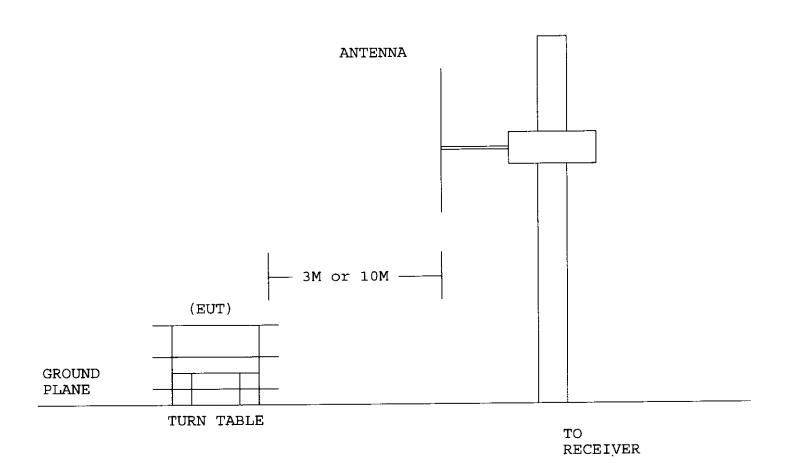
THE FREQUENCY SPECTRUM FROM 30 MHz TO <u>2</u> GHz WAS INVESTIGATED.MEASUREMENTS WERE MADE AT THREE METERS WITH AN ADJUSTABLE DIPOLE ANTENNA. PERIPHERALS, CABLES, EUT ORIENTATION, AND ANTENNA HEIGHT WERE VARIED TO FIND THE MAXIMUM EMISSION FOR EACH FREQUENCY.

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. THE MEASUREMENTS <u>UNDER 1 GHz</u> WITH RESOLUTION BANDWIDTH OF 120 KHz ARE QUASI-PEAK READING MADE AT THREE METERS USING AN ADJUSTABLE DIPOLE ANTENNA. PERIPHERALS, CABLES, EUT ORIENTATION, AND ANTENNA HEIGHT WERE VARIED TO FIND THE MAXTMUM EMISSION FOR EACH FREQUENCY.

THE MEASUREMENTS <u>ABOVE 1 GHZ</u> WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF THREE METERS WITH A HORN ANTENNA.

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## 6.5 RADIATED TEST SETUP

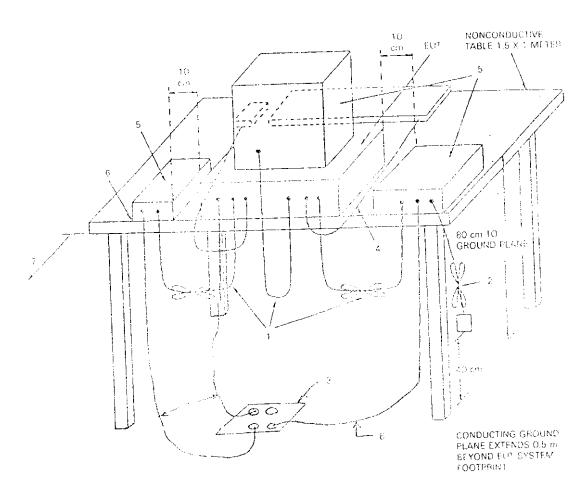


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## 6.5 RADIATED TEST SETUP

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF  $\pi$  kHz TO 40 GHz

ANSI C63.4-1992



## <u>LEGEND:</u>

- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 tc 40 cm long, hanging approximately in the middle between ground plane and table.
- 2. I/O cables that are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 in.
- 3. If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground plane with the receptacle flush with the ground plane.
- 4. Cables of hand-operated devices, such as keyboards, mouses, etc., have to be placed as close as possible to the controller.
- Non-EUT components of EUT system being tested.
- The rear of all componer is of the system under test small by located flush with the rear of the table.
- 7. No vertical conducting wall used.
- 8. Power cords drape to the floor and are routed over to receptable

PAGE : 27 OF 90

### 6.6 RADIATED EMISSION LIMIT

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 (uV/m)
30 - 88	3	100
88 - 216	3	150
216 - 960	3	200
ABOVE 960	3	500

### CLASS B ( OPEN CASE )

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (uV/m)
30 - 88	3	199.5
88 - 216	3	298.5
216 - 960	3	398.1

### CLASS A

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (uV/m)
30 - 88	3	316.3
88 - 216	3	473.2
216 - 960	3	613.0
ABOVE 960	3	1000.0

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.

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### 6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHZ ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS <u>ABOVE 1 GHz</u> WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF <u>3</u> METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ.	CABLE	ANT.	READIN	G(dBuV)	EMISS	LMTS	
(MHz)	LOSS (dB)	FACTOR (dB)	HORIZ	ZIZ VERT HORIZ VERT		(uV)	
185.2	1.70	9.10	24.93	21.29	61.64	40.23	150
335.6	1.20	14.7	15.81	15.51	38.50	37.20	200
523.0	3.00	17.9	14.39	15.41	58.14	65.39	200
824.4	3.60	21.2	12.72	12.22	75.16	70.96	200
971.9	4.1	22.5	*	17.05	*	152.2	500
			<del></del> .				

#### REMARKS

- (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.
- (3). CPU : IBM MX-300 : 225MHz CLOCK CHIP : 75MHz

WITH HIPRO POWER

WITH RISER CARD W/O NIC

HDD:SEAGATE 4.3GB

FDD:MITSUBISHI

CD ROM: LITEON

SDRAM: LGS

MODEM CARD: MIAMOND

- (4). SAMPLE CALCULATION
  - 20 LOG(EMISSION)uV/m = CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m)
- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB
- (7). ANY DEPARTURE FROM SPECIFICATION : N/A

SIGNED BY TESTING ENGINEER	:	Tomlor

PAGE : 29 OF 90

## 6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHZ ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS <u>ABOVE 1 GHz</u> WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF <u>3</u> METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

	CABLE	ANT. FACTOR	READIN	G(dBuV)	EMISS	LMTS	
(MHZ)	(MHz) LOSS (dB)		HORIZ	VERT	HORIZ	VERT	(uV)
43.58	0.80	9.80	*	24.40	*	56.23	100
186.2	1.70	9.90	24.59	21.39	64.49	44.62	150
337.5	1.20	14.7	14.32	14.42	32.43	32.81	200
522.8	3.00	17.9	16.89	15.86	77.54	68.87	200
972.8	4.1	22.5	13.16	15.65	97.27	129.6	500

#### REMARKS

- (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.
- (3). CPU : IBM MX-300 : 225MHz CLOCK CHIP : 75MHz

WITH DOLTA POWER

WITH RISER CARD W/O NIC

HDD:SEAGATE 2.1GB

FDD: NEC

CD ROM: TRAY LOAD

SDRAM HYU

MODEM CARD: SHETLAND

- (4). SAMPLE CALCULATION
  - 20 LOG(EMISSION)uV/m = CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m)
- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB
- (7). ANY DEPARTURE FROM SPECIFICATION: N/A

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### 6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS <u>ABOVE 1 GHz</u> WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF <u>3</u> METERS.

TEMPERATURE: 28 C HUMIDITY: 78 %RH

FREQ. CABLE		ANT.	READIN	G(dBuV)	EMISS	LMTS	
(MHz)	LOSS (dB)	FACTOR (dB)	HORIZ	VERT	HORIZ	VERT	(uV)
66.86	1.00	7.50	23.51	*	39.86	*	100
198.8	1.70	9.90	22.49	23.77	50.64	58.68	150
299.7	2.20	14.5	14.86	19.74	37.84	66.37	200
575.1	3.00	18.8	12.36	*	51.05	*	200
686.7	3.30	20.1	*	13.53	*	70.23	200

### REMARKS :

- (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.
- (3). CPU: IBM MX-300: 233MHz CLOCK CHIP: 66MHz

WITH HIPRO POWER

WITH RISER CARD W/O NIC

HDD:SEAGATE 8GB

FDD: NEC

CD ROM: PANASONIC SDRAM: MITSUBISHI

MODEM CARD: DIAMOND

- (4). SAMPLE CALCULATION
  - 20 LOG(EMISSION)uV/m = CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m)
- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB
- (7). ANY DEPARTURE FROM SPECIFICATION: N/A

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PAGE : 31 OF 90

### 6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT \_\_3 \_\_ METERS.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF \_3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ.	CABLE	ANT.	READIN	G(dBuV)	EMISSI	LMTS (uV)	
(MHZ)	LOSS (dB)	FACTOR (dB)	HORIZ	VERT	HORIZ	ORIZ VERT	
165.8	1.60	9.30	21.25	*	40.50	*	150
233.7	1.80	10.7	21.18	16.84	48.31	29.31	200
367.6	2.20	14.9	*	11.97	*	28.41	200
466.5	2.60	17.0	13.48	*	45.08	*	200
715.8	3.40	20.5	11.97	15.23	62.16	90.47	200

## REMARKS :

- (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.
- (3). CPU : IBM MX-300 : 233MHz CLOCK CHIP : 66MHz

WITH DELTA POWER

WITH RISER CARD W/O NIC

HDD: FUJITSU 2.1GB

FDD:MITSUBISHI

CD ROM: TRAY LOAD

SDRAM: NEC

MODEM CARD: SHETLAND

- (4). SAMPLE CALCULATION
  - 20 LOG(EMISSION)uV/m = CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m)
- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB
- (7). ANY DEPARTURE FROM SPECIFICATION : N/A

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PAGE : 32 OF 90

### 6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHZ ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ. (MHz)	CABLE	ANT.	READIN	G(dBuV)	EMISS	LMTS	
(MHZ)	LOSS (dB)	FACTOR (dB)	HORIZ	VERT	HORIZ	VERT	(uV)
98.87	1.20	7.40	17.34	*	19.82	*	150
198.8	1.70	9.90	20.39	18.27	39.76	31.15	150
238.6	1.80	10.7	23.02	22.64	59.70	57.15	200
601.3	3.00	19.0	15.71	18.62	76.82	107.4	200
857.4	3.50	21.5	11.43	*	66.30	*	200
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#### REMARKS :

- (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.
- (3). CPU: AMD K6/2: 300MHz CLOCK CHIP: 66MHz

WITH HIPRO POWER

WITH RISER CARD WITH NIC

HDD:JTS 4.3GB

FDD: NEC

CD ROM: LITEON

SDRAM: HYU

MODEM CARD: ZEPHYR

- (4). SAMPLE CALCULATION
  - 20 LOG(EMISSION)uV/m = CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m)
- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB
- (7). ANY DEPARTURE FROM SPECIFICATION: N/A

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PAGE : 33 OF 90

### 6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS <u>ABOVE 1 GHZ</u> WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ.	CABLE	ANT.	READIN	G(dBuV)	EMISS	LMTS	
(MHZ)	LOSS (dB)	FACTOR (dB)	HORIZ	VERT	HORIZ	VERT	(uV)
127.0	1.40	8.10	25.66	24.15	57.28	48.14	150
333.6	1.20	14.7	14.59	15.29	33.46	36.27	200
601.3	3.00	19.0	18.71	18.29	108.5	103.4	200
699.3	3.40	20.2	15.19	14.69	87.00	82.13	200
904.0	3.90	22.6	12.08	14.00	84.92	105.9	200

### REMARKS :

- (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.
- (3). CPU : AMD K6/2 : 300MHz CLOCK CHIP : 66MHz

WITH DELTA POWER

WITH RISER CARD WITH NIC

HDD:SEAGATE 2.1GB

FDD:MITSUBISHI

CD ROM: PANASONIC

SDRAM: LGS

MODEM CARD: DIAMOND

- (4). SAMPLE CALCULATION
  - 20 LOG(EMISSION)uV/m = CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m)
- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB
- (7). ANY DEPARTURE FROM SPECIFICATION : N/A

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# 6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS ALL READINGS UNDER 1 GHz INVESTIGATED. QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT \_\_3 \_\_ METERS.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

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FREQ.	CABLE	ANT.	READING	G(dBuV)	EMISSI	LMTS (uV)	
(MHz)	LOSS (dB)	FACTOR (dB)	HORIZ	VERT	HORIZ	VERT	
		9.90	20.99	20.27	42.61	39.22	150
198.8	1.70	<del> </del>	19.58	15.54	47.75	29.99	200
239.5	2.00	12.0	*	11.99	*	33.08	200
428.7	2.30	16.1	<del></del>	19.98	95.72	145.9	200
668.3	3.30	20.1	16.22		73.37	*	200
911.7	3.90	22.6	10.81	*	13.3/		
	<u> </u>			<u> </u>			<del> </del>
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# REMARKS :

- (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER

CORD CONNECTED TO THE PERSONAL COMPUTER.

(3). CPU : AMD K6/2 : 333MHz CLOCK CHIP : 66MHz

WITH HIPRO POWER

WITH RISER CARD WITH NIC

HDD:SEAGATE 4.3GB

FDD: NEC

CD ROM: TRAY LOAD SDRAM: MITSUBISHI MODEM CARD: SHETLAND

(4). SAMPLE CALCULATION

20 LOG(EMISSION)uV/m = CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m)

- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB
- (7). ANY DEPARTURE FROM SPECIFICATION : N/A

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PAGE : 35 OF 90

# 6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 C HUMIDITY : 78 %RH

FREQ.	CABLE	ANT.	READING	G(dBuV)	EMISSI	LMTS (uV)	
(MHz)	LOSS (dB)	FACTOR (dB)	HORIZ	VERT	HORIZ	VERT	` .
		9.80	20.44	26.34	35.65	70.31	100
42.61	0.80	9.80	21.07	16.97	43.00	26.82	150
199.8	1.70	10.7	22.02	17.34	54.45	31.77	200
238.6	2.00	16.1	10.76	*	28.71	*	200
431.6	2.30	20.1	17.12	18.39	106.2	122.9	200
668.3	3.30	20.1	17.12				
	<del> </del>	<del> </del>					
			<u> </u>	<u> </u>			

## REMARKS :

- (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.
- (2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER

CORD CONNECTED TO THE PERSONAL COMPUTER.

(3). CPU : AMD K6/2 : 333MHz CLOCK CHIP : 66MHz

WITH DELTA POWER

WITH RISER CARD WITH NIC

HDD:SEAGATE 8GB FDD:MITSUBISHI CD ROM:LITEON

SDRAM: NEC

MODEM CARD: ZEPHYR

- (4). SAMPLE CALCULATION 20 LOG(EMISSION)uV/m = CABLE LOSS(dB)+FACTOR(dB)+READING (dBuV/m)
- (5). TEST EQUIPMENT PLEASE SEE 5.1
- (6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS <+/-4dB
- (7). ANY DEPARTURE FROM SPECIFICATION : N/A

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PAGE : 36 OF 90