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 : October 15,2007
Report Number : OF-07009

1.Applicant	: TOSHIBA TEC CORPORATION Special Equipment & Printer Business Group 6-78 Minami-cho,Mishima-shi,Shizuoka-ken 411-8520,Japan
2.Manufacture	: TOSHIBA TEC SINGAPORE ELECTRONICS PTE LTD 2 ANG MO KIO STREET 62, SINGAPORE 569138
3.Produtc Tested	: Dot Printer
4.Data of Application received	: October 15,2007
5.Data of Measurement	: October 2,2007 (Completed) October 4,2007 (Completed)
6.Regulations Applied	: FCC Part 15 ,Subpart B
7.Mesurement 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

Shoji Takemure Chief Specialist
Products Safety Group
Quality Planning Department, Quality Assurance Division
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 found 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	: Tally Genicom
3) Model No.	: 2540/9
4) Serial No	: DVT
5) FCC-ID	: QRTS-0702
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. 15 to 20 .		
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.	: 10/2	Temp. 18 ℃	Humi. 60 %
	: 10/4	Temp. 23 ℃	Humi. 39 %

SUMMARY OF THE TEST RESULTS

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

Measurement

Tested by : Tetsuya Watanabe

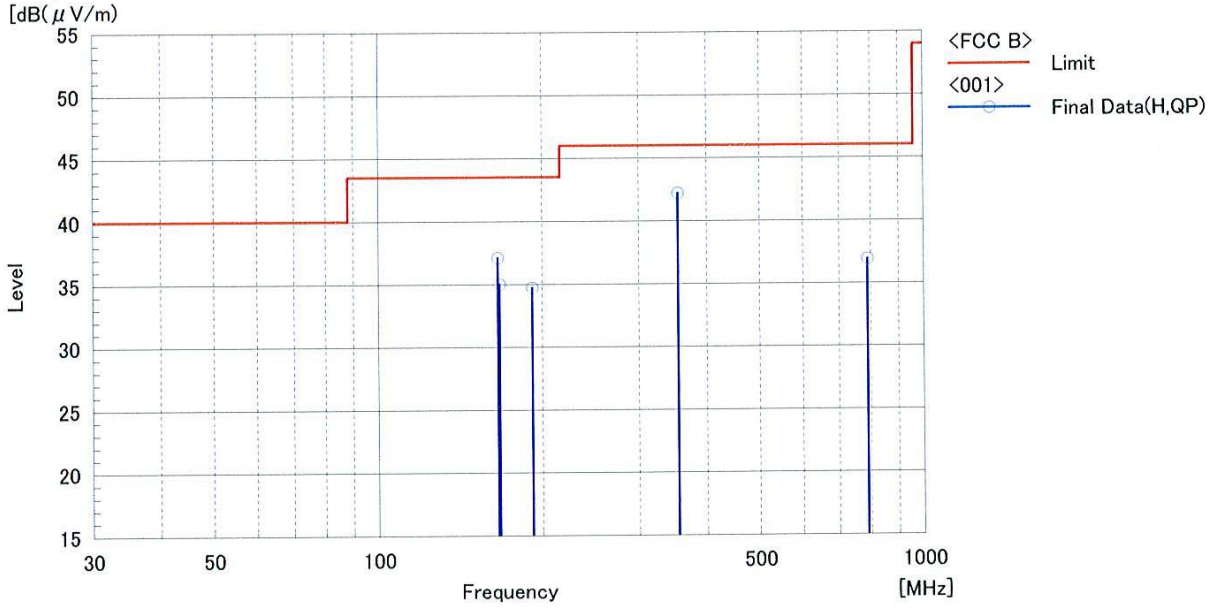
Tetsuya Watanabe

TOSHIBATEC Corp
FUNABARA SITE

<<OF-07009>>

2 October,2007 10:03
001.dat

Product	: Dot Printer	Limit	: FCC Part.15 Class B 3m
Model No	: 2540/9	I / F	: Serial
Serial No	: DVT	Operation	: Printing
AC Power	: 120V 60Hz	Comment	:
Temp / Humi	: 18C 60%	Comment	:



TOSHIBATEC Corp
FUNABARA SITE

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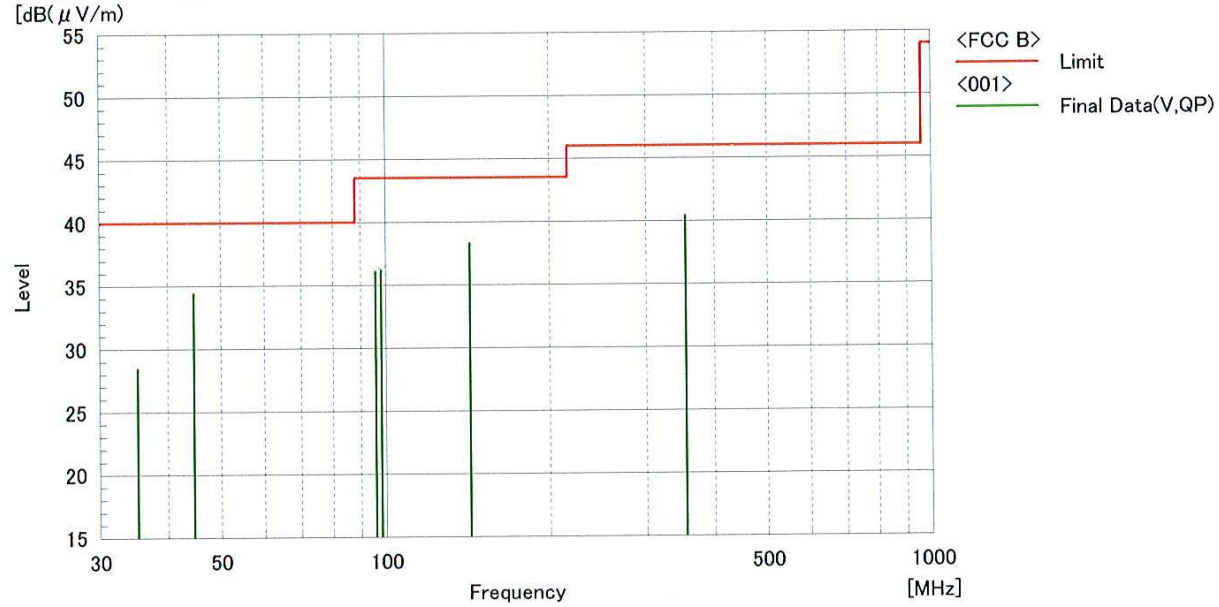
2 October,2007 10:03
001.dat

Product	: Dot Printer	Limit	: FCC Part.15 Class B 3m
Model No	: 2540/9	I / F	: Serial
Serial No	: DVT	Operation	: Printing
AC Power	: 120V 60Hz	Comment	:
Temp / Humi	: 18C 60%	Comment	:



********** TOSHIBATEC Corp **********
<<OF-07009>> 2 October, 2007 10:03
001.dat

Limit : FCC Part.15 Class B 3m
Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 18C 60%
I / F : Serial
Operation : Printing
Comment :
Comment :

****

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	166.130	49.7	-12.6	37.1	43.5	6.4	
2	167.370	47.5	-12.5	35.0	43.5	8.5	
3	191.990	46.4	-11.7	34.7	43.5	8.8	
4	354.420	55.8	-13.6	42.2	46.0	3.8	
5	789.760	42.0	-5.1	36.9	46.0	9.1	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	35.230	43.4	-15.0	28.4	40.0	11.6	
2	44.630	51.3	-16.9	34.4	40.0	5.6	
3	95.960	55.9	-19.8	36.1	43.5	7.4	
4	98.170	55.4	-19.2	36.2	43.5	7.3	
5	142.950	51.7	-13.4	38.3	43.5	5.2	
6	354.420	54.1	-13.7	40.4	46.0	5.6	

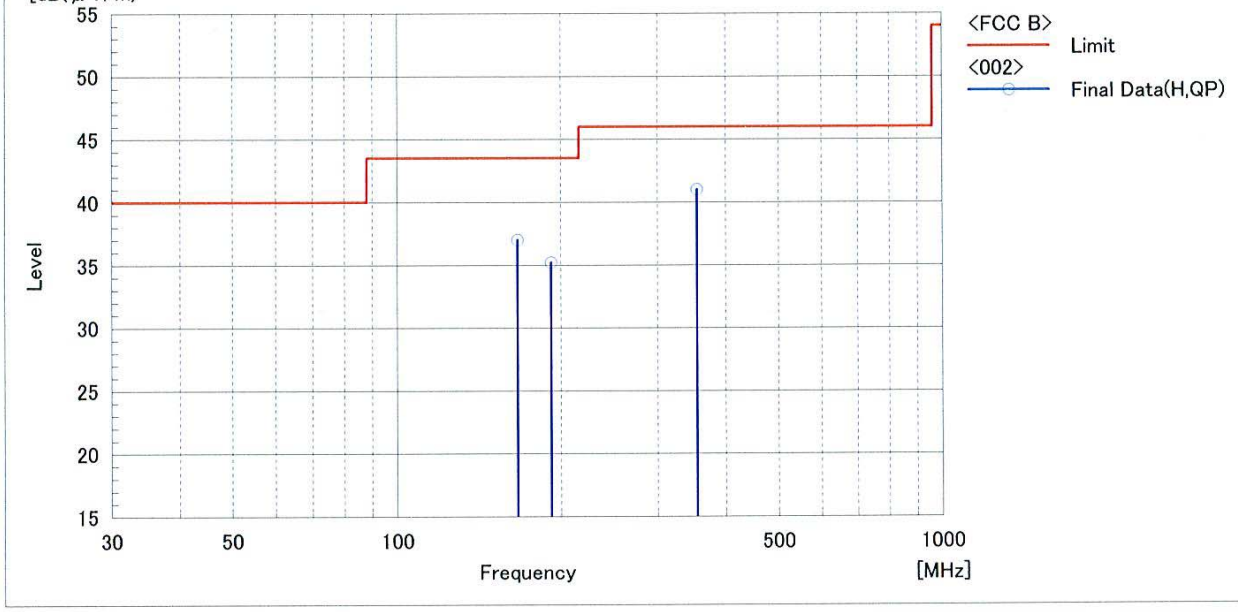
TOSHIBATEC Corp
FUNABARA SITE

<<OF-07009>>

2 October,2007 10:49
002.dat

Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 18C 60%

Limit : FCC Part.15 Class B 3m
I / F : Parallel
Operation : Printing
Comment :
Comment :



TOSHIBATEC Corp
FUNABARA SITE

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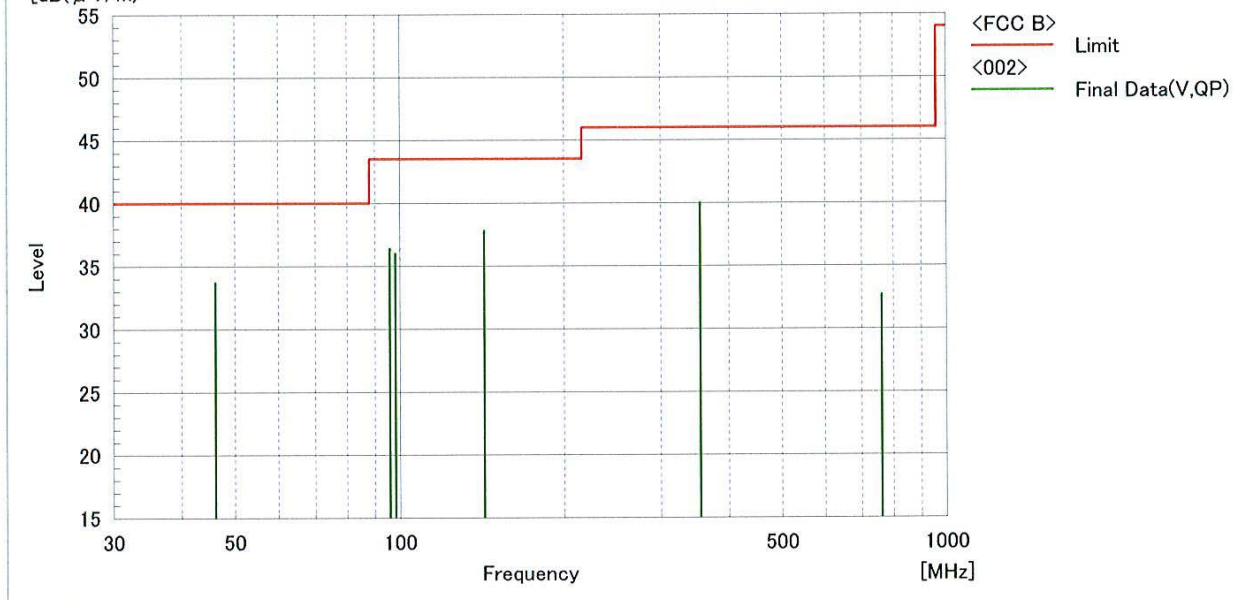
2 October,2007 10:49
002.dat

Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 18C 60%

Limit : FCC Part.15 Class B 3m
I / F : Parallel
Operation : Printing
Comment :
Comment :



********** TOSHIBATEC Corp **********
<<QF-07009>>
2 October, 2007 10:49
002.dat

Limit : FCC Part.15 Class B 3m
Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 18C 60%
I / F : Parallel
Operation : Printing
Comment :
Comment :

****

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	166.750	49.6	-12.6	37.0	43.5	6.5	
2	191.990	46.9	-11.7	35.2	43.5	8.3	
3	354.430	54.6	-13.6	41.0	46.0	5.0	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	46.100	51.0	-17.3	33.7	40.0	6.3	
2	95.960	56.2	-19.8	36.4	43.5	7.1	
3	98.220	55.2	-19.2	36.0	43.5	7.5	
4	142.970	51.2	-13.4	37.8	43.5	5.7	
5	354.430	53.7	-13.7	40.0	46.0	6.0	
6	762.150	37.8	-5.1	32.7	46.0	13.3	

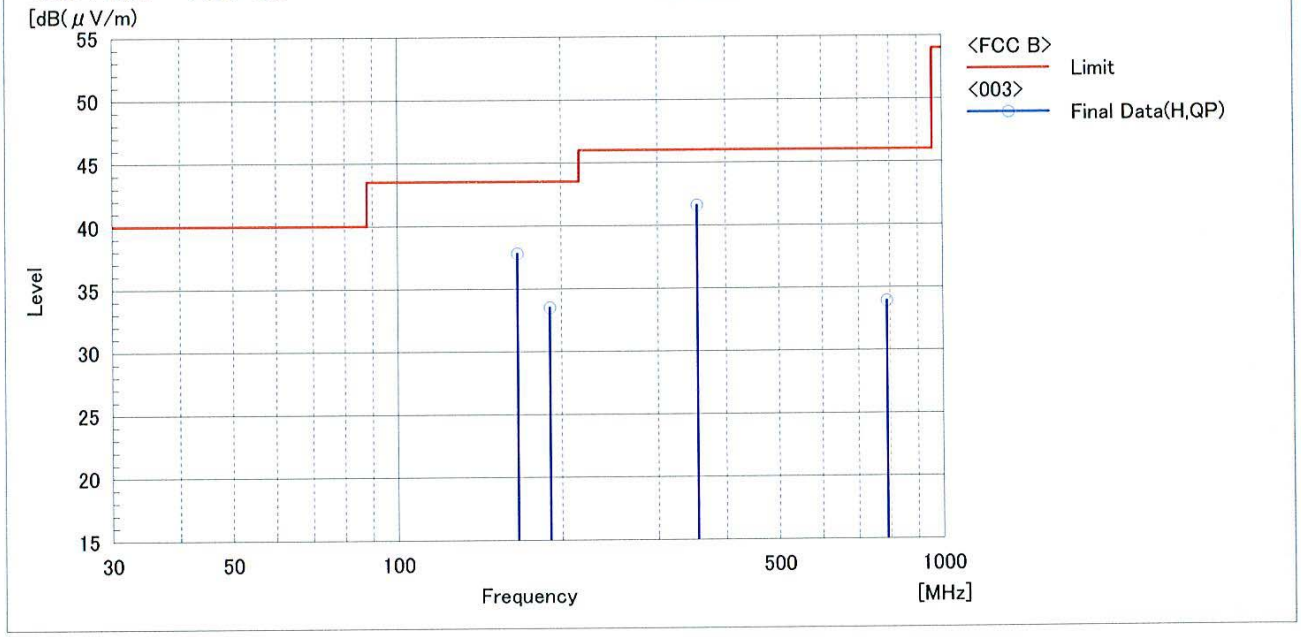
TOSHIBATEC Corp
FUNABARA SITE

<<OF-07009>>

2 October,2007 11:33
003.dat

Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 18C 60%

Limit : FCC Part.15 Class B 3m
I / F : USB
Operation : Printing
Comment :
Comment :



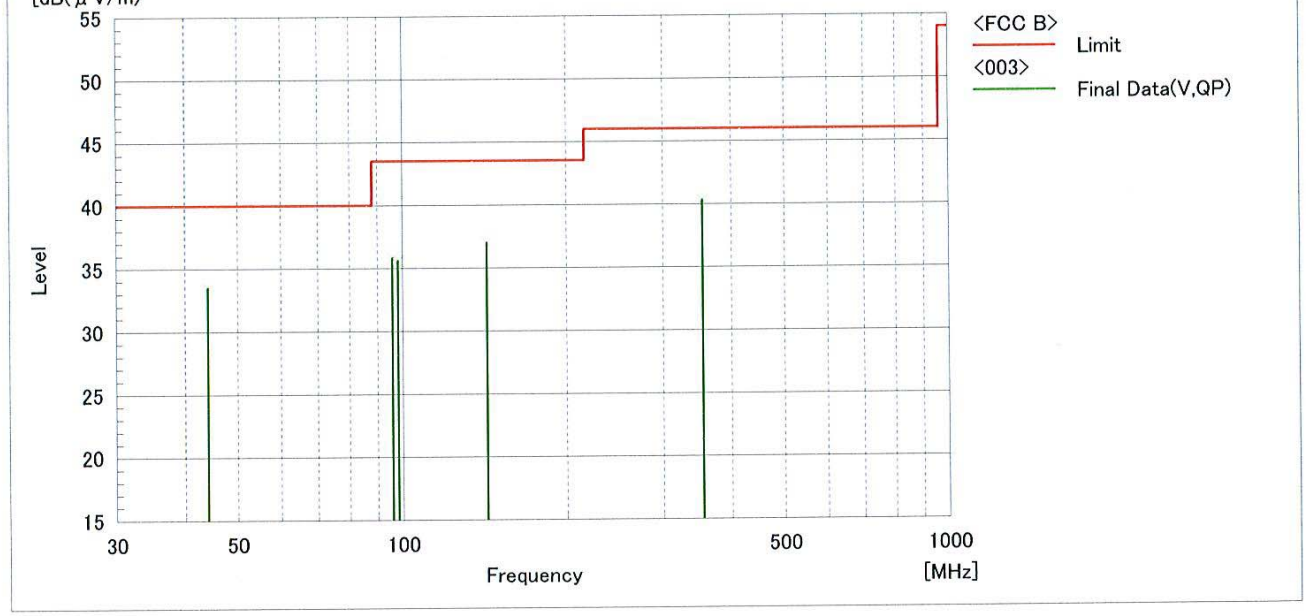
TOSHIBATEC Corp
FUNABARA SITE

<<OF-07009>>

2 October,2007 11:33
003.dat

Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 18C 60%

Limit : FCC Part.15 Class B 3m
I / F : USB
Operation : Printing
Comment :
Comment :



********** TOSHIBATEC Corp **********
<<QF-07009>>
2 October, 2007 11:33
003.dat

Limit : FCC Part.15 Class B 3m
Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 18C 60%
I / F : USB
Operation : Printing
Comment :
Comment :

****

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	166.340	50.4	-12.6	37.8	43.5	5.7	
2	190.620	45.2	-11.7	33.5	43.5	10.0	
3	354.410	55.2	-13.6	41.6	46.0	4.4	
4	789.830	39.0	-5.1	33.9	46.0	12.1	

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	44.160	50.2	-16.7	33.5	40.0	6.5	
2	95.960	55.6	-19.8	35.8	43.5	7.7	
3	98.210	54.8	-19.2	35.6	43.5	7.9	
4	142.960	50.4	-13.4	37.0	43.5	6.5	
5	354.430	54.0	-13.7	40.3	46.0	5.7	

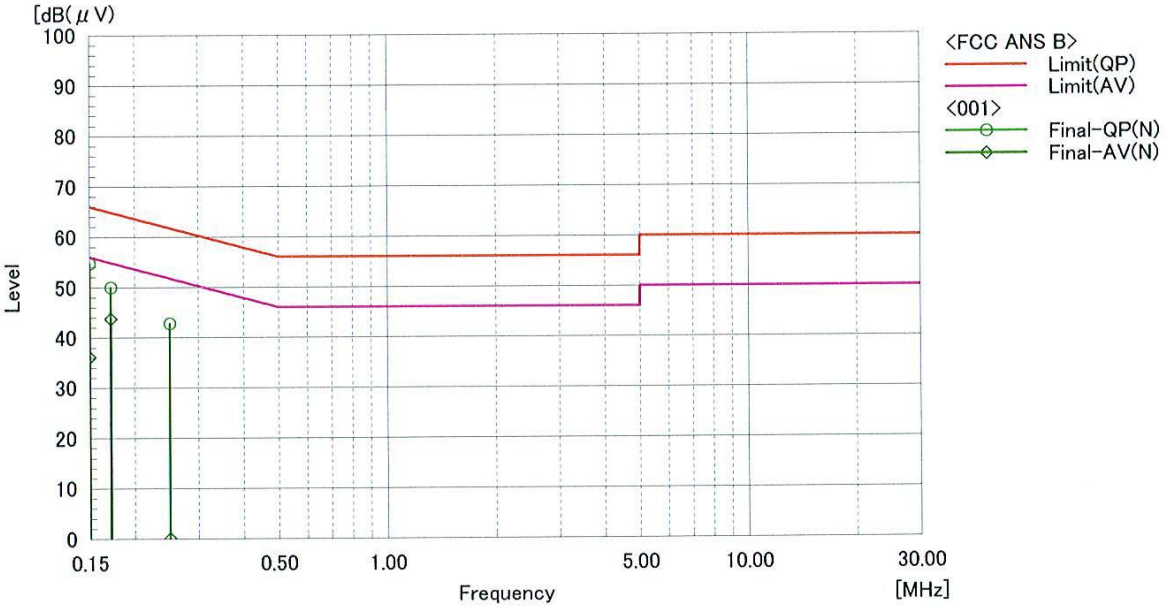
TOSHIBATEC Corp
FUNABARA SITE

<<OF-07009>>

4 October,2007 14:17
001.dat

Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 23C 39%

Limit : ANSI C 63.4/04 (Digital) B
I / F : Serial
Operation : Printing
Comment1 :
Comment2 :



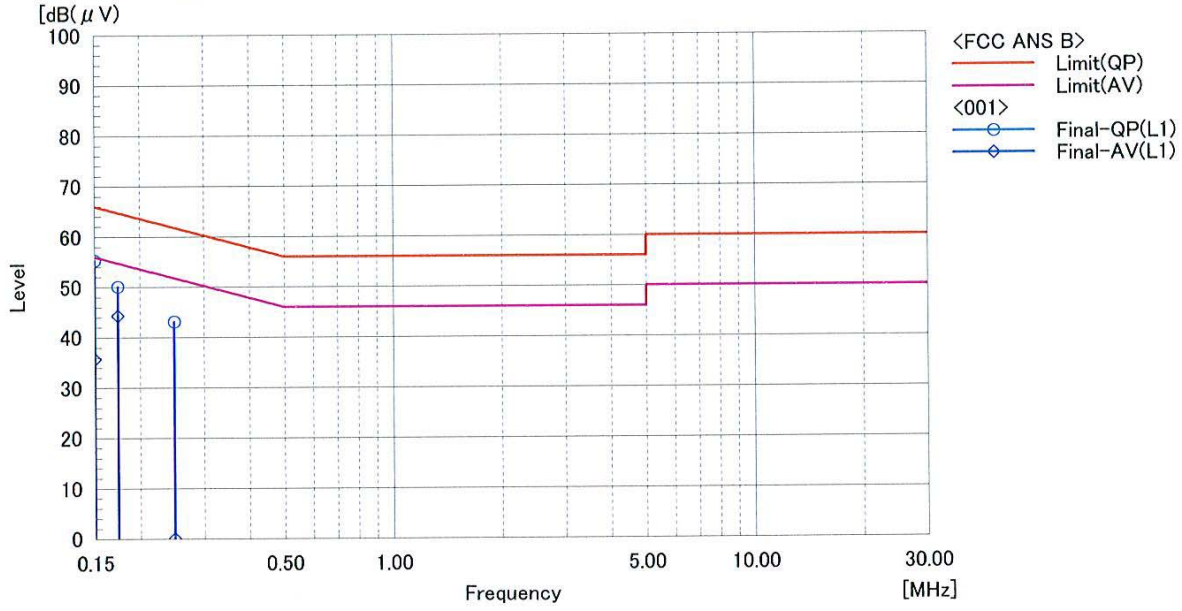
TOSHIBATEC Corp
FUNABARA SITE

<<OF-07009>>

4 October,2007 14:17
001.dat

Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 23C 39%

Limit : ANSI C 63.4/04 (Digital) B
I / F : Serial
Operation : Printing
Comment1 :
Comment2 :



********** TOSHIBATEC Corp **********
<<OF-07009>>

4 October, 2007 14:17
001.dat

Limit : ANSI C 63.4/04 (Digital) B
Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 23C 39%
I / F : Serial
Operation : Printing
Comment1 :
Comment2 :

****

Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	[dB
1	0.150	45.0	26.4	9.7	54.7	36.1	66.0	56.0	11.3	19.9	
2	0.172	40.2	33.9	9.8	50.0	43.7	64.9	54.9	14.9	11.2	
3	0.2499	33.0		9.8	42.8		61.8	51.8	19.0		

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	[dB
1	0.150	45.4	25.8	9.9	55.3	35.7	66.0	56.0	10.7	20.3	
2	0.1738	40.1	34.3	10.0	50.1	44.3	64.8	54.8	14.7	10.5	
3	0.2488	33.1		10.0	43.1		61.8	51.8	18.7		

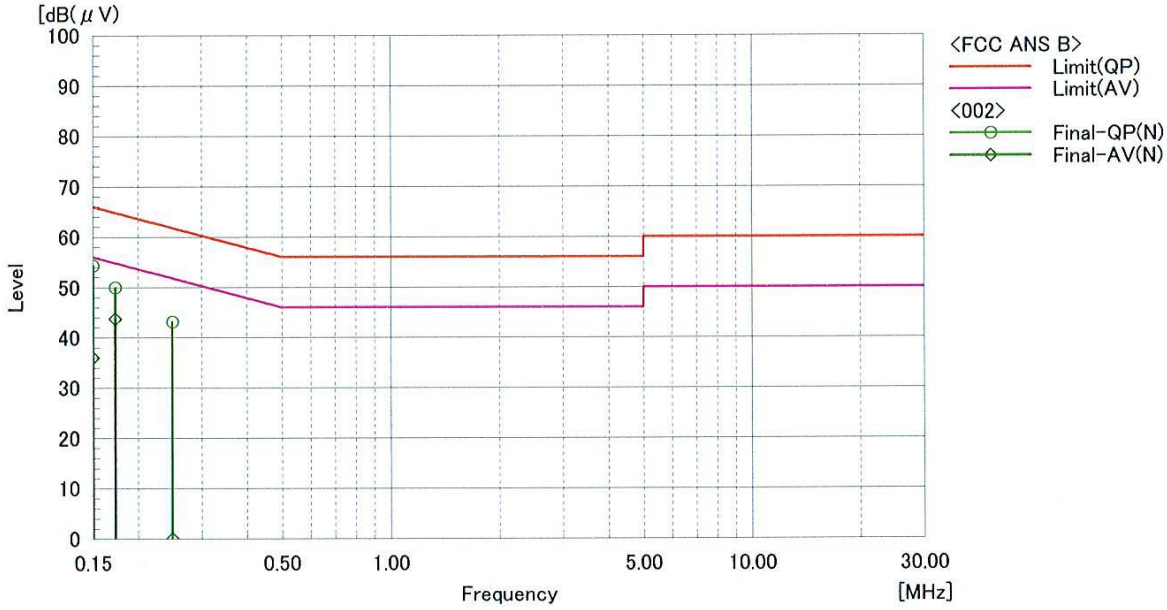
TOSHIBATEC Corp
FUNABARA SITE

<<OF-07009>>

4 October,2007 14:34
002.dat

Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 23C 39%

Limit : ANSI C 63.4/04 (Digital) B
I / F : Parallel
Operation : Printing
Comment1 :
Comment2 :



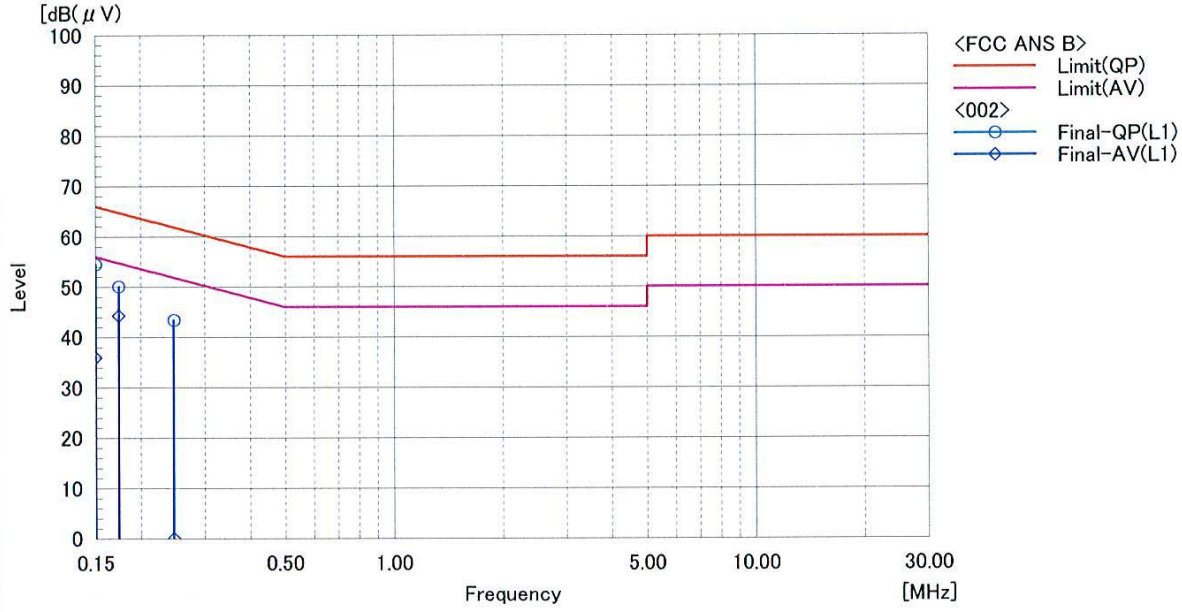
TOSHIBATEC Corp
FUNABARA SITE

<<OF-07009>>

4 October,2007 14:34
002.dat

Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 23C 39%

Limit : ANSI C 63.4/04 (Digital) B
I / F : Parallel
Operation : Printing
Comment1 :
Comment2 :



********** TOSHIBATEC Corp **********
<<OF-07009>>

4 October, 2007 14:34
002.dat

Limit : ANSI C 63.4/04 (Digital) B
Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 23C 39%
I / F : Parallel
Operation : Printing
Comment1 :
Comment2 :

****

Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	[dB
1	0.150	44.6	26.3	9.7	54.3	36.0	66.0	56.0	11.7	20.0	
2	0.173	40.2	33.9	9.8	50.0	43.7	64.8	54.8	14.8	11.1	
3	0.2487	33.3		9.8	43.1		61.8	51.8	18.7		

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	[dB
1	0.150	44.6	26.1	9.9	54.5	36.0	66.0	56.0	11.5	20.0	
2	0.1738	40.1	34.3	10.0	50.1	44.3	64.8	54.8	14.7	10.5	
3	0.247	33.4		10.0	43.4		61.9	51.9	18.5		

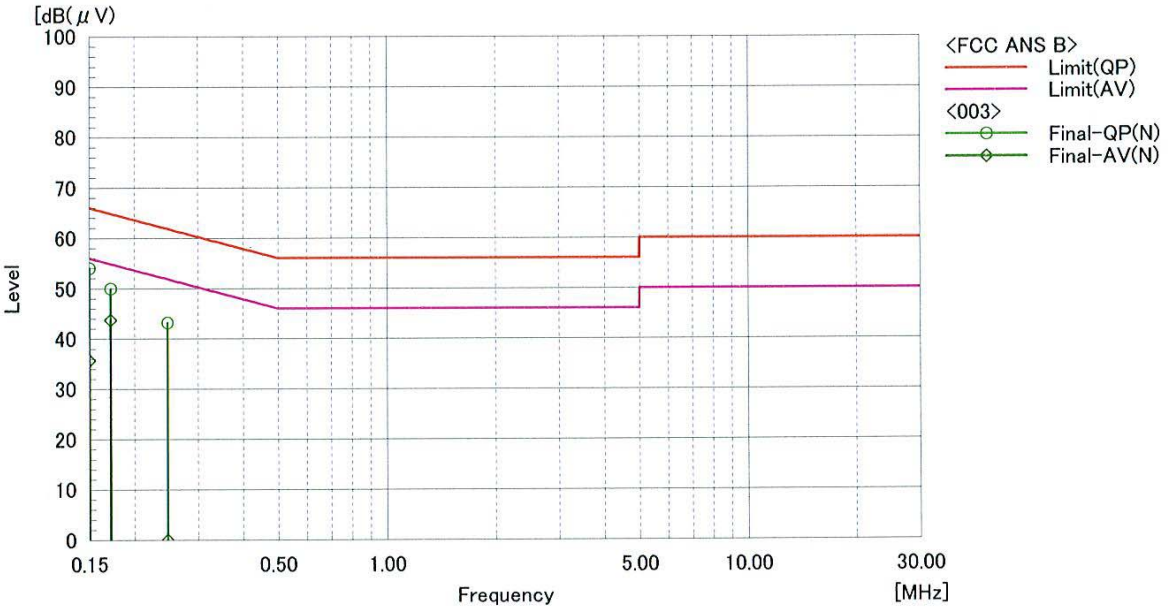
TOSHIBATEC Corp
FUNABARA SITE

<<OF-07009>>

4 October,2007 14:42
003.dat

Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 23C 39%

Limit : ANSI C 63.4/04 (Digital) B
I / F : USB
Operation : Printing
Comment1 :
Comment2 :



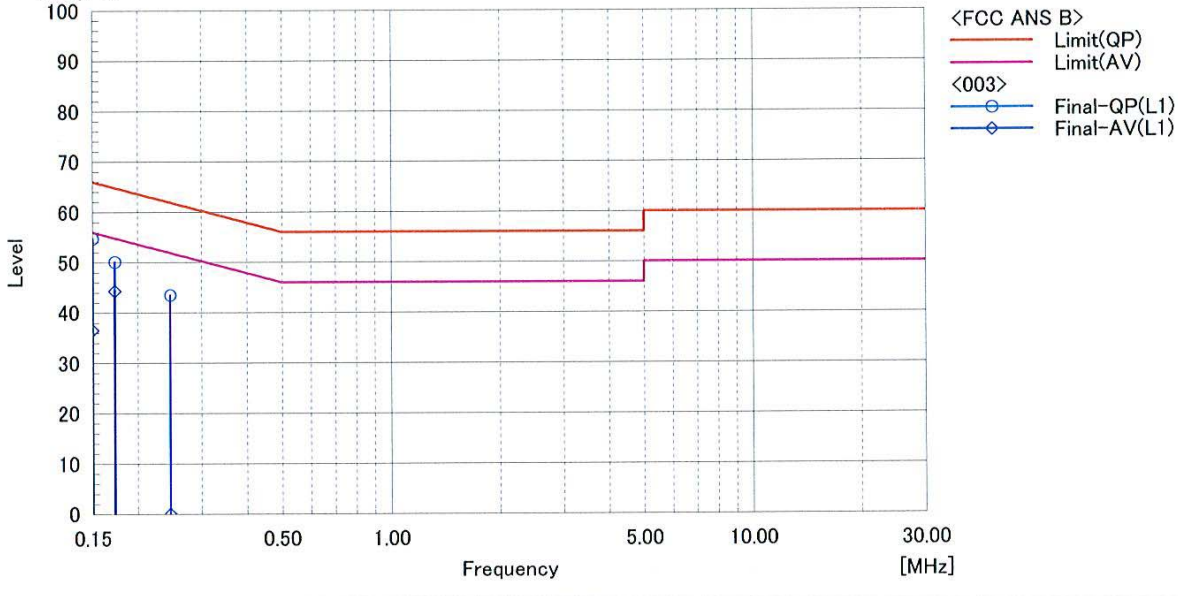
TOSHIBATEC Corp
FUNABARA SITE

<<OF-07009>>

4 October,2007 14:42
003.dat

Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 23C 39%

Limit : ANSI C 63.4/04 (Digital) B
I / F : USB
Operation : Printing
Comment1 :
Comment2 :



********** TOSHIBATEC Corp **********
<<OF-07009>>

4 October, 2007 14:42
003.dat

Limit : ANSI C 63.4/04 (Digital) B
Product : Dot Printer
Model No : 2540/9
Serial No : DVT
AC Power : 120V 60Hz
Temp / Humi : 23C 39%
I / F : USB
Operation : Printing
Comment1 :
Comment2 :

****

Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	[dB
1	0.150	44.3	26.0	9.7	54.0	35.7	66.0	56.0	12.0	20.3	
2	0.172	40.2	33.9	9.8	50.0	43.7	64.9	54.9	14.9	11.2	
3	0.247	33.4		9.8	43.2		61.9	51.9	18.7		

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	[dB
1	0.150	44.8	26.6	9.9	54.7	36.5	66.0	56.0	11.3	19.5	
2	0.173	40.1	34.3	10.0	50.1	44.3	64.8	54.8	14.7	10.5	
3	0.246	33.5		10.0	43.5		61.9	51.9	18.4		

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	2540/9	DVT	QRTS-0702

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 NANAO	FA-1562	96711079-JA-D	---------
Keyboard	ChiconyElectronics	KB-2971	5B15201301B	---------
Mouse	Logitech	M-S48a	HCA05201782	JNZ201213

3.Type of interface cable

Description	Shielded Cable	Ferrite core	Length(m)
Dot Printer / IEEE1284 Personal Computer	Yes	No	2.0m
Dot Printer / RS-232C Personal Computer	Yes	No	1.6m
Dot Printer / USB Personal Computer	Yes	No	2.0m
Personal Computer / TFT Display	Yes	Yes 2s	1.5m
Personal Computer / Keyboard	Yes	Yes	1.35m
Personal Computer / Mouse	No	Yes	1.8m
Dot Printer / AC120V	No	No	1.8m
Personal Computer / AC100V	No	No	1.8m
TFT Display / AC100V	No	No	1.8m

4.Configuration of the equipment under test

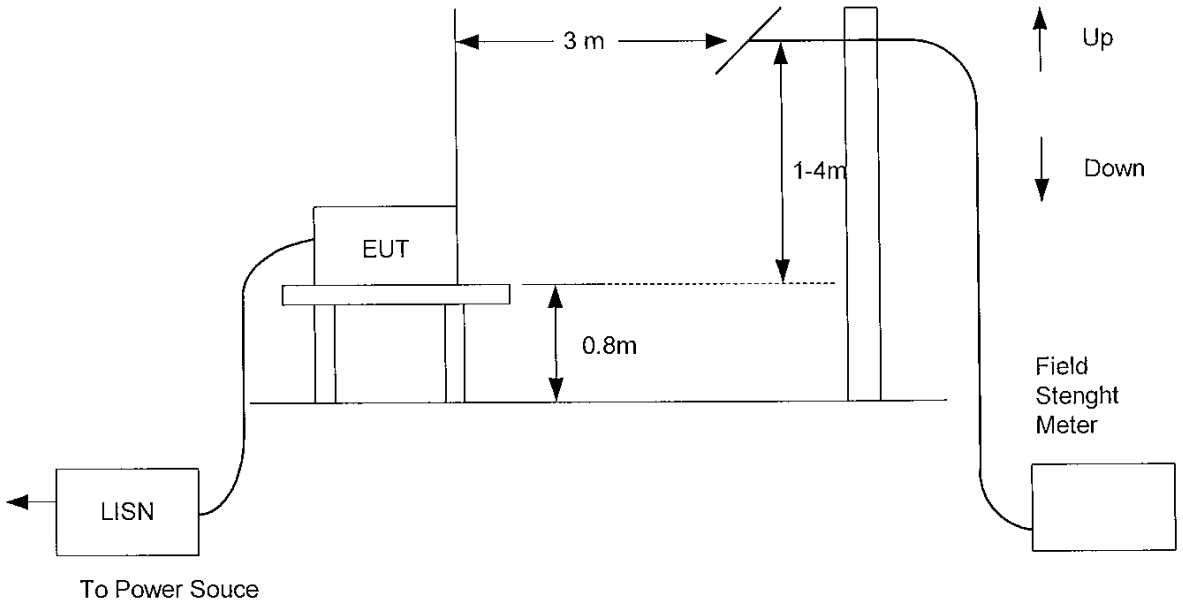
Refer to Page No. 18 to 20
The System was configured to maximize emission. The test reflects the worst case with the System active Operating.

5. Arrangement of the Interface Cable(s)

Refer to sheet No 18 To 20
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.

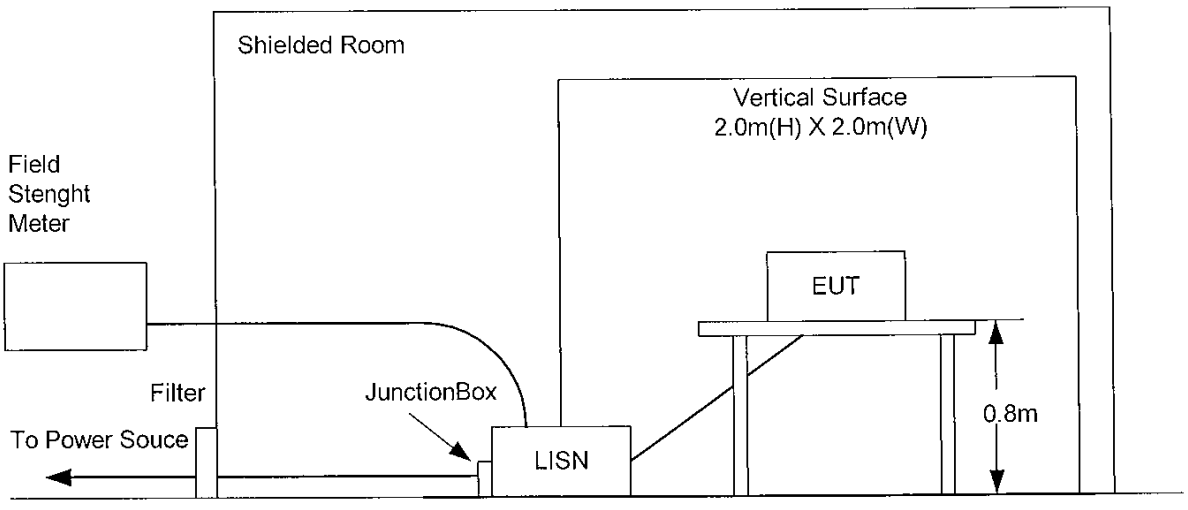
RADIATED RADIO NOISE MEASURMENT

TEST SET-UP SKETCH



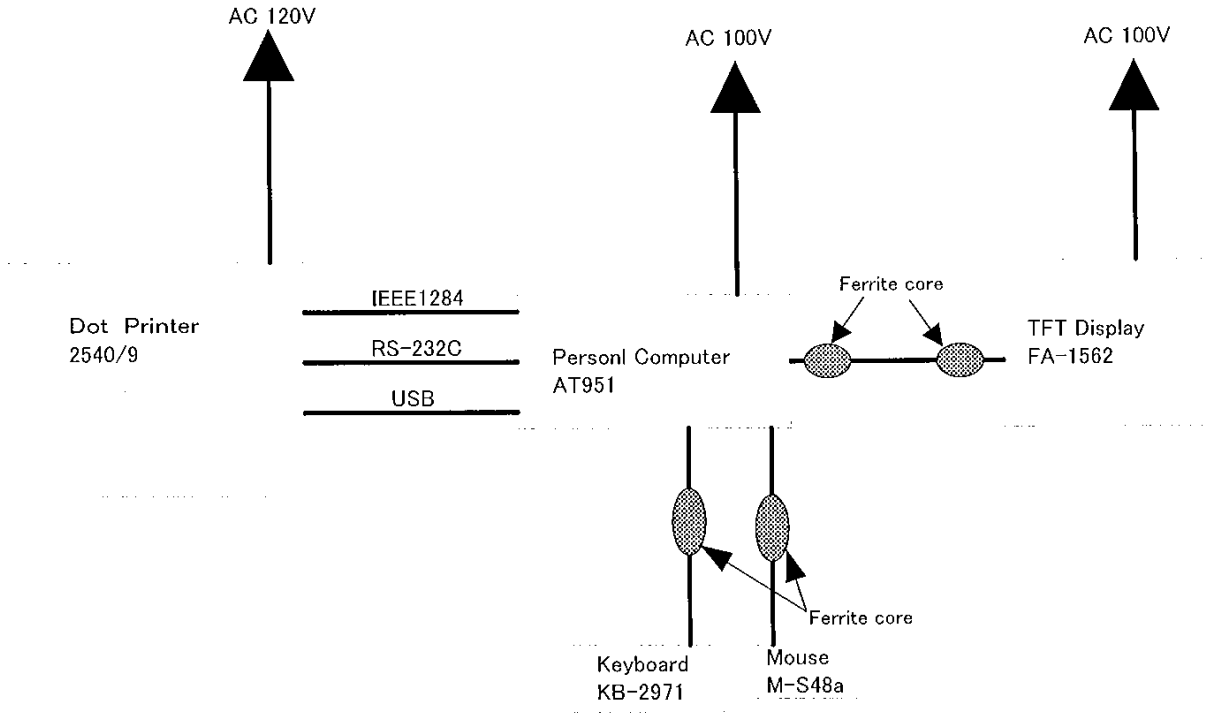
LINE CONDUCTED RF VOLTAGE MEASUREMENT

TEST SET-UP SKETCH

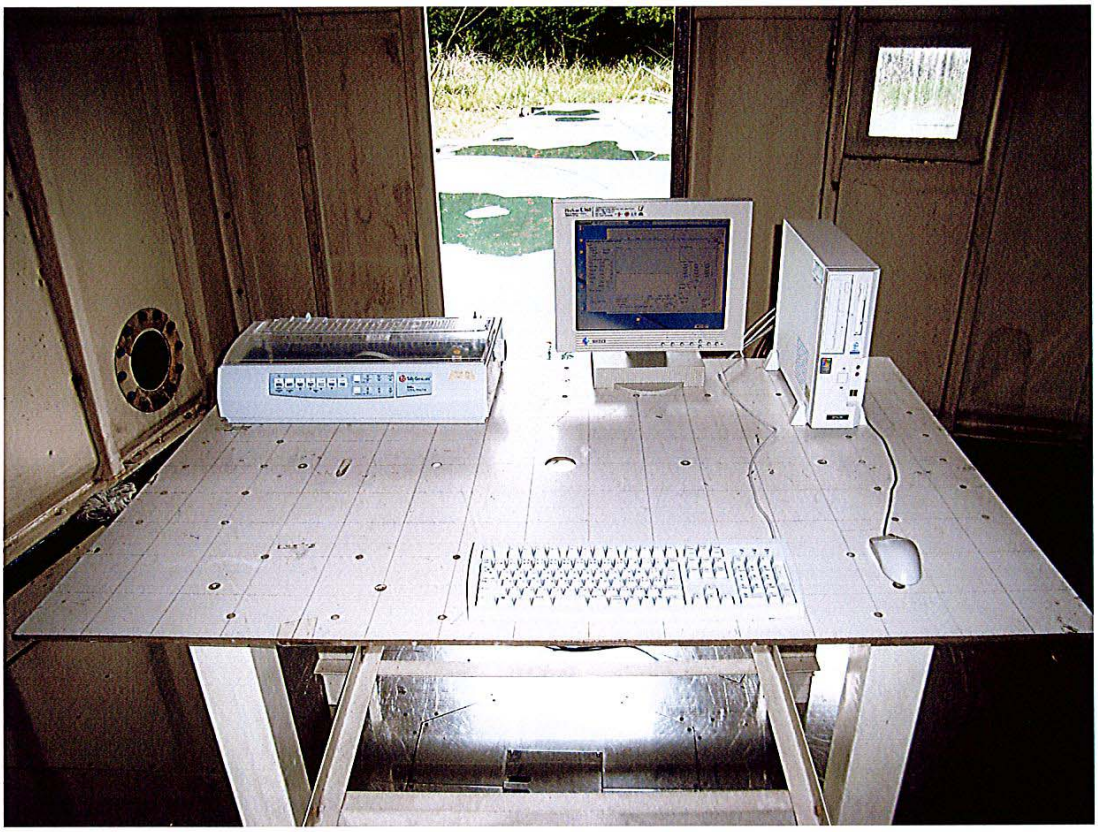


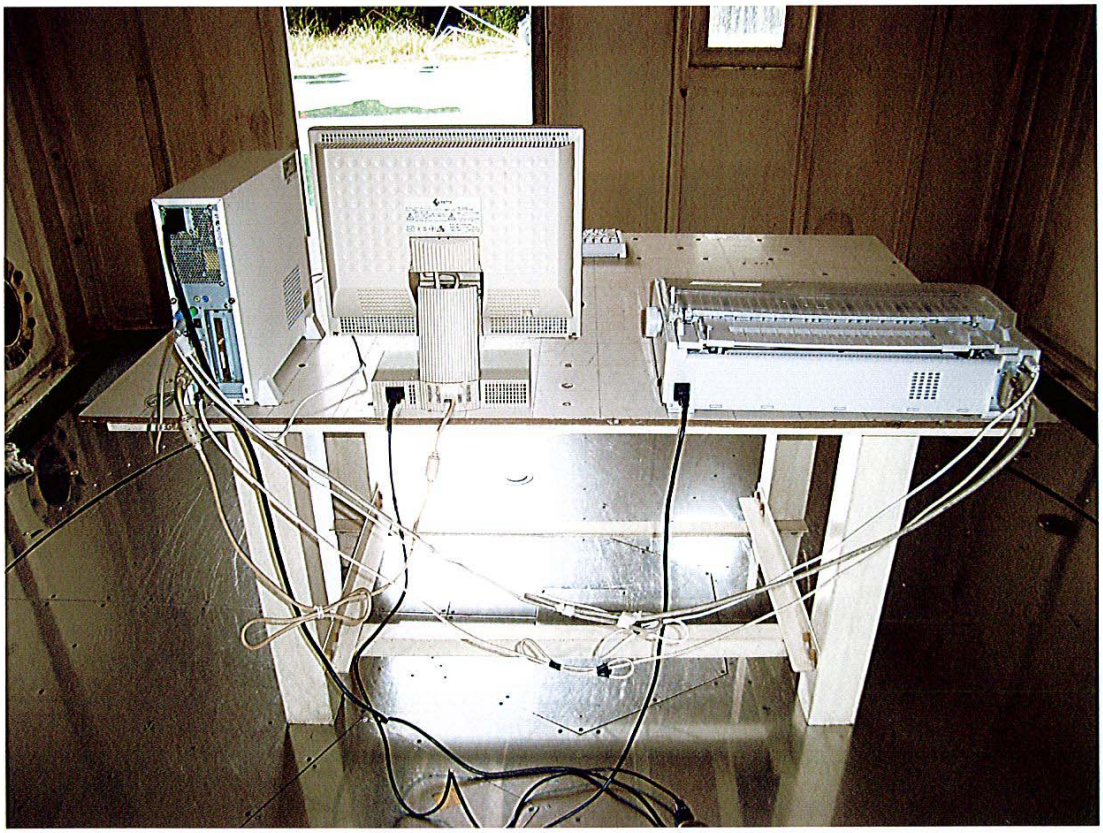
Ground Plane 2.0m(L) X 3.0m(W)
LISN and Junction Boxes bonded to Ground Plane

TEST CONDITIONS AND CONFIGURATION OF EUT

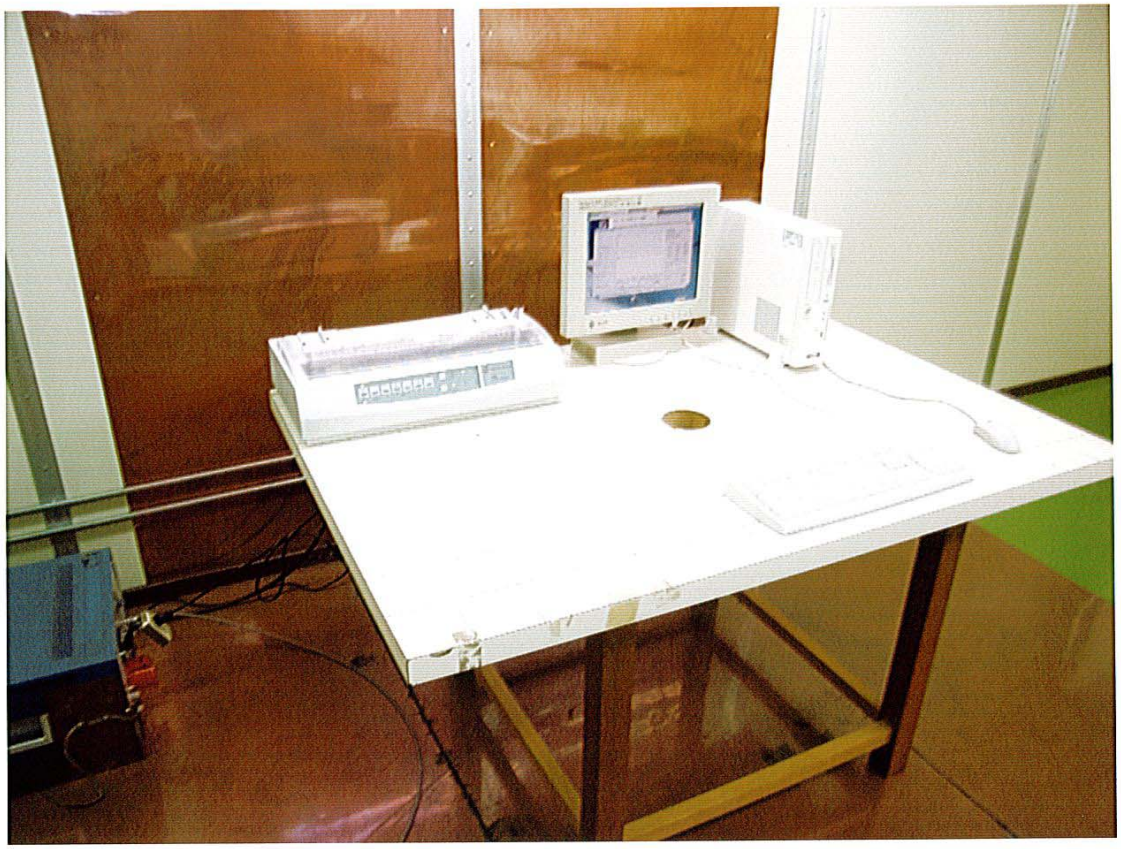


TEST CONDITIONS AND CONFIGURATION OF EUT





TEST CONDITIONS AND CONFIGURATION OF EUT



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]	50Ω//50μH	[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]