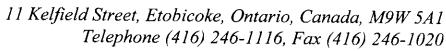
Marstech Cimited



Authorized by:

Professional Engineer
Ontario

Engineering & Administrative



Testing For FCC

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REPORT NO: 98239D ts ON Mishima-Shi 1 411-8520 Document WorkCentre Pro 545 (Model Tested) and TF 610 BJIOH-98001
ON Mishima-Shi 1 411-8520 Document WorkCentre Pro 545 (Model Tested) and TF 610
Mishima-Shi 1 411-8520 Document WorkCentre Pro 545 (Model Tested) and TF 610
and TF 610
ВЛОН-98001
t B ucted Are "Type" Tests.
DATE March 11, 1998 TESTED:
nplies with referenced specification.
O PROFESSION AL
Approved and Certified by: Robert G. Marshall, P. Eng.

THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF MARSTECH

LIMITED. This report was prepared by Marstech Limited for the account of the "Submittor". The material in it reflects Marstech's judgement in light of the information available to it at the time of preparation. Any use which a Third Party makes of this report, or any reliance on decisions to be made based on it, are the responsibility of such Third Parties. Marstech accepts no responsibility for damages, if any, suffered by any Third Party as a result of decisions made or actions based on this report

MARSTECH LIMITED

TECHNICAL REPORT - FCC 2.1033(b)

<u>Applicant</u>

FCC Identifier

TEC Corporation 6-78 Minami-Cho, Mishima-Shi Shizuoka-Ken, JAPAN

BJIOH-98001

Manufacturer

TEC Corporation Mishima-Shi, Shizuoka-Ken, JAPAN

TIM Electronics SDN BHD Bayan Lepas, Penant, MALAYSIA

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Exhibit	Description	FCC Ref.	Page
A	Installation and Operating Instructions Furnished to the User.	2.1033(b)(3)	Exhibit A Exhibit A(1)
В	Description of Circuit Functions	2.1033(b)(4)	Exhibit B Exhibit B(1)
С	Block and Schematic Diagrams	2.1033(b)(5)	Exhibit C
	Block Diagram		Exhibit C(1)-1 to -2
	Schematic Diagram		Exhibit C(2)-1 to -17
D	Report of Measurements/Test Facility/ Test Equipment List	2.1033(b)(6)	Exhibit D Exhibit D(1)
Е	Photographs	2.1033(b)(7)	Exhibit E
	Label		Exhibit E(1)-1 to -2
	Equipment		Exhibit E(2)-1 to -16

FCC ID: BJIOH-98001 Marstech Report No. 98239D



Issue Date : March 19, 1998

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EMI TEST REPORT

JQA APPLICATION NO.

: 80-71209

Applicant

: TEC CORPORATION

: 6-78, Minami cho, Mishima-shi, Shizuoka-ken 411-8520, Japan

Manufacturer

: TEC CORPORATION

: 6-78, Minami-cho, Mishima shi, Shizuoka-ken 411-8520, Japan

Description of Equipment

: Facsimile(including scanner capability)

Model No.

: Document Work Center-PR0545

FCC ID

: BJ IOH-98001

Regulations Applied

: FCC Rules and Regulations Part 15 Subpart B

Total Pages of this Report

: 37 Pages (including this page)

Place of Measurement

: JQA EMC Engineering Dept. Testing Div.

WVLAP Lab. Code

: 200189 0 (Effective through: June 30, 1998)

TEST FACILITY: This test facility is recognized the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part285 Code of Federal Regulations.

TEST RESULTS IN THIS REPORT are obtained in use of equipment that is traceable to Electrotechnical Lab. of MITI Japan and Communications Research Lab. of PTT Japan.

The test results only responds to the tested sample.

NVLAP or any agency of the U.S. Government.

It is not allowed to copy this report even partly without the allowance of the JQA EMC Engineering Dept. Testing Div.

Signed:

Tetsuo Kato, Manager

JQA EMC Engineering Dept.

This report must not used by the client to claim product endorsement by

FCC ID: BJIOH-98001 EXHIBIT D(1) Marstech Report #98239D





Model No.

: Document Work Centre PR0545 Issue Date

: FCC15 Sub. B : March 23, 1998

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Standard

GENERAL EQUIPMENT INFORMATION:

DESCRIPTION OF EQUIPMENT:

1) Type of Equipment tested

: Pre-Production

2) Category

: Class B Digital device

3) Equipment Authorization

: Certification

4) FCC ID

: BJIOH-98001

5) Trade Name

: XEROX

6) Model No.

: Document Work Centre-PR0545

7) Fundamental Frequency Operated in the Equipment

: 16 MHz, 22.953 MHz, 38.00053 MHz, 18.432 MHz, 32.768 kHz

8) Highest Frequency Used in the Equipment

: 38.00053 MHz

9) Serial No.

: 98020065

10) Date of Manufacture

11) Power Rating

: AC 120V 50 Hz

TEST CONDITION OF EQUIPMENT:

1) Configuration of Equipment

: Refer to Page 5, 6, 17, 18, 19, 20, 31, 32, 33, 34, 35

2) Operating Condition

: Refer to Page 5

3) Equipment Grounding

: Grounded at the plug end of the AC power line cord.

4) Equipment Warm-up Time

: 5 minutes



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: 80 71209

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CONCLUSIONS OF THE TEST RESULTS:

The data shown in this report were made in accordance with the procedures given in ANSI C63.4-1992. And the Equipment Under Test complied with the requirements of FCC Rules Part15 subpart B sec. 107 and 109 as detailed from page 3 to page 37.

	Results	Page
AC Powerline Conducted Emissions Measurement	: PASSED	
Minimum margin with respect to the Limits		
(1) Ready Mode	: 13.1 dB at 0.68 MHz	7
(2) Copy Mode	: 3.1 dB at 0.45 MHz	9
(3) Transmitting Mode	: 8.0 dB at 0.55 MHz	11
(4) Receiving Mode	: 5.3 dB at 0.48 MHz	13
(5) Scanning Mode	: 8.3 dB at 0.52 MHz	15
Measurement Uncertainty	: ± 2.2 dB	
Tested by: Y. napajima	Date: M arch 11, 1998	
Yoichi Nakajima	Temp: 20℃ Humi: 40%	_
Testing Engineer	16.mp1 20 0 10 10 10 10 10 10 10 10 10 10 10 10	_
	DACCED	
Radiated Emissions Measurement	: PASSED	
Minimum margin with respect to the Limits	: 4.6 dB at 137.7 MHz	21
(1) Ready Mode	: 3.4 dB at 137.7 MHz	23
(2) Copy Mode(3) Transmitting Mode	: 4.9 dB at 856.1 MHz	25 25
(4) Receiving Mode	: 3.8 dB at 600.0 MHz	27
(5) Scanning Mode	: 4.5 dB at 600.0 MHz	29
(J) Scanning mode	. 7. 0 ab at 000.0 mnz	ப்
Measurement Uncertainty	: 3.2 dB	
Tested by: Y. Nakayma	Date: <u>March 11, 1998</u>	
Yoichi Nakajima	Temp: <u>20°C</u> Humi: <u>60%</u>	_
Testing Engineer		



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EQUIPMENT(EUT) MODIFICATION:

No modifications were conducted by JQA to achieve compliance to Class B levels.

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures Given in ANSI C63.4 1992 and the energy emitted by the equipment was found to be within the limits Applicable.

I assume full responsibility for accuracy and completeness of these data.

Approved Signatory:

Yuichi Fukumoto Deputy Manager



Α

JQA Application No.

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TEST CONDITIONS AND CONFIGURATION OF EUT

1. The equipment under test (EUT) consists of:

Item Facsimile Manufacturer

TEC Corp.

Model No.

Document Work Centre-PR0545

: Document Work Centre-PRO545 Issue Date

FCC ID

BJ 10H-98001

Serial No. 98020065

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

	<u>Item</u>	Manufacturer	<u>Model No.</u>	FCC 1D	<u>Serial No.</u>
B(*1)	Personal Computer	Compaq computer Corporation	Series2820D	CNT75MBZ4D	7408HDJ41440
C	Mouse	IBM	13Н6690	DZL210429	23 D418331
Đ	AC Adaptor	Compaq computer Corporation	Series2822	N/A	40607799
E	External Telephone	-	-	N/A	
F(*2)	HA System Terminal	Toshiba Corp.	THE-105	N/A	7M02806
G(*2)	Facsimile	TEC Corp.	Document Wor	ВЈІОН 98001	98020065

Note 1. This personal computer was operated with the AC adaptor(Model No.: Series2822,

Input: 100-120/ 220 240VAC 50/60Hz. Output: 18.5VDC by Compaq computer Corporation.).

Note 2. These equipment were placed outside an anechoic chamber.

3. Configuration of the equipment under test

AC Power Line Conducted Emissions Measurement : Refer to page 5, 6, 17, 18, 19, 20

Radiated Emissions Measurement

: Refer to page 5, 6, 31, 32, 33, 34, 35

4. Operating Condition

Ready Mode

Copy Mode

Transmitting Mode

Receiving Mode

Scanning Mode



Model No.

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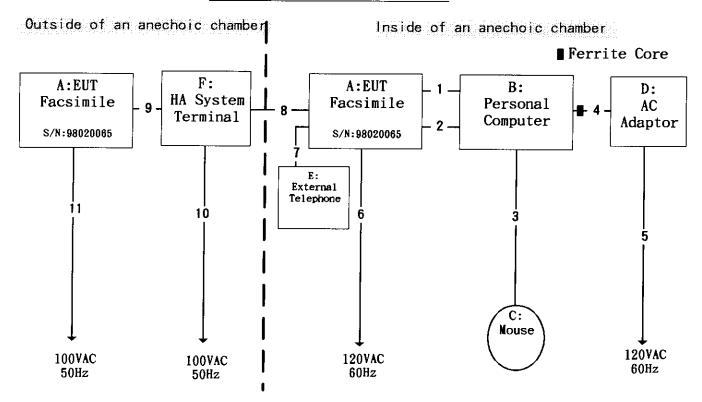
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CONFIGURATION OF TESTED SYSTEM



Cable Description:

Cable No.	Description	Manufacturer	<u>Shielded</u>	<u>Ferrite</u>	Length	Connecter
1	PC Cable(Serial)	LOROM INDUSTRIES	YES	NO	1. 8	Metallic
2	PC Cable(Parallel)		YES	NO	1.8	Non-metallic
3	Mouse Cable	[BM	YES	NO	1. 8	Non-metallic
4	AC Adaptor Cable	Compaq computer Corp.	YES	YES	1.0	Non-metallic
5	AC Power Cable(for AC Adaptor)	-	NO	NO	2. 0	Non-metallic
6	AC Power Cable(for EUT)	-	NO	NO	1.8	Non-metallic
7	Moduler Cable		NO	NO	1.8	Non-metallic
8	Moduler Cable		NO	NO	10.0	Non-metallic
9	Moduler Cable	-	NO	NO	1. 8	Non-metallic
10	AC Power Cable(for HA System)	Toshiba Corp.	NO	NO	1.8	Non metallic
11	AC Power Cable(for FAX)		NO.	NO	1. 8	Non metallic



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[Ready Mode]

AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT:

According to description of ANSI C63.4-1992 sec.7.2.3, the AC power line preliminary conducted emissions measurement were carried out. The preliminary conducted measurements were performed using the spectrum analizer to observe the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements.

Frequency	LISN	Meter 1	Reading	Limits	Emissi	on Levels	Marg	gins
(MHz)	Factor (dB)	V-A (dB/uV)	V-B (dB/uV)	(dB/uV)	V-A (dB/uV)	V-B (dB/uV)	V-A (dB)	V-B (dB)
0.57 0.68 0.85 1.20 1.37	0.2 0.2 0.2 0.2 0.2	22.4 34.7 32.5 26.0 26.4	22.8 32.9 30.8 24.7 27.3	48.0 48.0 48.0 48.0 48.0	22.6 34.9 32.7 26.2 26.6	23.0 33.1 31.0 24.9 27.5	25.4 13.1 15.3 21.8 21.4	25.0 14.9 17.0 23.1 20.5
1.88 2.39 2.90 3.35 4.61	0.2 0.2 0.2 0.2 0.2	23.2 20.1 24.7 23.1 11.0	23.6 22.2 23.0 23.6 21.1	48.0 48.0 48.0 48.0 48.0	23.4 20.3 24.9 23.3 11.2	23.8 22.4 23.2 23.8 21.3	24.6 27.7 23.1 24.7 36.8	24.2 25.6 24.8 24.2 26.7
5.13 7.69 8.55 10.71 11.94	0.2 0.2 0.2 0.2 0.2	17.7 21.5 18.0 21.0 18.3	21.8 23.3 20.5 21.3 18.6	48.0 48.0 48.0 48.0 48.0	17.9 21.7 18.2 21.2 18.5	22.0 23.5 20.7 21.5 18.8	30.1 26.3 29.8 26.8 29.5	26.0 24.5 27.3 26.5 29.2
14.37 15.92 18.00 21.79 22.45	$ \begin{array}{c} 0.3 \\ 0.3 \\ 0.4 \\ 0.4 \\ 0.4 \end{array} $	20.1 22.6 32.3 26.3 29.2	16.5 23.8 32.4 26.6 29.4	48.0 48.0 48.0 48.0 48.0	20.4 22.9 32.7 26.7 29.6	16.8 24.1 32.8 27.0 29.8	27.6 25.1 15.3 21.3 18.4	31.2 23.9 15.2 21.0 18.2
$25.31 \\ 27.65 \\ 30.00$	$\begin{array}{c} 0.5 \\ 0.6 \\ 0.6 \end{array}$	$27.1 \\ 27.8 \\ 29.8$	$27.2 \\ 28.2 \\ 29.8$	48.0 48.0 48.0	$27.6 \\ 28.4 \\ 30.4$	$27.7 \\ 28.8 \\ 30.4$	$20.4 \\ 19.6 \\ 17.6$	$20.3 \\ 19.2 \\ 17.6$

- 1). The spectrum was checked from 0.45 MHz to 30 MHz.
- 2). V-A: One end & Ground; V-B: The other end & Ground
- 3). The symbol of '<' means 'or less'.
- 4). The symbol of '>' means 'or greater'.
- 5). The cable(2.0 m length) loss is included in the LISN factor.
- 6). See sec.11.5.2 in ANSI C63.4-1992 for the symbol '*'
- 7). A sample calculation was made at 0.57 MHz.

Lf + Mr = 0.2 + 22.4 = 22.6 dB/uV

Where.

Lf: LISN Factor Mr : Meter Reading



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: 80 71209

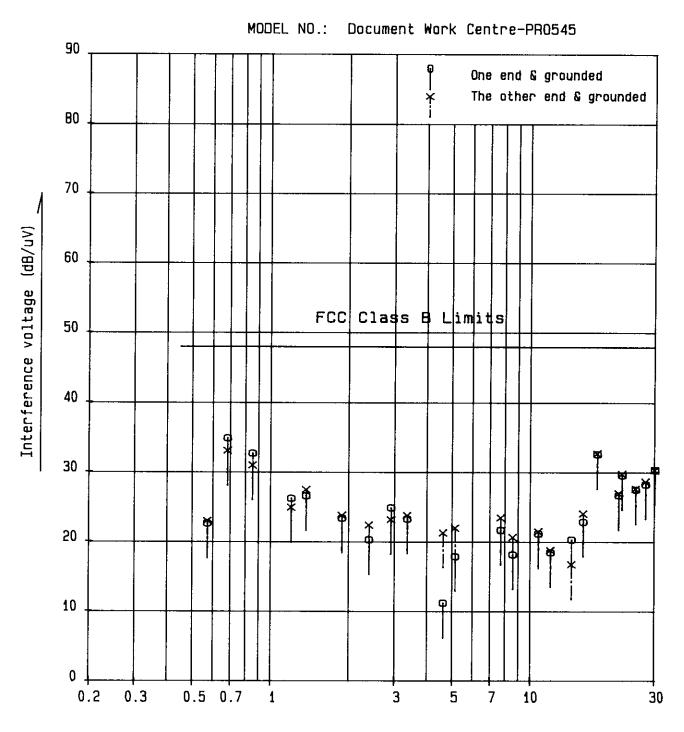
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AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT



Interference frequency (MHz)



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AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT:

According to description of ANSI C63.4-1992 sec. 7.2.3, the AC power line preliminary conducted emissions measurement were carried out. The preliminary conducted measurements were performed using the spectrum analizer to observe the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements.

Frequency	LISN	Meter 1	Reading	Limits	Emissi	on Levels	Mare	gins
(MHz)	Factor (dB)	V-A (dB/uV)	V-B (dB/uV)	(dB/uV)	V-A (dB/uV)	V-B (dB/uV)	V-A (dB)	V-B (dB)
0.45 0.50 0.68 0.80 1.00	0.2 0.2 0.2 0.2 0.2	44.7 37.7 29.2 29.0 24.0	42.7 37.5 28.0 28.3 26.0	48.0 48.0 48.0 48.0 48.0	44.9 37.9 29.4 29.2 24.2	42.9 37.7 28.2 28.5 26.2	3.1 10.1 18.6 18.8 23.8	5.1 10.3 19.8 19.5 21.8
1.47 2.57 2.90 3.35 5.02	0.2 0.2 0.2 0.2 0.2	21.0 20.7 23.5 24.2 22.8	23.8 22.5 24.7 24.2 23.0	48.0 48.0 48.0 48.0 48.0	21.2 20.9 23.7 24.4 23.0	24.0 22.7 24.9 24.4 23.2	26.8 27.1 24.3 23.6 25.0	24.0 25.3 23.1 23.6 24.8
7.01 8.76 10.70 12.59 15.72	0.2 0.2 0.2 0.3 0.3	20.8 19.3 21.8 20.0 23.5	21.2 23.0 21.8 20.6 24.2	48.0 48.0 48.0 48.0 48.0	21.0 19.5 22.0 20.3 23.8	21.4 23.2 22.0 20.9 24.5	27.0 28.5 26.0 27.7 24.2	26.6 24.8 26.0 27.1 23.5
18.00 20.07 21.77 22.35 25.00	0.4 0.4 0.4 0.4 0.5	31.5 25.7 28.2 30.2 27.6	31.5 25.7 28.2 30.5 28.1	48.0 48.0 48.0 48.0 48.0	$31.9 \\ 26.1 \\ 28.6 \\ 30.6 \\ 28.1$	31.9 26.1 28.6 30.9 28.6	16.1 21.9 19.4 17.4 19.9	$16.1 \\ 21.9 \\ 19.4 \\ 17.1 \\ 19.4$
$\begin{array}{c} 27.65 \\ 30.00 \end{array}$	$\begin{array}{c} 0.6 \\ 0.6 \end{array}$	$\begin{array}{c} 28.0 \\ 29.5 \end{array}$	$\substack{28.5\\30.0}$	$\substack{48.0\\48.0}$	$\substack{28.6\\30.1}$	$\begin{smallmatrix}29.1\\30.6\end{smallmatrix}$	$\begin{array}{c} 19.4 \\ 17.9 \end{array}$	$\substack{18.9\\17.4}$

- 1). The spectrum was checked from 0.45 MHz to 30 MHz.
- 2). V-A: One end & Ground; V-B: The other end & Ground
- 3). The symbol of '<' means 'or less'.
- 4). The symbol of '>' means 'or greater'.
- 5). The cable (2.0 m length) loss is included in the LISN factor.
- 6). See sec.11.5.2 in ANSI C63.4-1992 for the symbol '*'
- 7). A sample calculation was made at 0.45 MHz.

Lf + Mr = 0.2 + 44.7 = 44.9 dB/uV

Where,

Lf: LISN Factor Mr : Meter Reading



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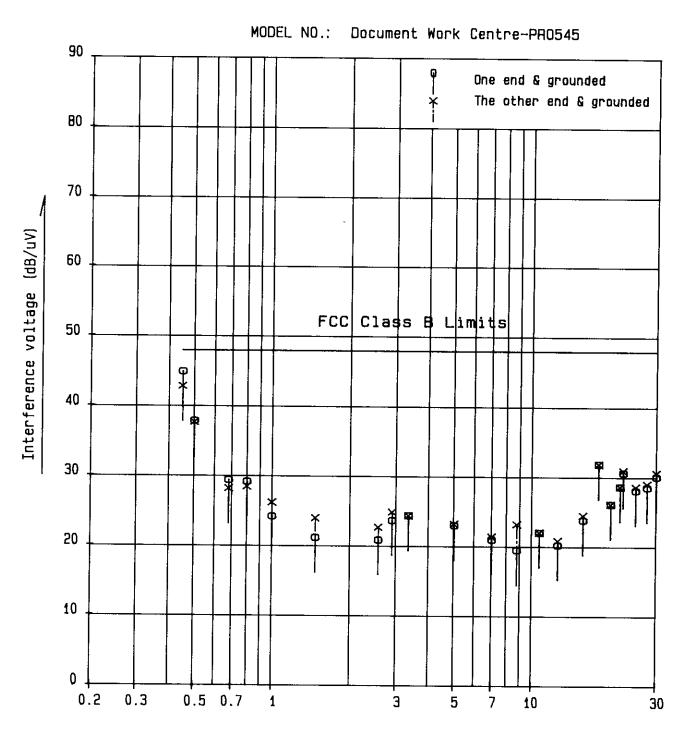
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AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT





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AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT:

According to description of ANSI C63.4-1992 sec.7.2.3, the AC power line preliminary conducted emissions measurement were carried out. The preliminary conducted measurements were performed using the spectrum analizer to observe the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements.

Frequency	LISN		Reading	Limits	Emissi	on Levels	Marg	gins
(MHz)	Factor (dB)	V-A (dB/uV)	V-B (dB/uV)	(dB/uV)	V-A (dB/uV)	V-B (dB/uV)	V-A (dB)	V-B (dB)
0.45 0.55 0.70 0.80 0.99	0.2 0.2 0.2 0.2 0.2	39.1 39.8 32.8 30.9 26.4	38.2 38.4 30.0 27.4 27.2	48.0 48.0 48.0 48.0 48.0	39.3 40.0 33.0 31.1 26.6	38.4 38.6 30.2 27.6 27.4	8.7 8.0 15.0 16.9 21.4	9.6 9.4 17.8 20.4 20.6
1.41 2.27 2.90 3.35 5.02	0.2 0.2 0.2 0.2 0.2	22.0 20.0 24.4 25.0 20.0	24.1 21.0 24.3 25.2 20.0	48.0 48.0 48.0 48.0 48.0	22.2 20.2 24.6 25.2 20.2	24.3 21.2 24.5 25.4 20.2	25.8 27.8 23.4 22.8 27.8	23.7 26.8 23.5 22.6 27.8
7.01 8.62 10.70 12.59 15.72	0.2 0.2 0.2 0.3 0.3	20.0 19.2 21.0 18.0 21.0	20.7 19.8 20.9 17.0 22.0	48.0 48.0 48.0 48.0 48.0	$20.2 \\ 19.4 \\ 21.2 \\ 18.3 \\ 21.3$	20.9 20.0 21.1 17.3 22.3	27.8 28.6 26.8 29.7 26.7	27.1 28.0 26.9 30.7 25.7
18.00 20.07 21.77 22.82 25.00	0.4 0.4 0.5 0.5	$30.8 \\ 23.1 \\ 28.0 \\ 29.1 \\ 26.0$	30.8 23.2 28.8 29.8 26.4	48.0 48.0 48.0 48.0 48.0	31.2 23.5 28.4 29.6 26.5	31.2 23.6 29.2 30.3 26.9	16.8 24.5 19.6 18.4 21.5	16.8 24.4 18.8 17.7 21.1
$\begin{array}{c} 27.65 \\ 30.00 \end{array}$	0.6 0.6	$\begin{array}{c} 27.4 \\ 24.0 \end{array}$	$\begin{array}{c} 27.4 \\ 24.2 \end{array}$	$\substack{48.0\\48.0}$	$\begin{array}{c} 28.0 \\ 24.6 \end{array}$	$\begin{array}{c} 28.0 \\ 24.8 \end{array}$	$\begin{smallmatrix}20.0\\23.4\end{smallmatrix}$	$\begin{smallmatrix}20.0\\23.2\end{smallmatrix}$

Notes:

- 1). The spectrum was checked from 0.45 MHz to 30 MHz.
- 2). V-A : One end & Ground ; V-B : The other end & Ground 3). The symbol of '<' means 'or less'.
- 4). The symbol of '>' means 'or greater'.
- 5). The cable(2.0 m length) loss is included in the LISN factor.
- 6). See sec.11.5.2 in ANSI C63.4-1992 for the symbol '*'
- 7). A sample calculation was made at 0.45 MHz.

 $Lf + Mr = 0.2 + 39.1 = 39.3 \, dB/uV$

Where.

Lf: LISN Factor Mr : Meter Reading



Model No.

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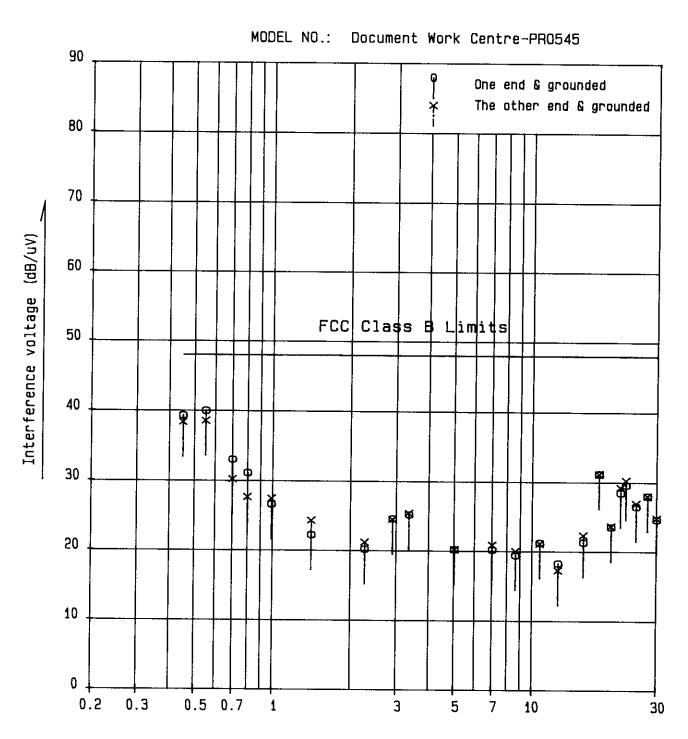
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AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT



Interference frequency (MHz)



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[Receiving Mode]

AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT:

According to description of ANSI C63.4-1992 sec. 7.2.3, the AC power line preliminary conducted emissions measurement were carried out. The preliminary conducted measurements were performed using the spectrum analizer to observe the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements.

Frequency	LISN	Meter 1	Reading	Limits	Emissi	on Levels	Mare	gins
(MHz)	Factor (dB)	V-A (dB/uV)	V-B (dB/uV)	(dB/uV)	V-A (dB/uV)	V-B (dB/uV)	V-A (dB)	V-B (dB)
0.48 0.52 0.68 0.80 0.94	0.2 0.2 0.2 0.2 0.2	42.5 39.0 30.2 23.1 26.4	40.3 38.1 29.9 22.4 26.5	48.0 48.0 48.0 48.0 48.0	42.7 39.2 30.4 23.3 26.6	40.5 38.3 30.1 22.6 26.7	5.3 8.8 17.6 24.7 21.4	7.5 9.7 17.9 25.4 21.3
1.40 2.28 2.90 3.35 5.02	0.2 0.2 0.2 0.2 0.2	20.0 18.8 24.0 25.0 20.2	22.5 20.4 24.8 25.5 20.0	48.0 48.0 48.0 48.0 48.0	20.2 19.0 24.2 25.2 20.4	22.7 20.6 25.0 25.7 20.2	27.8 29.0 23.8 22.8 27.6	25.3 27.4 23.0 22.3 27.8
7.01 8.62 10.70 12.59 15.72	0.2 0.2 0.2 0.3 0.3	19.8 18.8 21.0 15.9 21.0	20.9 21.4 20.6 16.4 21.5	48.0 48.0 48.0 48.0 48.0	$20.0 \\ 19.0 \\ 21.2 \\ 16.2 \\ 21.3$	21.1 21.6 20.8 16.7 21.8	28.0 29.0 26.8 31.8 26.7	26.9 26.4 27.2 31.3 26.2
18.00 20.07 21.77 22.82 25.00	0.4 0.4 0.4 0.5 0.5	30.5 23.0 25.0 27.4 23.6	30.7 22.8 24.6 27.5 23.8	48.0 48.0 48.0 48.0 48.0	30.9 23.4 25.4 27.9 24.1	$31.1 \\ 23.2 \\ 25.0 \\ 28.0 \\ 24.3$	17.1 24.6 22.6 20.1 23.9	$16.9 \\ 24.8 \\ 23.0 \\ 20.0 \\ 23.7$
$\begin{array}{c} 27.65 \\ 30.00 \end{array}$	$ \begin{array}{c} 0.6 \\ 0.6 \end{array} $	$\begin{array}{c} 26.5 \\ 23.8 \end{array}$	$\begin{array}{c} 26.9 \\ 23.9 \end{array}$	$\substack{48.0\\48.0}$	$\begin{array}{c} 27.1 \\ 24.4 \end{array}$	$\frac{27.5}{24.5}$	$\begin{array}{c} 20.9 \\ 23.6 \end{array}$	$\substack{20.5 \\ 23.5}$

- Notes: 1). The spectrum was checked from 0.45 MHz to 30 MHz.
 - 2). V-A: One end & Ground; V-B: The other end & Ground
 - 3). The symbol of '<' means 'or less'.
 - 4). The symbol of '>' means 'or greater'.
 - 5). The cable($2.0\ m$ length) loss is included in the LISN factor.
 - 6). See sec.11.5.2 in ANSI C63.4-1992 for the symbol '*'
 - 7). A sample calculation was made at 0.48 MHz.

 $Lf + Mr = 0.2 + 42.5 = 42.7 \, dB/uV$

Where,

Lf: LISN Factor Mr : Meter Reading



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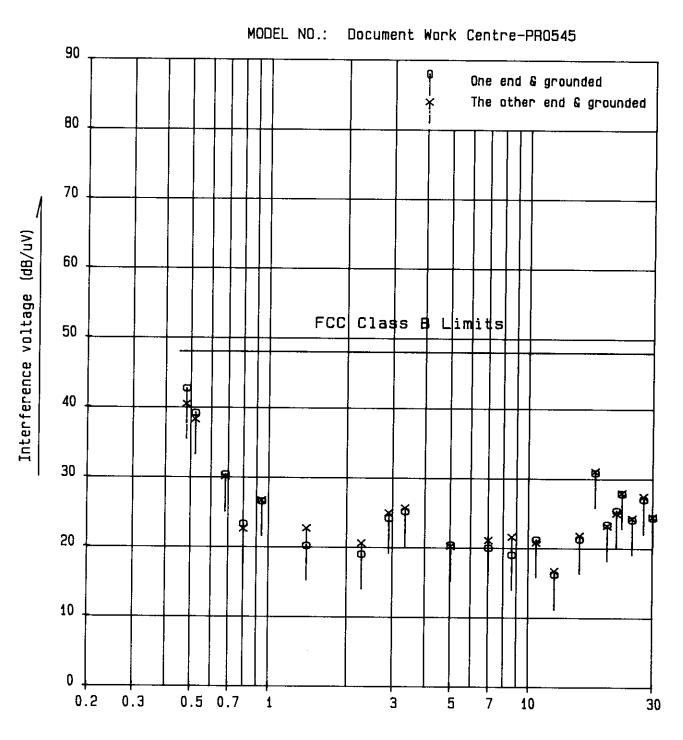
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AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT





JQA Application No. : 80-71209

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AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT:

According to description of ANSI C63.4-1992 sec.7.2.3, the AC power line preliminary conducted emissions measurement were carried out. The preliminary conducted measurements were performed using the spectrum analizer to observe the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements.

Frequency	LISN		Reading	Limits	Emissi	on Levels	Marg	gins
(MHz)	Factor (dB)	V-A (dB/uV)	V-B (dB/uV)	(dB/uV)	V-A (dB/uV)	V-B (dB/uV)	V-A (dB)	V-B (dB)
0.45 0.52 0.68 0.95 1.23	0.2 0.2 0.2 0.2 0.2	39.4 39.5 32.3 26.2 22.5	38.8 38.0 30.0 27.4 23.0	48.0 48.0 48.0 48.0 48.0	39.6 39.7 32.5 26.4 22.7	39.0 38.2 30.2 27.6 23.2	8.4 8.3 15.5 21.6 25.3	9.0 9.8 17.8 20.4 24.8
1.67 2.57 2.90 3.35 5.02	0.2 0.2 0.2 0.2 0.2	20.0 21.5 23.5 24.1 20.9	23.4 22.6 23.8 24.4 21.4	48.0 48.0 48.0 48.0 48.0	$20.2 \\ 21.7 \\ 23.7 \\ 24.3 \\ 21.1$	23.6 22.8 24.0 24.6 21.6	27.8 26.3 24.3 23.7 26.9	24.4 25.2 24.0 23.4 26.4
7.01 8.71 10.70 12.59 15.71	0.2 0.2 0.2 0.3 0.3	$18.8 \\ 19.0 \\ 21.8 \\ 20.0 \\ 21.2$	21.0 19.2 21.5 19.5 22.1	48.0 48.0 48.0 48.0 48.0	19.0 19.2 22.0 20.3 21.5	21.2 19.4 21.7 19.8 22.4	29.0 28.8 26.0 27.7 26.5	26.8 28.6 26.3 28.2 25.6
18.00 20.07 21.59 22.25 25.00	0.4 0.4 0.4 0.4 0.5	30.5 21.9 29.0 30.5 24.8	30.7 22.0 29.2 30.8 25.0	48.0 48.0 48.0 48.0 48.0	30.9 22.3 29.4 30.9 25.3	31.1 22.4 29.6 31.2 25.5	17.1 25.7 18.6 17.1 22.7	16.9 25.6 18.4 16.8 22.5
27.65 30.00	$\begin{array}{c} 0.6 \\ 0.6 \end{array}$	$\begin{array}{c} 27.8 \\ 27.9 \end{array}$	$\begin{array}{c} 28.0 \\ 27.6 \end{array}$	$\substack{48.0\\48.0}$	$\substack{28.4\\28.5}$	$\begin{array}{c} 28.6 \\ 28.2 \end{array}$	$\substack{19.6\\19.5}$	$\substack{19.4\\19.8}$

- Notes: 1). The spectrum was checked from 0.45 MHz to 30 MHz.
 - 2). V-A : One end & Ground ; V-B : The other end & Ground
 - 3). The symbol of '<' means 'or less'.
 - 4). The symbol of '>' means 'or greater'.
 - 5). The cable(2.0 m length) loss is included in the LISN factor.
 - 6). See sec.11.5.2 in ANSI C63.4-1992 for the symbol '*'
 - 7). A sample calculation was made at 0.45 MHz.

Lf + Mr = 0.2 + 39.4 = 39.6 dB/uV

Where,

Lf : LISN Factor Mr : Meter Reading



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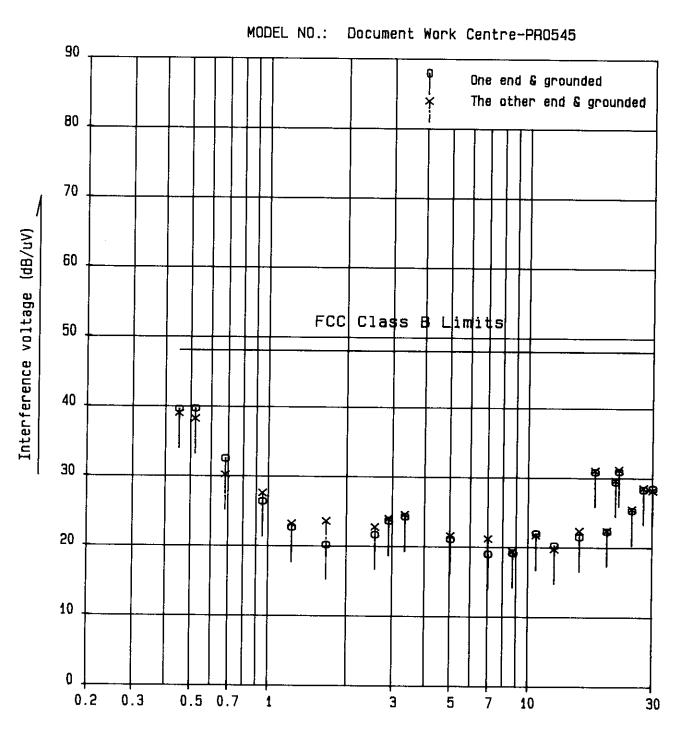
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AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT





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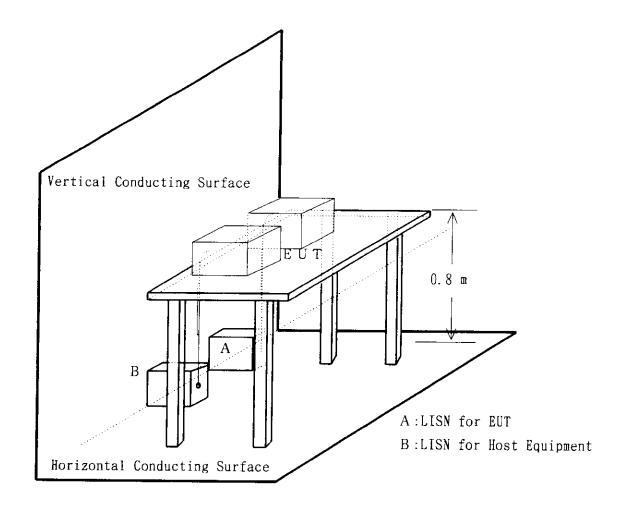
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TEST SET-UP SKETCH FOR AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT





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RADIATED EMISSIONS MEASUREMENT:

According to description of ANSI C63.4-1992 sec.8.3.1.1, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Frequency	Antenna Factor	Meter R	eading	Limits	Emissic at 3 m	on Levels	Marg	gins
(MHz)	(dB/m)	Horiz. (dB/uV)	Vert. (dB/uV)	(dB/uV/m)	Horiz.	Vert. (dB/uV/m)	Horiz. (dB)	Vert. (dB)
30.0 38.0 48.0 55.3 76.0	-0.5 1.6 3.8 5.1 8.2	19.8 18.6 24.2 19.7 20.0	28.2 27.0 24.1 25.4 18.1	40.0 40.0 40.0 40.0 40.0	19.3 20.2 28.0 24.8 28.2	27.7 28.6 27.9 30.5 26.3	20.7 19.8 12.0 15.2 11.8	12.3 11.4 12.1 9.5 13.7
96.0 120.0 137.7 150.0 176.0	10.5 12.7 14.1 15.0 16.7	20.9 16.4 21.3 22.8 13.3	14.9 15.3 24.8 21.1 16.5	43.5 43.5 43.5 43.5 43.5	$31.4 \\ 29.1 \\ 35.4 \\ 37.8 \\ 30.0$	25.4 28.0 38.9 36.1 33.2	12.1 14.4 8.1 5.7 13.5	18.1 15.5 4.6 7.4 10.3
200.0 228.0 240.0 288.0 320.0	$18.0 \\ 19.4 \\ 20.0 \\ 22.0 \\ 23.1$	20.0 16.9 15.0 15.8 9.6	14.4 13.0 11.4 12.0 10.5	43.5 46.0 46.0 46.0 46.0	38.0 36.3 35.0 37.8 32.7	32.4 32.4 31.4 34.0 33.6	$5.5 \\ 9.7 \\ 11.0 \\ 8.2 \\ 13.3$	11.1 13.6 14.6 12.0 12.4
384.1 400.0 432.1 480.0 504.1	25.2 25.6 26.5 27.7 28.3	8.5 12.7 8.9 1.0 6.2	$10.0 \\ 11.5 \\ 7.2 \\ 4.0 \\ 6.5$	46.0 46.0 46.0 46.0 46.0	33.7 38.3 35.4 28.7 34.5	35.2 37.1 33.7 31.7 34.8	12.3 7.7 10.6 17.3 11.5	$10.8 \\ 8.9 \\ 12.3 \\ 14.3 \\ 11.2$
600.0 768.1 856.1	$30.5 \\ 33.8 \\ 35.3$	5.2 $ 3.0 $ $ 4.0$	$10.7 \\ 4.4 \\ 6.1$	46.0 46.0 46.0	35.7 36.8 39.3	$\frac{41.2}{38.2}$ $\frac{41.4}{41.4}$	$ \begin{array}{c} 10.3 \\ 9.2 \\ 6.7 \end{array} $	$\frac{4.8}{7.8}$ $\frac{4.6}{4.6}$

Notes:

- 1). The spectrum was checked from 30 MHz to 1000 MHz.
- 2). The symbol of '<' means 'or less'.
- 3). The symbol of '>' means 'or greater'.
- 4). The cable(14.0 m length) loss is included in the antenna factor.
- 5). A sample calculation was made at 30.0~MHz. Af + Mr = -0.5 + 19.8 = 19.3~dB/uV/m

Where,

Af : Antenna Factor Mr : Meter Reading



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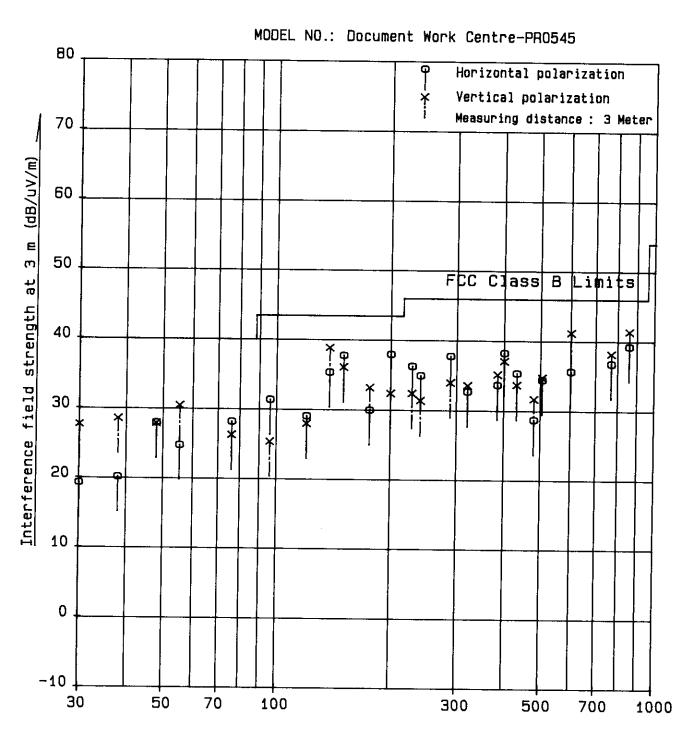
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RADIATED EMISSIONS MEASUREMENT



Interference frequency (MHz)



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RADIATED EMISSIONS MEASUREMENT:

According to description of ANSI C63.4-1992 sec.8.3.1.1, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Frequency	Antenna Factor	Meter Re at 3 m	eading	Limits	Emissio at 3 m	n Levels	Marg	ins
(MHz)	(dB/m)	Horiz. (dB/uV)	Vert. (dB/uV)	(dB/uV/m)	Horiz.	Vert. (dB/uV/m)	Horiz. (dB)	Vert. (dB)
30.0 38.0 48.0 55.3 76.0	-0.5 1.6 3.8 5.1 8.2	23.0 18.3 22.7 20.7 21.3	31.0 25.4 23.6 16.1 20.7	40.0 40.0 40.0 40.0 40.0	22.5 19.9 26.5 25.8 29.5	30.5 27.0 27.4 21.2 28.9	17.5 20.1 13.5 14.2 10.5	9.5 13.0 12.6 18.8 11.1
$\begin{array}{c} 96.0 \\ 120.0 \\ 137.7 \\ 147.4 \\ 175.1 \end{array}$	10.5 12.7 14.1 14.9 16.6	20.5 16.9 23.6 19.1 13.7	14.6 14.5 26.0 17.4 14.4	43.5 43.5 43.5 43.5 43.5	31.0 29.6 37.7 34.0 30.3	$25.1 \\ 27.2 \\ 40.1 \\ 32.3 \\ 31.0$	12.5 13.9 5.8 9.5 13.2	18.4 16.3 3.4 11.2 12.5
192.0 221.2 240.0 288.0 315.0	17.6 19.1 20.0 22.0 23.0	14.7 15.1 14.3 14.6 10.2	$15.1 \\ 11.5 \\ 10.4 \\ 10.7 \\ 7.0$	43.5 46.0 46.0 46.0 46.0	32.3 34.2 34.3 36.6 33.2	32.7 30.6 30.4 32.7 30.0	$11.2 \\ 11.8 \\ 11.7 \\ 9.4 \\ 12.8$	10.8 15.4 15.6 13.3 16.0
352.0 400.0 480.0 528.1 600.0	24.2 25.6 27.7 28.9 30.5	$4.0 \\ 11.4 \\ 1.5 \\ 4.5 \\ 7.7$	$7.8 \\ 10.8 \\ 3.0 \\ 4.9 \\ 11.4$	46.0 46.0 46.0 46.0 46.0	28.2 37.0 29.2 33.4 38.2	32.0 36.4 30.7 33.8 41.9	17.8 9.0 16.8 12.6 7.8	14.0 9.6 15.3 12.2 4.1
$\substack{736.1\\900.1}$	33.3 36.0 <	3.7	$\substack{2.8\\1.4}$	$\substack{46.0\\46.0}$	37.0 < 36.0	36.1 37.4 >	$\begin{smallmatrix} 9.0\\10.0\end{smallmatrix}$	$\frac{9.9}{8.6}$

- 1). The spectrum was checked from 30 MHz to 1000 MHz.
- 2). The symbol of '<' means 'or less'.
- 3). The symbol of '>' means 'or greater'.
- 4). The cable(14.0 m length) loss is included in the antenna factor.
- 5). A sample calculation was made at 30.0 MHz. $Af + Mr = -0.5 + 23.0 = 22.5 \, dB/uV/m$

Where,

Af : Antenna Factor Mr : Meter Reading



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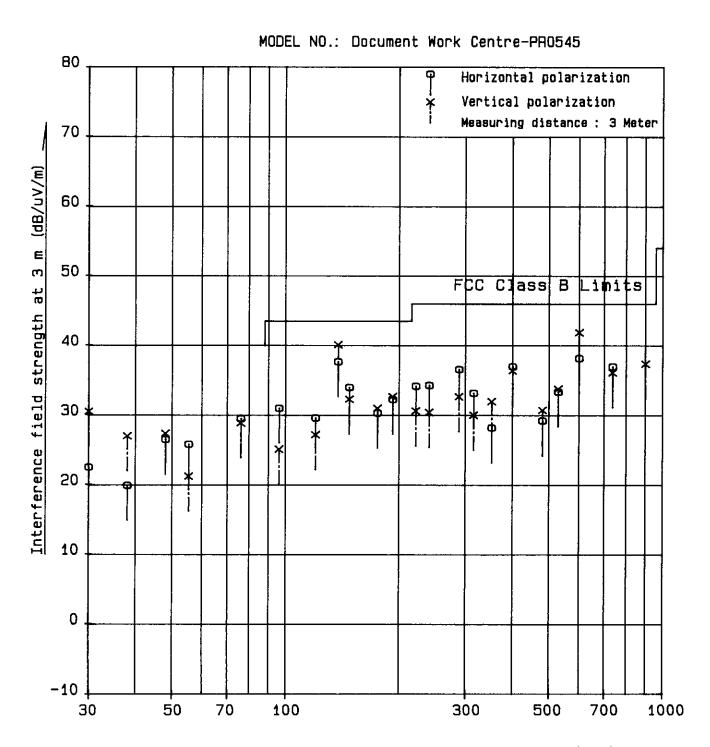
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RADIATED EMISSIONS MEASUREMENT





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RADIATED EMISSIONS MEASUREMENT:

According to description of ANSI C63.4-1992 sec.8.3.1.1, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Frequency	Antenna Factor	Meter Reading at 3 m		Limits	Emission Levels at 3 m		Margins	
(MHz)	(dB/m)	Horiz. (dB/uV)	Vert. (dB/uV)	(dB/uV/m)	Horiz. (dB/uV/m)	Vert. (dB/uV/m)	Horiz. (dB)	Vert. (dB)
30.0 38.0 48.0 55.3 76.0	-0.5 1.6 3.8 5.1 8.2	18.6 17.0 24.0 19.7 21.7	30.7 26.4 27.0 15.4 16.6	40.0 40.0 40.0 40.0 40.0	18.1 18.6 27.8 24.8 29.9	30.2 28.0 30.8 20.5 24.8	21.9 21.4 12.2 15.2 10.1	9.8 12.0 9.2 19.5 15.2
96.0 120.0 137.7 150.0 176.0	10.5 12.7 14.1 15.0 16.7	20.3 16.3 21.7 21.9 14.0	14.8 12.8 21.4 20.0 16.2	43.5 43.5 43.5 43.5 43.5	30.8 29.0 35.8 36.9 30.7	25.3 25.5 35.5 35.0 32.9	12.7 14.5 7.7 6.6 12.8	$18.2 \\ 18.0 \\ 8.0 \\ 8.5 \\ 10.6$
$200.0 \\ 228.0 \\ 240.0 \\ 288.0 \\ 320.0$	18.0 19.4 20.0 22.0 23.1	15.8 16.1 15.0 15.6 9.0	12.1 11.4 11.2 11.4 10.1	43.5 46.0 46.0 46.0 46.0	33.8 35.5 35.0 37.6 32.1	30.1 30.8 31.2 33.4 33.2	$9.7 \\ 10.5 \\ 11.0 \\ 8.4 \\ 13.9$	13.4 15.2 14.8 12.6 12.8
$384.1 \\ 400.0 \\ 480.0 \\ 504.1 \\ 600.0$	25.2 25.6 27.7 28.3 30.5	7.2 13.3 2.4 6.8 5.5	$9.8 \\ 11.1 \\ 3.6 \\ 7.4 \\ 10.2$	46.0 46.0 46.0 46.0 46.0	32.4 38.9 30.1 35.1 36.0	35.0 36.7 31.3 35.7 40.7	13.6 7.1 15.9 10.9	11.0 9.3 14.7 10.3 5.3
$\substack{768.1\\856.1}$	$\begin{array}{c} 33.8 \\ 35.3 \end{array}$	$\substack{2.8\\5.1}$	$\substack{4.1 \\ 5.8}$	46.0 46.0	$\begin{array}{c} 36.6 \\ 40.4 \end{array}$	$\begin{array}{c} 37.9 \\ 41.1 \end{array}$	$\begin{array}{c} 9.4 \\ 5.6 \end{array}$	$\substack{8.1\\4.9}$

- Notes: 1). The spectrum was checked from 30 MHz to 1000 MHz.
 - 2). The symbol of '<' means 'or less'.
 - 3). The symbol of '>' means 'or greater'.
 - 4). The cable (14.0 m length) loss is included in the antenna factor.
 - 5). A sample calculation was made at 30.0 MHz. $Af + Mr = -0.5 + 18.6 = 18.1 \, dB/uV/m$

Where,

Af: Antenna Factor Mr : Meter Reading



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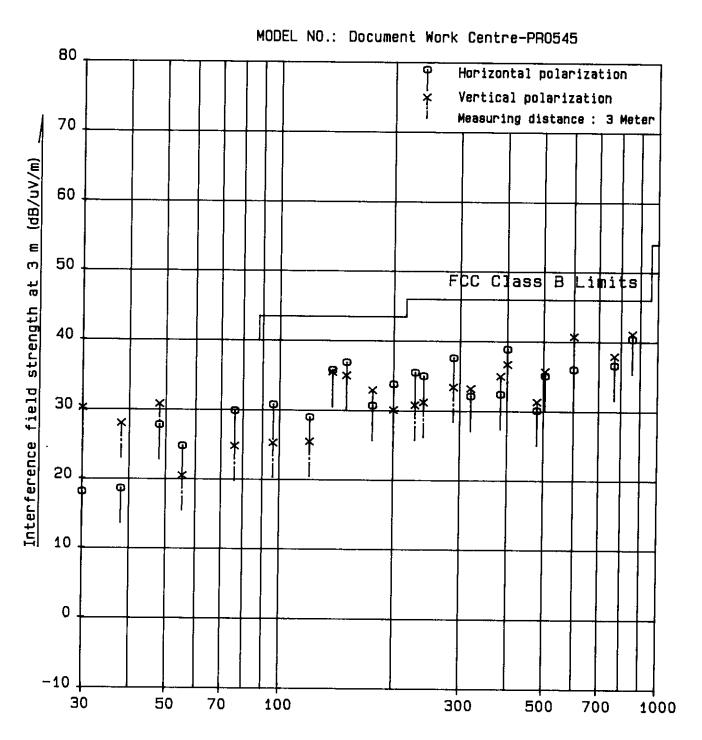
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RADIATED EMISSIONS MEASUREMENT





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RADIATED EMISSIONS MEASUREMENT:

According to description of ANSI C63.4-1992 sec.8.3.1.1, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Frequency	Antenna Factor	Meter Reading at 3 m		Limits	Emission Levels at 3 m		Margins	
(MHz)	(dB/m)	Horiz. (dB/uV)	Vert. (dB/uV)	(dB/uV/m)	Horiz. (dB/uV/m)	Vert. (dB/uV/m)	Horiz. (dB)	Vert. (dB)
30.0 38.0 48.0 55.3 76.0	-0.5 1.6 3.8 5.1 8.2	19.4 18.5 25.5 20.5 22.6	28.6 25.7 25.1 16.3 21.5	40.0 40.0 40.0 40.0 40.0	18.9 20.1 29.3 25.6 30.8	28.1 27.3 28.9 21.4 29.7	21.1 19.9 10.7 14.4 9.2	11.9 12.7 11.1 18.6 10.3
96.0 137.7 150.0 176.0 192.0	10.5 14.1 15.0 16.7 17.6	20.9 21.8 24.4 12.5 14.9	14.8 23.6 21.1 15.6 14.7	43.5 43.5 43.5 43.5 43.5	31.4 35.9 39.4 29.2 32.5	25.3 37.7 36.1 32.3 32.3	12.1 7.6 4.1 14.3 11.0	$18.2 \\ 5.8 \\ 7.4 \\ 11.2 \\ 11.2$
228.0 240.0 288.0 315.0 384.1	19.4 20.0 22.0 23.0 25.2	15.5 14.3 13.2 9.3 8.7	12.6 10.3 8.9 5.8 10.1	46.0 46.0 46.0 46.0 46.0	34.9 34.3 35.2 32.3 33.9	32.0 30.3 30.9 28.8 35.3	11.1 11.7 10.8 13.7 12.1	14.0 15.7 15.1 17.2 10.7
400.0 432.1 480.0 528.1 600.0	25.6 26.5 27.7 28.9 30.5	10.6 9.2 3.5 4.9 5.4	$10.9 \\ 8.5 \\ 4.3 \\ 5.2 \\ 11.7$	46.0 46.0 46.0 46.0 46.0	36.2 35.7 31.2 33.8 35.9	36.5 35.0 32.0 34.1 42.2	$9.8 \\ 10.3 \\ 14.8 \\ 12.2 \\ 10.1$	9.5 11.0 14.0 11.9 3.8
$736.1 \\ 856.1 \\ 900.1$	33.3 35.3 36.0	3.6 4.0 < 0.0	$\frac{3.5}{5.9}$	46.0 46.0 46.0	36.9 39.3 < 36.0	$\begin{array}{c} 36.8 \\ 41.2 \end{array}$	$9.1 \\ 6.7 \\ 10.0$	$9.2 \\ 4.8 \\ 9.0$

- Notes: 1). The spectrum was checked from 30 MHz to 1000 MHz.

 - 2). The symbol of '<' means 'or less'.3). The symbol of '>' means 'or greater'.
 - 4). The cable(14.0 m length) loss is included in the antenna factor.
 - 5). A sample calculation was made at 30.0 MHz. $Af + Mr = -0.5 + 19.4 = 18.9 \, dB/uV/m$

Where,

Af: Antenna Factor Mr : Meter Reading



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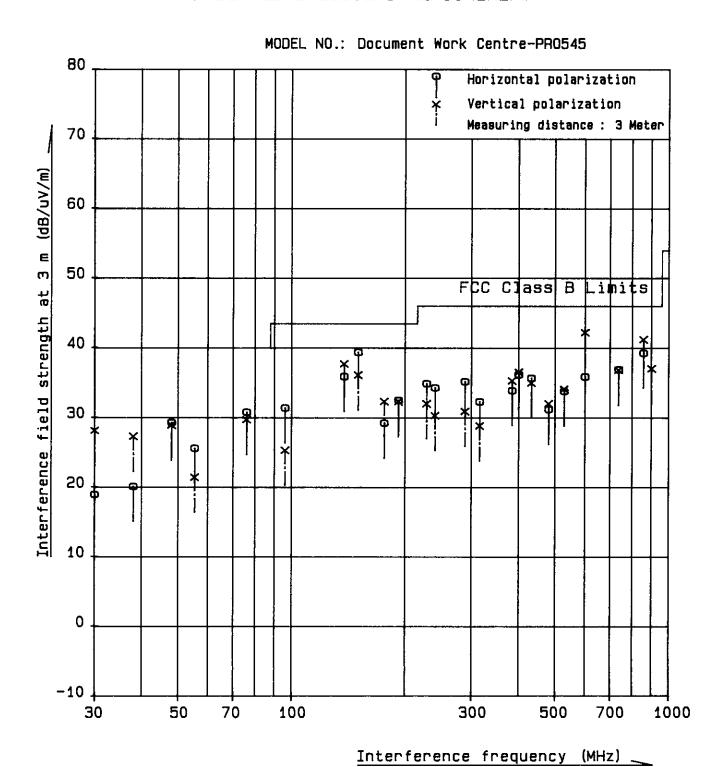
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RADIATED EMISSIONS MEASUREMENT





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RADIATED EMISSIONS MEASUREMENT:

According to description of ANSI C63.4-1992 sec.8.3.1.1, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Frequency	Antenna Factor	Meter Reading at 3 m		Limits	Emission Levels at 3 m		Margins	
(MHz)	(dB/m)	Horiz. (dB/uV)	Vert. (dB/uV)	(dB/uV/m)	Horiz. (dB/uV/m)	Vert. (dB/uV/m)	Horiz. (dB)	Vert. (dB)
30.0 38.0 48.0 55.3 76.0	-0.5 1.6 3.8 5.1 8.2	18.7 18.6 24.0 18.4 20.0	27.5 25.5 25.5 12.1 20.0	40.0 40.0 40.0 40.0 40.0	18.2 20.2 27.8 23.5 28.2	27.0 27.1 29.3 17.2 28.2	21.8 19.8 12.2 16.5 11.8	13.0 12.9 10.7 22.8 11.8
96.0 120.0 137.7 147.4 175.1	10.5 12.7 14.1 14.9 16.6	22.0 16.2 22.4 21.3 13.3	14.4 16.0 21.4 20.5 12.9	43.5 43.5 43.5 43.5 43.5	32.5 28.9 36.5 36.2 29.9	24.9 28.7 35.5 35.4 29.5	11.0 14.6 7.0 7.3 13.6	18.6 14.8 8.0 8.1 14.0
192.0 221.2 240.0 288.0 320.0	17.6 19.1 20.0 22.0 23.1	16.3 15.0 14.3 14.6 7.0	15.1 12.7 10.4 10.8 9.1	43.5 46.0 46.0 46.0 46.0	33.9 34.1 34.3 36.6 30.1	32.7 31.8 30.4 32.8 32.2	9.6 11.9 11.7 9.4 15.9	10.8 14.2 15.6 13.2 13.8
352.1 400.1 480.0 528.1 600.0	24.2 25.6 27.7 28.9 30.5	6.6 10.9 1.4 3.8 6.0	7.7 12.3 2.9 5.4 11.0	46.0 46.0 46.0 46.0 46.0	30.8 36.5 29.1 32.7 36.5	31.9 37.9 30.6 34.3 41.5	15.2 9.5 16.9 13.3 9.5	$14.1 \\ 8.1 \\ 15.4 \\ 11.7 \\ 4.5$
$\substack{736.1\\900.1}$	33.3 36.0 <	3.4	$\begin{smallmatrix}3.3\\1.2\end{smallmatrix}$	$\substack{46.0\\46.0}$	36.7 < 36.0	36.6 37.2 >	$\begin{smallmatrix}9.3\\10.0\end{smallmatrix}$	$\frac{9.4}{8.8}$

- 1). The spectrum was checked from 30 MHz to 1000 MHz.
- 2). The symbol of '<' means 'or less'.3). The symbol of '>' means 'or greater'.
- 4). The cable(14.0 m length) loss is included in the antenna factor.
- 5). A sample calculation was made at 30.0 MHz.

 $Af + Mr = -0.5 + 18.7 = 18.2 \, dB/uV/m$

Where.

Af : Antenna Factor Mr : Meter Reading



Model No.

: 80-71209

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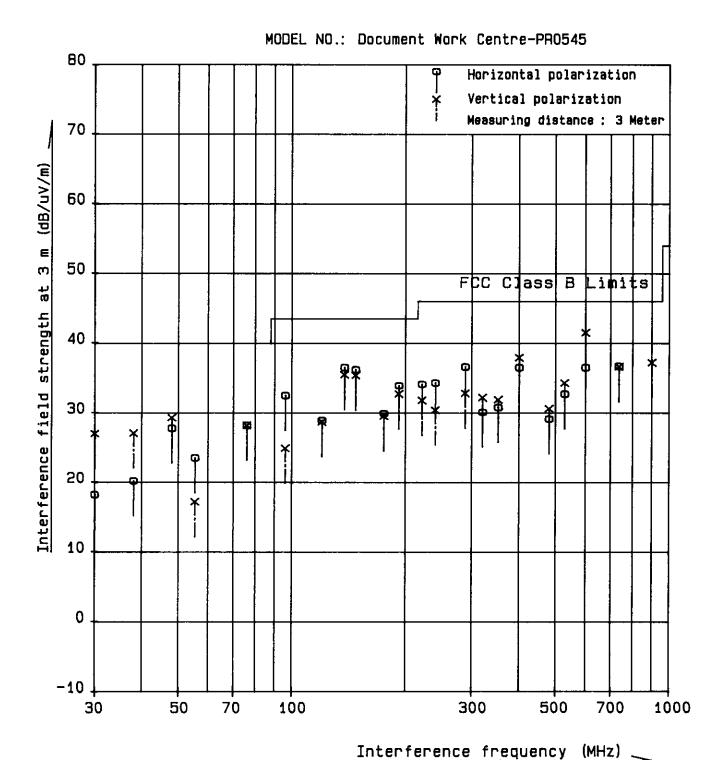
Standard

: FCC15 Sub. B

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[Scanning Mode]

RADIATED EMISSIONS MEASUREMENT





JQA Application No. : 80 71209

Model No.

FCC ID

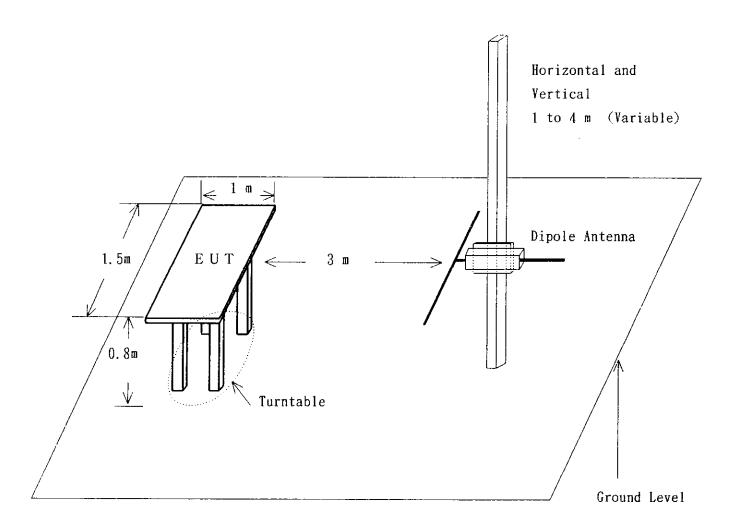
: Document Work Centre PRO545 Issue Date : March 23, 1998

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Standard : FCC15 Sub. B

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TEST SET-UP SKETCH FOR RADIATED EMISSIONS MEASUREMENT





: 80-71209

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Model No. FCC ID

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Test Instrumentation Used, AC Power Line Conducted Emissions Measurement:

Туре	Manufacturer Model No.	Serial No.	Last Cal.	Cal. Interval
Receiver(*)	Rohde & Schwarz ESH 2	880370/016	May 1997	1 year
LISN	Kyoritsu Electrical KNW 407	8 855 -2	Apr 1997	l year
Shield Enclouser	TDK Co., Ltd.	78	Sep 1997	l year
RF CABLE	Fujikura 3D-2W	155-21-005	May 1997	1 year

(*) Setting of measuring instrument:

a) Quasi Peak Mode

Detector Function: CISPR Quasi Peak

IF Bandwidth : 9 kHz (0.15 MHz 30 MHz)

b) Average Mode

Detector Function : Average

10 kHz (0.15 MHz - 30 MHz)



JQA Application No. : 80 71209

Model No.

Standard : FCC15 Sub. B

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Test Instrumentation Used, Radiated Emissions Measurement:

Type	Manufacturer Model No.	Serial No.	Last Cal.	Cal. Interval
Receiver(*)	Rohde & Schwarz ESVP	881487/005	May 1997	l year
Antenna	Kyoritsu Electrical KBA-511A	0-170-1	Nov 1997	1 year
Antenna	Kyoritsu Electrical KBA 611	0-147-14	Nov 1997	l year
Site	TDK Co., Ltd. Anechoic Chamber	NO. 2	May 1997	1 year
RF Cable	Fujikura 5D2W	155 21 001	May 1997	1 year

(*) Setting of measuring instrument:

Detector Function : CISPR Quasi-Peak

IF Bandwidth : 120 kHz (30 MHz + 1000 MHz)

EXHIBIT E

(FCC Ref. 2.1033(b)(7))

"Photographs"

FCC ID: BJIOH-98001 Marstech Report No. 98239D