

Matsushita Electric Industrial Co., Ltd. MODEL TX-D9S45NMB
FCC ID: ACJ93312141 & GSS19005

Date _____

MEASUREMENT/TECHNICAL REPORT

FCC PART 15, Class B (ANSI C63.4:1992)

Issued: August 5, 1999

Name and Address of:
the Client
Matsushita Electric Industrial Co., Ltd.
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Test Item:
19" CRT Display Monitor

Identification:
TX-D9S45NMB

Serial No.:
FP9420005

Sample No.:
1

Sample Receipt Date:
July 28, 1999

Test Result:
PASS

FCC ID: A0J933/2141
FCC ID: GSS14005

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July 29, 1999
Date

Reviewed by:

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August 5, 1999
Date

- Note:
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 2. The results in this report apply only to the sample tested.
 3. This test report is issued by private test house (Cosmos Corp.), therefore NVLAP or US government does not endorse a reliability of this report.
 4. All measurement data contained in this report may have uncertainty. A judgement for the limitation should be taken into the count.

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1. General Information

1.1 Product Description

Matsushita Electric Industrial Co., Ltd., Model TX-D9S45NMB
(referred to as the EUT in this report) is a 19" CRT Display Monitor.

Clock and power supply switching frequencies are as following;

PARTS	ADDRESS	FUNDAMENTAL FREQUENCY
Crystal Oscillator	X101	10 MHz

We chose and measured TX-D9S45NMB as representative model in family machines because it was the same circuit construction and performance as them. This report and FCC ID ACJ93312141 covers the family machine which is TX-D9S45MB and FCC ID GSS19005 covers the family machine which is VCDTS21476-1*.

1.1.1 Rating

Input Voltage:	AC 100 – 240 V	(AC 120 V)*1
Frequency:	50 / 60 Hz	(60 Hz)*1
Input Current:	2.7 A	(1.2 A)*1

Note: *1 is measured value during test.

1.2 Related Submittal Grant

Original FCC ID : ACJ93312141.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:1992. Radiated testing was performed at an antenna to EUT distance of 10 meters. Final Result was converted in 3m, using $20 \log 10m / 3m$.

1.4 Test Facility

The open area test site, Cosmos EMC Lab., and conducted measurement facility used to the radiated data is located at 543 Shimesasu, Watarai-cho, Watarai-gun, Mie-ken, 516-2119, Japan. This site has been fully described in a report dated May 23, 1996 submitted to FCC, and accepted in a letter dated July 10, 1996 (31040/SIT 1300F2). The listing letter has updated on July 2, 1999.

1. General Information (Continued)

1.5 Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system(including inserted cards, which have grants) are:

Model No.	Serial No.	FCC ID	Description	Cable Description
TX-D9S45NMB	FP9420005	ACJ93312141	EUT	AC Power Cord 1.8m Unshielded Monitor Cable 1.8m Shielded <i>4/2 FERRITE COILS</i>
D4553A	SG-71403712	Doc	Personal Computer	AC Power Cord 2.0m Unshielded
RT6656TWJP	80660864	AQ6-MTN4C15	Keyboard	Keyboard Cable 2.2m Shielded
M-S34	LZA70972048	DZL211029	Mouse	Mouse Cable 1.8m Shielded
C4565A	SG-73I140TZ	B94C4555X	Printer	AC Power Cord 1.8m Unshielded Printer Cable 3.0m Shielded
C202A	010808	BKM552C202A	Modem	Modem Cable 1.0m Shielded
PAC70-2.5	1390048	N / A	Regulated DC Power Supply	AC Power Cord 2.0m Unshielded DC Power Cord 1.0m Unshielded

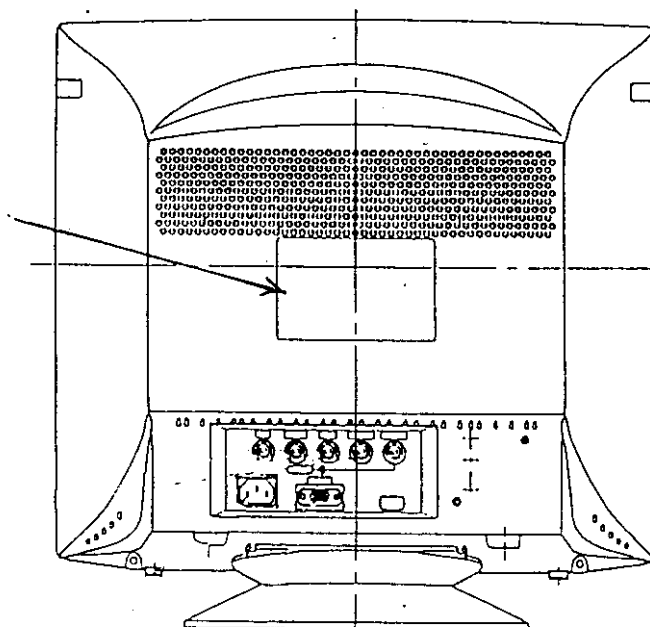
2. Product Labeling

Figure 2.1 FCC ID Label

FCC ID: ACJ93312141 Model No. TX-D9S45NMB		    	
AC 100 - 240 V ~ 50/60 Hz 2.7 A Matsushita Electric Industrial Co., Ltd. 1006, Kadoma, Osaka, Japan Made In Japan/Fabrique au Japon		     	
CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.	
PRODUCT COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE. MANUFACTURED DATE: JUNE 1999 PART: 19H12H CHASSIS FAMILY No. OF CHASSIS 19H12H SERIAL No. No. DE SERIE FX93312141		THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS. CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA.	
		DIE IN DIESEM GERAT ERZEUGTEN RONTGENSTRAHLEN WERDEN DURCH EINE EIGENSICHERE KATHODENSTRAHLROHRE AUSREICHEND ABGESCHIRMT. BESCHLEUNIGUNGSSPANNUNG MAX. 27.5 kV STRAHLESTROM 1.3 mA.	
		Label No. TBH0111	

Figure 2.2 Location of Label on EUT

* Label



3. System Test Configuration

3.1 Justification

EUT was measured by max radiation mode user specified.

3.2 EUT Exercise Software

EUT did not use exercise program during radiated and conducted testing.

3.3 Special Accessories

This cable model and part numbers are instructed with their instruction manual.

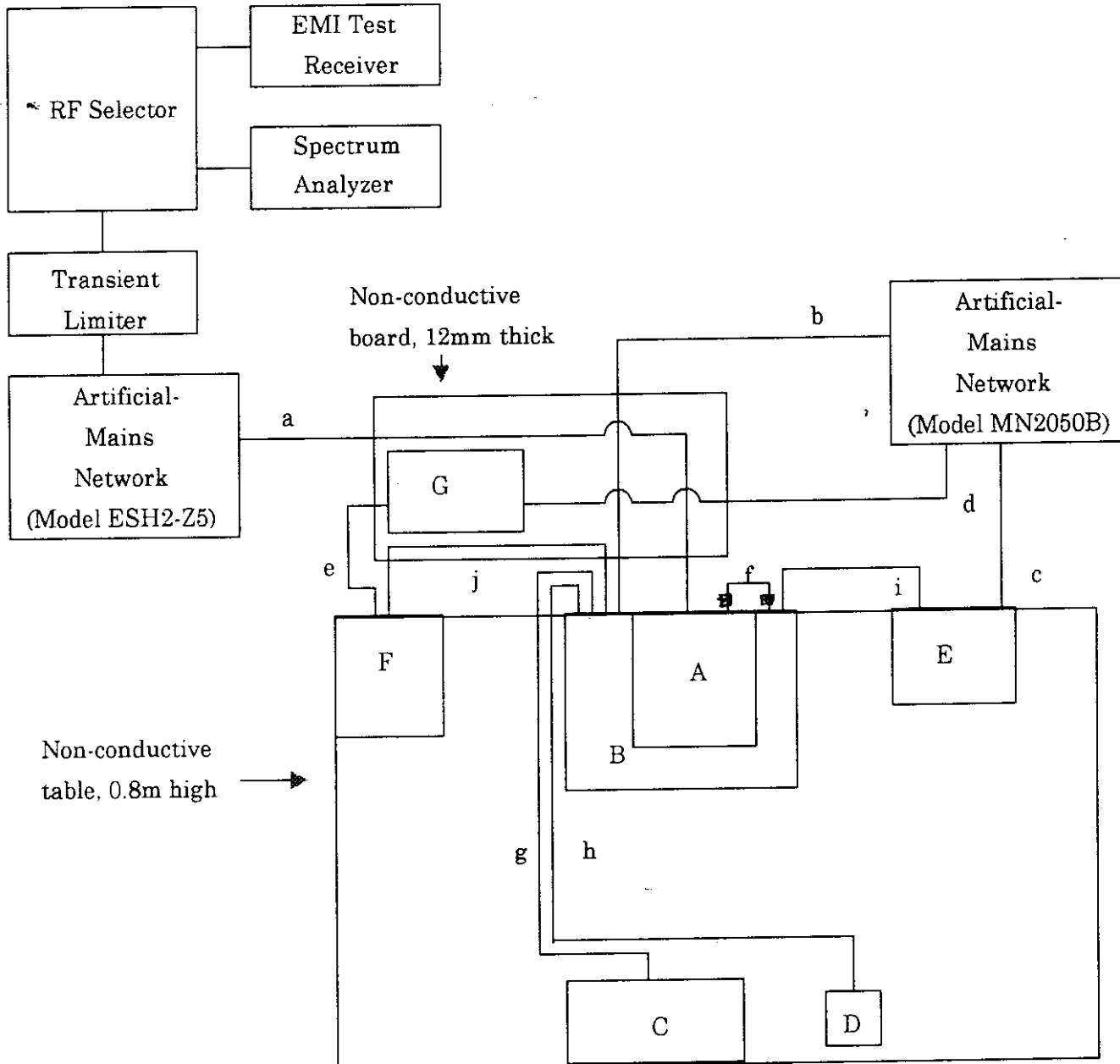
3.4 Equipment Modifications

No equipment modification to achieve compliance to Class B levels was done during test.

3. System Test Configuration (Continued)

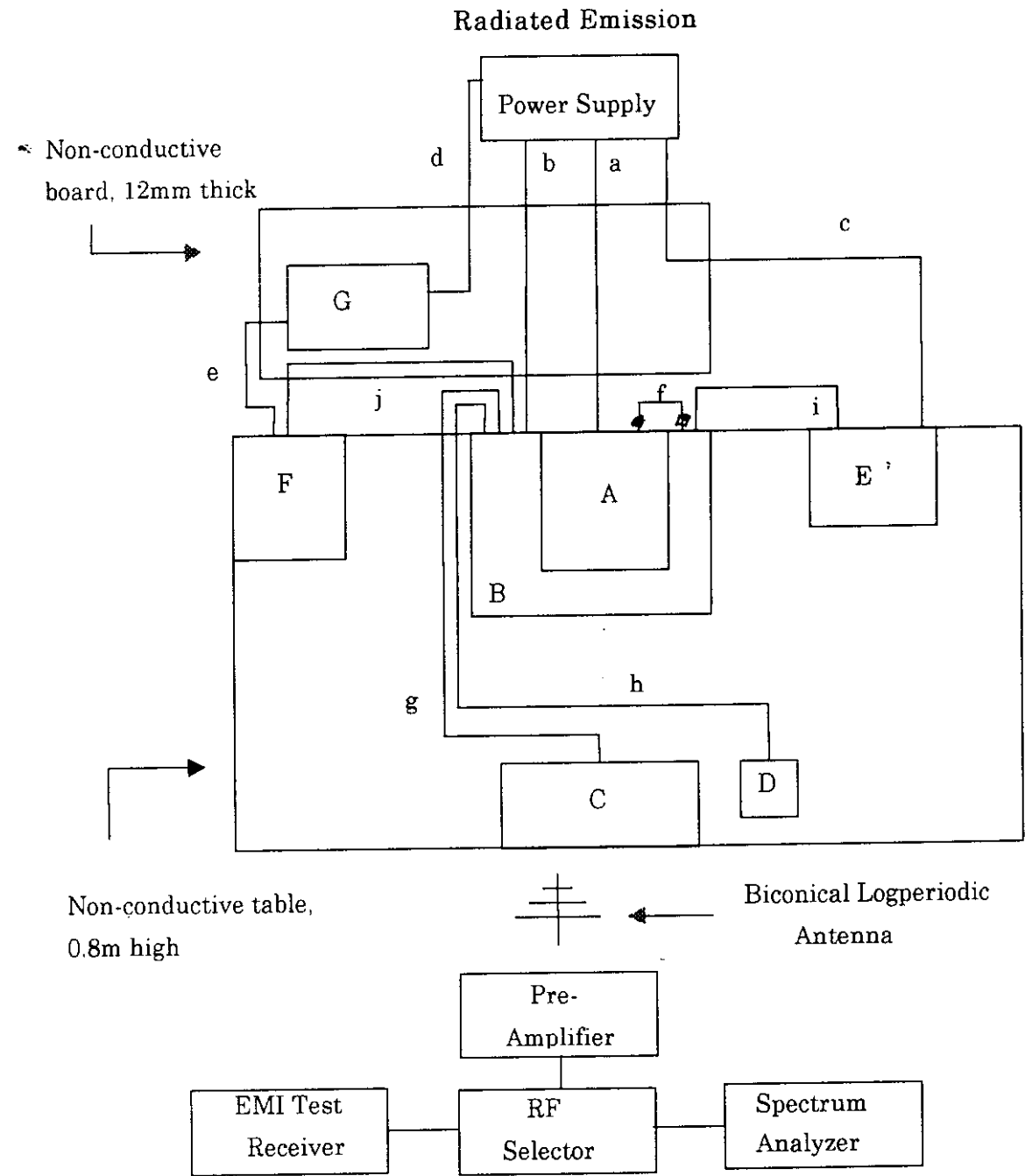
3.5 Configuration of Tested System (Continued)

Conducted Emission



3. System Test Configuration (Continued)

3.5 Configuration of Tested System (Continued)



3. System Test Configuration (Continued)

3.5 Configuration of Tested System (Continued)

Independent modes of operation are:

- A) Continuous Operating (Resolution: 1600 × 1200 "H" Pattern)
- B) Continuous Operating (Resolution: 640 × 480 "H" Pattern)

Conducted Emission

- 1) EUT was put on Personal Computer.
- 2) Personal Computer, Keyboard, Mouse, Printer and Modem were put on the Non-conductive table.
- 3) Regulated DC Power Supply was put on the Non-conductive board.
- 4) Personal Computer and Printer located at 0.1m intervals.
- 5) Personal Computer and Modem located at 0.1m intervals.
- 6) Keyboard and Mouse located at 0.1m intervals.
- 7) EUT was connected to Artificial-Mains Network (Model ESH2-Z5) with the AC Power Cord. The Excess Cord was folded back and forth forming a bundle 0.35m length at the center of the Cord.
- 8) Personal Computer was connected to Artificial-Mains Network (Model MN2050B) with the AC Power Cord. The Excess Cord was folded back and forth forming a bundle 0.35m length at the center of the Cord.
- 9) Printer was connected to Artificial-Mains Network (Model MN2050B) with the AC Power Cord.
- 10) Regulated DC Power Supply was connected to Artificial-Mains Network (Model MN2050B) with the AC Power Cord. The Excess Cord was folded back and forth forming a bundle 0.3m length at the center of the Cord.
- 11) Modem was connected to Regulated DC Power Supply with the DC Power Cord.
- 12) EUT was connected to Personal Computer with the Monitor Cable. The Excess Cable was folded back and forth forming a bundle 0.4m length at the center of the Cable and hung in the middle between ground and table.
- 13) Personal Computer was connected to Printer with the Printer Cable. The Excess Cable was folded back and forth forming a bundle 0.35m length at the center of the Cable and hung in the middle between ground and table.
- 14) Personal Computer was connected to Modem with the Modem Cable.
- 15) Personal Computer was connected to Keyboard with the Keyboard Cable.
- 16) Personal Computer was connected to Mouse with the Mouse Cable.

3. System Test Configuration (Continued)

3.5 Configuration of Tested System (Continued)

Radiated Emission

- 1) EUT was put on Personal Computer.
- 2) Personal Computer, Keyboard, Mouse, Printer and Modem were put on the Non-conductive table.
- 3) Regulated DC Power Supply was put on the Non-conductive board.
- 4) Personal Computer and Printer located at 0.1m intervals.
- 5) Personal Computer and Modem located at 0.1m intervals.
- 6) Keyboard and Mouse located at 0.1m intervals.
- 7) EUT was connected to Power Supply with the AC Power Cord. The Excess Cord was folded back and forth forming a bundle 0.35m length at the center of the Cord.
- 8) Personal Computer was connected to Power Supply with the AC Power Cord. The Excess Cord was folded back and forth forming a bundle 0.35m length at the center of the Cord.
- 9) Printer was connected Power Supply with the AC Power Cord.
- 10) Regulated DC Power Supply was connected to Power Supply with the AC Power Cord. The Excess Cord was folded back and forth forming a bundle 0.3m length at the center of the Cord.
- 11) Modem was connected to Regulated DC Power Supply with the DC Power Cord.
- 12) EUT was connected to Personal Computer with the Monitor Cable. The Excess Cable was folded back and forth forming a bundle 0.4m length at the center of the Cable and hung in the middle between ground and table.
- 13) Personal Computer was connected to Printer with the Printer Cable. The Excess Cable was folded back and forth forming a bundle 0.35m length at the center of the Cable and hung in the middle between ground and table.
- 14) Personal Computer was connected to Modem with the Modem Cable.
- 15) Personal Computer was connected to Keyboard with the Keyboard Cable.
- 16) Personal Computer was connected to Mouse with the Mouse Cable.

	Instrument		Cord / Cable
A)	EUT	a)	AC Power Cord 1.8m Unshielded
B)	Personal Computer	b)	AC Power Cord 2.0m Unshielded
C)	Keyboard	c)	AC Power Cord 1.8m Unshielded
D)	Mouse	d)	AC Power Cord 2.0m Unshielded
E)	Printer	e)	DC Power Cord 1.0m Unshielded
F)	Modem	f)	Monitor Cable 1.8m Shielded <i>4/2 Ferri-te Cores</i>
G)	Regulated DC Power Supply	g)	Keyboaed Cable 2.2m Shielded
		h)	Mouse Cable 1.8m Shielded
		i)	Printer Cable 3.0m Shielded
		k)	Modem Cable 1.0m Shielded

5. Conducted Emission Data

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

The measurement was conducted for the resolution 640×480 and 1600×1200 .

The Monitor Cable was conducted in D-Sub = D-Sub 1.5m length or D-Sub = D-Sub 1.8m length

Following was the worst condition:

B) Continuous Operating (Resolution: 640×480 "H" Pattern)

Dot Clock Frequency : 25.17 MHz
Vertical Frequency : 60 Hz
Horizontal Frequency : 31.5kHz
Monitor Cable : D-Sub = D-Sub 1.8m length

	Frequency (MHz)	Measured * (dB μ V)	Limit (dB μ V)
Neutral Line	0.45283	28.7	48.0
Neutral Line	0.50002	25.3	48.0
Neutral Line	0.60335	35.8	48.0
Neutral Line	0.90169	31.9	48.0
Neutral Line	1.30682	28.9	48.0
Neutral Line	1.80879	28.6	48.0
L Line	0.45081	28.0	48.0
L Line	0.60208	33.0	48.0
L Line	0.90345	28.8	48.0
L Line	1.05486	27.3	48.0
L Line	17.89525	24.6	48.0
L Line	18.19691	23.3	48.0

* All readings are quasi-peak unless stated otherwise.

For more detailed test results, refer to Attachment, EMI Test Data.

Uncertainty of measurement result: ± 2.26 dB

Environment:

Temperature 33 °C Humidity 62 %

Tested Personnel:

Tester Signature : K. Hasegawa Date of Testing : July 29, 1999

Typed/Printed Name : Kouhei Hasegawa

6. Radiated Emission Data

The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, plus the limit. Explanation of the Correction Factor is given in paragraph.

The measurement was conducted for the resolution 640×480 and 1600×1200 .

The Monitor Cable was conducted in D-Sub = D-Sub 1.5m length or D-Sub = D-Sub 1.8m length

Following was the worst condition:

A) Continuous Operating (Resolution 1600×1200 "H" Pattern)

Dot Clock Frequency : 202.5 MHz

Vertical Frequency : 75 Hz

Horizontal Frequency : 94 kHz

Monitor Cable : D-Sub = D-Sub 1.8m length

Frequency (MHz)	Polarity (H/V)	Receiver * Reading (dB μ V)	Correction Factor (dB/m)	Corrected Reading (dB μ V/m)	3 Meter Limit (dB μ V/m)
385.061	Horizontal	52.9	-11.0	41.9	46.0
54.961	Vertical	49.8	-23.0	26.8	40.0
165.054	Vertical	45.7	-18.2	27.5	43.5
220.092	Vertical	48.5	-18.5	30.0	46.0
269.988	Vertical	49.6	-14.3	35.3	46.0
330.011	Vertical	46.8	-12.5	34.3	46.0

*All readings are quasi-peak unless stated otherwise, with an IF bandwidth of 120 kHz, along with an 1 S sweep time. A video filter was not used.

For more detailed test results, refer to Attachment, EMI Test Data.

Uncertainty of measurement result: ± 3.234 dB

Environment:

Temperature 30 °C

Humidity 62 %

Tested Personnel:

Tester Signature : X. Hasegawa

Date of Testing : July 29, 1999

Typed/Printed Name : Kouhei Hasegawa

6. Radiated Emission Data (Continued)

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading.

The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

AG = Amplifier Gain

Assume a receiver reading of 52.5 dBuV is obtained. The Antenna Factor of 7.4 and a Cable Factor of 1.1 is added. The Amplifier Gain of 29 dB is subtracted, giving a field strength of 32 dBuV/m. The 32 dBuV/m value was mathematically converted to its corresponding level in uV/m.

$$FS = 52.5 + 7.4 + 1.1 - 29 = 32 \text{ dBuV/m}$$

$$\text{Level in uV/m} = \text{Common Antilogarithm} [(32 \text{ dBuV/m})/20] = 39.8 \text{ uV/m}$$

7. List of Test and Measurement Instruments**Conducted Emission**

Manufacturer	Instruments	Model / Type	Serial No.	Calibration Date Next Calibration
ROHDE & SCHWARZ	Spectrum Analyzer	FSB / DISPLAY	838497/005 / 838301/009	May, 1999 May, 2000
ROHDE & SCHWARZ	EMI Test Receiver	ESHS10	842121/012	May, 1999 May, 2000
ROHDE & SCHWARZ	Artificial-Mains Network	ESH2-Z5	842210/010	May, 1999 May, 2000
CHASE ELECTRONICS LIMITED	Artificial-Mains Network	MN2050B	1140	May, 1999 May, 2000

Radiated Emission

Manufacturer	Instruments	Model / Type	Serial No.	Calibration Date Next Calibration
ROHDE & SCHWARZ	Spectrum Analyzer	FSB / DISPLAY	838497/005 / 838301/009	May, 1999 May, 2000
ROHDE & SCHWARZ	EMI Test Receiver	ESVS10	842122/014	May, 1999 May, 2000
CHASE ELECTRONICS LIMITED	Pre-Amplifier	CPA9231	3045	February, 1999 February, 2000
SCHAFFNER CHASE EMC LTD.	Biconical Logperiodic Antenna	CBL6111C	2531	April, 1999 April, 2000

Attachment

- Schematic Diagram for Model TX-D9S45NMB: Page 23.

- EMI Test Data

I) Total 7 pages: Page 24 to 30.

Conducted Emission: Page 24 to 27.

Final result: Page 24, 26.

Pre Check: Page 25, 27.

Radiated Emission: Page 28 to 30.

Final result: Page 28.

Pre Check: Page 29, 30.

II) Calculation:

Result = Reading + c.f.

Margin = Limit - Result

- User Manual

Model : TX-D9S45NMB
Serial No. : FP9420005
Standard : FCC Part 15 Class B
Condition File : FCC-B
Remark : Operated ("H" Pattern)
: 640 X 480
: fH: 31.5 kHz, fV: 60.0 Hz
: D-Sub=BNC Cable 1.8m
AC Power : 120 V 60 Hz
Temperature : 33 deg.
Humidity : 62 %
Operator : K.Hasegawa

----- Results -----

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV]	Limit [dBuV]	Margin [dB]
Phase N						
1	0.45657	12.9	10.7	23.6	48.0	24.4
2	0.50875	15.9	10.7	26.6	48.0	21.4
3	0.66508	12.2	10.9	23.1	48.0	24.9
4	20.72218	15.2	12.7	27.9	48.0	20.1
5	21.13062	28.7	12.6	41.3	48.0	6.7
6	28.63878	22.3	13.3	35.6	48.0	12.4

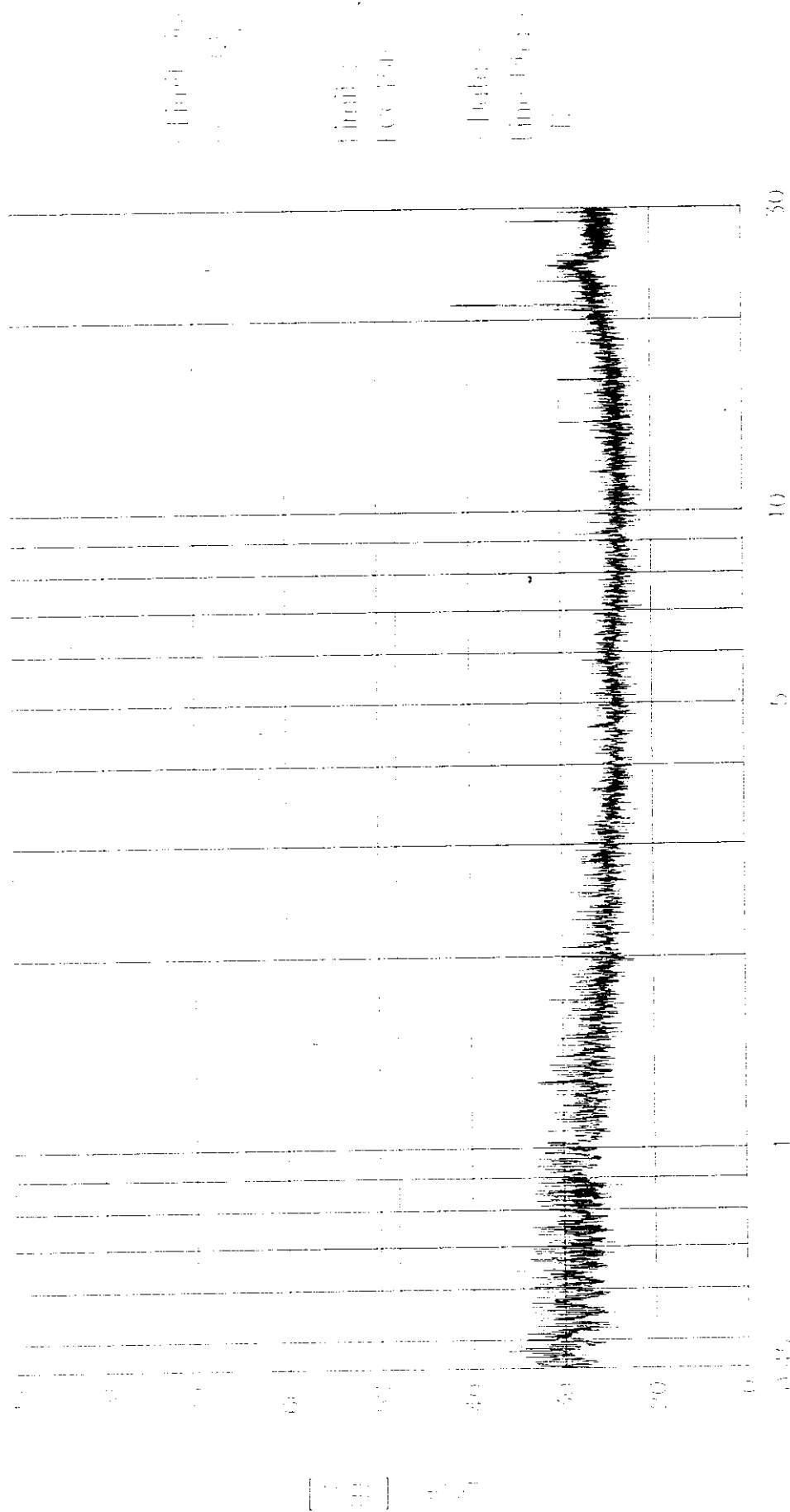
Date/Time: 20 July 1998 14:30

Conducted Emission: 100

Standard: IEC Part 13 Annex 13
Operation: 100Hz/100V

Model: C-100-1000000
Type: 100Hz/100V
Material: 100Hz/100V

100Hz/100V, 100Hz/100V
100Hz/100V, 100Hz/100V



***** Cosmos Corp. *****

<<< Conducted Emission >>>

29 July, 1999 14:41
Page 1

Model : TX-D9S45NMB
Serial No. : FP9420005
Standard : FCC Part 15 Class B
Condition File : FCC-B
Remark : Operated ("H" Pattern)
 : 640 X 480
 : fH: 31.5 kHz, fV: 60.0 Hz
 : D-Sub=BNC Cable 1.8m
AC Power : 120 V 60 Hz
Temperature : 33 deg.
Humidity : 62 %
Operator : K.Hasegawa

----- Results -----

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV]	Limit [dBuV]	Margin [dB]
Phase L1						
1	0.46418	12.3	10.7	23.0	48.0	25.0
2	0.50692	16.5	10.7	27.2	48.0	20.8
3	20.72287	15.0	12.7	27.7	48.0	20.3
4	21.13171	27.8	12.6	40.4	48.0	7.6
5	24.22448	13.4	13.1	26.5	48.0	21.5
6	28.63617	20.8	13.3	34.1	48.0	13.9

Location: [redacted] Date/Time: 29 July 2014

1000 Hz

Model: [redacted]

Serial No.: [redacted]

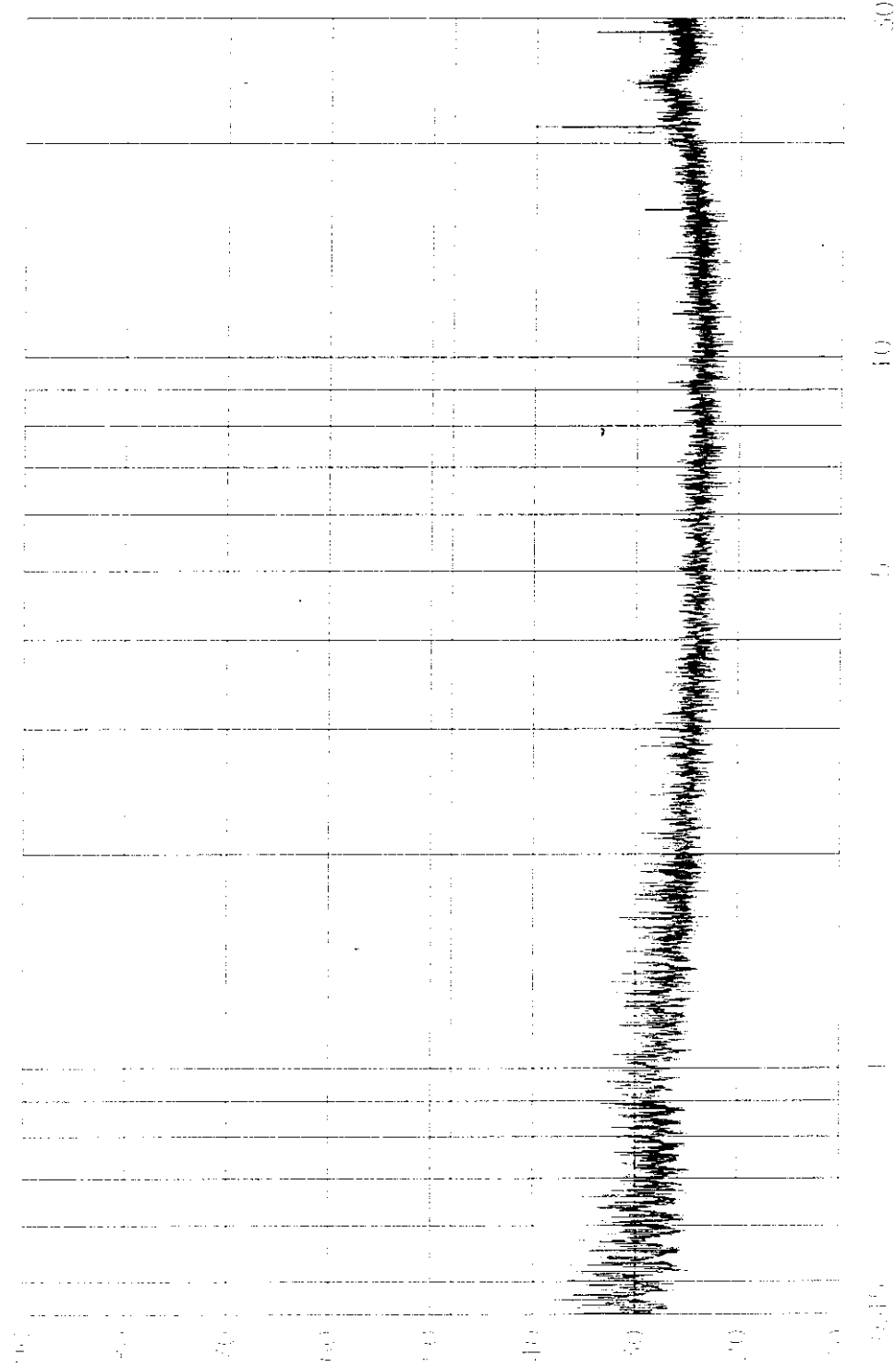
Frequency: 1000 Hz

Standard: FCC Part 15 Class B

Operator: [redacted]

1000 Hz, 1000 Hz

1000 Hz, 1000 Hz



[redacted]

1000 Hz

1000 Hz

1000 Hz

1000 Hz

1000 Hz

1000 Hz

Model : TX-D9S45NMB
 Serial No. : FP9420005
 Standard : FCC Part 15 Class B 10m
 Condition File : 10(m)
 Condition : Operated ("H" Pattern)
 Remarks : 1600 X 1200

: fH: 93.8 kHz, fV: 75.0 Hz
 : D-Sub=BNC Cable 1.8m

AC Power : 120 V 60 Hz

Temperature : 30 deg.

Humidity : 62 %

Operator : K.Hasegawa

----- Final Result -----

QP

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	202.789	34.8	-18.9	15.9	33.5	17.6
2	374.446	29.1	-11.4	17.7	36.0	18.3
3	421.249	30.4	-9.7	20.7	36.0	15.3
4	468.068	28.9	-8.6	20.3	36.0	15.7

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
5	234.010	39.3	-17.0	22.3	36.0	13.7
6	265.218	34.8	-14.4	20.4	36.0	15.6

[illegible]

Co-Editorial Friction 25

[illegible]

Figure 1 illustrates the experimental setup. A subject is seated at a table, viewing a video screen. A camera is positioned above the screen. A horizontal bar is placed on the table, with a vertical rod passing through its center. The rod is connected to a motor unit, which is further connected to a power source. The motor unit is labeled 'MOTOR UNIT' and the power source is labeled 'POWER SOURCE'. The video screen displays the visual feedback, showing the position of the rod and the bar. The subject's hand is positioned near the bar, and they are instructed to move the bar towards the video screen.

[illegible]

The diagram illustrates the experimental setup. A participant is seated at a table, looking at a video screen. A camera is positioned above the screen. A target is placed on the table. A horizontal arrow indicates the direction of movement. A vertical arrow indicates the direction of the video feedback. A horizontal arrow indicates the direction of the video feedback. A vertical arrow indicates the direction of the video feedback. A horizontal arrow indicates the direction of the video feedback. A vertical arrow indicates the direction of the video feedback.

Figure 1 is a schematic representation of the experimental design. It shows a flow from 'Study 1' to 'Study 2'. Study 1 involves 'Pretest' and 'Main Study'. Study 2 involves 'Pretest' and 'Main Study'. The 'Main Study' in Study 2 is further divided into 'Control' and 'Intervention' groups. The 'Intervention' group is further divided into 'Intervention 1' and 'Intervention 2'.

a

b

c

d

e

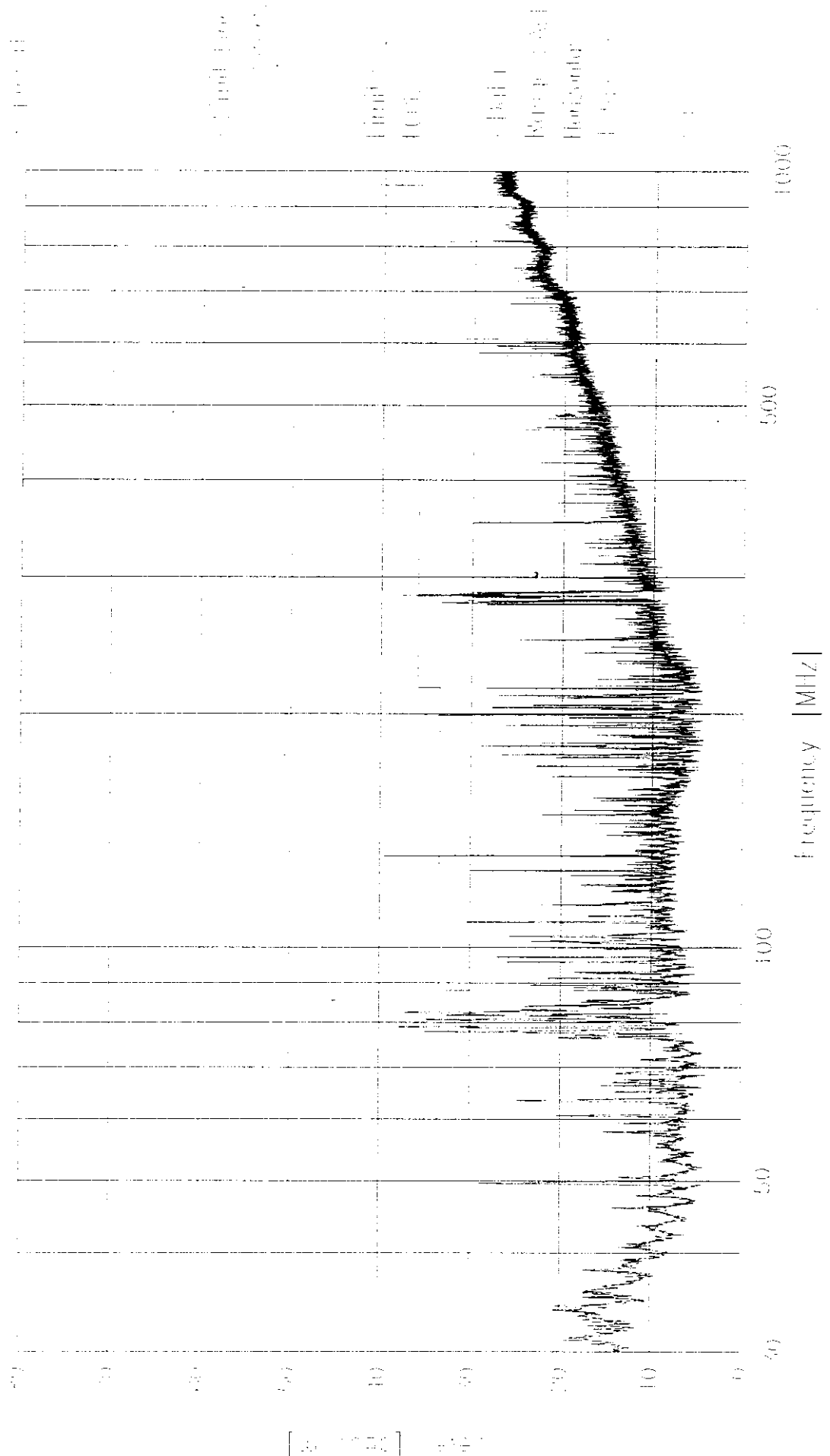
f

g

h

i

j

[illegible]

Company: Corp.

Product: Polished Function Sys

Date/Time: 09 July 1999 11:01

100.0 dBm

Model: 100.0 dBm

Power: 100.0 dBm

Frequency: 100.0 MHz

Standard: 100 Part Polished 100m

Operator: 1000000000

RF: 100.0 dBm, 100.0 Hz

Power: 100.0 dBm, 100.0 Hz

50

100

150

200

250

300

350

400

450

500

550

600

650

700

750

800

850

900

950

1000

1050

1100

1150

1200

1250

1300

1350

1400

1450

1500

1550

1600

1650

1700

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6550

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6700

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