

TOSHIBA TEC CORPORATION

570,OHITO,OHITO-CHO,TAGATA-GUN,SHIZUOKA-KEN,410-2392,JAPAN

PHONE:0558-76-9607 FAX 0558-76-9844

REPORT OF MEASUREMENT ON DIGITAL DEVICE

Data : December 7,2005

Report Number : OF-05016

- 1.Applicant : TOSHIBA TEC CORPORATION
Document Processing & Telecommunication Systems
Company
6-78 Minami-cho,Mishima-shi,Shizuoka-ken
411-8520,Japan
- 2.Manufacture : TOSHIBA TEC CORPORATION
Document Processing & Telecommunication Systems
Company
6-78 Minami-cho,Mishima-shi,Shizuoka-ken
411-8520,Japan
- 3.Product Tested : Dot Printer
- 4.Data of Application received : December 7,2005
- 5.Data of Measurement : November 30,2005 (Completed)
- 6.Regulations Applied : FCC Part 15 Subpart B
- 7.Measurement Procedure : ANSI C63.4-2003
- 8.Place of Measurement : TOSHIBA TEC CORPORATION FUNABARA SITE
696-3,Kami-Funabara,Amagi-Yugashima-cho
Tagata-gun,Shizuoka-ken,410-3621,Japan
Registration Number :157527



Masaaki Masuda, Group Manager

Power Supply Group

Key Components Mounting Dept.

Document Processing & Telecommunication Systems

Company

I HEREBY CERTIFY THAT : The data shown in this report were made in coordinate with the procedures given in ANSI C63.4-2003 and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note : These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulation.

GENERAL EQUIPMENT INFORMATION :

DESCRIPTION OF EQUIPMENT :

- | | |
|-----------------|--------------------------------------|
| 1) Category | : Class B |
| 2) Trade Name | : TOSHIBATEC |
| 3) Model No. | : 5040 |
| 4) Serial No | : Technological confirmation machine |
| 5) FCC-ID | : QRTS-0501 |
| 6) Power Rating | : 120V 60Hz |
| 7) Type of EUT | : Desktop |

TEST CONDITION OF EQUIPMENT UNDER TEST(EUT)

- | | |
|----------------------------------|---|
| 1) Test Configuration of the EUT | : Refer to Page Nos. 10 and 11. |
| 2) Operating Mode | : Printing With the Program Prepared by the applicant |
| 3) Power Supply | : 120V 60Hz |
| 4) EUT Grounding | : Grounded at the plug end of line cord. |
| 5) EUT Warm-up Time | : 5 minutes |
| 6) Temp/Humi. | : Temp. 19 °C Humi. 21 % |

SUMMARY OF THE TEST RESULTS

- | | |
|-------------------------------------|----------|
| 1).Radiated Radio Noise Measurement | : Passed |
| 2).Line Conducted RF Voltage | : Passed |

Measurement

Tested by :



Tetsuya Watanabe

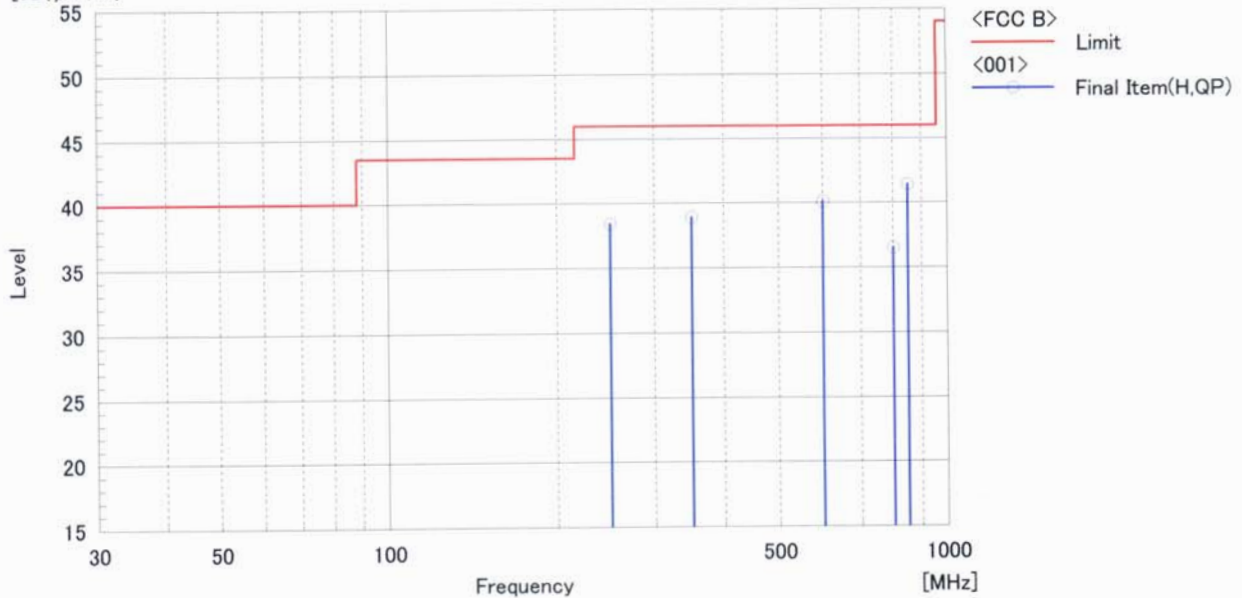
TOSHIBATEC Corp
FUNABARA EMI SITE

<<OF-05016>>

2005-11-30
001.dat

Product Test : Dot Printer
Model No. : 5040
Serial No. : -----
AC : 120V
Temp/Humi. : 19C 21%

Limit : FCC Part.15 Class B 3m
Operating : Printing
Comment1 :
Comment2 :
Comment3 :

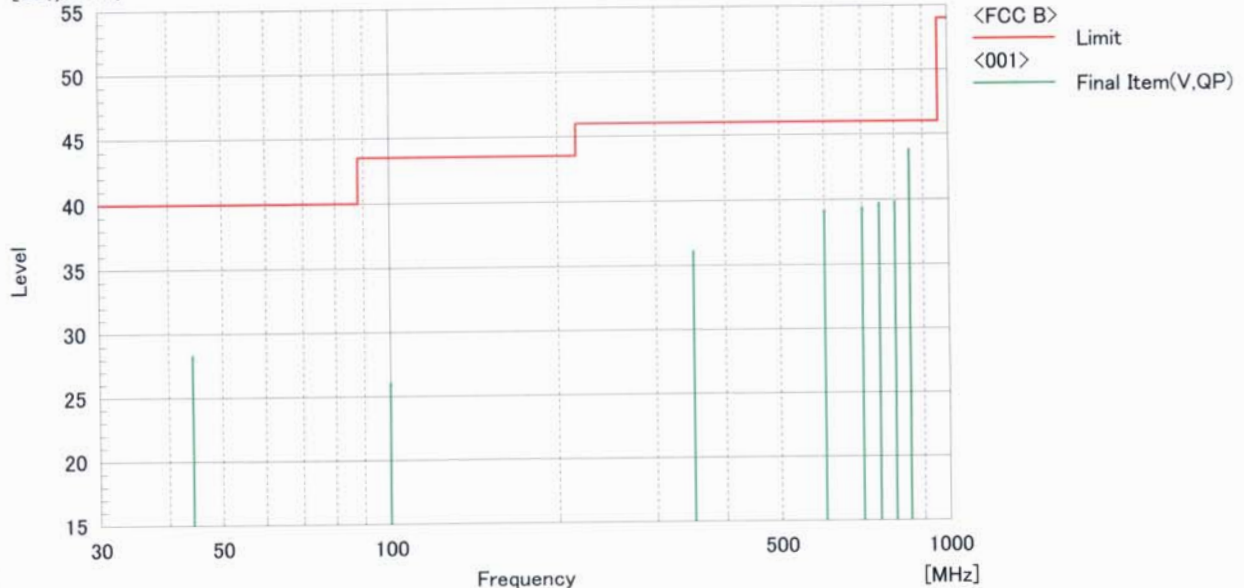
[dB(μ V/m)]TOSHIBATEC Corp
FUNABARA EMI SITE

<<OF-05016>>

2005-11-30
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[dB(μ V/m)]

***** TOSHIBATEC Corp *****
 <<OF-05016>> 2005-11-30
 001.dat

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 AC : 120V
 Temp/Humi. : 19C 21%
 Operating : Printing
 Comment1 :
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 Final Result

--- Horizontal Polarization (QP)---

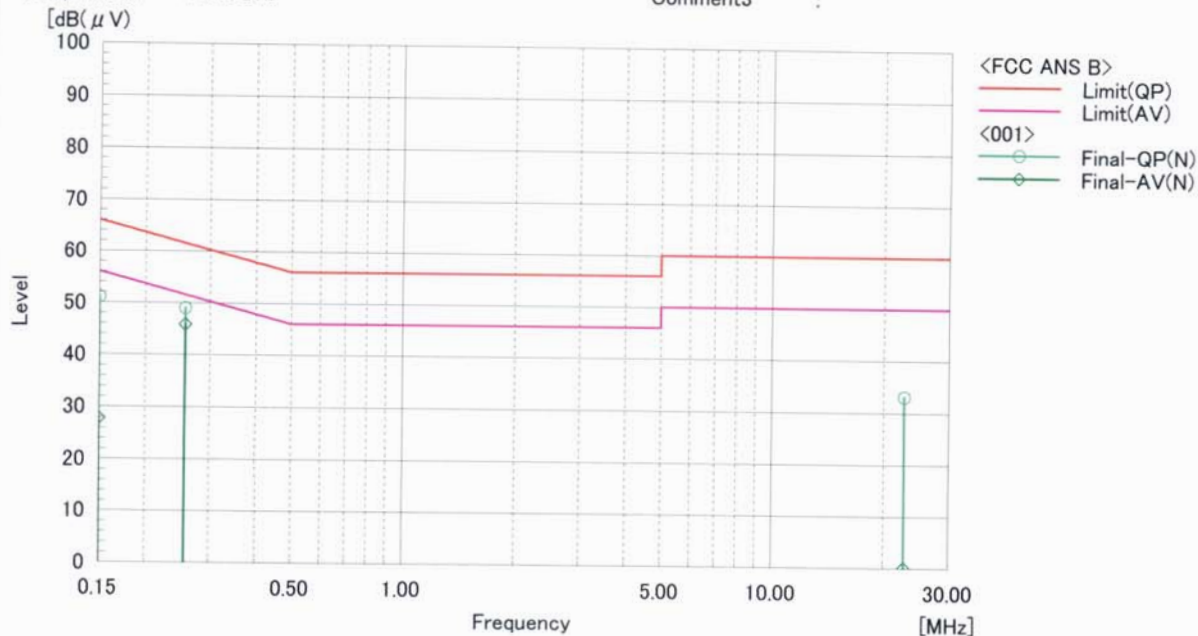
No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Remark
1	250.220	50.4	-12.0	38.4	46.0	7.6	
2	350.392	54.2	-15.3	38.9	46.0	7.1	
3	600.622	49.5	-9.4	40.1	46.0	5.9	
4	800.745	42.9	-6.4	36.5	46.0	9.5	
5	850.740	46.3	-4.9	41.4	46.0	4.6	

--- Vertical Polarization (QP)---

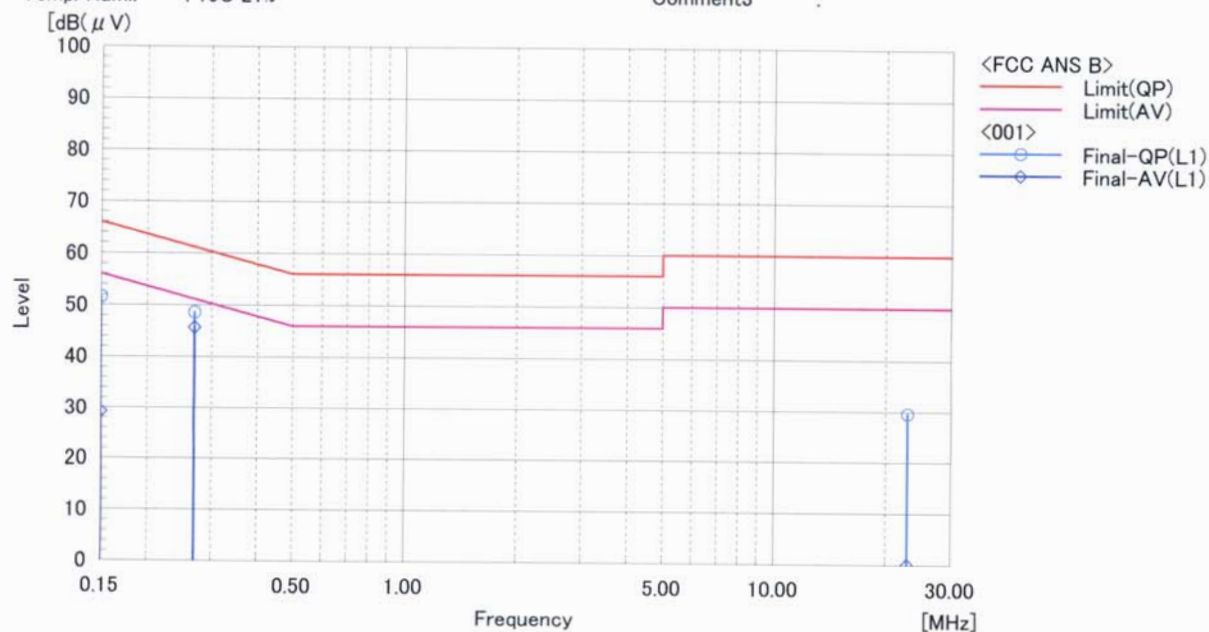
No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Remark
1	44.190	47.2	-18.9	28.3	40.0	11.7	
2	100.098	47.2	-21.2	26.0	43.5	17.5	
3	350.378	51.4	-15.3	36.1	46.0	9.9	
4	600.613	48.5	-9.3	39.2	46.0	6.8	
5	700.700	46.4	-7.0	39.4	46.0	6.6	
6	750.735	46.2	-6.5	39.7	46.0	6.3	
7	800.723	45.6	-5.8	39.8	46.0	6.2	
8	850.717	48.3	-4.5	43.8	46.0	2.2	

TOSHIBATEC Corp
FUNABARA EMI SITE

<<OF-0516>>

30 November,2005 14:23
001.datProduct Test : Dot Printer
Model No. : 5040
Serial No. : -----
AC : 120V
Temp/Humi. : 19C 21%Limit : ANSI C 63.4/04 (Digital) B
Operation : Printing
Comment1 :
Comment2 :
Comment3 :TOSHIBATEC Corp
FUNABARA EMI SITE

<<OF-0516>>

30 November,2005 14:23
001.datProduct Test : Dot Printer
Model No. : 5040
Serial No. : -----
AC : 120V
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Comment1 :
Comment2 :
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***** TOSHIBATEC Corp *****
 <<OF-0516>>

30 November, 2005 14:23
 001.dat

Limit : ANSI C 63.4/04 (Digital) B
 Product Test : Dot Printer
 Model No. : 5040
 Serial No. :
 AC : 120V
 Temp/Humi. : 19C 21%
 Operation : Printing
 Comment1 :
 Comment2 :
 Comment3 :

 Final Result

--- N Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.150	41.1	17.8	10.0	51.1	27.8	66.0	56.0	14.9	28.2
2	0.2574	38.9	35.7	10.1	49.0	45.8	61.5	51.5	12.5	5.7
3	22.7457	21.8		11.3	33.1		60.0	50.0	26.9	

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.150	41.4	19.0	10.2	51.6	29.2	66.0	56.0	14.4	26.8
2	0.2693	38.3	35.4	10.3	48.6	45.7	61.1	51.1	12.5	5.4
3	22.8934	18.2	0.0	11.4	29.6	0.0	60.0	50.0	30.4	50.0

TEST CONDITIONS AND CONFIGURATION OF ITE

1.The information technology equipment(ITE) consists of EUT

Description	Manufacturer	Model No.	Serial. No	FCC ID
Dot Printer	TOSHIBATEC	5040	*A:	QRTS-0501

*A: Technological confirmation machine

2.The measurement was carried out with the following equipment connected:

Description	Manufacturer	Model No.	Serial. No	FCC ID
Personal Computer	EpsonDirect	AT951	220072740	-----
TFT Display	EIZO NANA0	FA-1562	96711079-JA-D	-----
Keyboard	ChiconyElectronics	KB-2971	5B15201301B	-----
Mouse	Logitech	M-S48a	HCA05201782	JNZ201213

*A: Technological confirmation machine

3.Type of interface cable

Description	Shielded Cable	Ferrite core	Length(m)
Dot Printer / Parallel	Yes	No	2.0m
Personal Computer			
Dot Printer / Com	Yes	No	1.6m
Personal Computer			
Dot Printer / USB	Yes	No	2.0m
Personal Computer			
Personal Computer /	Yes	Yes 2s	1.5m
TFT Display			
Personal Computer /	Yes	Yes	1.35m
Keyboard			
Personal Computer /	No	Yes	1.8m
Mouse			
Dot Printer /	No	No	1.8m
AC120V			
Personal Computer /	No	No	1.8m
AC100V			
TFT Display /	No	No	1.8m
AC100V			

4. Configuration of the equipment under test

Refer to Page No. 10 to 11

The System was configured to maximize emission. The test reflects the worst case with the System active Operating.

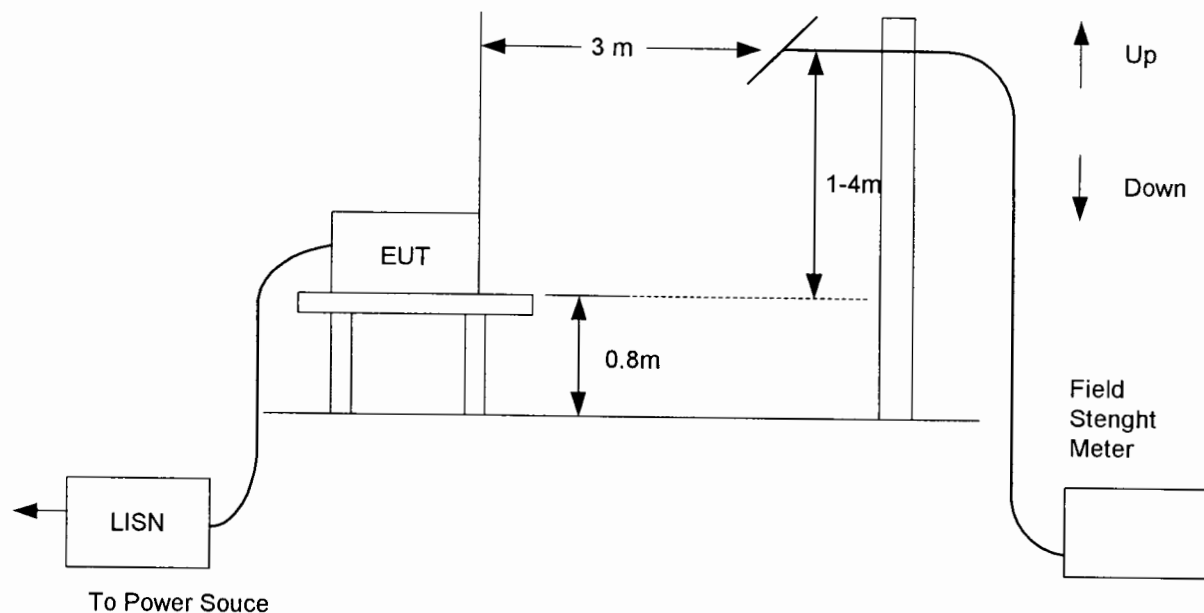
5. Arrangement of the Interface Cable(s)

Refer to sheet No 10 To 11

These interface cables were positioned so as to produce the highest maximum at every frequency between 30 MHz and 1000MHz, being within the manner assumed to be a typical operating condition.

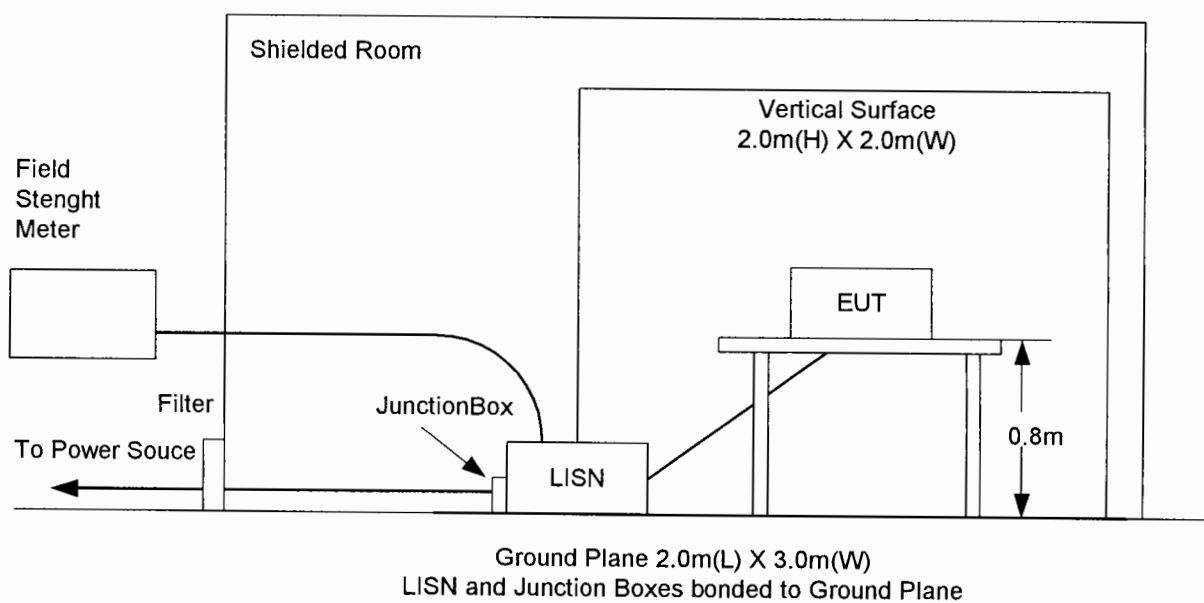
RADIATED RADIO NOISE MEASUREMENT

TEST SET-UP SKETCH

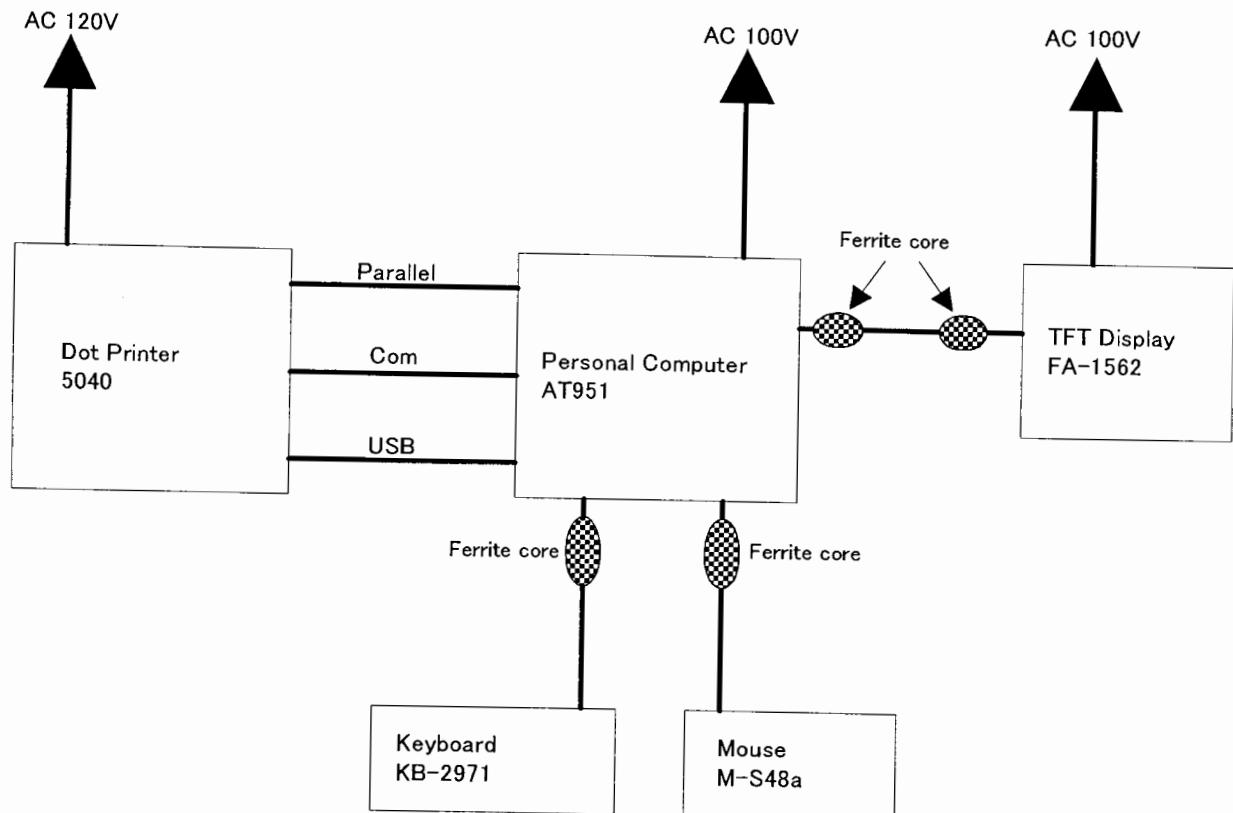


LINE CONDUCTED RF VOLTAGE MEASUREMENT

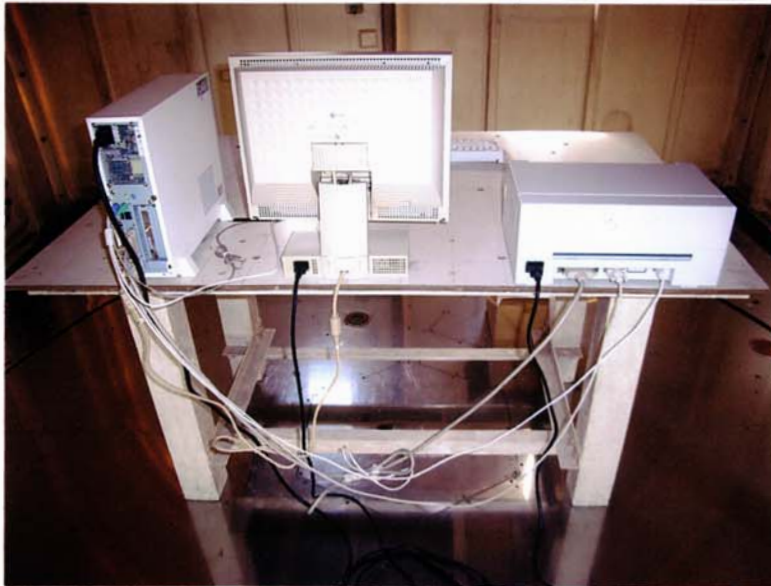
TEST SET-UP SKETCH



TEST CONDITIONS AND CONFIGURATION OF EUT



TEST CONDITIONS AND CONFIGURATION OF EUT



TOSHIBA TEC CORPORATION

TEST INSTRUMENT:

Instrument Manufacturer	Model No. [Serial No.]	Specification	List Calibration [Cal. Intarval]
Test Receiver Rohde&Schwarz	ESCS30	0.009-2750MHz CISPR Q.P and Ave.	[1 year]
Test Receiver Rohde&Schwarz	ESCI	0.009-3000MHz CISPR Q.P	[1 year]
Spectrum Analyzer Advantest	R3132	0.01-3000MHz	[1 year]
Line ImpedanceStabilization Network (LISN) Rohde&Schwarz	ESH2-Z5 [892107/016]	50 Ω // 50 μ H	[1 year]
Dipole Antenna Schwarzbeck	VHA9103	30-300MHz	[1 year]
Dipole Antenna Schwarzbeck	UHA9105	300-1000MHz	[1 year]
Broabband Antenna Schwarzbeck	BBA9106	30-300MHz	[1 year]
Broabband Antenna Schwarzbeck	UHALP9108A1	250-1000MHz	[1 year]