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FCC ID : AK8SLV779HF

TEST REPORT
FOR TV INTERFACE DEVICES UNDER FCC PART 15

Date : February 10, 1999
Issued at : TOKYO, JAPAN

JQA APPLICATION NO. : 80-80912
APPLICANT : Sony Kisarazu Corporation
8-4, Shiomi, Kisarazu-shi, Chiba-ken, 292-0834 JAPAN
MANUFACTURER : Sony Corporation
7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo, 141-0001 JAPAN
TYPE OF EQUIPMENT : Video Cassette Recorder
REGULATION APPLIED : FCC Rules and Regulations Part 15 Subpart B (1989)
MEASUREMENT PROCEDURES USED : ANSI C63.4-1992
PLACE OF MEASUREMENT : JQA EMC Engineering Department (Anechoic Chamber No.3)

Test Facility : This test site and conducted measurement facility have been fully described in report dated May 14, 1996 submitted to FCC office, and accepted in a letter dated June 7, 1996 (31040/SIT).

The test results are only applicable to the test item as described below.
This report should not be reproduced, except in full, without the approval of the JQA EMC Engineering Department.

Takaharu Hada, Manager
Testing Division
EMC Engineering Department



Model No. : SLV-779HF

Serial No. : None

Table of Contents

	Page
1. Description of Equipment Under Test (EUT)	3
2. Test Condition of EUT	3
3. All Terminals of EUT	4
4. Type of Connected Cables	5
5. Testing Signal Sources	5
6. Configuration of EUT	5
7. Summary of Measurement Result	6
8. §15.107(a) AC Powerline Conducted Emissions Measurement	7
9. §15.109(a) Radiated Emissions Measurement	17
10. §15.115(b)(1)(ii) Output Signal Level Measurement	27
11. §15.115(b)(2)(ii) Spurious Conducted Level Measurement	31
12. §15.115(c)(1)(ii) Antenna Transfer Switch Measurement	45
13. Test Equipment Used	48

Model No. : SLV-779HF

Serial No. : None

1. Description of EUT

- 1.1) Type of Device : TV Interface Device
- 1.2) Equipment Authorization : Certification
- 1.3) FCC ID : AK8SLV779HF
- 1.4) Brand Name : SONY
- 1.5) Model No. : SLV-779HF
- 1.6) Serial No. : None
- 1.7) Date of Manufacture : -
- 1.8) Highest Frequency Used : 67.25 MHz
- 1.9) Rating Power Supply : AC 120 V, 60 Hz
- 1.10) RF Output Channels : Channel No. 3 and Channel No. 4
- 1.11) RF Output Terminal : F-type Connector / 75 ohms (Unbalanced)

2. Test Condition of EUT

- 2.1) Operating Condition : Playback Mode / Recording Mode
- 2.2) Grounding : None
- 2.3) Warm-up Time : 5 minutes
- 2.4) Power Supply : AC 120 V, 60 Hz

Model No. : SLV-779HF

Serial No. : None

3. All Terminals of EUT

3.1) Input Terminals

	<u>Description of Terminal</u>	<u>Type of Connector</u>	<u>Number of Terminals</u>
Rear Side :	RF Terminal	F-type Connector	1
	Audio Terminal	Phono Jack	2
	Video Terminal	Phono Jack	1
Front Side :	Audio Terminal	Phono Jack	2
	Video Terminal	Phono Jack	1

Note: Each input terminals of EUT were terminated with the terminator of specified impedances.

3.2) Output Terminals

	<u>Description of Terminal</u>	<u>Type of Connector</u>	<u>Number of Terminals</u>
Rear Side :	RF Terminal	F-type Connector	1
	Audio Terminal	Phono Jack	2
	Video Terminal	Phono Jack	1
	CONTROL S Terminal	Stereo Mini Jack	1
Front Side :	None		

Note: Each output terminals of EUT were connected to the cable terminated with the specified impedances.

Model No. : SLV-779HF

Serial No. : None

4. Type of Connected Cables

<u>Description of Cable</u>	<u>Shielded</u>	<u>Length</u>	<u>Number of Cables</u>	<u>Supplied</u>
RF Cable	Yes	1.5 m	1	Yes
Audio/video Cable	Yes	1.5 m	1	Yes
CONTROL S Cable	Yes	1.5 m	1	No

Notes: 1) Each input terminals of EUT were terminated with the terminator of specified impedances.
2) Each output terminals of EUT were connected to the cable terminated with the specified impedances.

5. Testing Signal Sources

- 5.1) Internal Modulation Sources : NTSC TV Signal Recording Tape
- 5.2) Video Modulation Sources : VITS (1 Vp-p and 5 Vp-p)
- 5.3) RF Modulation Sources : NTSC Colorbar (70 dB/uV at 193.25 MHz)

6. Configuration of EUT

- 6.1) S15.107(a) AC Powerline Conducted Emissions Measurement : Refer to Page 7.
- 6.2) S15.109(a) Radiated Emissions Measurement : Refer to Page 17.
- 6.3) S15.115(b)(1)(ii) Output Signal Level Measurement : Refer to Page 27.
- 6.4) S15.115(b)(2)(ii) Spurious Conducted Level Measurement : Refer to Page 31.
- 6.5) S15.115(c)(1)(ii) Antenna Transfer Switch Measurement : Refer to Page 45.

Model No. : SLV-779HF

Serial No. : None

7. Summary of Measurement Result

The EUT complied with the requirement of FCC Rules and Regulations Part 15 Subpart B (1989) as detailed from page 7 to page 48.

\$15.107(a) AC Powerline Conducted Emissions Measurement : PASSED
Margins with respect to the Limit : 12.7 dB at 0.93 MHz

\$15.109(a) Radiated Emissions Measurement : PASSED
Margins with respect to the Limit : 10.0 dB at 114.6 MHz

\$15.115(b)(1)(ii) Output Signal Level Measurement : PASSED
Margins with respect to the Limit : 8.1 dB at 61.32 MHz

\$15.115(b)(2)(ii) Spurious Conducted Level Measurement : PASSED
Margins with respect to the Limit : 16.2 dB at 50.6 MHz

\$15.115(c)(1)(ii) Antenna Transfer Switch Measurement : PASSED
Margins with respect to the Limit : More than 10.7 dB

I HEREBY STATE THAT:

The measurements shown in the reports of this form were made in accordance with the procedures indicated and the energy emitted by this equipment was found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualification of all persons taking them.

Testing Supervisor : Toshiyuki Itoi
Toshiyuki Itoi, Deputy Manager
Testing Division
EMC Engineering Department

Model No. : SLV-779HF
Serial No. : None

Date : November 10, 1998
Temp.: 24 °C; Humi.: 42 %

8. §15.107(a) AC Powerline Conducted Emissions Measurement

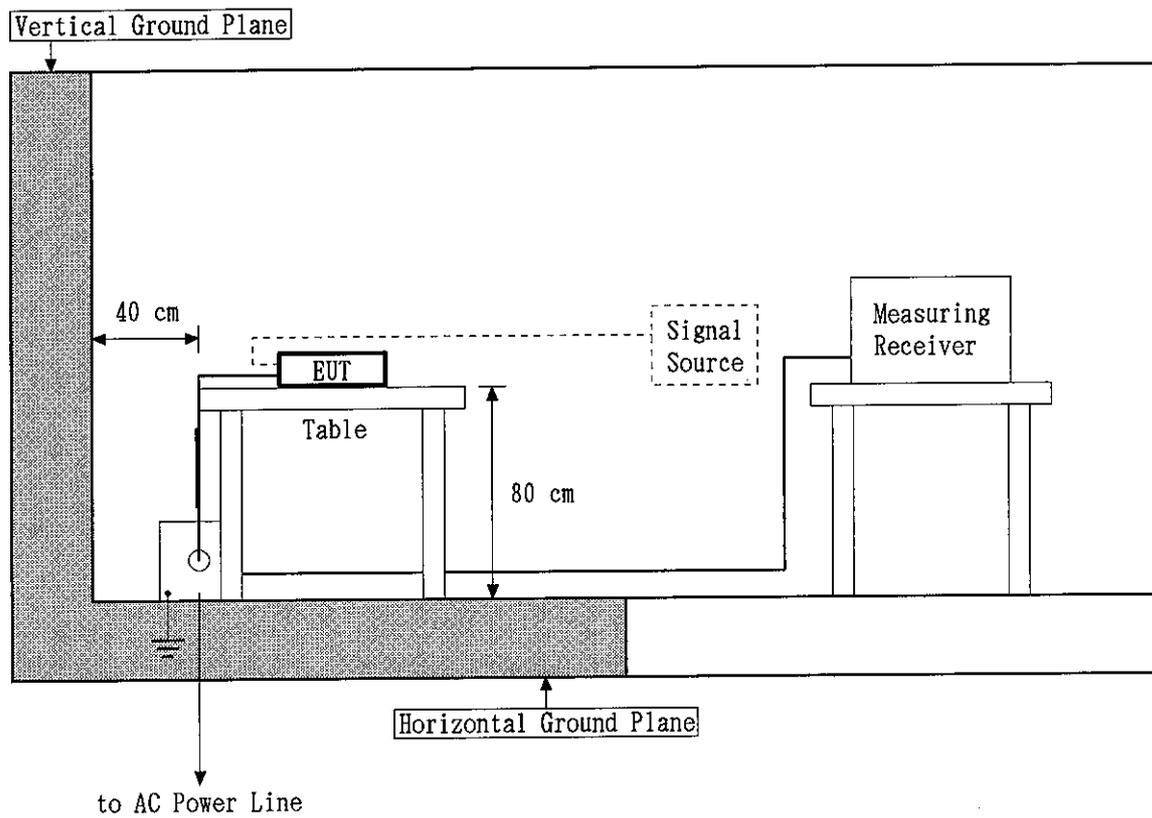
Tested by : Toshiyuki Itoi
Toshiyuki Itoi, Deputy Manager
Testing Division
EMC Engineering Department

Model No. : SLV-779HF
Serial No. : None

§15.107(a) AC Powerline Conducted Emissions Measurement

Configuration of EUT

Side View



Note: The same configuration of cables and terminators which were connected to VCR was applied to all applicable measurements, shown as photograph in page 19 and 20.

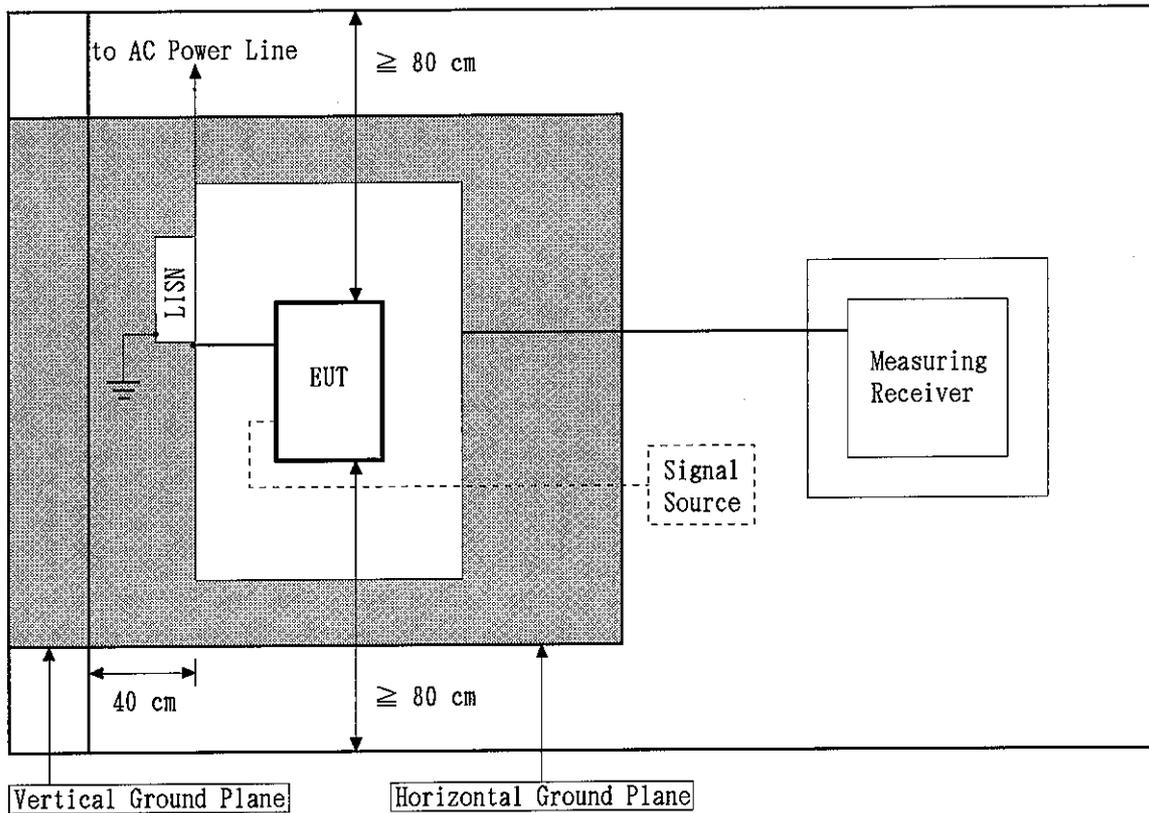
Model No. : SLV-779HF

Serial No. : None

§15.107(a) AC Powerline Conducted Emissions Measurement

Configuration of EUT

Top View



Note: The same configuration of cables and terminators which were connected to VCR was applied to all applicable measurements, shown as photograph in page 19 and 20.

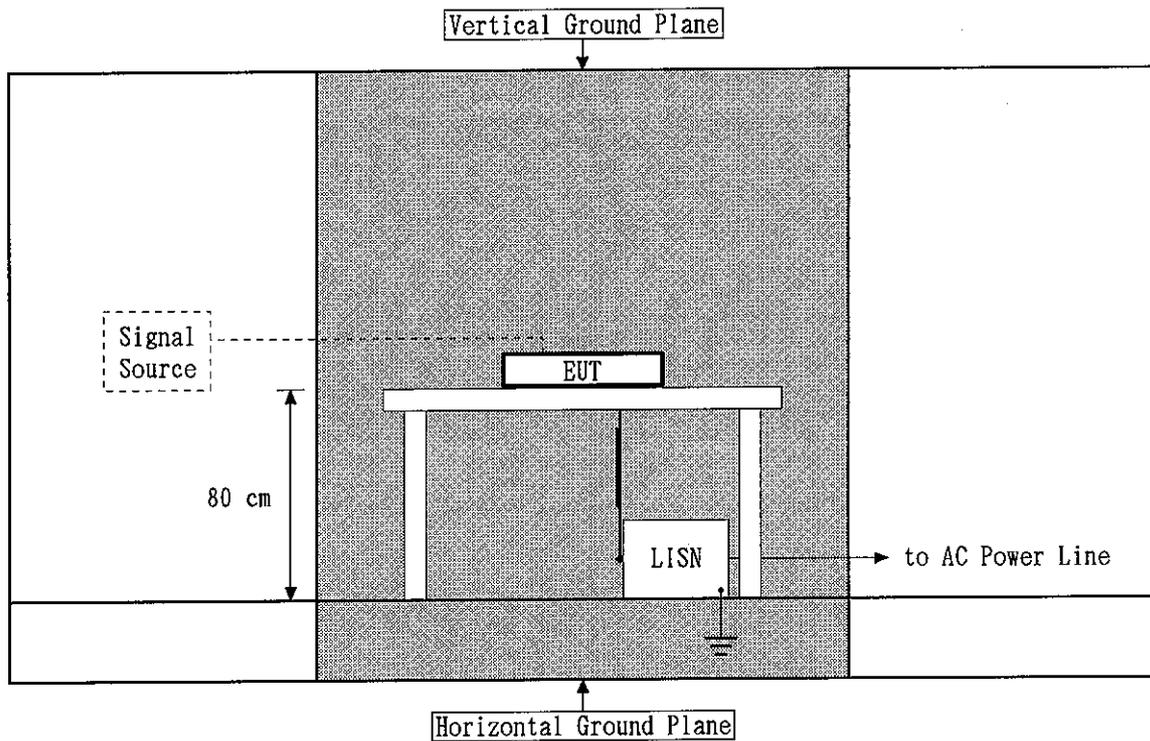
Model No. : SLV-779HF

Serial No. : None

§15.107(a) AC Powerline Conducted Emissions Measurement

Configuration of EUT

Front View



Note: The same configuration of cables and terminators which were connected to VCR was applied to all applicable measurements, shown as photograph in page 19 and 20.

Model No. : SLV-779HF

Serial No. : None

S15.107(a) AC Powerline Conducted Emissions Measurement

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)

Operating Condition : Playing Mode

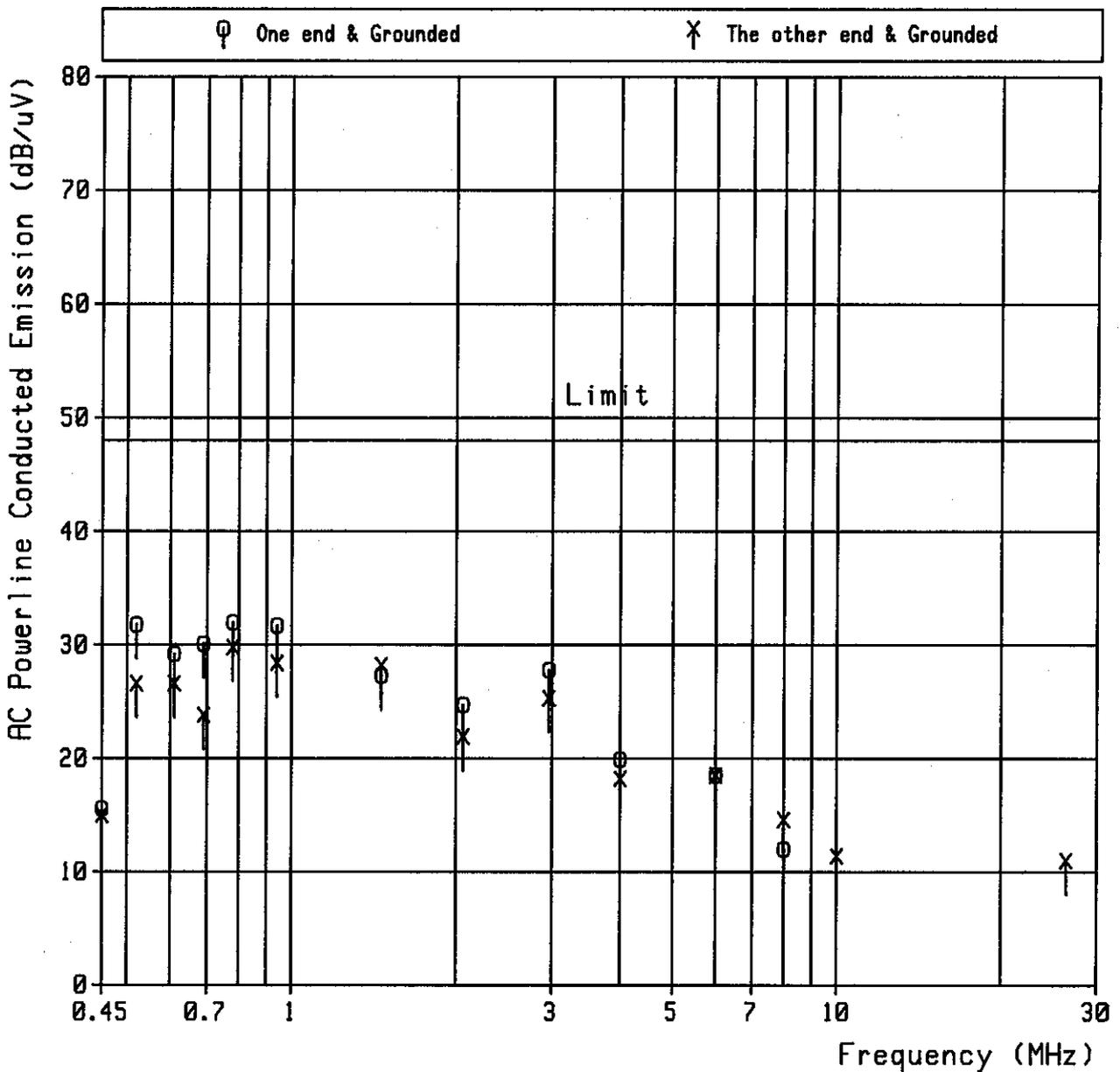
Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)		Result (dB/uV)		Limit (dB/uV)
		V-A	V-B	V-A	V-B	
0.45	0.2	15.4	14.8	15.6	15.0	48.0
0.52	0.2	31.6	26.4	31.8	26.6	48.0
0.61	0.2	29.0	26.4	29.2	26.6	48.0
0.69	0.2	29.9	23.6	30.1	23.8	48.0
0.78	0.2	31.8	29.6	32.0	29.8	48.0
0.94	0.2	31.5	28.2	31.7	28.4	48.0
1.46	0.2	27.1	28.0	27.3	28.2	48.0
2.06	0.2	24.5	21.7	24.7	21.9	48.0
2.96	0.2	27.6	25.1	27.8	25.3	48.0
4.00	0.2	19.7	18.0	19.9	18.2	48.0
6.00	0.2	18.3	18.3	18.5	18.5	48.0
8.00	0.2	11.8	14.4	12.0	14.6	48.0
10.00	0.2	< 10.0	11.2	< 10.2	11.4	48.0
12.00	0.2	< 10.0	< 10.0	< 10.2	< 10.2	48.0
14.00	0.3	< 10.0	< 10.0	< 10.3	< 10.3	48.0
16.00	0.3	< 10.0	< 10.0	< 10.3	< 10.3	48.0
18.00	0.4	< 10.0	< 10.0	< 10.4	< 10.4	48.0
20.00	0.4	< 10.0	< 10.0	< 10.4	< 10.4	48.0
24.00	0.5	< 10.0	< 10.0	< 10.5	< 10.5	48.0
26.39	0.5	< 10.0	10.5	< 10.5	11.0	48.0
30.00	0.6	< 10.0	< 10.0	< 10.6	< 10.6	48.0

- Notes:
- 1) The spectrum was checked from 0.45 MHz to 30 MHz.
 - 2) V-A : One end & Grounded ; V-B : The other end & Grounded
 - 3) The symbol of '<' means 'or less'.
 - 4) Correction Factor includes a LISN factor and a cable (2.0 m) loss.
 - 5) A sample calculation was made at 0.78 MHz.
 $\text{Correction Factor} + \text{Meter Reading} = 0.2 + 31.8 = 32.0 \text{ dB/uV}$

Model No. : SLV-779HF
Serial No. : None

§15.107(a) AC Powerline Conducted Emissions Measurement

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)
Operating Condition : Playing Mode



Model No. : SLV-779HF

Serial No. : None

S15.107(a) AC Powerline Conducted Emissions Measurement

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)

Operating Condition : Recording Mode

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)		Result (dB/uV)		Limit (dB/uV)
		V-A	V-B	V-A	V-B	
0.45	0.2	14.6	14.5	14.8	14.7	48.0
0.51	0.2	34.6	30.4	34.8	30.6	48.0
0.59	0.2	31.4	29.1	31.6	29.3	48.0
0.66	0.2	32.1	28.1	32.3	28.3	48.0
0.77	0.2	34.7	33.2	34.9	33.4	48.0
0.94	0.2	34.3	31.9	34.5	32.1	48.0
1.17	0.2	34.7	34.1	34.9	34.3	48.0
2.00	0.2	28.0	28.0	28.2	28.2	48.0
2.96	0.2	29.3	28.9	29.5	29.1	48.0
4.00	0.2	23.9	23.6	24.1	23.8	48.0
6.00	0.2	21.9	22.4	22.1	22.6	48.0
8.00	0.2	19.2	18.2	19.4	18.4	48.0
10.00	0.2	15.6	15.7	15.8	15.9	48.0
12.00	0.2	10.4	12.2	10.6	12.4	48.0
14.32	0.3	23.4	23.2	23.7	23.5	48.0
16.00	0.3	< 10.0	< 10.0	< 10.3	< 10.3	48.0
18.00	0.4	< 10.0	< 10.0	< 10.4	< 10.4	48.0
20.00	0.4	< 10.0	< 10.0	< 10.4	< 10.4	48.0
24.00	0.5	< 10.0	< 10.0	< 10.5	< 10.5	48.0
26.38	0.5	18.1	19.0	18.6	19.5	48.0
30.00	0.6	< 10.0	< 10.0	< 10.6	< 10.6	48.0

- Notes:
- 1) The spectrum was checked from 0.45 MHz to 30 MHz.
 - 2) V-A : One end & Grounded ; V-B : The other end & Grounded
 - 3) The symbol of '<' means 'or less'.
 - 4) Correction Factor includes a LISN factor and a cable (2.0 m) loss.
 - 5) A sample calculation was made at 0.77 MHz.
 $Correction\ Factor + Meter\ Reading = 0.2 + 34.7 = 34.9\ dB/uV$

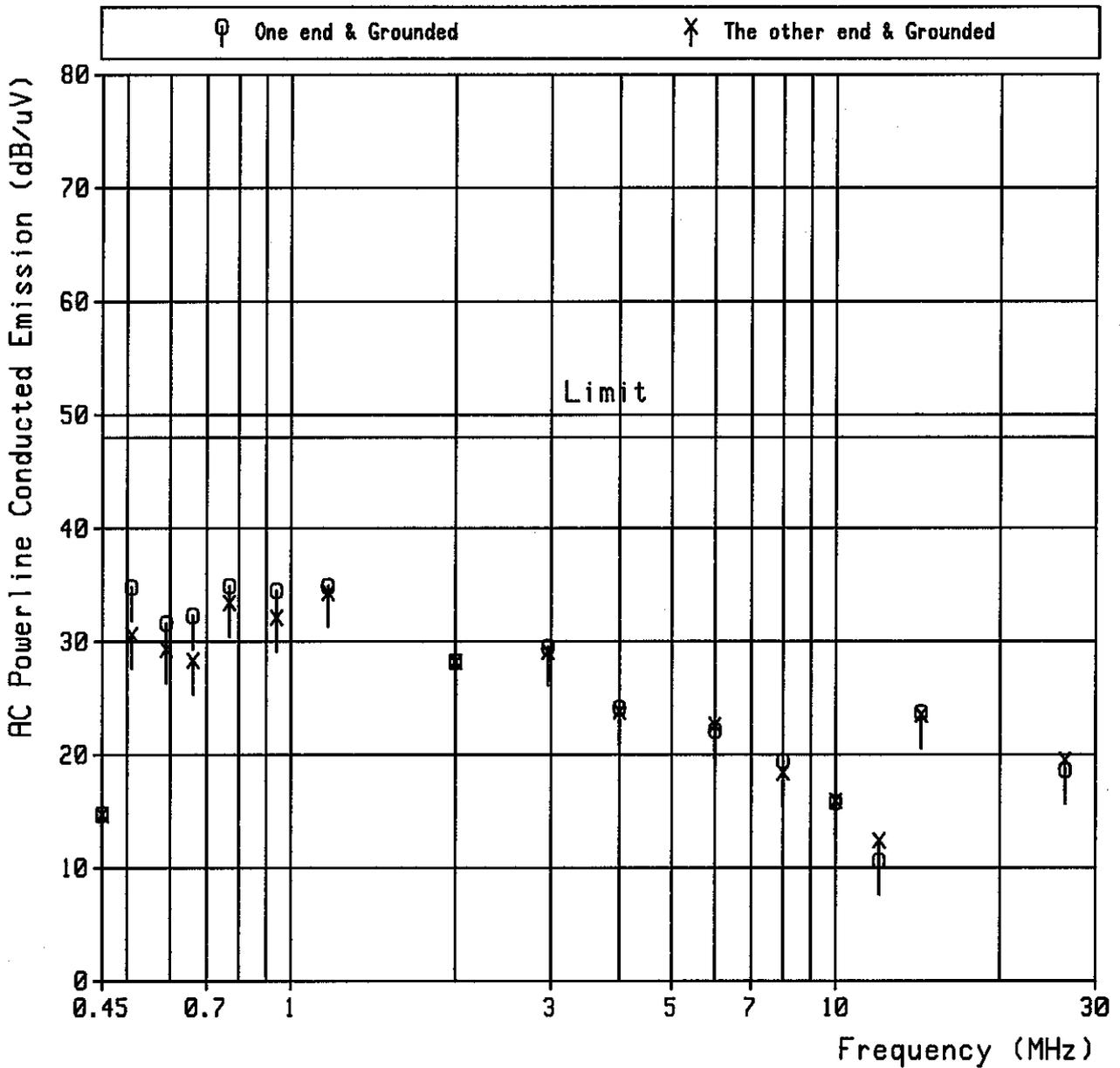
Model No. : SLV-779HF

Serial No. : None

§15.107(a) AC Powerline Conducted Emissions Measurement

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)

Operating Condition : Recording Mode



Model No. : SLV-779HF

Serial No. : None

§15.107(a) AC Powerline Conducted Emissions Measurement

Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)

Operating Condition : Recording Mode

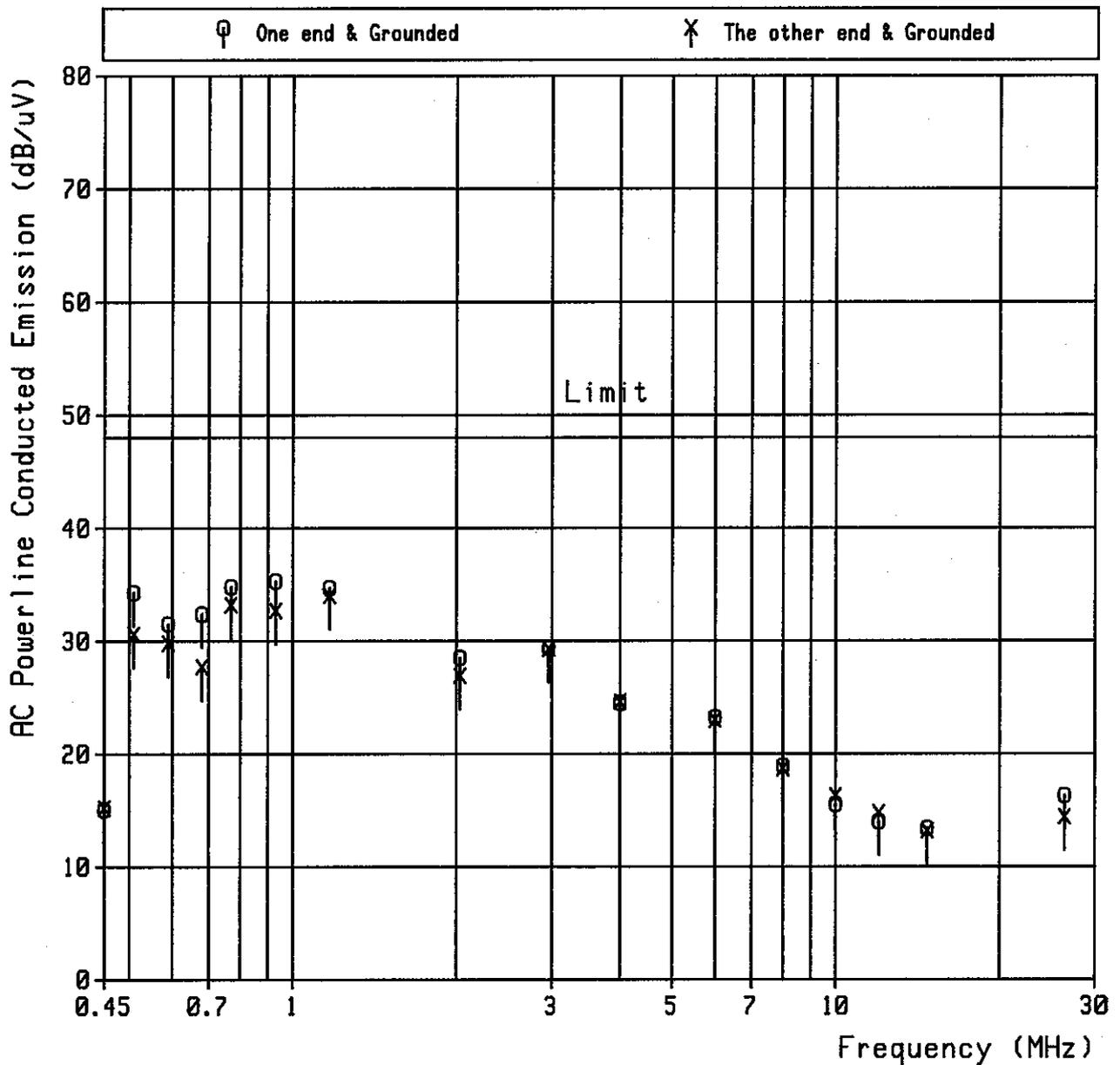
Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)		Result (dB/uV)		Limit (dB/uV)
		V-A	V-B	V-A	V-B	
0.45	0.2	14.9	15.0	15.1	15.2	48.0
0.51	0.2	34.1	30.4	34.3	30.6	48.0
0.59	0.2	31.3	29.6	31.5	29.8	48.0
0.68	0.2	32.2	27.5	32.4	27.7	48.0
0.77	0.2	34.6	33.0	34.8	33.2	48.0
0.93	0.2	35.1	32.5	35.3	32.7	48.0
1.17	0.2	34.5	33.8	34.7	34.0	48.0
2.03	0.2	28.3	26.7	28.5	26.9	48.0
2.96	0.2	29.2	29.1	29.4	29.3	48.0
4.00	0.2	24.3	24.4	24.5	24.6	48.0
6.00	0.2	23.0	22.8	23.2	23.0	48.0
8.00	0.2	18.7	18.5	18.9	18.7	48.0
10.00	0.2	15.3	16.1	15.5	16.3	48.0
12.00	0.2	13.8	14.6	14.0	14.8	48.0
14.74	0.3	13.1	12.9	13.4	13.2	48.0
16.00	0.3	< 10.0	< 10.0	< 10.3	< 10.3	48.0
18.00	0.4	< 10.0	< 10.0	< 10.4	< 10.4	48.0
20.00	0.4	< 10.0	< 10.0	< 10.4	< 10.4	48.0
24.00	0.5	< 10.0	< 10.0	< 10.5	< 10.5	48.0
26.38	0.5	15.8	13.9	16.3	14.4	48.0
30.00	0.6	< 10.0	< 10.0	< 10.6	< 10.6	48.0

- Notes:
- 1) The spectrum was checked from 0.45 MHz to 30 MHz.
 - 2) V-A : One end & Grounded ; V-B : The other end & Grounded
 - 3) The symbol of '<' means 'or less'.
 - 4) Correction Factor includes a LISN factor and a cable (2.0 m) loss.
 - 5) A sample calculation was made at 0.93 MHz.
Correction Factor + Meter Reading = 0.2 + 35.1 = 35.3 dB/uV

Model No. : SLV-779HF
Serial No. : None

\$15.107(a) AC Powerline Conducted Emissions Measurement

Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)
Operating Condition : Recording Mode



Model No. : SLV-779HF
Serial No. : None

Date : November 16, 1998
Temp. : 24 °C; Humi. : 42 %

9. S15.109(a) Radiated Emissions Measurement

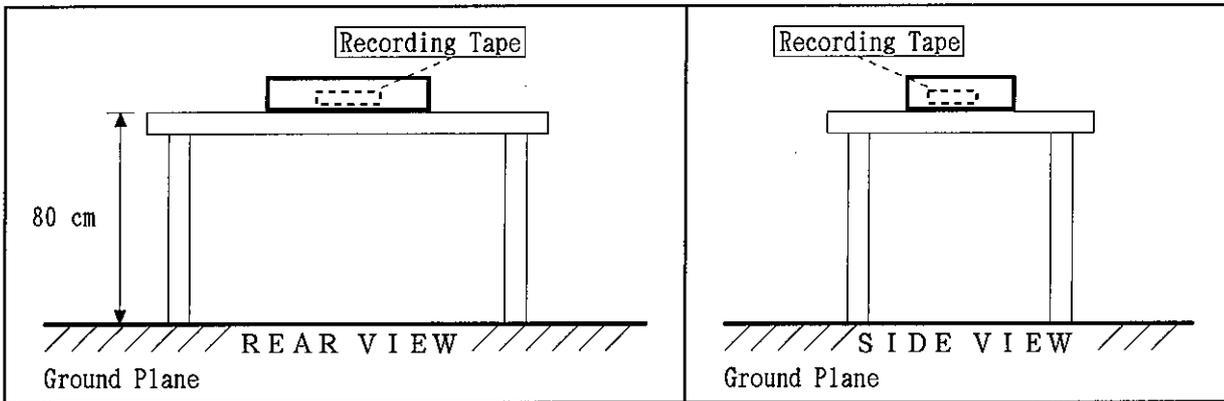
Tested by : Toshiyuki Itoi
Toshiyuki Itoi, Deputy Manager
Testing Division
EMC Engineering Department

Model No. : SLV-779HF

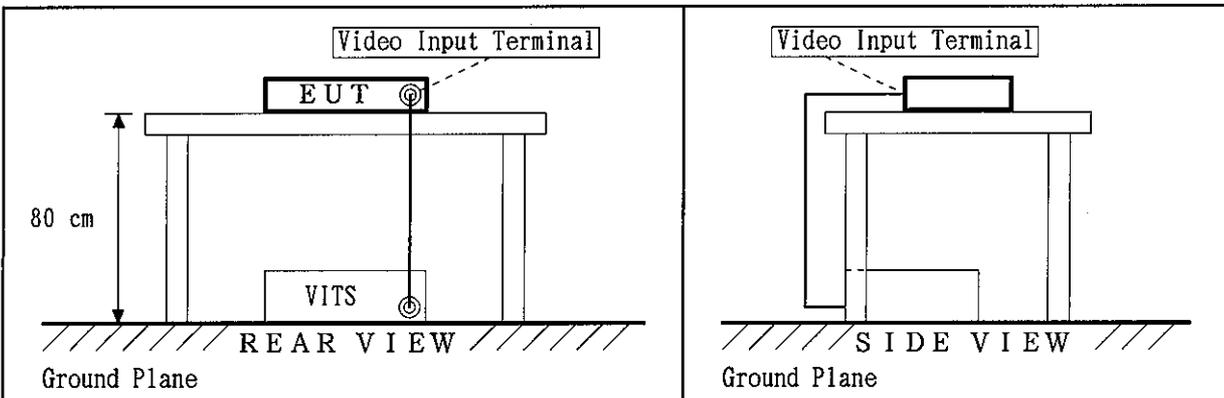
Serial No. : None

Configuration of Testing Signal Sources

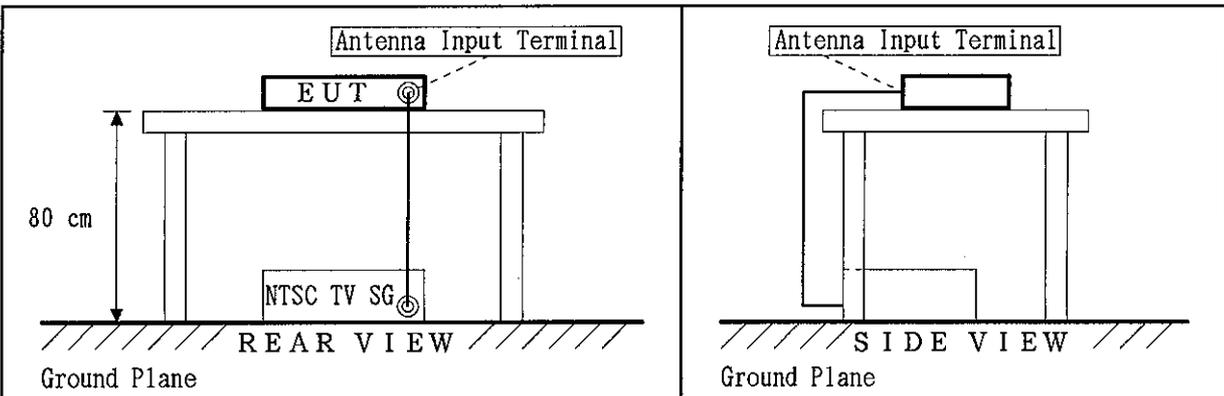
Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)



Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)



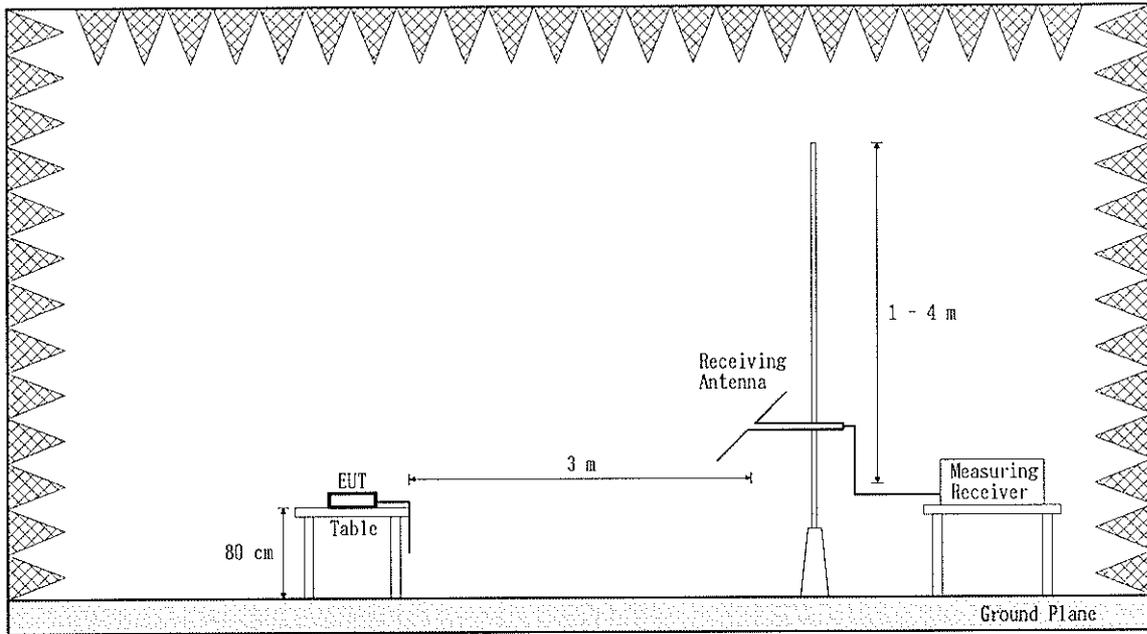
Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)



Model No. : SLV-779HF
Serial No. : None

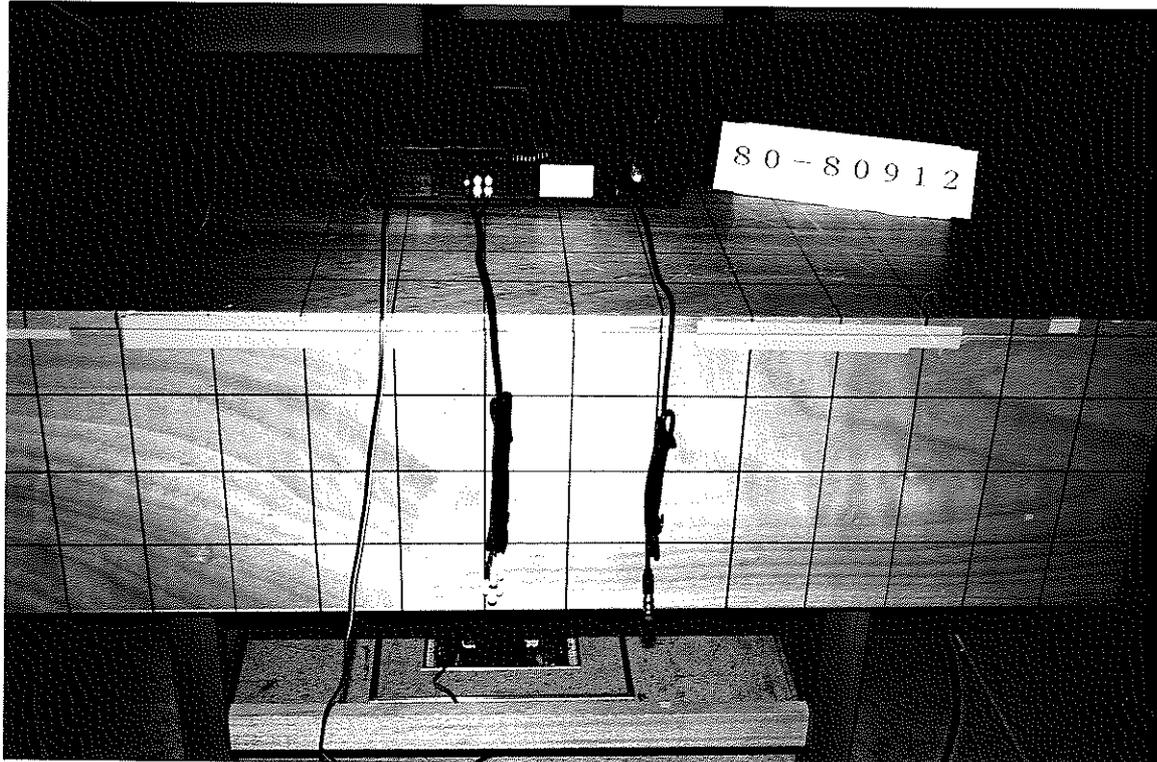
S15.109(a) Radiated Emissions Measurement

Configuration of EUT



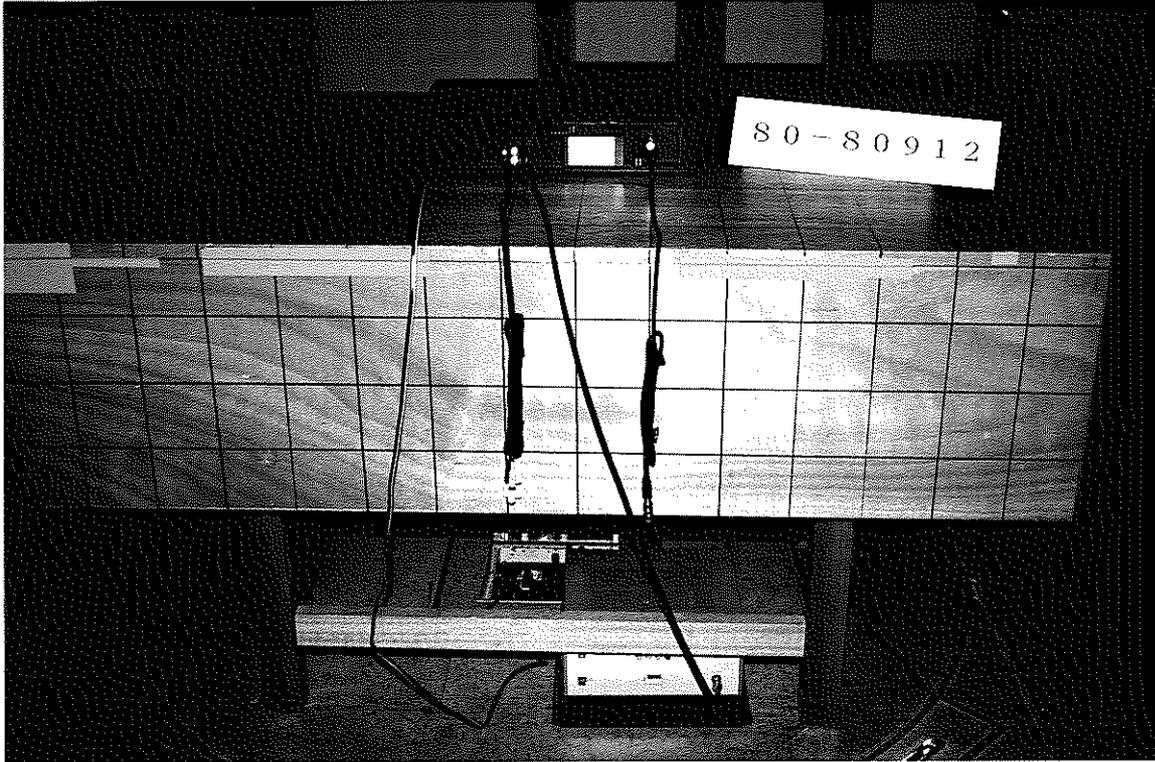
Arrangement of Interface Cables

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)

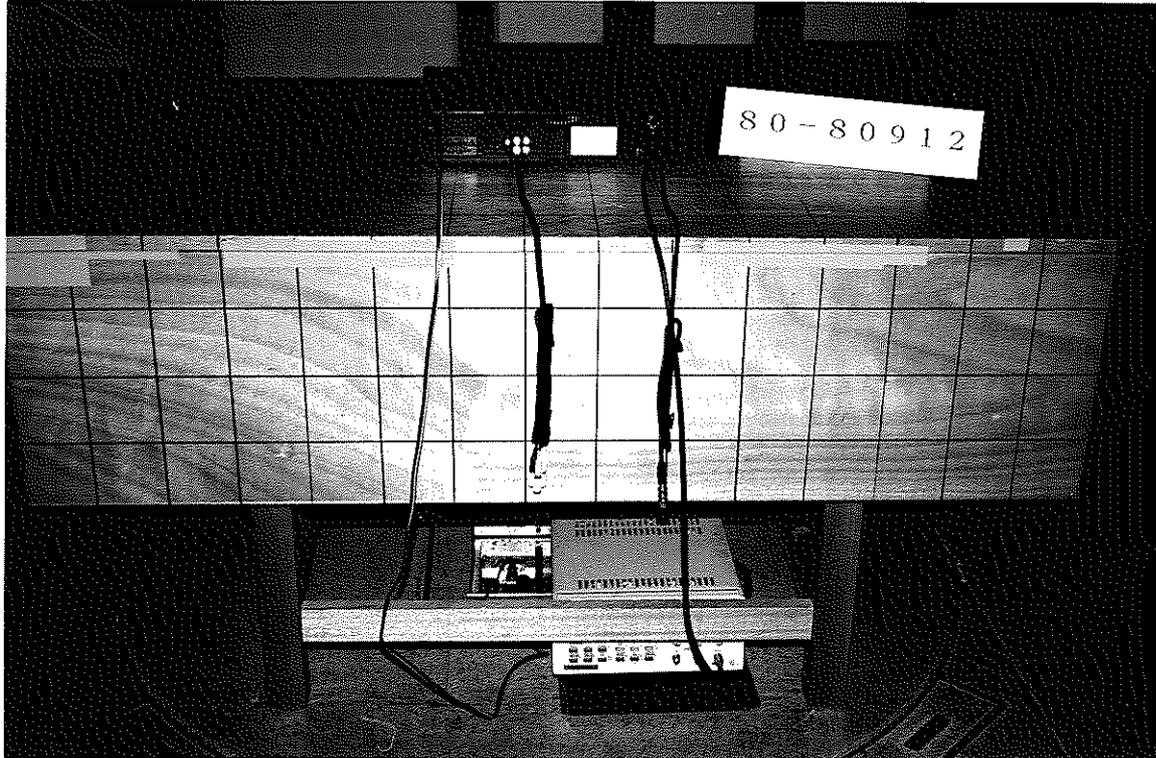


Model No. : SLV-779HF
Serial No. : None

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)



Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)



Model No. : SLV-779HF

Serial No. : None

§15.109(a) Radiated Emissions Measurement

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)

Operating Condition : Playing Mode

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)		Result (dB/uV/m)		Limit (dB/uV/m)
		Horizontal	Vertical	Horizontal	Vertical	
30.0	-0.5	< 0.0	9.6	< -0.5	9.1	40.0
40.0	2.1	< 0.0	< 0.0	< 2.1	< 2.1	40.0
50.0	4.2	< 0.0	< 0.0	< 4.2	< 4.2	40.0
57.3	5.5	4.6	< 0.0	10.1	< 5.5	40.0
71.6	7.6	9.7	9.3	17.3	16.9	40.0
79.1	8.6	11.4	11.8	20.0	20.4	40.0
85.9	9.4	6.1	9.0	15.5	18.4	40.0
105.5	11.4	9.4	6.9	20.8	18.3	43.5
114.6	12.3	10.7	8.9	23.0	21.2	43.5
143.2	14.6	13.4	7.0	28.0	21.6	43.5
158.3	15.6	5.2	3.3	20.8	18.9	43.5
184.7	17.2	9.5	10.8	26.7	28.0	43.5
211.1	18.6	11.7	8.3	30.3	26.9	43.5
229.1	19.5	13.6	10.4	33.1	29.9	46.0
286.4	21.9	6.1	2.5	28.0	24.4	46.0
343.6	23.9	5.7	1.5	29.6	25.4	46.0
400.0	25.6	< 0.0	< 0.0	< 25.6	< 25.6	46.0
458.2	27.2	< 0.0	< 0.0	< 27.2	< 27.2	46.0
500.0	28.1	< 0.0	< 0.0	< 28.1	< 28.1	46.0
600.0	30.5	< 0.0	< 0.0	< 30.5	< 30.5	46.0
700.0	32.6	< 0.0	< 0.0	< 32.6	< 32.6	46.0
800.0	34.4	< 0.0	< 0.0	< 34.4	< 34.4	46.0
1000.0	37.4	< 0.0	< 0.0	< 37.4	< 37.4	54.0

- Notes:
- 1) Measured Distance : 3.0 m
 - 2) The spectrum was checked from 30 MHz to 1000 MHz.
 - 3) The symbol of '<' means 'or less'.
 - 4) Correction Factor includes an antenna factor and a cable (14.0 m) loss.
 - 5) A sample calculation was made at 229.1 MHz.
Correction Factor + Meter Reading = 19.5 + 13.6 = 33.1 dB/uV/m

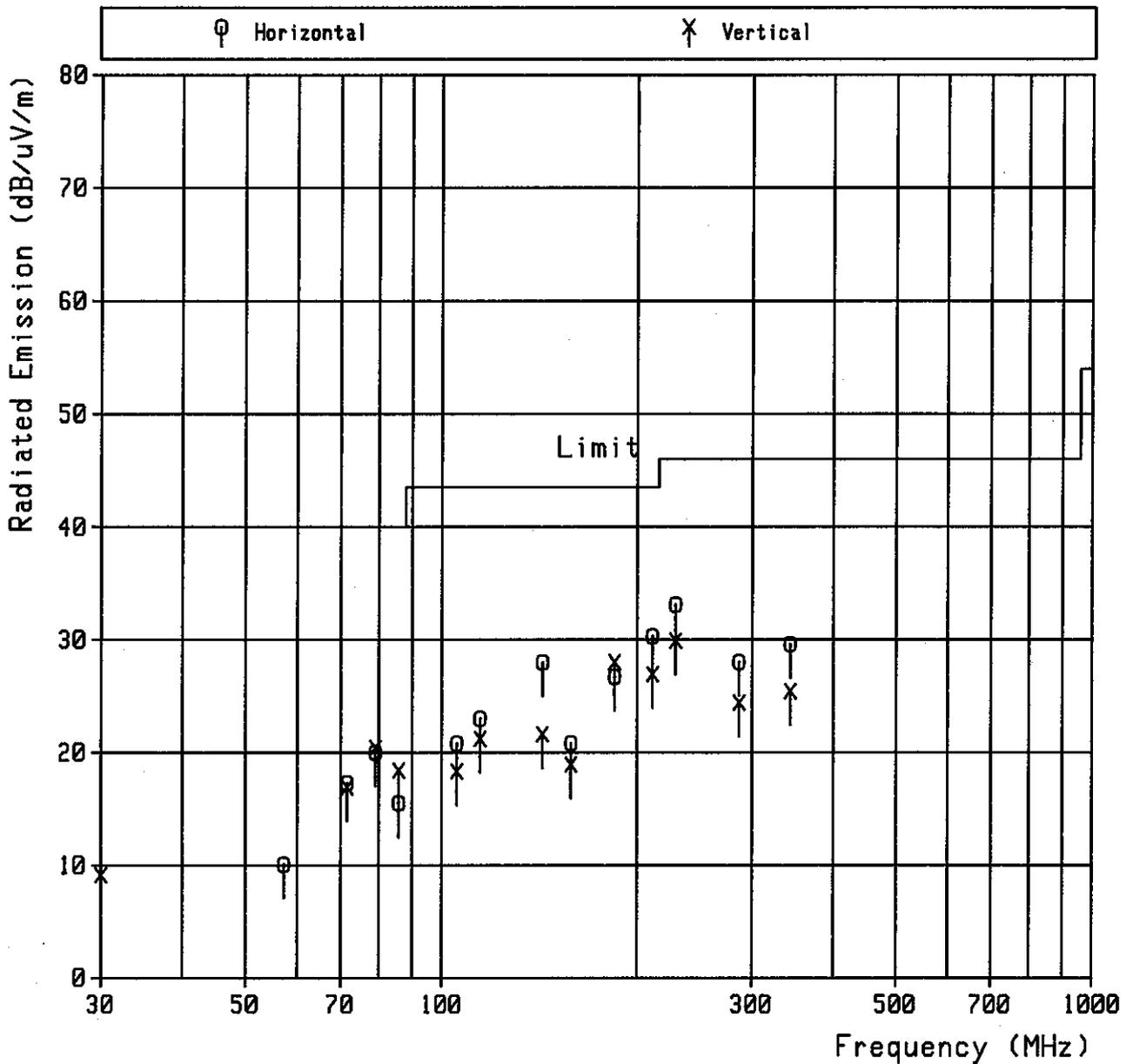
Model No. : SLV-779HF

Serial No. : None

\$15.109(a) Radiated Emissions Measurement

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)

Operating Condition : Playing Mode



Model No. : SLV-779HF

Serial No. : None

§15.109(a) Radiated Emissions Measurement

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)

Operating Condition : Recording Mode

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)		Result (dB/uV/m)		Limit (dB/uV/m)
		Horizontal	Vertical	Horizontal	Vertical	
30.0	-0.5	< 0.0	7.2	< -0.5	6.7	40.0
35.8	1.1	< 0.0	12.3	< 1.1	13.4	40.0
45.0	3.2	< 0.0	< 0.0	< 3.2	< 3.2	40.0
57.3	5.5	7.7	9.6	13.2	15.1	40.0
64.4	6.6	10.3	9.9	16.9	16.5	40.0
79.2	8.6	17.1	19.5	25.7	28.1	40.0
85.9	9.4	4.8	11.4	14.2	20.8	40.0
105.5	11.4	10.5	9.0	21.9	20.4	43.5
114.6	12.3	21.2	16.0	33.5	28.3	43.5
143.2	14.6	13.2	6.2	27.8	20.8	43.5
158.3	15.6	5.5	1.1	21.1	16.7	43.5
184.7	17.2	10.2	8.1	27.4	25.3	43.5
211.1	18.6	10.2	9.5	28.8	28.1	43.5
229.1	19.5	14.2	12.1	33.7	31.6	46.0
286.4	21.9	5.6	1.6	27.5	23.5	46.0
343.6	23.9	5.5	2.6	29.4	26.5	46.0
400.0	25.6	< 0.0	< 0.0	< 25.6	< 25.6	46.0
500.0	28.1	< 0.0	< 0.0	< 28.1	< 28.1	46.0
600.0	30.5	< 0.0	< 0.0	< 30.5	< 30.5	46.0
700.0	32.6	< 0.0	< 0.0	< 32.6	< 32.6	46.0
800.0	34.4	< 0.0	< 0.0	< 34.4	< 34.4	46.0
1000.0	37.4	< 0.0	< 0.0	< 37.4	< 37.4	54.0

- Notes:
- 1) Measured Distance : 3.0 m
 - 2) The spectrum was checked from 30 MHz to 1000 MHz.
 - 3) The symbol of '<' means 'or less'.
 - 4) Correction Factor includes an antenna factor and a cable (14.0 m) loss.
 - 5) A sample calculation was made at 114.6 MHz.
 $\text{Correction Factor} + \text{Meter Reading} = 12.3 + 21.2 = 33.5 \text{ dB/uV/m}$

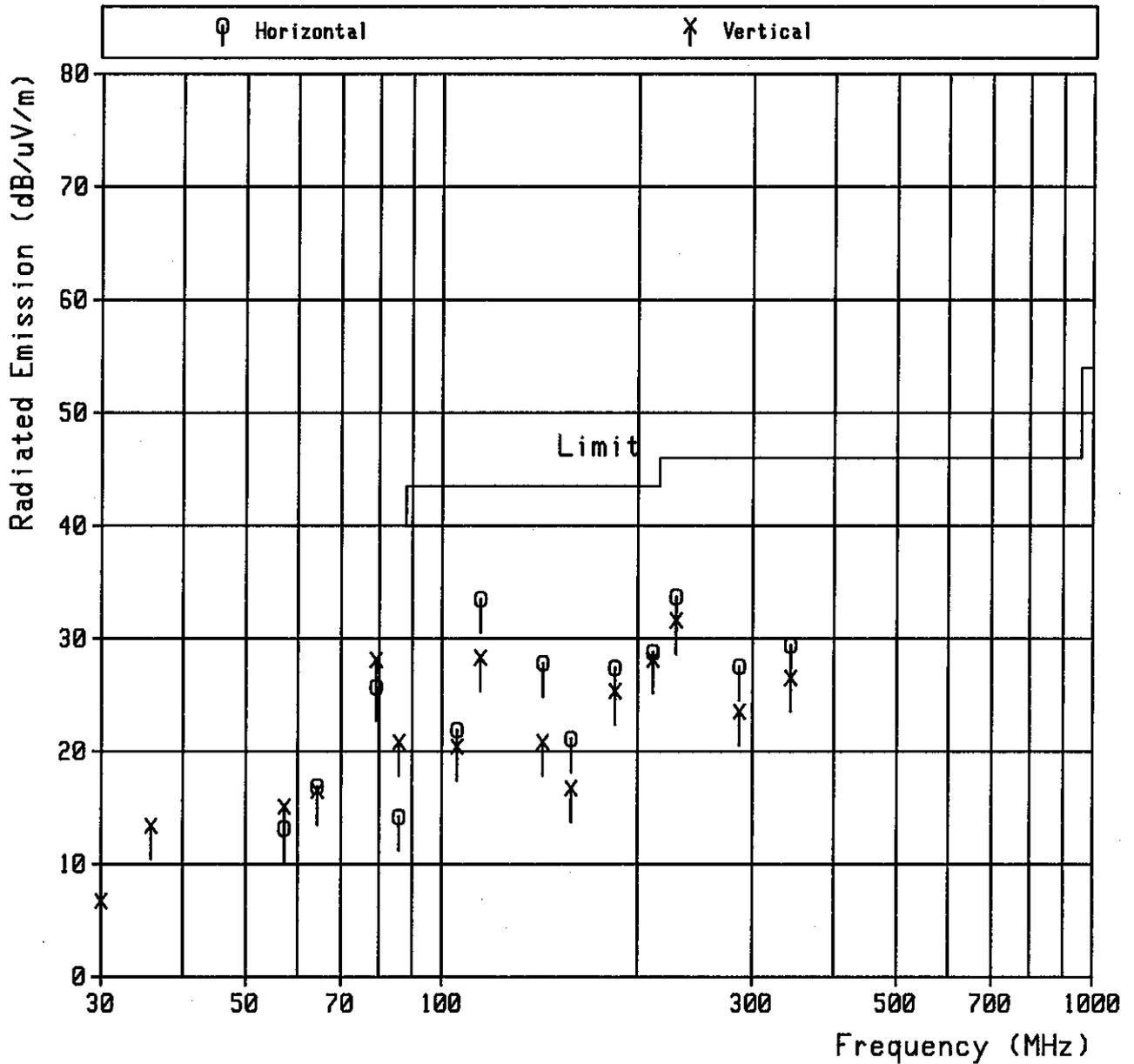
Model No. : SLV-779HF

Serial No. : None

§15.109(a) Radiated Emissions Measurement

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)

Operating Condition : Recording Mode



Model No. : SLV-779HF

Serial No. : None

§15.109(a) Radiated Emissions Measurement

Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)

Operating Condition : Recording Mode

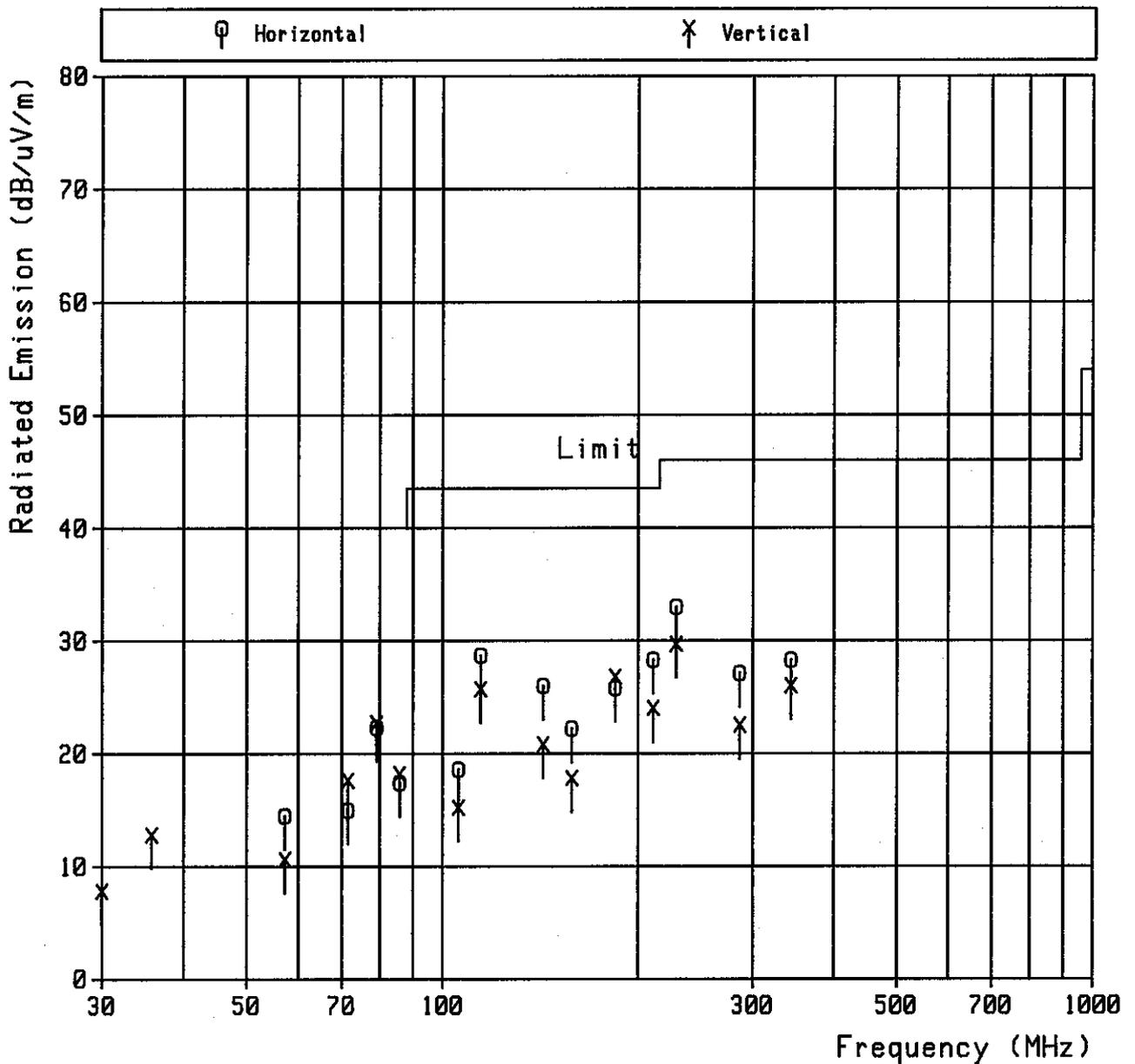
Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)		Result (dB/uV/m)		Limit (dB/uV/m)
		Horizontal	Vertical	Horizontal	Vertical	
30.0	-0.5	< 0.0	8.3	< -0.5	7.8	40.0
35.8	1.1	< 0.0	11.7	< 1.1	12.8	40.0
45.0	3.2	< 0.0	< 0.0	< 3.2	< 3.2	40.0
57.3	5.5	9.0	5.1	14.5	10.6	40.0
71.6	7.6	7.4	10.0	15.0	17.6	40.0
79.2	8.6	13.7	14.1	22.3	22.7	40.0
85.9	9.4	8.0	8.8	17.4	18.2	40.0
105.8	11.5	7.1	3.7	18.6	15.2	43.5
114.5	12.3	16.4	13.4	28.7	25.7	43.5
143.2	14.6	11.4	6.2	26.0	20.8	43.5
158.3	15.6	6.6	2.2	22.2	17.8	43.5
184.7	17.2	8.6	9.6	25.8	26.8	43.5
211.1	18.6	9.7	5.4	28.3	24.0	43.5
229.1	19.5	13.5	10.2	33.0	29.7	46.0
286.4	21.9	5.2	0.6	27.1	22.5	46.0
343.7	23.9	4.4	2.1	28.3	26.0	46.0
400.0	25.6	< 0.0	< 0.0	< 25.6	< 25.6	46.0
500.0	28.1	< 0.0	< 0.0	< 28.1	< 28.1	46.0
600.0	30.5	< 0.0	< 0.0	< 30.5	< 30.5	46.0
700.0	32.6	< 0.0	< 0.0	< 32.6	< 32.6	46.0
800.0	34.4	< 0.0	< 0.0	< 34.4	< 34.4	46.0
1000.0	37.4	< 0.0	< 0.0	< 37.4	< 37.4	54.0

- Notes:
- 1) Measured Distance : 3.0 m
 - 2) The spectrum was checked from 30 MHz to 1000 MHz.
 - 3) The symbol of '<' means 'or less'.
 - 4) Correction Factor includes an antenna factor and a cable (14.0 m) loss.
 - 5) A sample calculation was made at 229.1 MHz.
Correction Factor + Meter Reading = 19.5 + 13.5 = 33.0 dB/uV/m

Model No. : SLV-779HF
Serial No. : None

\$15.109(a) Radiated Emissions Measurement

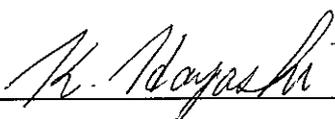
Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)
Operating Condition : Recording Mode



Model No. : SLV-779HF
Serial No. : None

Date : November 17, 1998
Temp. : 24 °C; Humi. : 42 %

10. §15.115(b)(1)(ii) Output Signal Level Measurement

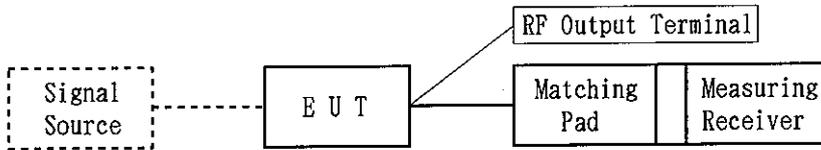
Tested by : 
Kazuya Hayashi, Engineer
Testing Division
EMC Engineering Department

Model No. : SLV-779HF

Serial No. : None

§15.115(b)(1)(ii) Output Signal Level Measurement

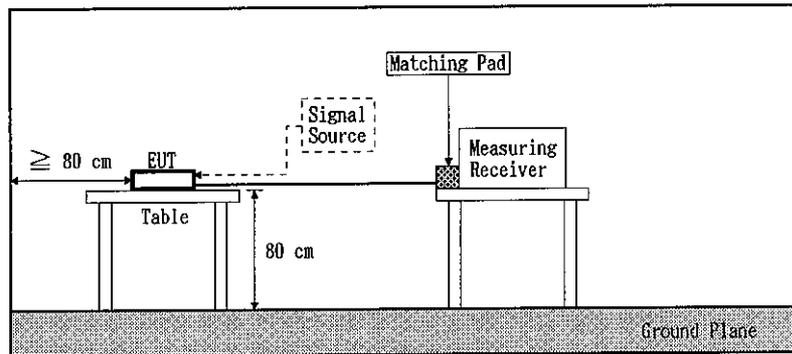
Block Diagram



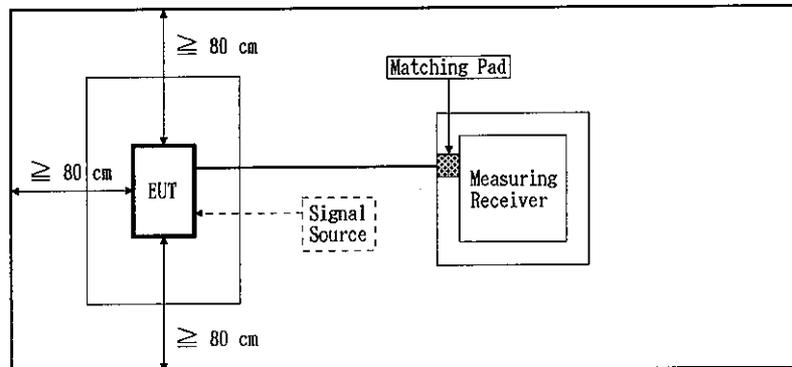
Note: Antenna input terminal of EUT was terminated with the terminator of specified impedances.

Configuration of EUT

Side View



Top View



Note: The same configuration of cables and terminators which were connected to VCR was applied to all applicable measurements, shown as photograph in page 19 and 20.

Model No. : SLV-779HF
Serial No. : None

S15.115(b)(1)(ii) Output Signal Level Measurement (Visual)

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)
Operating Condition : Playing Mode

RF Output Channel	Frequency (MHz)	Matching Pad Loss (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
3	61.32	7.8	53.6	61.4	69.5
4	67.33	7.8	53.4	61.2	69.5

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)
Operating Condition : Recording Mode

RF Output Channel	Frequency (MHz)	Matching Pad Loss (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
3	61.32	7.8	53.6	61.4	69.5
4	67.32	7.8	53.3	61.1	69.5

Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)
Operating Condition : Recording Mode

RF Output Channel	Frequency (MHz)	Matching Pad Loss (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
3	61.31	7.8	53.4	61.2	69.5
4	67.34	7.8	53.0	60.8	69.5

- Notes: 1) Spectrum Analyzer ; SPAN : 10 MHz, RES BW : 100 kHz, VBW : 300 kHz, SWP : 20 msec
2) Impedance at the RF output terminal : 75 ohms (Unbalanced)
3) A sample calculation was made at 61.32 MHz.
Matching Pad Loss + Meter Reading = 7.8 + 53.6 = 61.4 dB/uV

Model No. : SLV-779HF

Serial No. : None

S15.115(b)(1)(ii) Output Signal Level Measurement (Aural)

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)

Operating Condition : Playing Mode

RF Output Channel	Frequency (MHz)	Matching Pad Loss (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
3	65.79	7.8	38.3	46.1	56.5
4	71.80	7.8	38.3	46.1	56.5

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)

Operating Condition : Recording Mode

RF Output Channel	Frequency (MHz)	Matching Pad Loss (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
3	65.79	7.8	38.2	46.0	56.5
4	71.77	7.8	38.5	46.3	56.5

Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)

Operating Condition : Recording Mode

RF Output Channel	Frequency (MHz)	Matching Pad Loss (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
3	65.79	7.8	38.2	46.0	56.5
4	71.79	7.8	38.4	46.2	56.5

Notes: 1) Spectrum Analyzer ; SPAN : 10 MHz, RES BW : 100 kHz, VBW : 300 kHz, SWP : 20 msec

2) Impedance at the RF output terminal : 75 ohms (Unbalanced)

3) A sample calculation was made at 71.77 MHz.

Matching Pad Loss + Meter Reading = 7.8 + 38.5 = 46.3 dB/uV

Model No. : SLV-779HF
Serial No. : None

Date : November 17, 1998
Temp. : 24 °C; Humi. : 42 %

11. §15.115(b)(2)(ii) Spurious Conducted Level Measurement

Tested by : _____

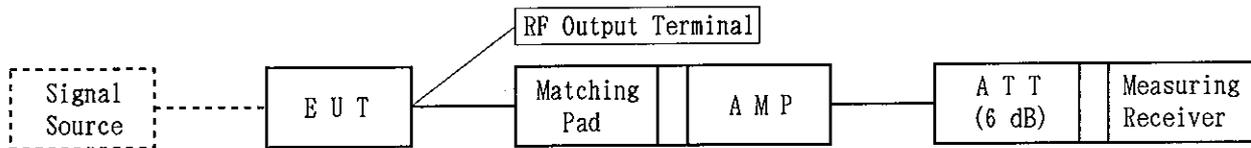
K. Hayashi
Kazuya Hayashi, Engineer
Testing Division
EMC Engineering Department

Model No. : SLV-779HF

Serial No. : None

§15.115(b)(2)(ii) Spurious Conducted Level Measurement

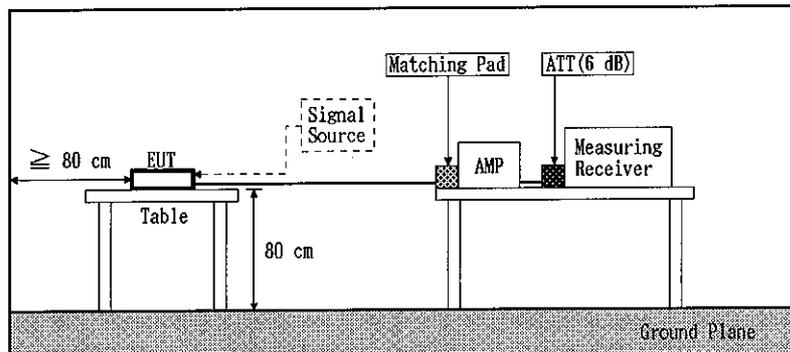
Block Diagram



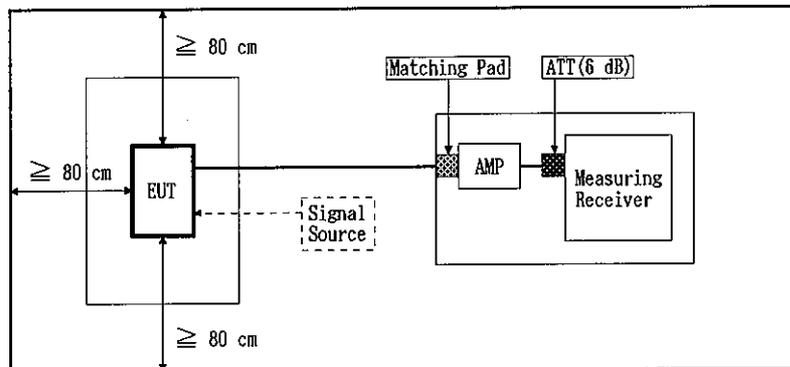
Note: Antenna input terminal of EUT was terminated with the terminator of specified impedances.

Configuration of EUT

Side View



Top View



Note: The same configuration of cables and terminators which were connected to VCR was applied to all applicable measurements, shown as photograph in page 19 and 20.



Model No. : SLV-779HF

Serial No. : None

§15.115(b)(2)(ii) Spurious Conducted Level Measurement

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)

Operating Condition : Playing Mode

RF Output Channel : No. 3

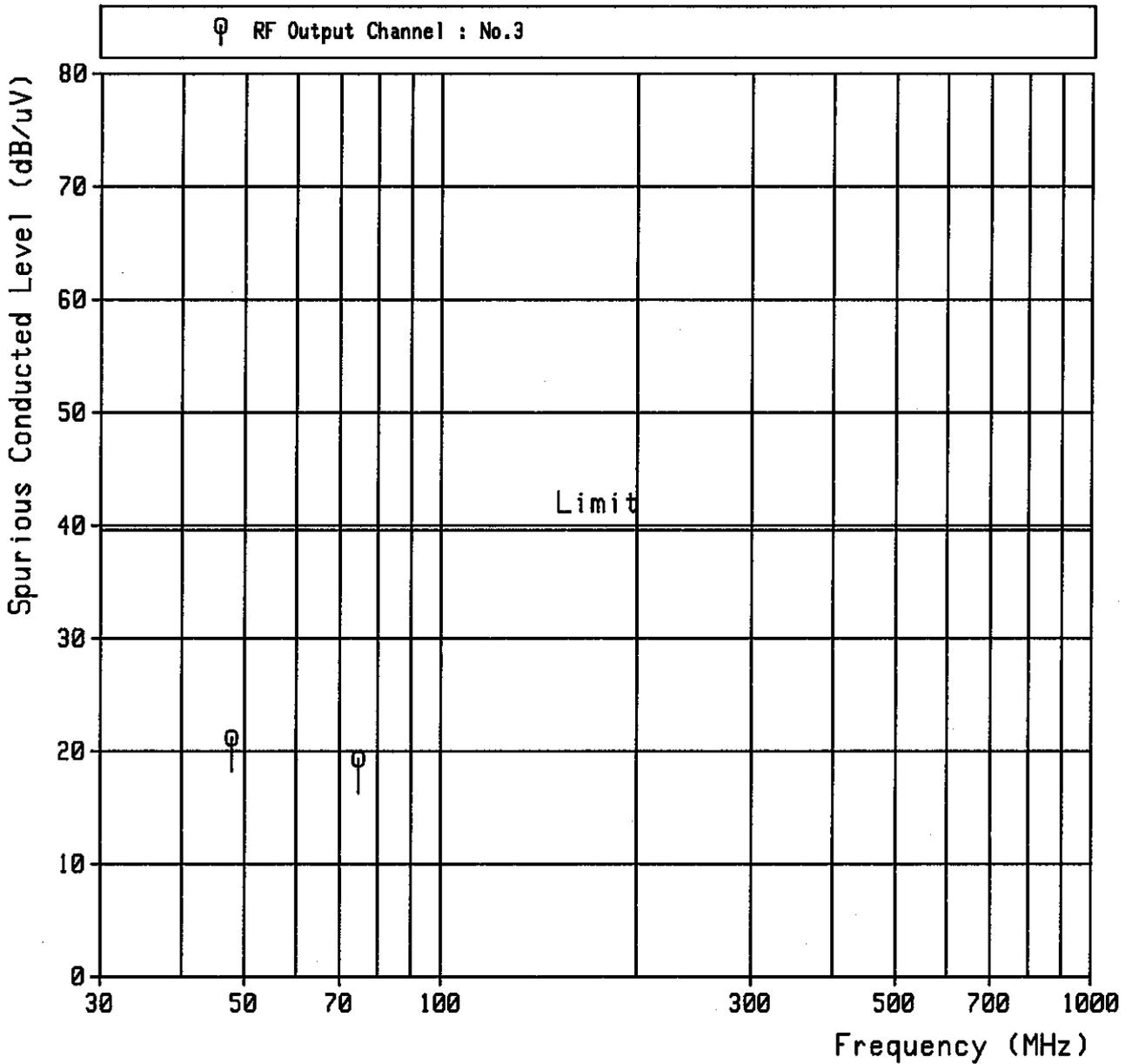
Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
30.0	-13.2	< 30.0	< 16.8	39.6
38.8	-13.2	< 30.0	< 16.8	39.6
47.8	-13.2	34.4	21.2	39.6
54.2	-13.2	< 30.0	< 16.8	39.6
56.7	-13.2	< 30.0	< 16.8	39.6
74.8	-13.2	32.5	19.3	39.6
83.7	-13.2	< 30.0	< 16.8	39.6
122.5	-13.1	< 30.0	< 16.9	39.6
183.8	-13.0	< 30.0	< 17.0	39.6
245.0	-12.9	< 30.0	< 17.1	39.6
306.3	-12.9	< 30.0	< 17.1	39.6
367.5	-12.8	< 30.0	< 17.2	39.6
428.8	-12.8	< 30.0	< 17.2	39.6
490.0	-12.8	< 30.0	< 17.2	39.6
551.3	-12.7	< 30.0	< 17.3	39.6
612.5	-12.6	< 30.0	< 17.4	39.6
673.8	-12.4	< 30.0	< 17.6	39.6
735.0	-12.2	< 30.0	< 17.8	39.6
857.5	-12.1	< 30.0	< 17.9	39.6
980.0	-12.6	< 30.0	< 17.4	39.6

- Notes:
- 1) The spectrum was checked from 30 MHz to 1000 MHz.
 - 2) Spectrum Analyzer ; SPAN : 10 MHz, RES BW : 100 kHz, VBW : 300 kHz, SWP : 20 msec
 - 3) Impedance at the RF output terminal : 75 ohms (Unbalanced)
 - 4) The symbol of '<' means 'or less'.
 - 5) Correction Factor includes a gain of preamplifier, a matching pad loss and an attenuation pad loss.
 - 6) A sample calculation was made at 47.8 MHz.
Correction Factor + Meter Reading = $-13.2 + 34.4 = 21.2$ dB/uV

Model No. : SLV-779HF
Serial No. : None

§15.115(b)(2)(ii) Spurious Conducted Level Measurement

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)
Operating Condition : Playing Mode





Model No. : SLV-779HF

Serial No. : None

§15.115(b)(2)(ii) Spurious Conducted Level Measurement

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)

Operating Condition : Playing Mode

RF Output Channel : No. 4

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
30.0	-13.2	< 30.0	< 16.8	39.6
35.0	-13.2	< 30.0	< 16.8	39.6
40.0	-13.2	< 30.0	< 16.8	39.6
44.8	-13.2	< 30.0	< 16.8	39.6
53.8	-13.2	33.8	20.6	39.6
60.1	-13.2	< 30.0	< 16.8	39.6
62.7	-13.2	< 30.0	< 16.8	39.6
80.8	-13.2	31.8	18.6	39.6
89.8	-13.2	< 30.0	< 16.8	39.6
134.5	-13.1	< 30.0	< 16.9	39.6
201.8	-13.0	< 30.0	< 17.0	39.6
269.0	-12.9	< 30.0	< 17.1	39.6
336.3	-12.9	< 30.0	< 17.1	39.6
403.5	-12.8	< 30.0	< 17.2	39.6
470.8	-12.8	< 30.0	< 17.2	39.6
538.0	-12.7	< 30.0	< 17.3	39.6
605.3	-12.7	< 30.0	< 17.3	39.6
672.5	-12.4	< 30.0	< 17.6	39.6
807.0	-11.9	< 30.0	< 18.1	39.6
941.5	-12.5	< 30.0	< 17.5	39.6

- Notes:
- 1) The spectrum was checked from 30 MHz to 1000 MHz.
 - 2) Spectrum Analyzer ; SPAN : 10 MHz, RES BW : 100 kHz, VBW : 300 kHz, SWP : 20 msec
 - 3) Impedance at the RF output terminal : 75 ohms (Unbalanced)
 - 4) The symbol of '<' means 'or less'.
 - 5) Correction Factor includes a gain of preamplifier, a matching pad loss and an attenuation pad loss.
 - 6) A sample calculation was made at 53.8 MHz.
Correction Factor + Meter Reading = -13.2 + 33.8 = 20.6 dB/uV

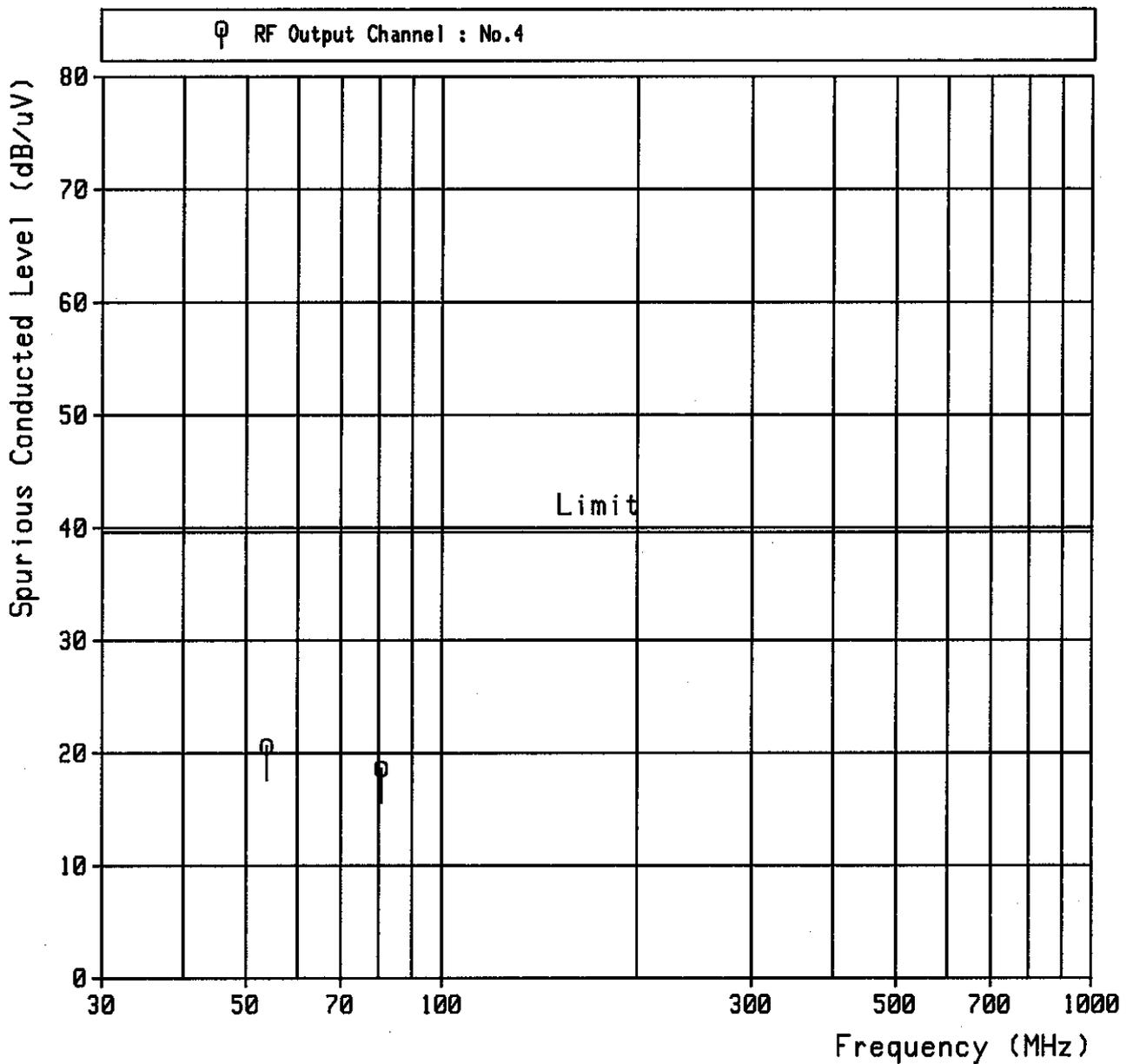
Model No. : SLV-779HF

Serial No. : None

§15.115(b)(2)(ii) Spurious Conducted Level Measurement

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)

Operating Condition : Playing Mode



Model No. : SLV-779HF

Serial No. : None

S15.115(b)(2)(ii) Spurious Conducted Level Measurement

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)

Operating Condition : Recording Mode

RF Output Channel : No. 3

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
30.0	-13.2	< 30.0	< 16.8	39.6
38.8	-13.2	< 30.0	< 16.8	39.6
47.8	-13.2	34.4	21.2	39.6
50.6	-13.2	36.6	23.4	39.6
56.7	-13.2	< 30.0	< 16.8	39.6
72.1	-13.2	35.8	22.6	39.6
74.8	-13.2	32.4	19.2	39.6
122.5	-13.1	< 30.0	< 16.9	39.6
183.8	-13.0	< 30.0	< 17.0	39.6
245.0	-12.9	< 30.0	< 17.1	39.6
306.3	-12.9	< 30.0	< 17.1	39.6
367.5	-12.8	< 30.0	< 17.2	39.6
428.8	-12.8	< 30.0	< 17.2	39.6
490.0	-12.8	< 30.0	< 17.2	39.6
551.3	-12.7	< 30.0	< 17.3	39.6
612.5	-12.6	< 30.0	< 17.4	39.6
673.8	-12.4	< 30.0	< 17.6	39.6
735.0	-12.2	< 30.0	< 17.8	39.6
857.5	-12.1	< 30.0	< 17.9	39.6
980.0	-12.6	< 30.0	< 17.4	39.6

- Notes:
- 1) The spectrum was checked from 30 MHz to 1000 MHz.
 - 2) Spectrum Analyzer ; SPAN : 10 MHz, RES BW : 100 kHz, VBW : 300 kHz, SWP : 20 msec
 - 3) Impedance at the RF output terminal : 75 ohms (Unbalanced)
 - 4) The symbol of '<' means 'or less'.
 - 5) Correction Factor includes a gain of preamplifier, a matching pad loss and an attenuation pad loss.
 - 6) A sample calculation was made at 50.6 MHz.
Correction Factor + Meter Reading = -13.2 + 36.6 = 23.4 dB/uV

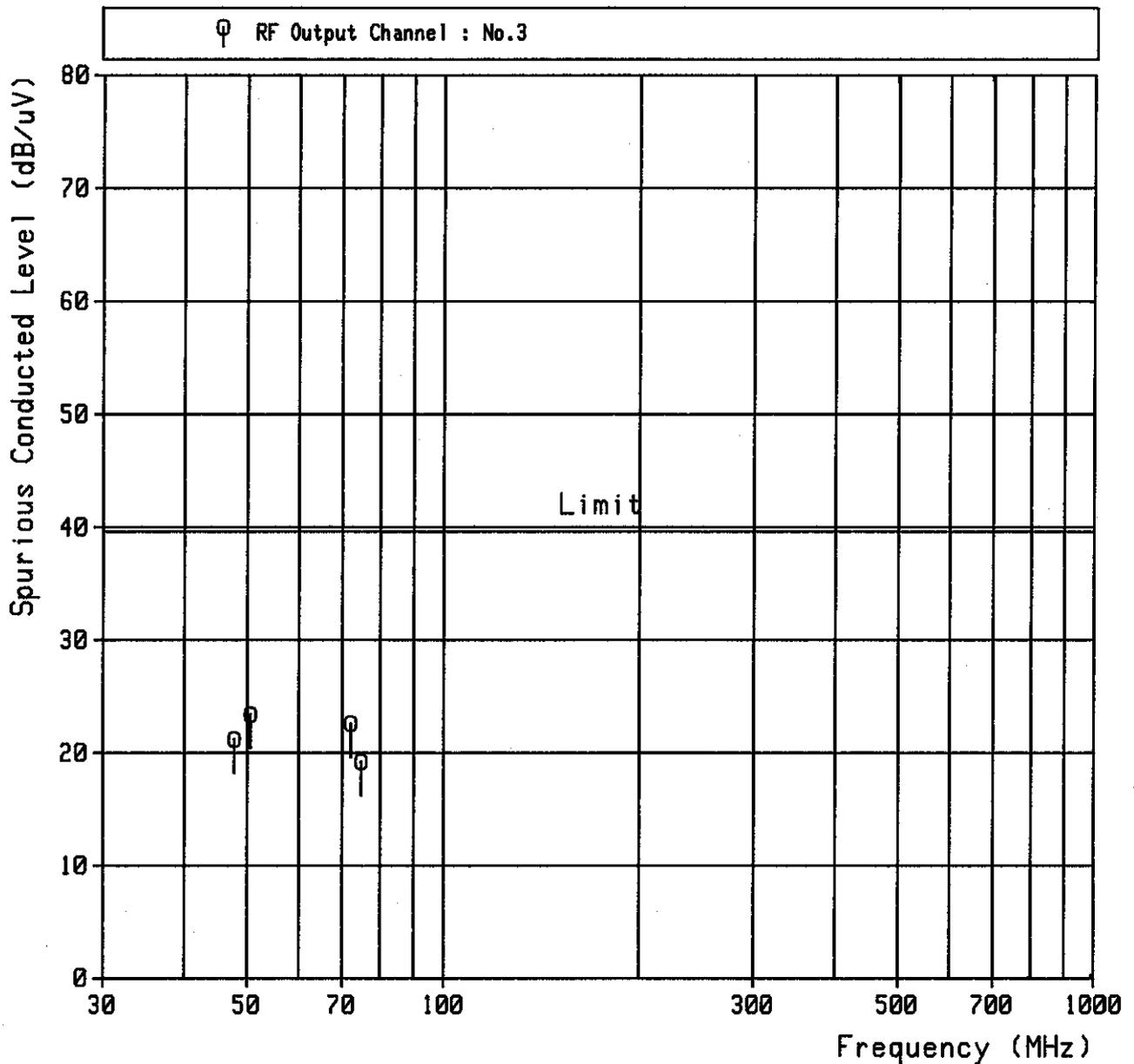
Model No. : SLV-779HF

Serial No. : None

§15.115(b)(2)(ii) Spurious Conducted Level Measurement

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)

Operating Condition : Recording Mode



Model No. : SLV-779HF
Serial No. : None

§15.115(b)(2)(ii) Spurious Conducted Level Measurement

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)
Operating Condition : Recording Mode

RF Output Channel : No. 4

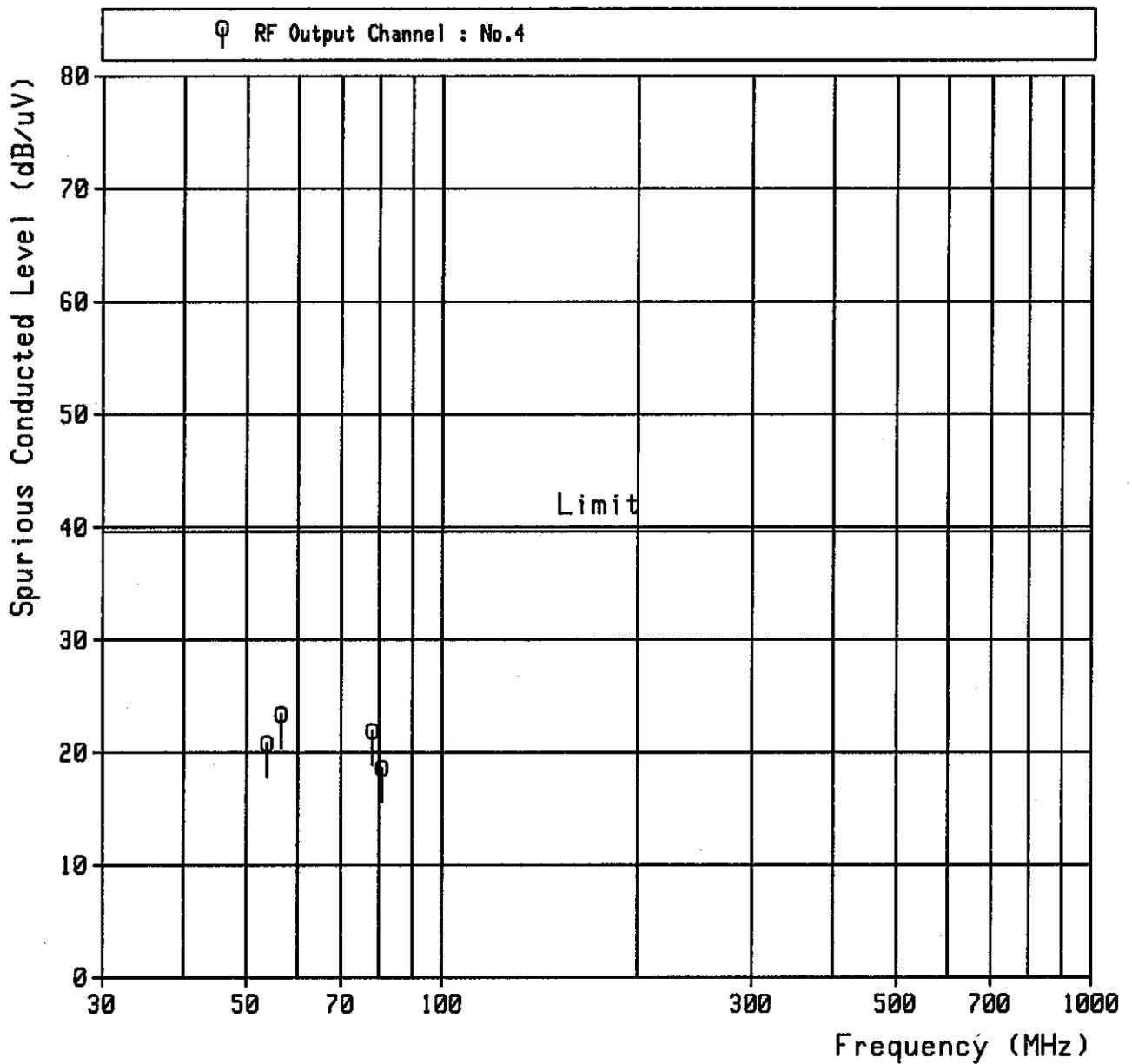
Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
30.0	-13.2	< 30.0	< 16.8	39.6
35.0	-13.2	< 30.0	< 16.8	39.6
40.0	-13.2	< 30.0	< 16.8	39.6
44.8	-13.2	< 30.0	< 16.8	39.6
53.8	-13.2	34.0	20.8	39.6
56.6	-13.2	36.6	23.4	39.6
62.7	-13.2	< 30.0	< 16.8	39.6
78.1	-13.2	35.1	21.9	39.6
80.8	-13.2	31.8	18.6	39.6
134.5	-13.1	< 30.0	< 16.9	39.6
201.8	-13.0	< 30.0	< 17.0	39.6
269.0	-12.9	< 30.0	< 17.1	39.6
336.3	-12.9	< 30.0	< 17.1	39.6
403.5	-12.8	< 30.0	< 17.2	39.6
470.8	-12.8	< 30.0	< 17.2	39.6
538.0	-12.7	< 30.0	< 17.3	39.6
605.3	-12.7	< 30.0	< 17.3	39.6
672.5	-12.4	< 30.0	< 17.6	39.6
807.0	-11.9	< 30.0	< 18.1	39.6
941.5	-12.5	< 30.0	< 17.5	39.6

- Notes:
- 1) The spectrum was checked from 30 MHz to 1000 MHz.
 - 2) Spectrum Analyzer ; SPAN : 10 MHz, RES BW : 100 kHz, VBW : 300 kHz, SWP : 20 msec
 - 3) Impedance at the RF output terminal : 75 ohms (Unbalanced)
 - 4) The symbol of '<' means 'or less'.
 - 5) Correction Factor includes a gain of preamplifier, a matching pad loss and an attenuation pad loss.
 - 6) A sample calculation was made at 56.6 MHz.
Correction Factor + Meter Reading = -13.2 + 36.6 = 23.4 dB/uV

Model No. : SLV-779HF
Serial No. : None

§15.115(b)(2)(ii) Spurious Conducted Level Measurement

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)
Operating Condition : Recording Mode



Model No. : SLV-779HF

Serial No. : None

§15.115(b)(2)(ii) Spurious Conducted Level Measurement

Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)

Operating Condition : Recording Mode

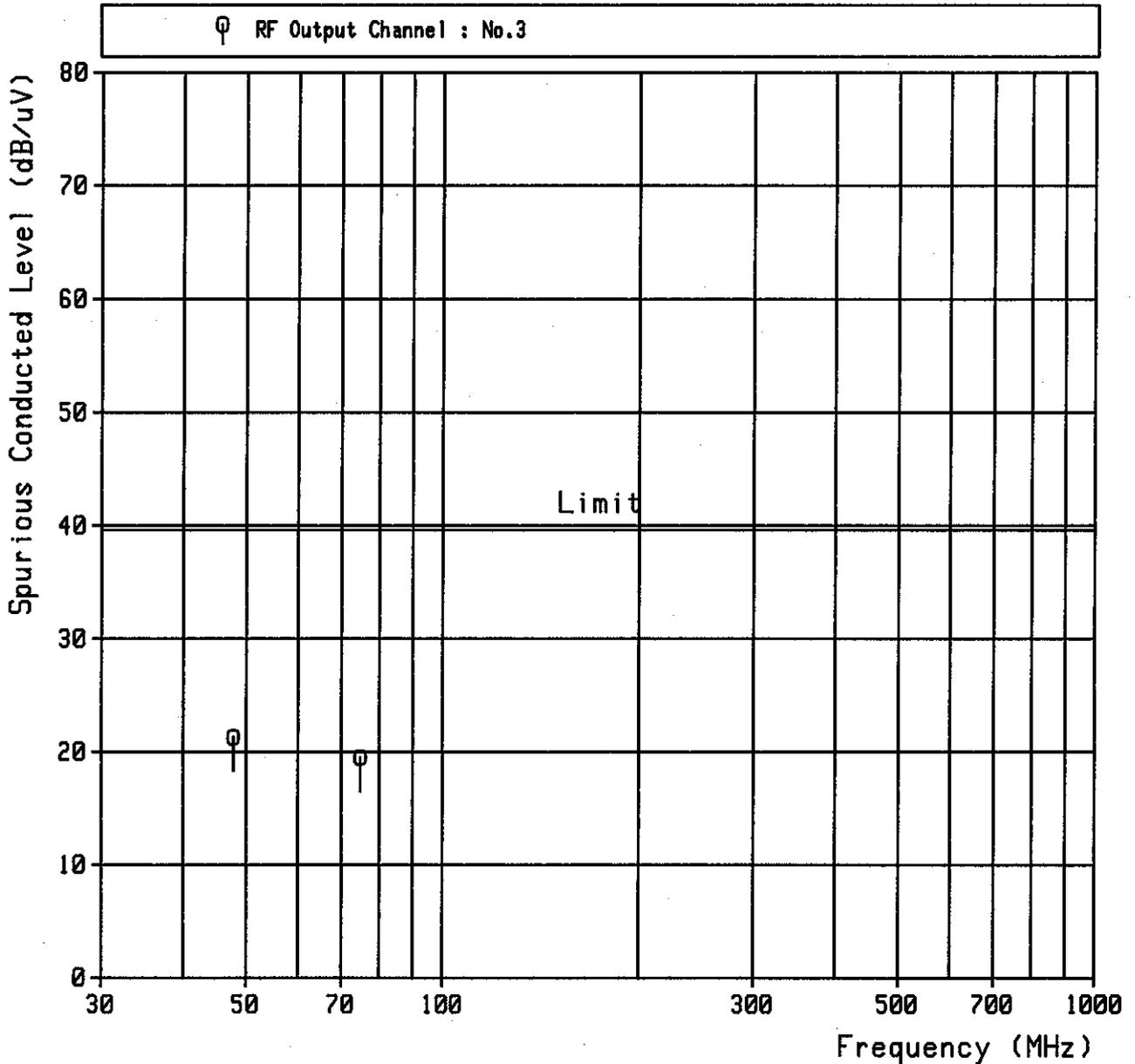
RF Output Channel : No. 3

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
30.0	-13.2	< 30.0	< 16.8	39.6
38.8	-13.2	< 30.0	< 16.8	39.6
47.8	-13.2	34.5	21.3	39.6
54.0	-13.2	< 30.0	< 16.8	39.6
56.7	-13.2	< 30.0	< 16.8	39.6
74.8	-13.2	32.7	19.5	39.6
83.8	-13.2	< 30.0	< 16.8	39.6
122.5	-13.1	< 30.0	< 16.9	39.6
183.8	-13.0	< 30.0	< 17.0	39.6
245.0	-12.9	< 30.0	< 17.1	39.6
306.3	-12.9	< 30.0	< 17.1	39.6
367.5	-12.8	< 30.0	< 17.2	39.6
428.8	-12.8	< 30.0	< 17.2	39.6
490.0	-12.8	< 30.0	< 17.2	39.6
551.3	-12.7	< 30.0	< 17.3	39.6
612.5	-12.6	< 30.0	< 17.4	39.6
673.8	-12.4	< 30.0	< 17.6	39.6
735.0	-12.2	< 30.0	< 17.8	39.6
857.5	-12.1	< 30.0	< 17.9	39.6
980.0	-12.6	< 30.0	< 17.4	39.6

- Notes:
- 1) The spectrum was checked from 30 MHz to 1000 MHz.
 - 2) Spectrum Analyzer ; SPAN : 10 MHz, RES BW : 100 kHz, VBW : 300 kHz, SWP : 20 msec
 - 3) Impedance at the RF output terminal : 75 ohms (Unbalanced)
 - 4) The symbol of '<' means 'or less'.
 - 5) Correction Factor includes a gain of preamplifier, a matching pad loss and an attenuation pad loss.
 - 6) A sample calculation was made at 47.8 MHz.
 $\text{Correction Factor} + \text{Meter Reading} = -13.2 + 34.5 = 21.3 \text{ dB/uV}$

Model No. : SLV-779HF
Serial No. : None

§15.115(b)(2)(ii) Spurious Conducted Level Measurement

Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/μV at 193.25 MHz)
Operating Condition : Recording Mode



Model No. : SLV-779HF

Serial No. : None

S15.115(b)(2)(ii) Spurious Conducted Level Measurement

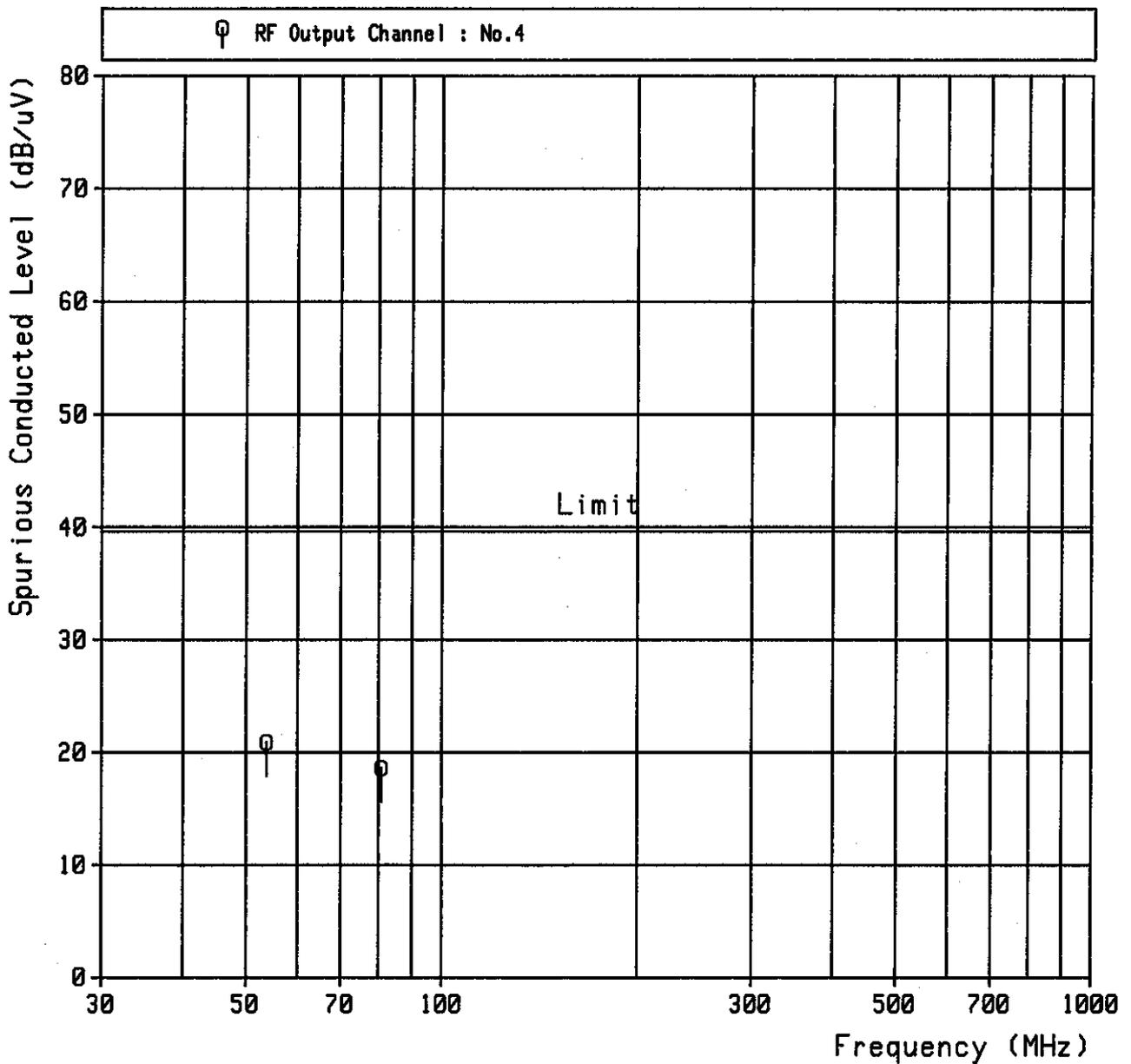
Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)

Operating Condition : Recording Mode

RF Output Channel : No. 4

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
30.0	-13.2	< 30.0	< 16.8	39.6
35.0	-13.2	< 30.0	< 16.8	39.6
40.0	-13.2	< 30.0	< 16.8	39.6
44.8	-13.2	< 30.0	< 16.8	39.6
53.8	-13.2	34.1	20.9	39.6
60.0	-13.2	< 30.0	< 16.8	39.6
62.7	-13.2	< 30.0	< 16.8	39.6
80.8	-13.2	31.8	18.6	39.6
89.8	-13.2	< 30.0	< 16.8	39.6
134.5	-13.1	< 30.0	< 16.9	39.6
201.8	-13.0	< 30.0	< 17.0	39.6
269.0	-12.9	< 30.0	< 17.1	39.6
336.3	-12.9	< 30.0	< 17.1	39.6
403.5	-12.8	< 30.0	< 17.2	39.6
470.8	-12.8	< 30.0	< 17.2	39.6
538.0	-12.7	< 30.0	< 17.3	39.6
605.3	-12.7	< 30.0	< 17.3	39.6
672.5	-12.4	< 30.0	< 17.6	39.6
807.0	-11.9	< 30.0	< 18.1	39.6
941.5	-12.5	< 30.0	< 17.5	39.6

- Notes:
- 1) The spectrum was checked from 30 MHz to 1000 MHz.
 - 2) Spectrum Analyzer ; SPAN : 10 MHz, RES BW : 100 kHz, VBW : 300 kHz, SWP : 20 msec
 - 3) Impedance at the RF output terminal : 75 ohms (Unbalanced)
 - 4) The symbol of '<' means 'or less'.
 - 5) Correction Factor includes a gain of preamplifier, a matching pad loss and an attenuation pad loss.
 - 6) A sample calculation was made at 53.8 MHz.
Correction Factor + Meter Reading = -13.2 + 34.1 = 20.9 dB/uV

Model No. : SLV-779HF
Serial No. : None**§15.115(b)(2)(ii) Spurious Conducted Level Measurement**Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)
Operating Condition : Recording Mode

Model No. : SLV-779HF
Serial No. : None

Date : November 17, 1998
Temp. : 24 °C; Humi. : 42 %

12. S15.115(e)(1)(ii) Antenna Transfer Switch Measurement

Tested by : _____



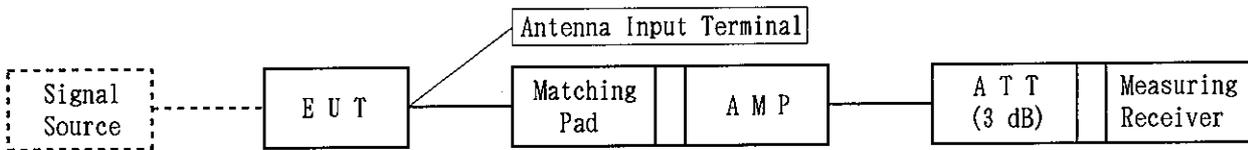
Kazuya Hayashi, Engineer
Testing Division
EMC Engineering Department

Model No. : SLV-779HF

Serial No. : None

§15.115(c)(1)(ii) Antenna Transfer Switch Measurement

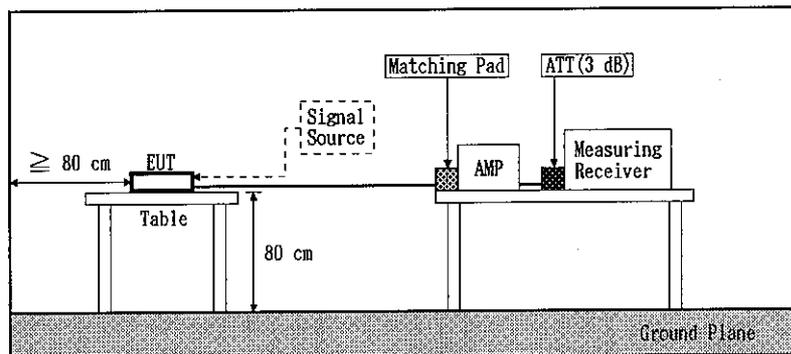
Block Diagram



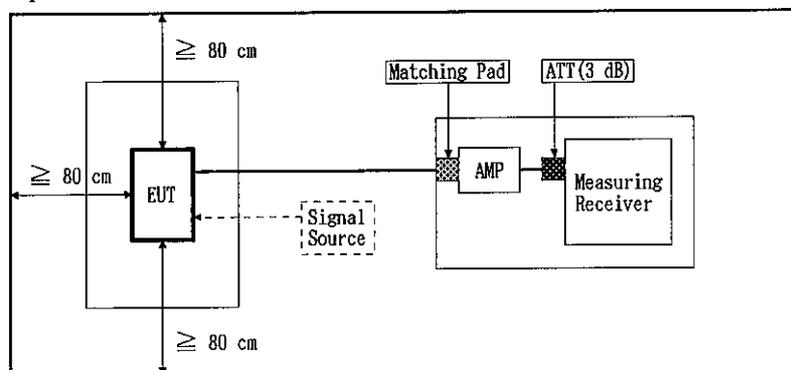
Note: RF output terminal of EUT was connected to the cable terminated with the specified impedances.

Configuration of EUT

Side View



Top View



Note: The same configuration of cables and terminators which were connected to VCR was applied to all applicable measurements, shown as photograph in page 19 and 20.

Model No. : SLV-779HF

Serial No. : None

§15.115(c)(1)(ii) Antenna Transfer Switch Measurement

Testing Signal Sources : Internal Modulation Sources (NTSC TV Signal Recording Tape)

Operating Condition : Playing Mode

RF Output Channel	Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
3	61.27	-16.2	< 15.0	< -1.2	9.5
4	67.28	-16.2	< 15.0	< -1.2	9.5

Testing Signal Sources : Video Modulation Sources (VITS : 1 Vp-p and 5 Vp-p)

Operating Condition : Recording Mode

RF Output Channel	Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
3	61.27	-16.2	< 15.0	< -1.2	9.5
4	67.28	-16.2	< 15.0	< -1.2	9.5

Testing Signal Sources : RF Modulation Sources (NTSC Colorbar : 70 dB/uV at 193.25 MHz)

Operating Condition : Recording Mode

RF Output Channel	Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB/uV)	Result (dB/uV)	Limit (dB/uV)
Not Applicable					

Not Applicable

- Notes:
- 1) Spectrum Analyzer ; SPAN : 1 MHz, RES BW : 10kHz, VBW : 10kHz, SWP : 30 msec
 - 2) Impedance at the Antenna input terminal : 75 ohms (Unbalanced)
 - 3) The symbol of '<' means 'or less'.
 - 4) Correction Factor includes a gain of preamplifier, a matching pad loss and an attenuation pad loss.
 - 5) A sample calculation was made at 61.27 MHz.
Correction Factor + Meter Reading = -16.2 + 15.0 = -1.2 dB/uV

Model No. : SLV-779HF

Serial No. : None

13. Test Equipment Used

Equipment	Manufacturer	Model No. [Serial No.]	Last Cal. [Cal. Interval]
Measuring Receiver	Rohde & Schwarz	ESH 3 [872994/035]	May, 1998 [1 year]
Measuring Receiver	Rohde & Schwarz	ESVP [881487/004]	May, 1998 [1 year]
Spectrum Analyzer	Hewlett Packard	8566B [2140A01091]	April, 1998 [1 year]
Line Impedance Stabilized Network	Kyoritsu Electrical Works	KNW-407 [8-1130-6]	April, 1998 [1 year]
Dipole Antenna	Kyoritsu Electrical Works	KBA-511 [0-170-1]	November, 1998 [1 year]
Dipole Antenna	Kyoritsu Electrical Works	KBA-611 [0-147-14]	November, 1998 [1 year]
Preamplifier	Hewlett Packard	8447D [1937A02168]	July, 1998 [1 year]
Vertical Internal Test Signal Generator (VITS)	Anritsu	MG318A [M08128]	June, 1998 [1 year]
Color TV Pattern Generator	Philips Consumer Electronics	PM 5418 TNSI [LO 609096]	June, 1998 [1 year]
Matching Pad	Wiltron	12N50/75B [90400]	June, 1998 [1 year]
6 dB Attenuation Pad	Weinschel	1 [AD8054]	June, 1998 [1 year]
3 dB Attenuation Pad	Weinschel	1 [AD9615]	June, 1998 [1 year]