Certification EMI TEST REPORT

Test Report No. : 26GE0303-YW-1

Applicant : Orion Electric Co., Ltd.

Type of equipment : DVD Recorder with Video Cassette Recorder

Model number : D-VR5SU

FCC ID : A7RM2J4A

Test standard : FCC Part 15 Subpart B
ICES-003 Issue No.4 Class B

Test result : Complied

Similar model :

Model No.	Brand name	Model No.	Brand name
D-VR5SC	TOSHIBA	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

1. This test report shall not be reproduced except in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with above regulation. We hereby certify that the data contain a true representation of the EMC profile.
4. The test results in this test report are traceable to the national or international standards.
5. This test report does not constitute an endorsement by NIST/NVLAP or U.S. Government.

Date of test : February 22 to March 15, 2006

Tested by:

Tsubasa Takayama
Engineer of EMC Service

Seigo Kakehi
Engineer of EMC Service

Toshifumi Yoneshige
Engineer of EMC Service

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Engineer of EMC Service

Approved by:

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Contents

Section 1 : Client information

Company name	:	Orion Electric Co., Ltd.
Address	:	41-1 Iehisa-cho, Echizen-shi, Fukui-ken, 915-8555 JAPAN
Telephone number	:	+81 778 23 0019
Facsimile number	:	+81 778 23 7799
Contact person	:	Yoshimasa Tanikawa

Section 2 : Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of equipment	:	DVD Recorder with Video Cassette Recorder
Brand Name	:	TOSHIBA
Model number	:	D-VR5SU
FCC ID	:	A7RM2J4A
Rating	:	AC 120 V / 60 Hz
Manufacturer	:	1. World Electric (Thailand) Ltd. 236 Moo 2 Nongchark, Banbung, Chonburi 20170, Thailand 2. Korat Denki Ltd. 149 Moo 10 Tambol Chokchai, Amphur Chokchai, Nakhonratchasima 30190, Thailand 228 Moo 3 Tambol Nongbuasala, Amphur Muang, Nakhonratchasima 30000, Thailand 3. Orion America, Inc. Hwy 41 North, Orion Place, Princeton, Indiana 47670, U.S.A
Receipt Date of Sample	:	February 22, 2006
Condition of EUT	:	Production Prototype (Not for Sale: This sample is equivalent to mass-produced items.)

2.2 Product description

Model: D-VR5SU (referred to as the EUT in this report) is a DVD Recorder with Video Cassette Recorder.
The EUT specifications is as follows.

Tuner type	:	Quartz PLL frequency synthesized
I / F	:	45.75 MHz (Picture), 41.25 MHz (Sound)
Receiving channel	:	VHF 2 – 13 ch / UHF 14 – 69 ch / CATV 1 – 125 ch
Antenna input	:	75 ohm
Video signal	:	NTSC color
Power source	:	AC 120 V / 60 Hz, 29W
I / O terminal (Video)	:	RCA in 1Vp-p 75 ohm, RCA out 1 Vp-p 75 ohm
I / O terminal (Audio)	:	RCA in –8 dB 47 k ohm, RCA out –8 dB 1 k ohm

Section 3 : Test specification, procedures and results

3.1 Test specification

Test specification: FCC Part 15 Subpart B
Title : FCC 47 CFR Part 15 Radio Frequency Device
Subpart B Unintentional Radiators

Test Specification : ICES-003 Issue No. 4
Title : Spectrum Management
Interference-Causing Equipment Standard
Digital Apparatus
*ICES-003 (Issue No. 4) is based on FCC Part 15.

3.2 Procedures & results

Item	Test procedure	Limits	Worst margin	Result
Conducted emission	ANSI C63.4:2003	CISPR 22	16.3 dB (14.3190 MHz/ 14.3192 MHz, QP, N, AV In 2+ Rec.)	Complied
Radiated emission	ANSI C63.4:2003 IEEE 187:1990	30–88 MH: 100 uV/m 88–216 MHz: 150 uV/m 216–960 MHz: 200 uV/m above 960 MHz: 500 uV/m	2.4 dB (741.75 MHz, Vertical; VCR +Rec.)	Complied
Antenna terminal voltage	ANSI C63.4:2003	2 nW (at 75 ohm)	23.8 dB (2624.286 MHz, Cable)	Complied
RF output level	ANSI C63.4:2003	Video signal: 3000 uV Aural signal: 671 uV	4.9 dB (61.25 MHz, 3ch, AV Input / VCR Playback)	Complied
Spurious emission		94.8 uV	23.4 dB (617.1300 MHz, 4ch, DVD Play)	Complied
Transfer switch	ANSI C63.4:2003	9.5 dB	3.2 dB (403.5000 MHz/ 269.000 MHz, 4ch, VCR Play)	Complied
Picture sensitivity	ANSI C63.4:2003	8 dB	1.8 dB	Complied
Noise figure	FCC/OET MP:2:1986	14 dB	1.8 dB (651.25 MHz, 44ch)	Complied

For ICES-003, only the tests, which relate to the digital device of conducted emission and radiated emission, were performed.

3.3 Additions or deviations to standard

No addition, deviation or exclusion has been made from standards.

3.4 Confirmation

UL Apex Co., Ltd. hereby confirms that E.U.T., in the configuration tests, complies with the specifications FCC Part15 Subpart B and ICES-003 Issue No. 4.

3.5 Uncertainty

Conducted emission (150 kHz – 30 MHz)

The measurement uncertainty (with a 95% confidence level) for this test was ± 2.8 dB.
The data listed in this test report has enough margin, more than site margin.

Radiated emission

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ±4.5 dB.
The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ±4.2 dB.
The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is ±5.6 dB.
The data listed in this test report meets the limits unless the uncertainty is taken into consideration.

Antenna terminal voltage

The measurement uncertainty (with a 95% confidence level) for this test was ± 2.3 dB.
The data listed in this test report has enough margin, more than site margin.

RF output level test / spurious emission test

The measurement uncertainty (with a 95% confidence level) for this test was ± 2.3 dB.
The data listed in this test report has enough margin, more than site margin.

Antenna transfer switch

The measurement uncertainty (with a 95% confidence level) for this test was ± 2.3 dB.
The data listed in this test report has enough margin, more than site margin.

Picture sensitivity test

The measurement uncertainty (with a 95% confidence level) for this test was ± 1.0 dB.
The data listed in this test report has enough margin, more than site margin.

Noise Figure Test

The measurement uncertainty (with a 95% confidence level) for this test was ± 1.2 dB.
The data listed in this test report has enough margin, more than site margin.

3.7 Test location

UL Apex Co., Ltd. Yokowa EMC Lab.
108 Yokowa-cho, Ise-shi, Mie-ken, 516-1106 JAPAN
TEL : +81 596 39 1485
FAX : +81 596 39 0232

Test room	Width x Depth x Height (m)	Test room	Width x Depth x Height (m)
No.1 shielded room	5.5 x 6.4 x 2.7	No.7 shielded room	9.3 x 3.4 x 2.7
No.2 shielded room	4.5 x 3.6 x 2.7	No.1 EMS lab. (Full-anechoic chamber)	5.0 x 8.0 x 3.5
No.3 shielded room	3.6 x 7.2 x 2.4		
No.4 shielded room	5.5 x 5.0 x 2.4	No.2 EMS lab. (Full-anechoic chamber)	4.0 x 7.0 x 3.5
No.5 shielded room	5.5 x 4.3 x 2.5		
No.6 shielded room	5.2 x 3.2 x 2.9		

*NVLAP Lab. code : 200109-0
No.1 and No.3 sites have been fully described in a report submitted to FCC office, and listed on September 25, 2003.
(Registration number: 90412)
No.2 site has been fully described in a report submitted to FCC office, and listed on August 29, 2003.
(Registration number: 90411)

3.8 Test setup, Data of EMI & Test instruments

Please refer to Appendix 1 to 3.

Section 4 : Operation of E.U.T. during tests

4.1 Operating modes

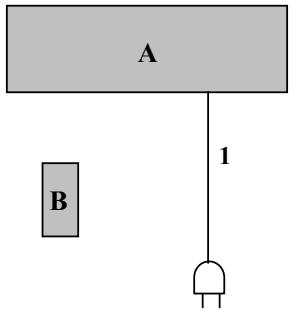
The EUT exercise program used during testing was designed exercise the various system components in a manner similar to typical use.

The sequence in used : * TV Reception + Rec. mode (0 dBmV input / 25 dBmV input)
* AV Input 1 + Rec. mode / AV Input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)
* i-Link + Rec. mode
* VCR Play + Rec. mode
* DVD Play + Rec. mode

Operation : The EUT was tested at above operation mode.

Justification : The system was configured in typical fashion (as a customer would normally use it) for testing.

4.2 Configuration and peripherals



* Cabling and setup were taken into consideration and test data was taken under worse case conditions.

Description of EUT and support equipment

Sign	Item	Model number	Serial number	Manufacturer	FCC ID	Remark
A	DVD Recorder with Video Cassette Recorder	D-VR5SU	-	Orion Electric Co., Ltd.	A7RM2J4A	EUT
B	Remote Controller	-	-	Orion Electric Co., Ltd.	-	EUT

List of cable used

No.	Item	Length (m)	Shield	Remark
1	AC Power Cable	1.6	Unshielded	2 wire

Section 5 : Conducted emission

5.1 Operation environment

The test was carried out No.1 shielded room.

Date : February 24, 2006
Temperature : See data
Humidity : See data

5.2 Test configuration

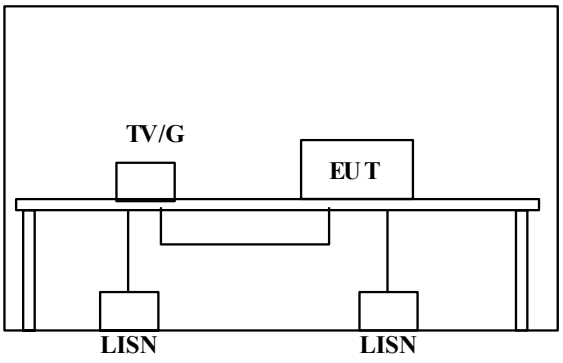
EUT was placed on a platform of nominal size, 1 m by 1.8 m, raised 80 cm above the conducting ground plane. The rear of tabletop was located 40 cm to the vertical conducting plane. The rear of EUT was aligned and flushed with rear of tabletop. All other surfaces of tabletop was at least 80 cm from any other grounded conducting surface. I/O cables and AC cable were bundled in center. I/O cables were hanged at a 40cm height to the ground plane. Each EUT current-carrying power lead, except the ground (safety) lead, were individually connected through a LISN to the input power source. All unused 50 ohm connectors of the LISN were resistively terminated in 50 ohm when not connected to the measuring equipment.

A drawing of the set up is shown in figure 1 and photographs in Appendix 1.

Figure 1. Conducted emission

TV Reception + Rec. mode (0 dBmV input / 25 dBmV input)

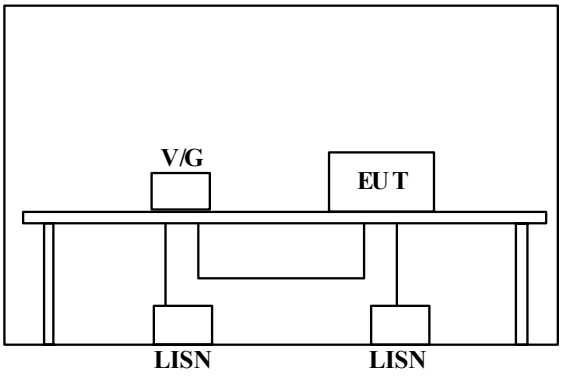
Shielded room



RF in: TV signal generator connected
Front video in: 75 ohm terminated
Front audio in: 47 k ohm terminated
Rear video out: 75 ohm terminated with video cable
Rear audio out: 1 k ohm terminated with audio cable
S-video out: 75 ohm terminated with S-video output cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated
Rear audio in: 47 k ohm terminated

AV Input 1 + Rec. mode/ AV Input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)

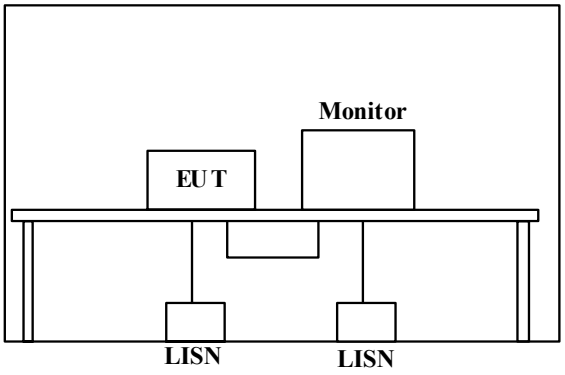
Shielded room



RF in: 75 ohm terminated
Front video in: Video signal generator connected or 75 ohm terminated
Front audio in: 47 k ohm terminated
Rear video out: 75 ohm terminated with video cable
Rear audio out: 1 k ohm terminated with audio cable
S-video out: 75 ohm terminated with S-video output cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: video signal generator connected or 75 ohm terminated
Rear audio in: 47 k ohm terminated

VCR Play + Rec. mode / DVD Play + Rec. mode / i-Link + Rec. mode

Shielded room



RF in: 75 ohm terminated with RF input cable
Front video in: 75 ohm terminated with video cable
Front audio in: 47 k ohm terminated with audio cable
Rear video out: monitor connected
Rear audio out: monitor connected
S-video out: 75 ohm terminated with S-video output cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated with video cable
Rear audio in: 47 k ohm terminated with audio cable

5.3 Test conditions

Frequency range : 0.15 MHz – 30 MHz
EUT position : Table top
EUT operation mode : TV Reception + Rec., AV Input 1+ Rec., AV Input 2 + Rec., VCR Play + Rec., DVD Play + Rec., i-Link + Rec.

5.4 Test procedure

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT within a shielded room. The EUT was connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection has been performed. The measurements have been performed with a quasi-peak detector and if required, with an average detector.
The conducted emission measurements were made with the following detector function of the test receiver.
Detector Type : QP
IF Bandwidth : 10 kHz

5.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Seigo Kakehi

Section 6 : Radiated emission

6.1 Operation environment

The test was carried out in No.2 and No.3 open site.

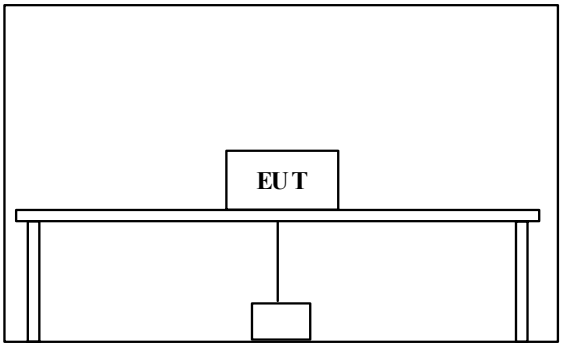
Date : February 27 and March 15, 2006
Temperature : See data
Humidity : See data

6.2 Test configuration

EUT was placed on a platform of nominal size, 1 m by 1.8 m, raised 80 cm above the conducting ground plane. The rear of EUT was aligned and flushed with rear of tabletop. AC cable was bundled in center. I/O cables were hanged 40 cm height to the ground plane. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.
A drawing of the set up is shown in photographs in Appendix 1.

TV Reception + Rec. mode (0 dBmV / 25 dBmV)

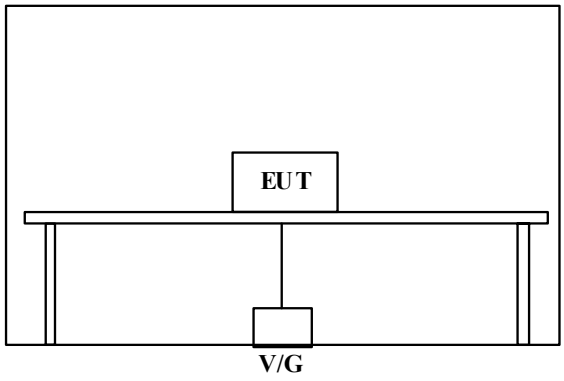
Open test site



RF in: TV signal generator connected or 75 ohm terminated
Front video in: 75 ohm terminated
Front audio in: 47 k ohm terminated
Rear video out: 75 ohm terminated with video cable
Rear audio out: 1 k ohm terminated with audio cable
S-video out: 75 ohm terminated with S-video output cable
Component ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated
Rear audio in: 47 k ohm terminated

AV Input 1 + Rec. mode/ AV Input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)

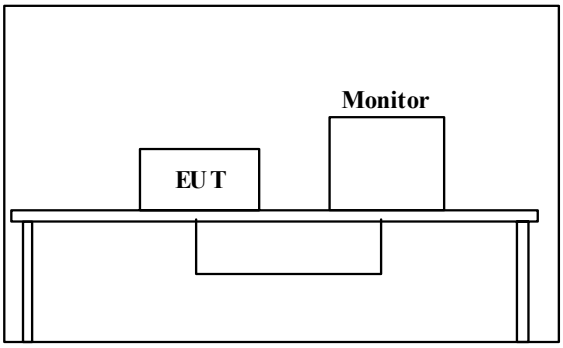
Open test site



RF in: 75 ohm terminated
Front video in: Video signal generator connected or 75 ohm terminated
Front audio in: 47 k ohm terminated
Rear video out: 75 ohm terminated with video cable
Rear audio out: 1 k ohm terminated with audio cable
S-video out: 75 ohm terminated with S-video output cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: video signal generator connected or 75 ohm terminated
Rear audio in: 47 k ohm terminated

VCR Play + Rec. mode / DVD Play + Rec. mode / i-Link + Rec. mode

Open test site



RF in: 75 ohm terminated with RF input cable
Front video in: 75 ohm terminated with video cable
Front audio in: 47 k ohm terminated with audio cable
Rear video out: monitor connected
Rear audio out: monitor connected
S-video out: 75 ohm terminated with S-video output cable
Component out ($Y/P_B/P_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable
Rear video in: 75 ohm terminated with video cable
Rear audio in: 47 k ohm terminated with audio cable

6.3 Test conditions

Frequency range	:	30 MHz – 5000 MHz
Test distance	:	3 m
EUT position	:	Table top
EUT operation mode	:	TV Reception + Rec., AV Input 1+ Rec., AV Input 2 + Rec., VCR Play + Rec., DVD Play + Rec., i-Link + Rec.

6.4 Test procedure

The Radiated Electric Field Strength intensity has been measured on an open test site with a ground plane and at a distance of 3 m.
Pre check measurements were performed within a search coil at high level of 30MHz – 1000MHz in a shielded room to distinguish disturbances of EUT from the ambient noise. The measuring antenna height was varied between 1 and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for both vertical and horizontal antenna polarization.
The radiated emission measurements were made with the following detector function of the test receiver and spectrum analyzer.

	30-1000 MHz (Test receiver)	1000-5000 MHz (Spectrum analyzer)	
Detector Type	: QP	: PK	: AV
IF Bandwidth	: 120kHz	: RBW 1MHz / VBW 1MHz	: RBW 1MHz/ VBW 10Hz

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

6.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Yuichi Kaneyama, Toshifumi Yoneshige and Tsubasa Takayama

Section 7 : Antenna terminal voltage

7.1 Operation environment

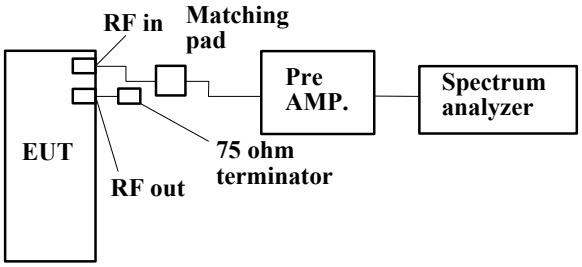
The test was carried out in No.7 shielded room.

Date : February 22, 2006
Temperature : See data
Humidity : See data

7.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane.
A drawing of the set up is shown in figure 2 and photographs in Appendix 1.

Figure 2. Antenna terminal voltage



7.3 Test conditions

Frequency range : 30 MHz – 5000 MHz
EUT position : Table top
EUT operation mode : Tuning (Air / Cable)

7.4 Test procedure

Connect EUT and spectrum analyzer through pre-amplifier. Set EUT to CH investigation mode then measure the voltage of local leakage from antenna terminal. Spectrum analyzer should be hold in maximum mode during the measurement.

Detector Type : Peak (30-5000 MHz)

At frequency between 2000 MHz and 5000 MHz, 75/50ohm conversion loss of impedance is used in speculation.

7.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Seigo Kakehi

Section 8 : RF output level / spurious emission

8.1 Operation environment

The test was carried out in No.7 shielded room.

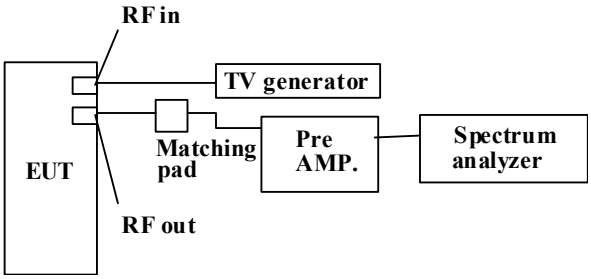
Date : February 23 and 28, 2006
Temperature : See data
Humidity : See data

8.2 Test configuration

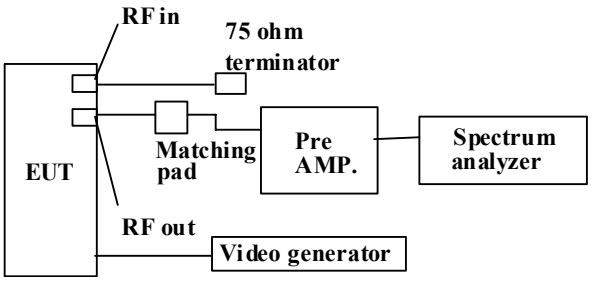
The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane.
A drawing of the set up is shown in figure 3 and photographs in Appendix 1.

Figure 3. RF output level

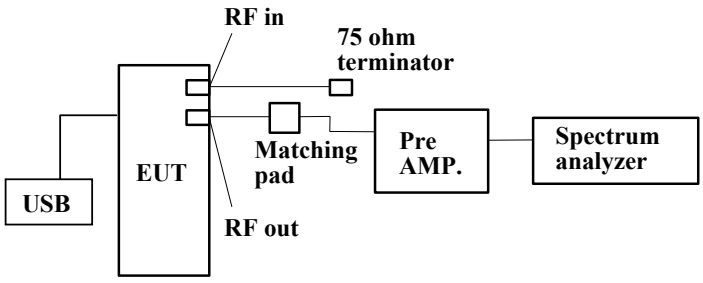
TV Reception + Rec. mode (0dBmV / 25dBmV)



AV Input 1 + Rec. mode / AV Input 2 + Rec. mode (1 Vp-p input / 5 Vp-p input)



VCR Play + Rec. mode / DVD Play + Rec. mode / i-Link + Rec. mode



8.3 Test conditions

EUT position : Table top
EUT operation mode : TV Reception + Rec., AV Input 1+ Rec., AV Input 2 + Rec., VCR Play + Rec., DVD Play + Rec., i-Link + Rec.

8.4 Test procedure

EUT was connected spectrum analyzer through matching pad by accessory cable. RF channel selected 3ch or 4ch. Picture carrier, sound carrier and spurious levels are measured. Both sound carrier levels (upper and lower side bands) of modulator output are measured.

Detector Type : Peak

8.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Seigo Kakehi

Section 9 : Antenna transfer switch

9.1 Operation environment

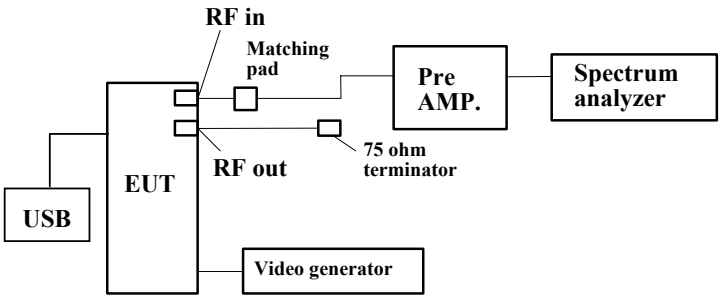
The test was carried out in No.7 shielded room.

Date : February 28, 2006
Temperature : See data
Humidity : See data

9.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane.
A drawing of the set up is shown in figure 4 and photographs in Appendix 1.

Figure 4. Transfer switch



9.3 Test conditions

EUT position : Table top
EUT operation mode : AV Input 1+ Rec., AV Input 2 + Rec., VCR Play + Rec., DVD Play + Rec., i-Link + Rec.

9.4 Test procedure

EUT was connected spectrum analyzer through matching pad by accessory cable. RF channel selected 3ch or 4ch. Interference signals were measured from RF input terminal.

Detector Type : Peak

9.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Seigo Kakehi

Section 10 : Picture sensitivity

10.1 Operation environment

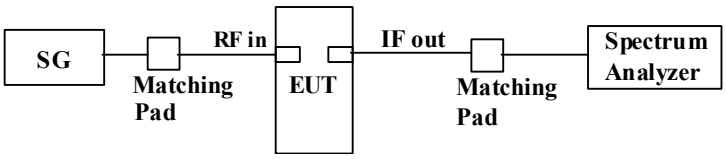
The test was carried out in No.7 shielded room.

Date : February 22, 2006
Temperature : See data
Humidity : See data

10.2 Test configuration

The EUT was placed on a non-metallic platform 0.8 m above a reference ground plane.
A drawing of the set up is shown in figure 5 and photographs in Appendix 1.

Figure 5. Picture sensitivity



10.3 Test conditions

EUT position : Table top
EUT operation mode : TV Reception

10.4 Test procedure

Signal generator setup is as follows, (Example: 2ch – 55.25 MHz, AM, 1 kHz, 30 %)
The EUT was tuned to appropriate channel.
Output level of signal generator was adjusted to near the frequency output level of EUT output.
EUT output level was adjusted to maximum output level by frequency adjustment of signal generator.
Signal generator output level was adjusted to reference output level of EUT and output level had read.

10.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

Test engineer: Seigo Kakehi

Section 11 : Noise figure

11.1 Operating environment

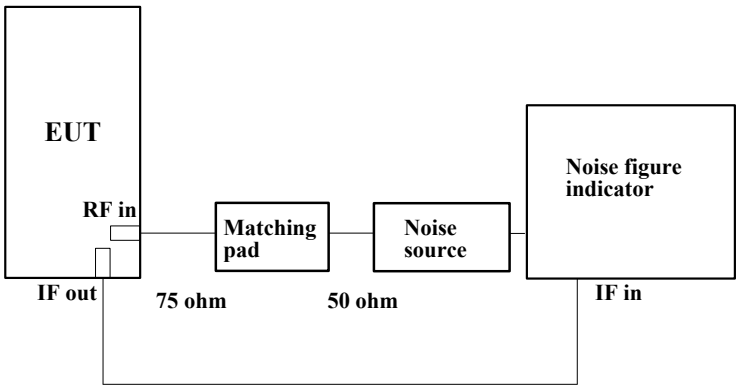
The test was carried out in No.7 shielded room.

Date : February 23, 2006
Temperature : See data
Humidity : See data

11.2 Test configuration

The EUT was placed on a non-metallic table.
A drawing of the set up is shown in figure 6 and photographs in Appendix 1.

Figure 6. Noise figure



11.3 Test condition

EUT position : Table top
EUT operation mode : TV Reception

11.4 Test procedure

This test should be performed in a shielded room or an low noise environment. Connect solid state noise source to antenna input terminal of EUT. Connect IF output terminal of EUT to noise meter. Measurement has been performed for VHF,UHF, Mid-band and Super-band receiver range.

11.5 Test result

Passed
Please refer to summary of the test results in Appendix 2.

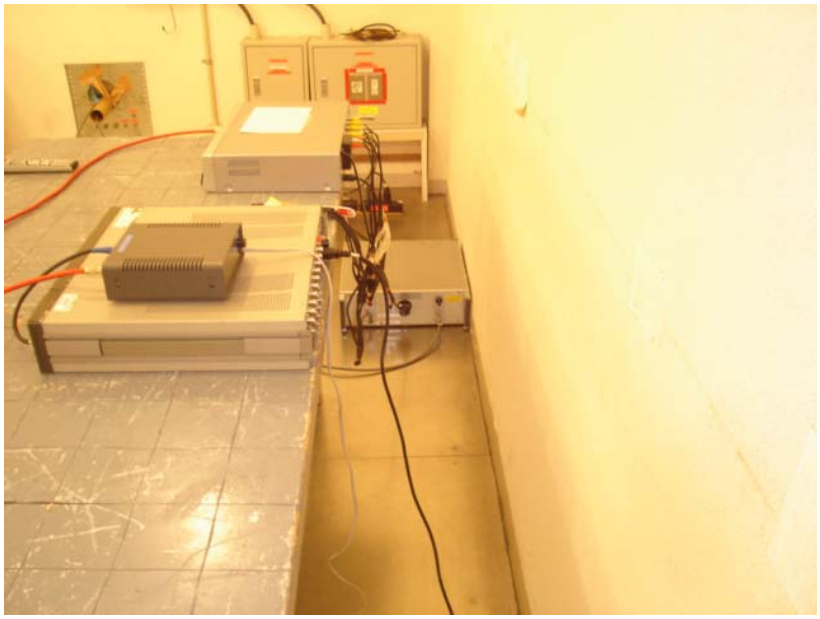
Test engineer: Seigo Kakehi

Appendix 1 : Photographs of test set up

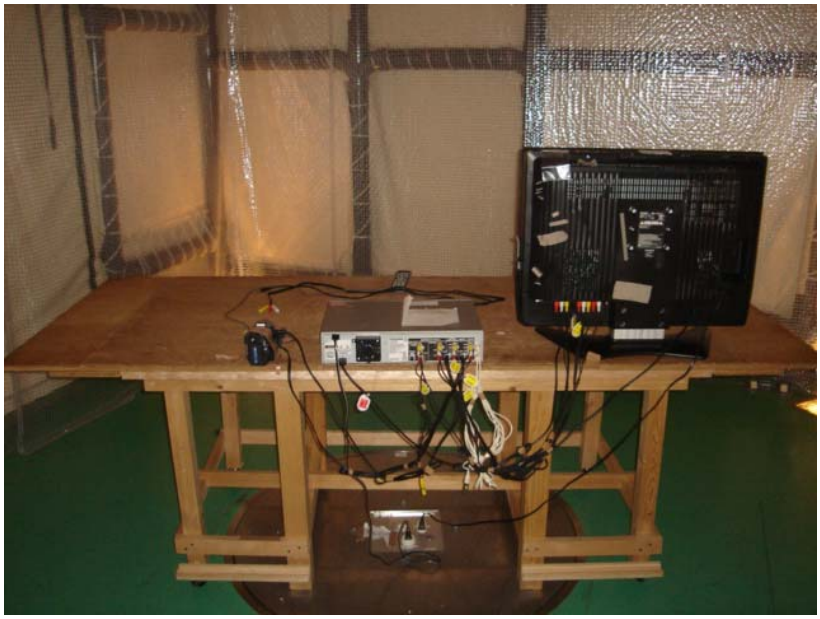
Appendix 2 : Data of EMI tests

Appendix 3 : Test instruments

Conducted emission

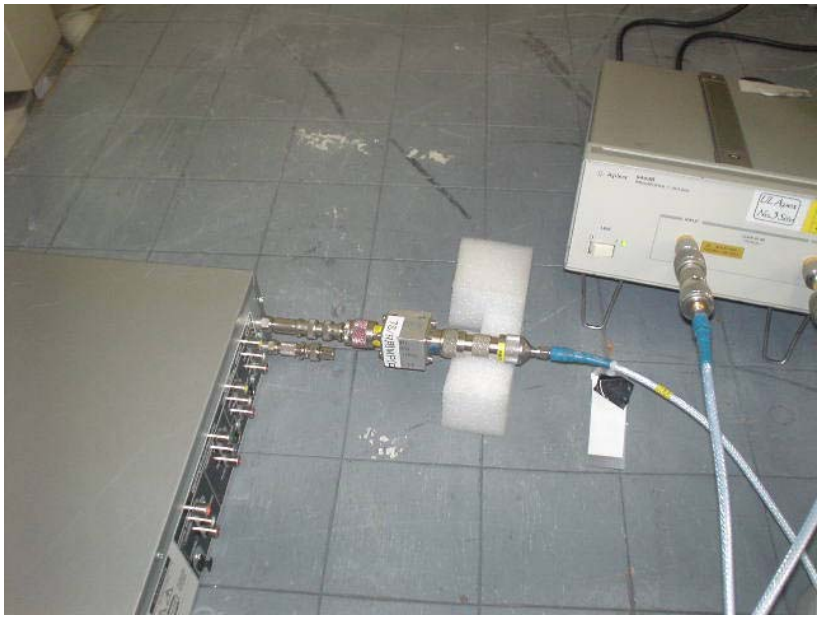


Radiated emission



UL Apex Co., Ltd.
Yokowa EMC Lab.
108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 JAPAN
Telephone: +81 596 39 1485
Facsimile: +81 596 39 0232

Antenna terminal voltage



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Facsimile: +81 596 39 0232

RF output level / spurious emission

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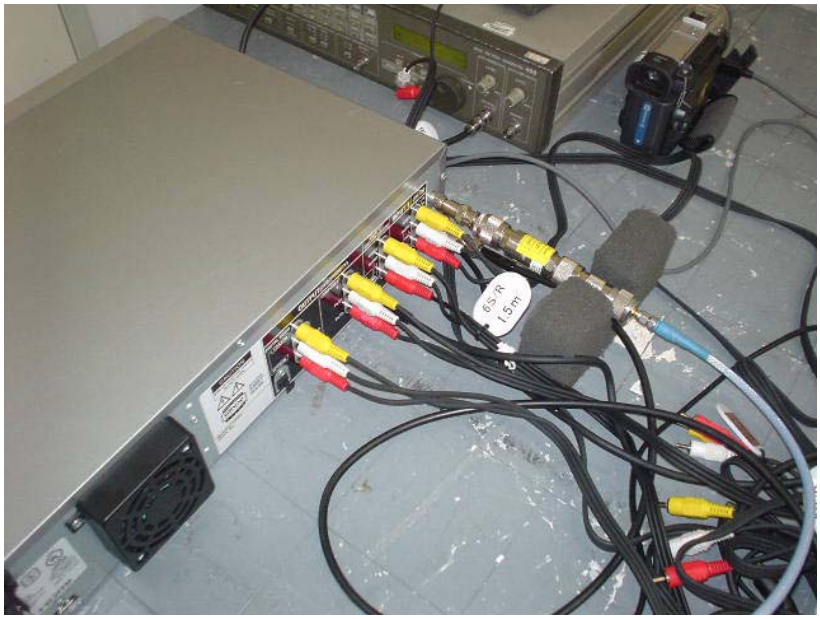
Antenna transfer switch



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Picture sensitivity

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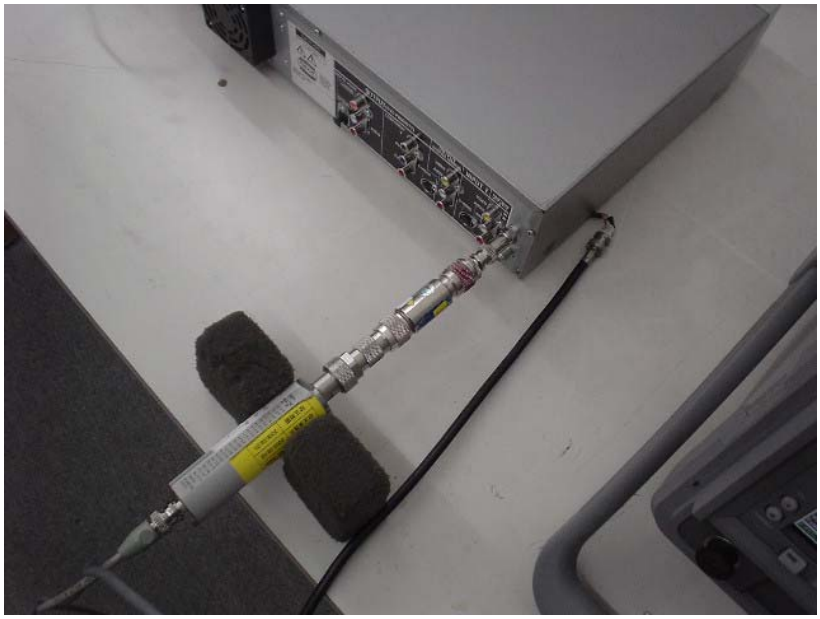
Noise figure



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Yokowa EMC Lab.
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Telephone: +81 596 39 1485
Facsimile: +81 596 39 0232

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant : **Orion Electric Co.,Ltd.**
Kind of Equipment : **DVD Recorder with Video Cassette Recorder**
Model No. : **D-VR5SU**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **TV Reception+Rec(0dBmV)**
Remarks :
Date : **2/24/2006**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer : Seigo Kakehi**
Humidity : **35 %**
Regulation : **FCC Part15B CLASS B(2003)**

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1659	45.0	-	45.1	-	0.1	0.1	0.0	45.3	-	65.2	55.2	19.9	-
2.	0.2063	34.5	-	35.1	-	0.1	0.1	0.0	35.3	-	63.4	53.4	28.1	-
3.	0.2486	34.1	-	34.6	-	0.1	0.1	0.0	34.8	-	61.8	51.8	27.0	-
4.	0.5360	21.6	-	22.1	-	0.2	0.1	0.0	22.4	-	56.0	46.0	33.6	-
5.	1.0407	16.3	-	17.4	-	0.2	0.2	0.0	17.8	-	56.0	46.0	38.2	-
6.	8.3287	6.7	-	5.6	-	0.5	0.5	0.0	7.7	-	60.0	50.0	52.3	-

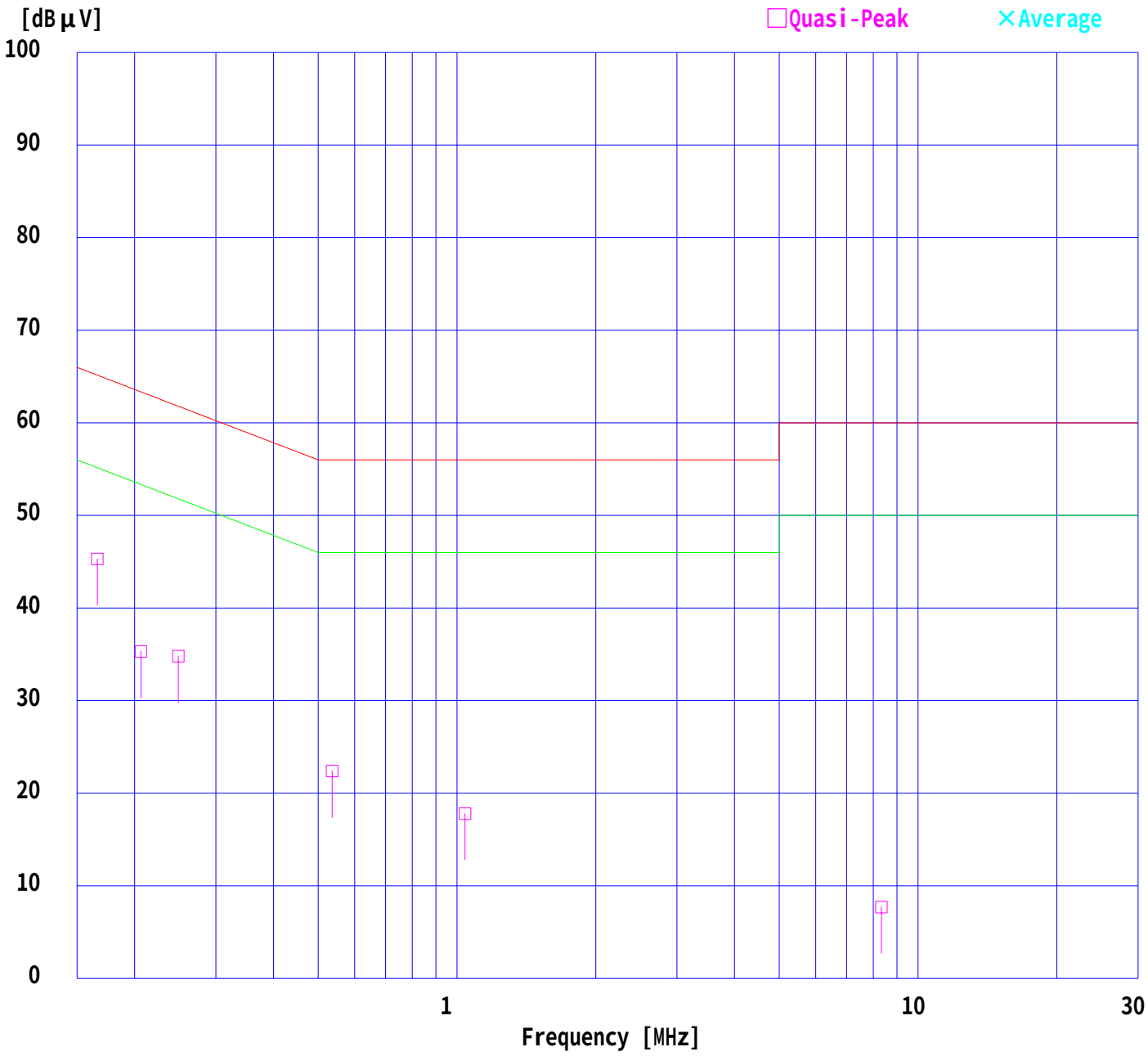
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

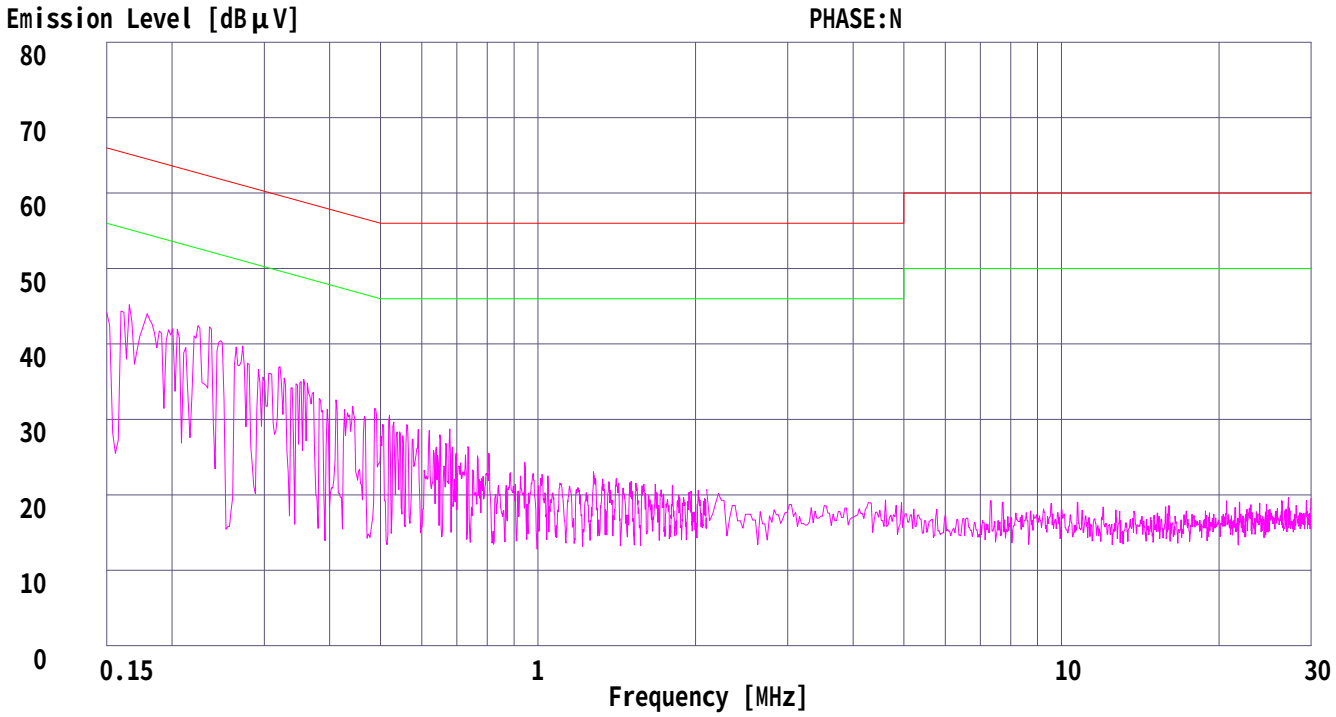
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec(0dBmV)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 ℃	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation	: FCC Part15B CLASS B(2003)		

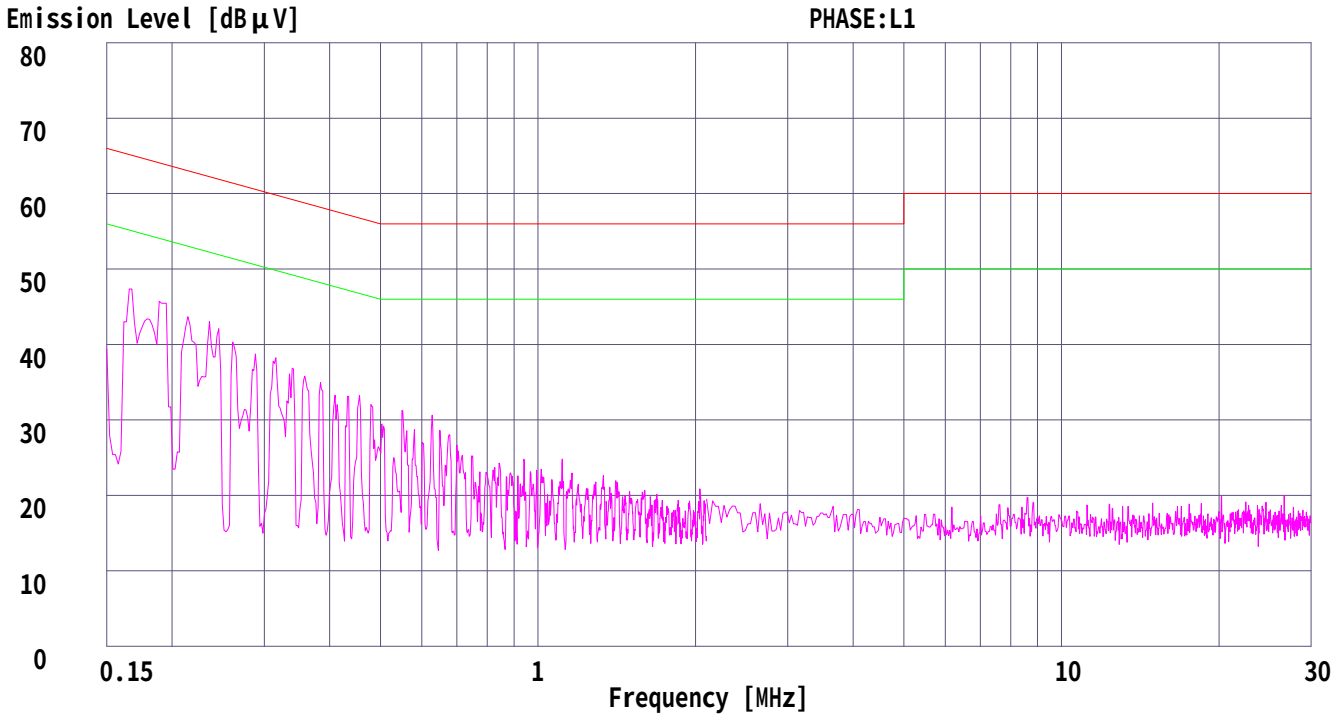


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec(0dBmV)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation 1	: FCC Part15B CLASS B(2003)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant : **Orion Electric Co.,Ltd.**
Kind of Equipment : **DVD Recorder with Video Cassette Recorder**
Model No. : **D-VR5SU**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **TV Reception+Rec(25dBmV)**
Remarks :
Date : **2/24/2006**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer** : **Seigo Kakehi**
Humidity : **35 %**
Regulation : **FCC Part15B CLASS B(2003)**

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1656	44.8	-	44.9	-	0.1	0.1	0.0	45.1	-	65.2	55.2	20.1	-
2.	0.2088	34.3	-	35.2	-	0.1	0.1	0.0	35.4	-	63.3	53.3	27.9	-
3.	0.2489	33.8	-	34.6	-	0.1	0.1	0.0	34.8	-	61.8	51.8	27.0	-
4.	0.5418	21.7	-	22.7	-	0.2	0.1	0.0	23.0	-	56.0	46.0	33.0	-
5.	1.0485	16.8	-	17.8	-	0.2	0.2	0.0	18.2	-	56.0	46.0	37.8	-
6.	11.4579	0.3	-	0.2	-	0.6	0.6	0.0	1.5	-	60.0	50.0	58.5	-

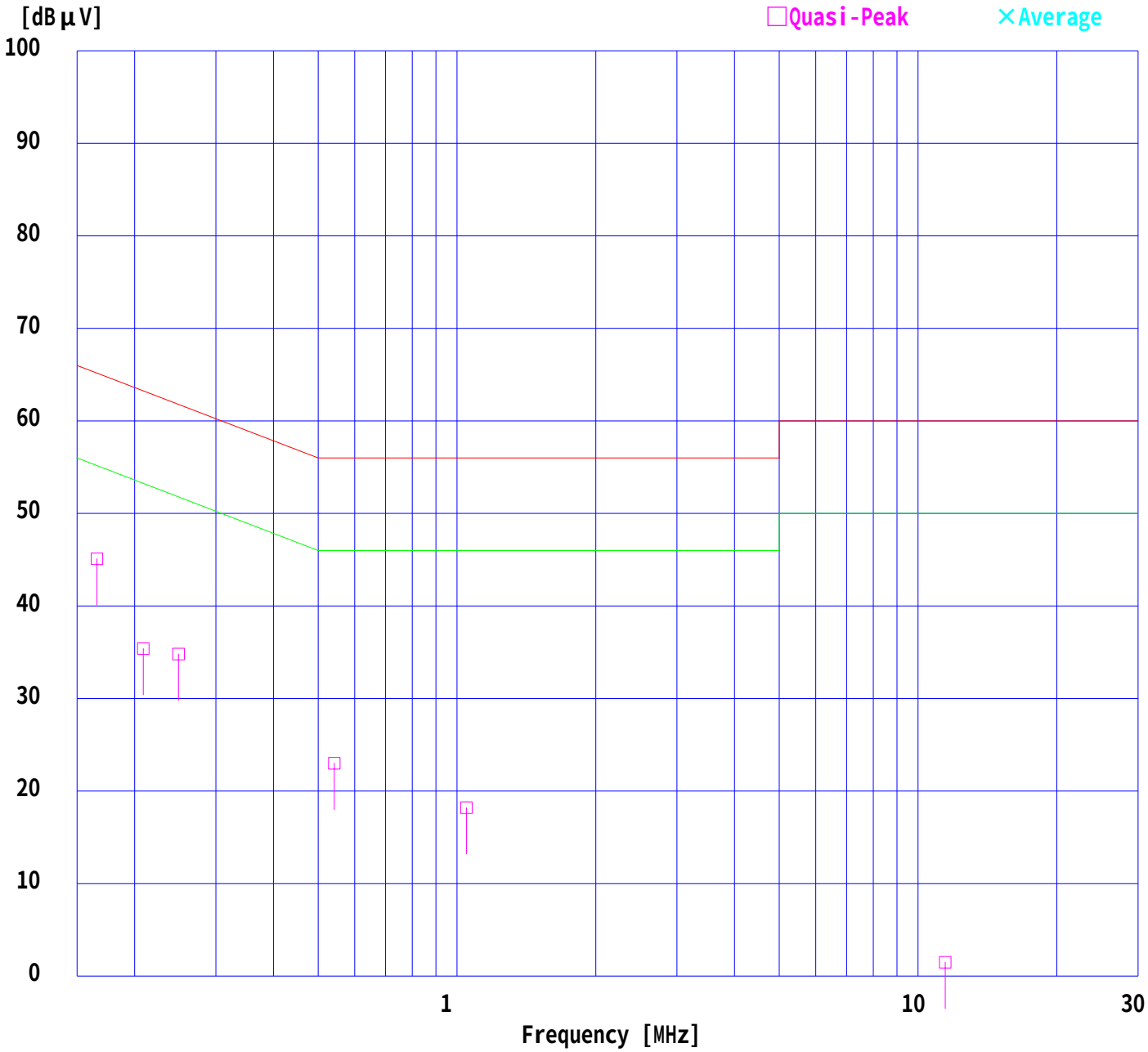
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

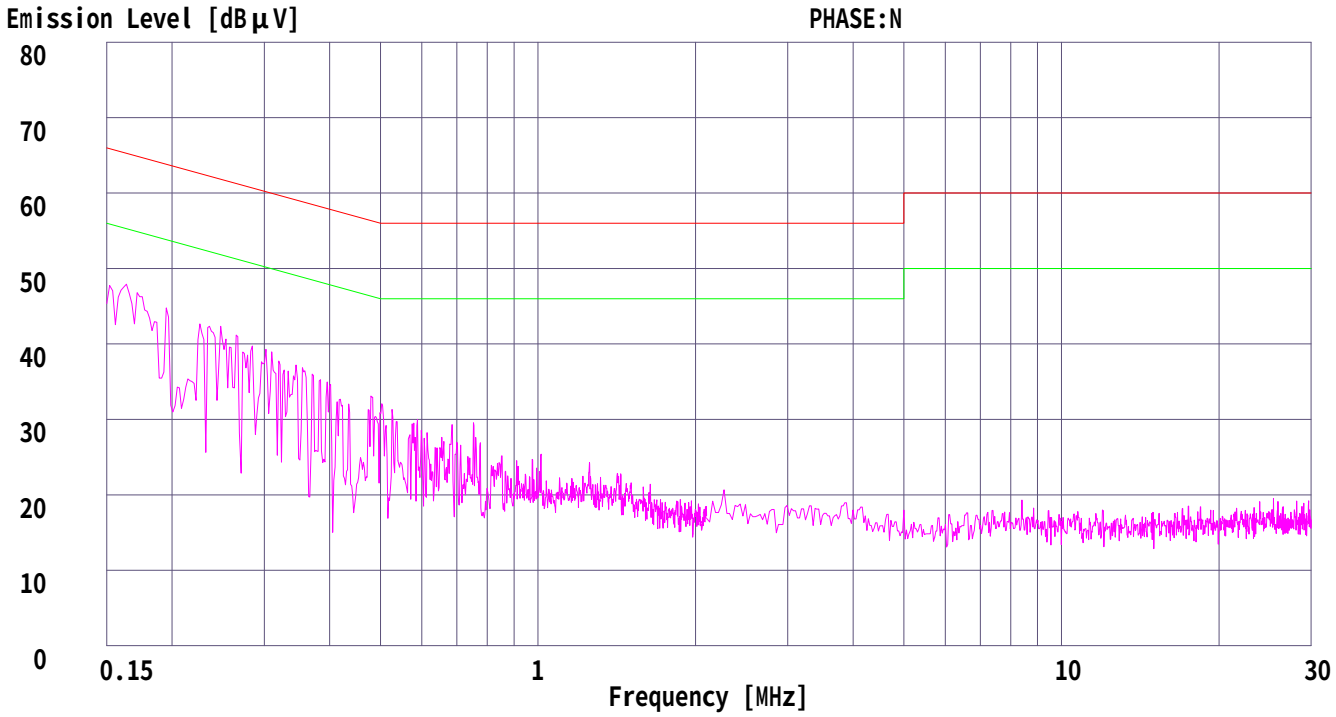
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec(25dBmV)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation	: FCC Part15B CLASS B(2003)		

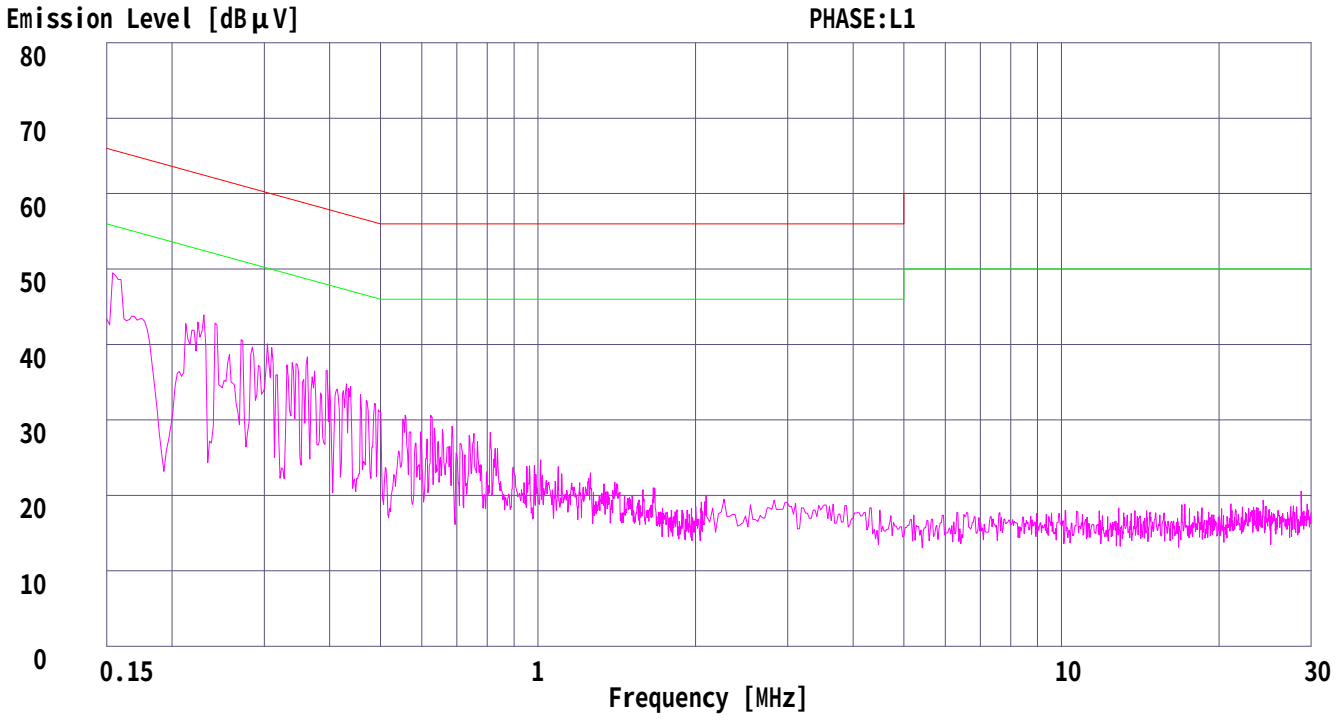


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec(25dBmV)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation 1	: FCC Part15B CLASS B(2003)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant : **Orion Electric Co.,Ltd.**
Kind of Equipment : **DVD Recorder with Video Cassette Recorder**
Model No. : **D-VR5SU**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **AV Input1+Rec(1Vp-p)**
Remarks :
Date : **2/24/2006**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer : Seigo Kakehi**
Humidity : **35 %**
Regulation : **FCC Part15B CLASS B(2003)**

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1658	44.7	-	45.1	-	0.1	0.1	0.0	45.3	-	65.2	55.2	19.9	-
2.	0.2077	33.9	-	34.8	-	0.1	0.1	0.0	35.0	-	63.3	53.3	28.3	-
3.	0.2481	33.7	-	34.6	-	0.1	0.1	0.0	34.8	-	61.8	51.8	27.0	-
4.	0.5394	21.6	-	22.6	-	0.2	0.1	0.0	22.9	-	56.0	46.0	33.1	-
5.	1.0543	16.8	-	17.6	-	0.2	0.2	0.0	18.0	-	56.0	46.0	38.0	-
6.	14.3156	18.9	-	18.6	-	0.7	0.7	0.0	20.3	-	60.0	50.0	39.7	-

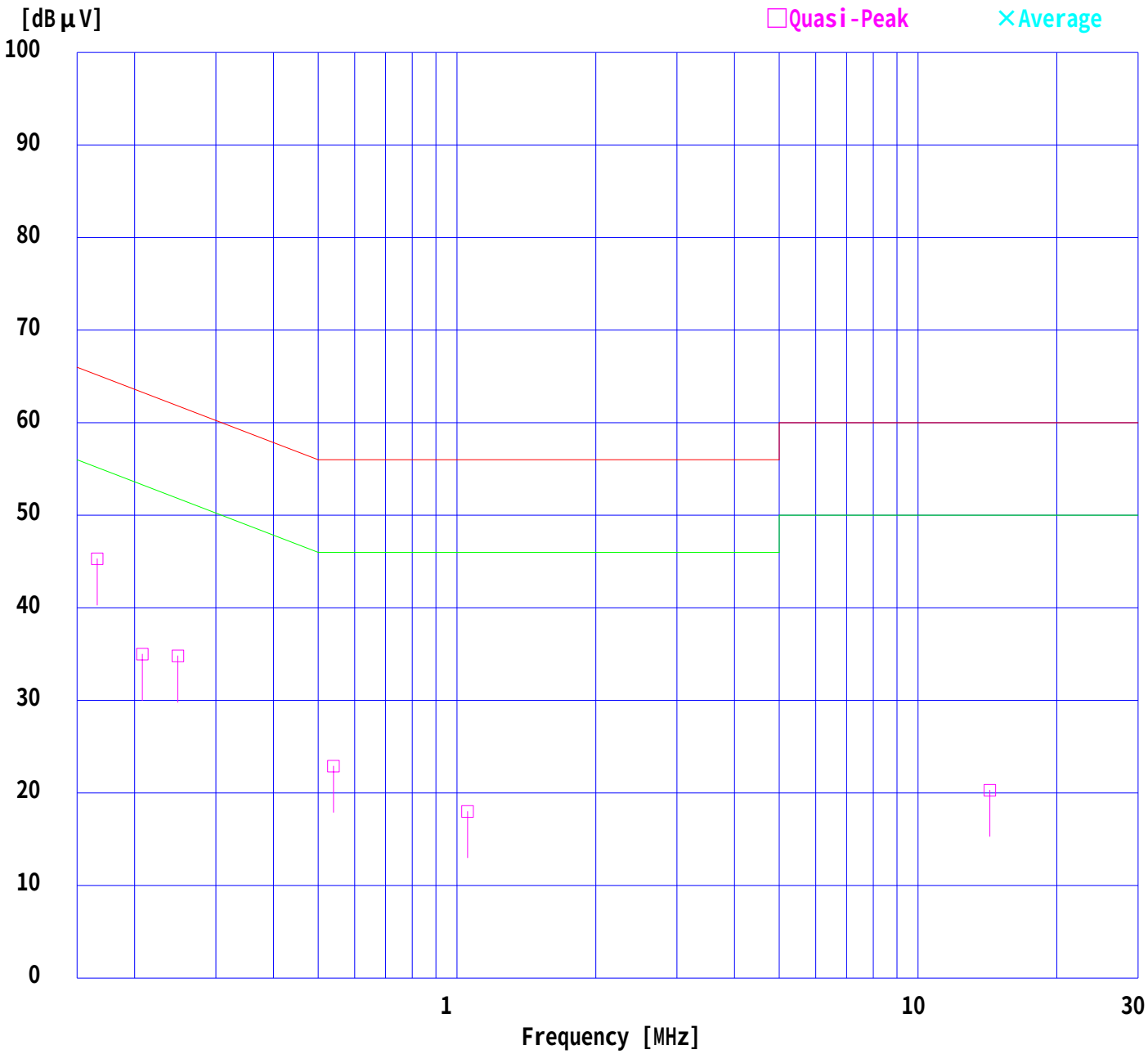
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

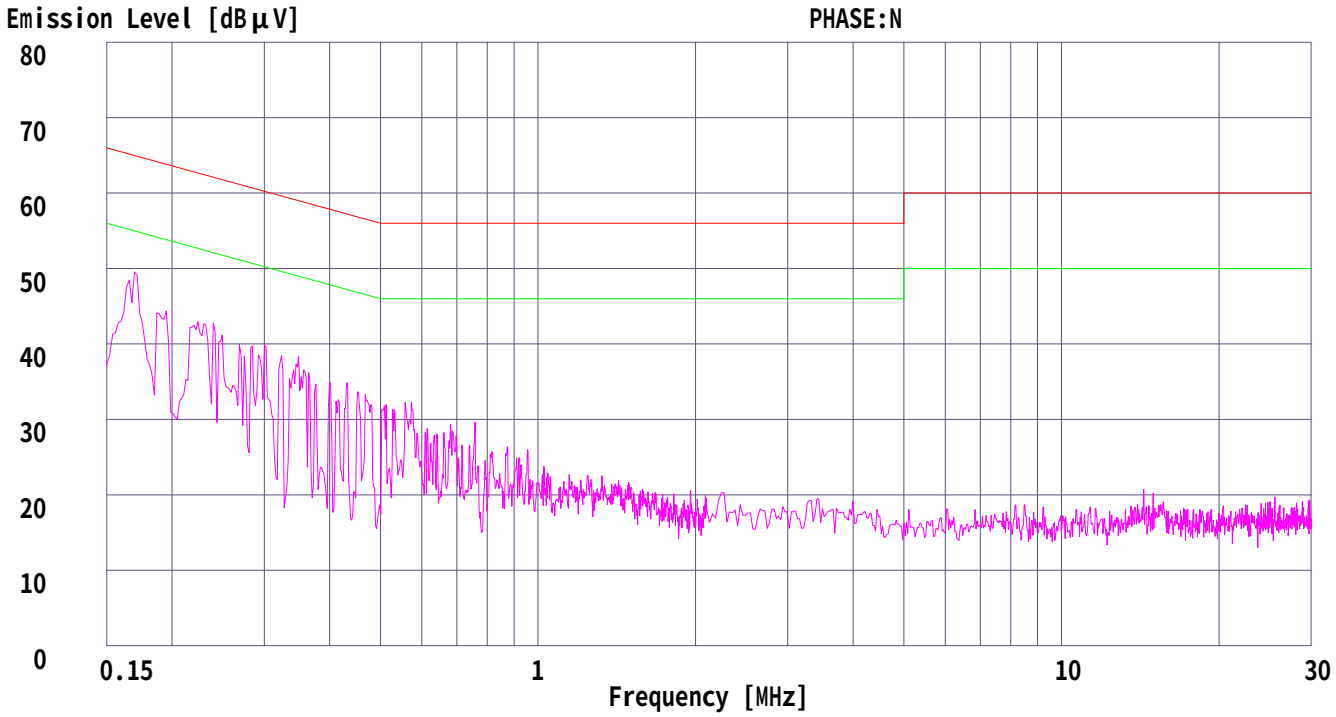
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input1+Rec(1Vp-p)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation	: FCC Part15B CLASS B(2003)		

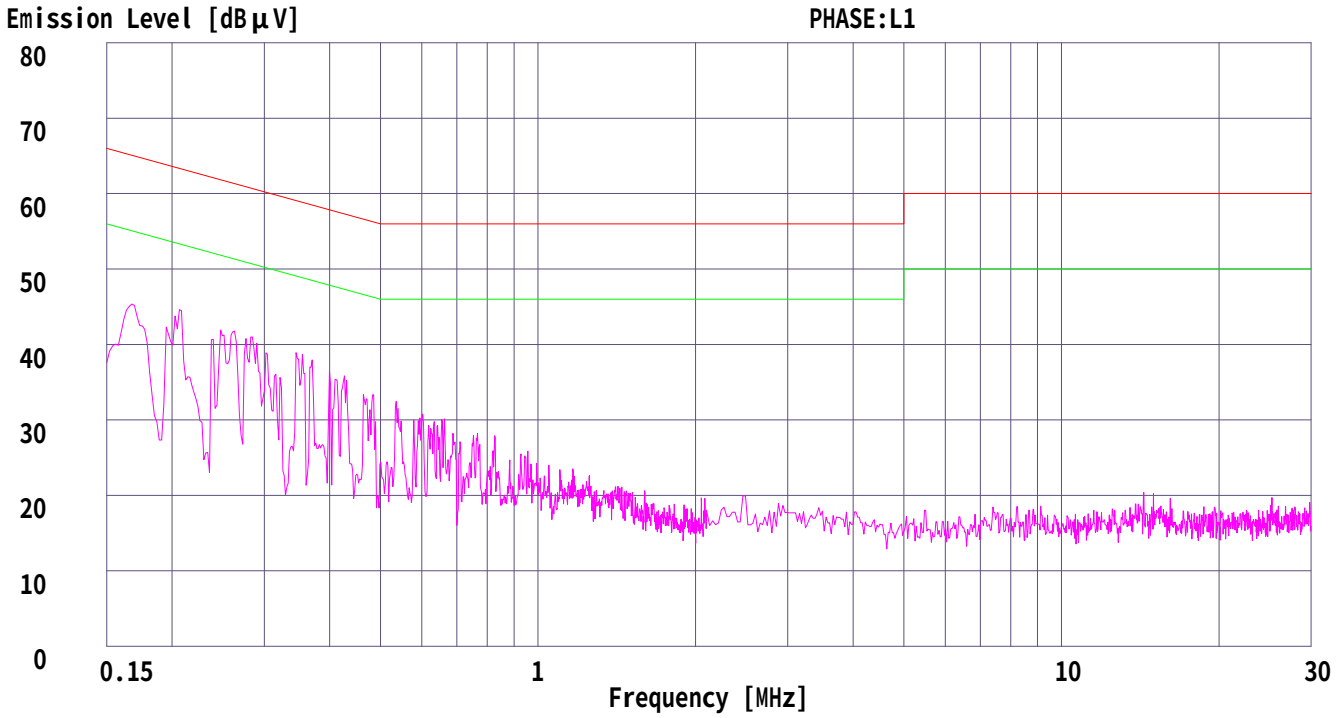


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input1+Rec(1Vp-p)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation 1	: FCC Part15B CLASS B(2003)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant : **Orion Electric Co.,Ltd.**
Kind of Equipment : **DVD Recorder with Video Cassette Recorder**
Model No. : **D-VR5SU**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **AV Input1+Rec(5Vp-p)**
Remarks :
Date : **2/24/2006**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer** : **Seigo Kakehi**
Humidity : **35 %**
Regulation : **FCC Part15B CLASS B(2003)**

No.	FREQ.	READING(N)		READING(L1)		LISN	CABLE	ATTEN.	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV	FACTOR	LOSS		QP	AV	QP	AV	QP	AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1812	41.6	-	43.6	-	0.1	0.1	0.0	43.8	-	64.4	54.4	20.6	-
2.	0.2263	35.1	-	36.4	-	0.1	0.1	0.0	36.6	-	62.6	52.6	26.0	-
3.	0.3171	30.1	-	30.7	-	0.1	0.1	0.0	30.9	-	59.8	49.8	28.9	-
4.	0.5858	21.5	-	23.4	-	0.2	0.2	0.0	23.8	-	56.0	46.0	32.2	-
5.	3.5476	10.2	-	22.6	-	0.3	0.3	0.0	23.2	-	56.0	46.0	32.8	-
6.	14.3196	41.4	-	38.7	-	0.7	0.7	0.0	42.8	-	60.0	50.0	17.2	-

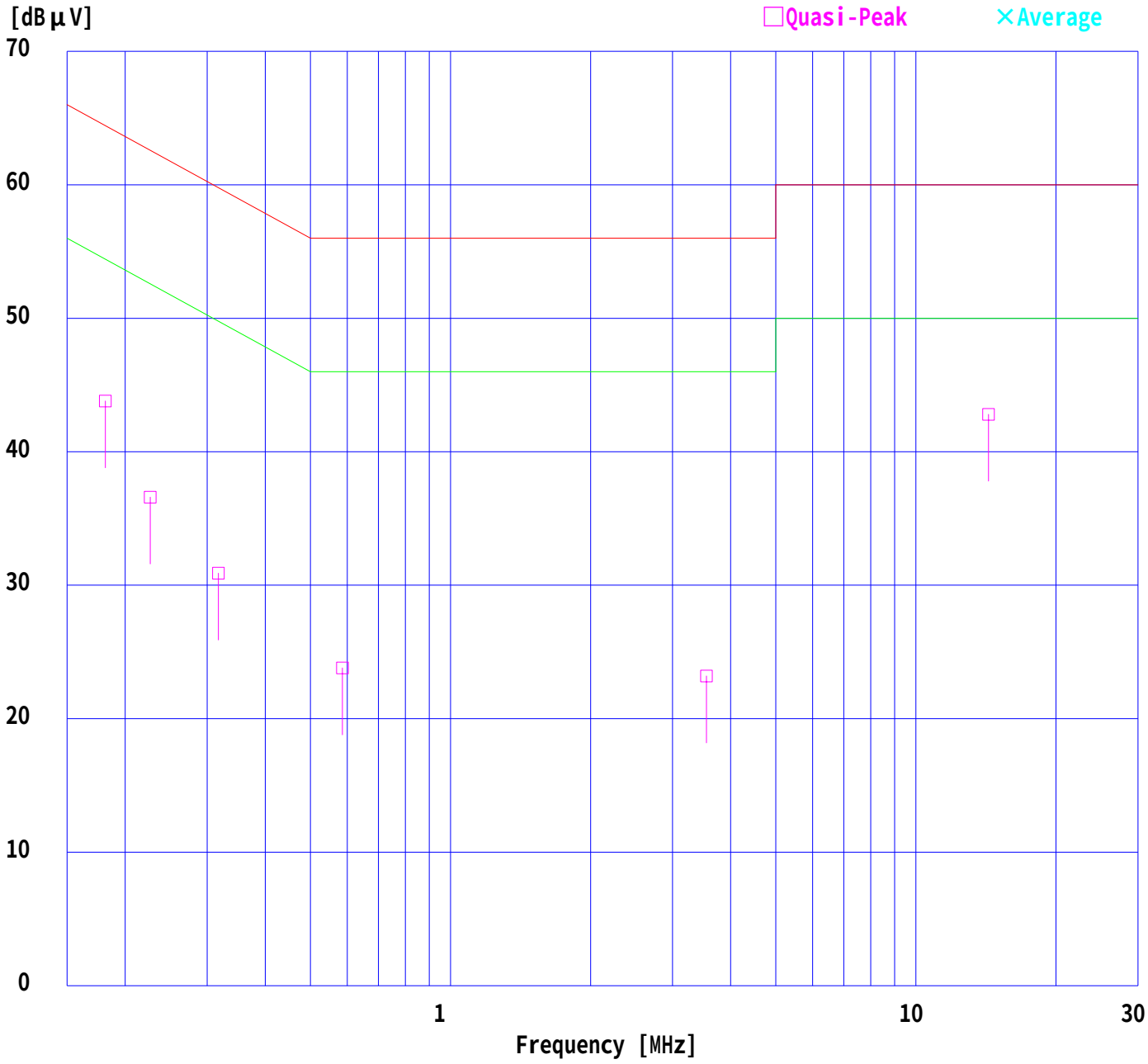
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

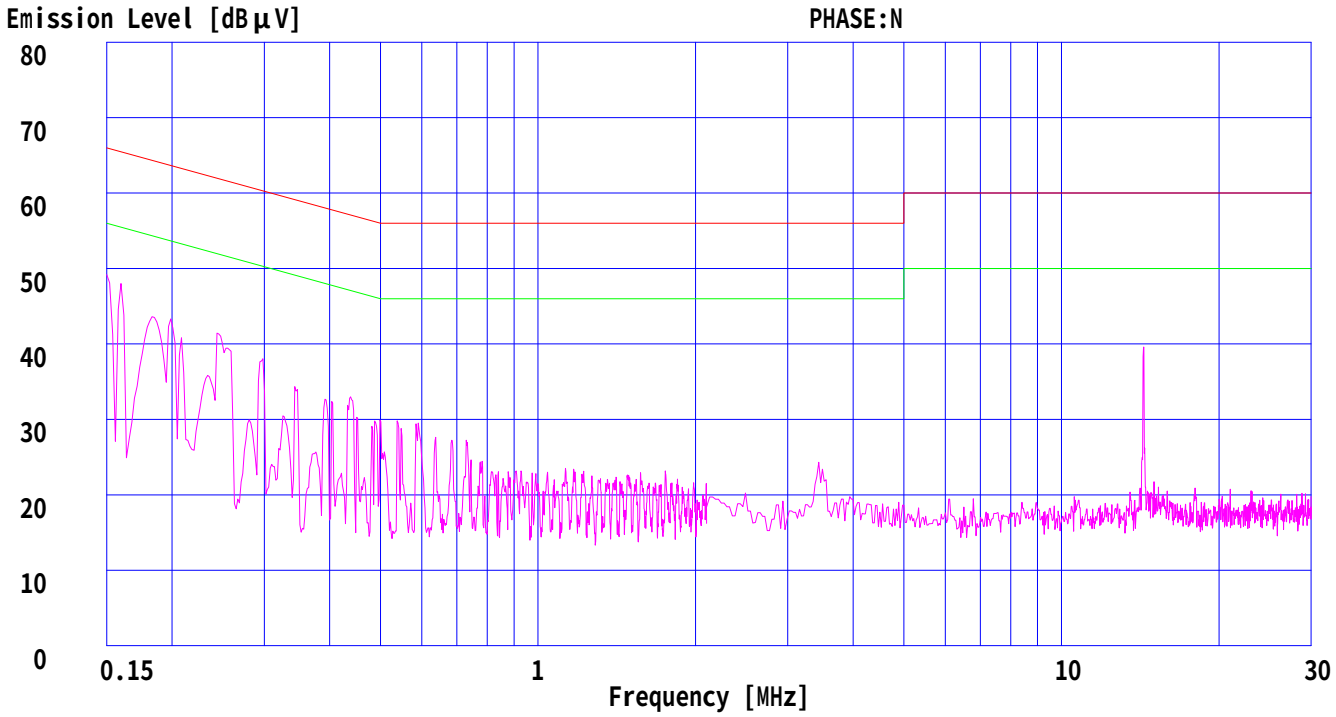
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input1+Rec(5Vp-p)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation	: FCC Part15B CLASS B(2003)		

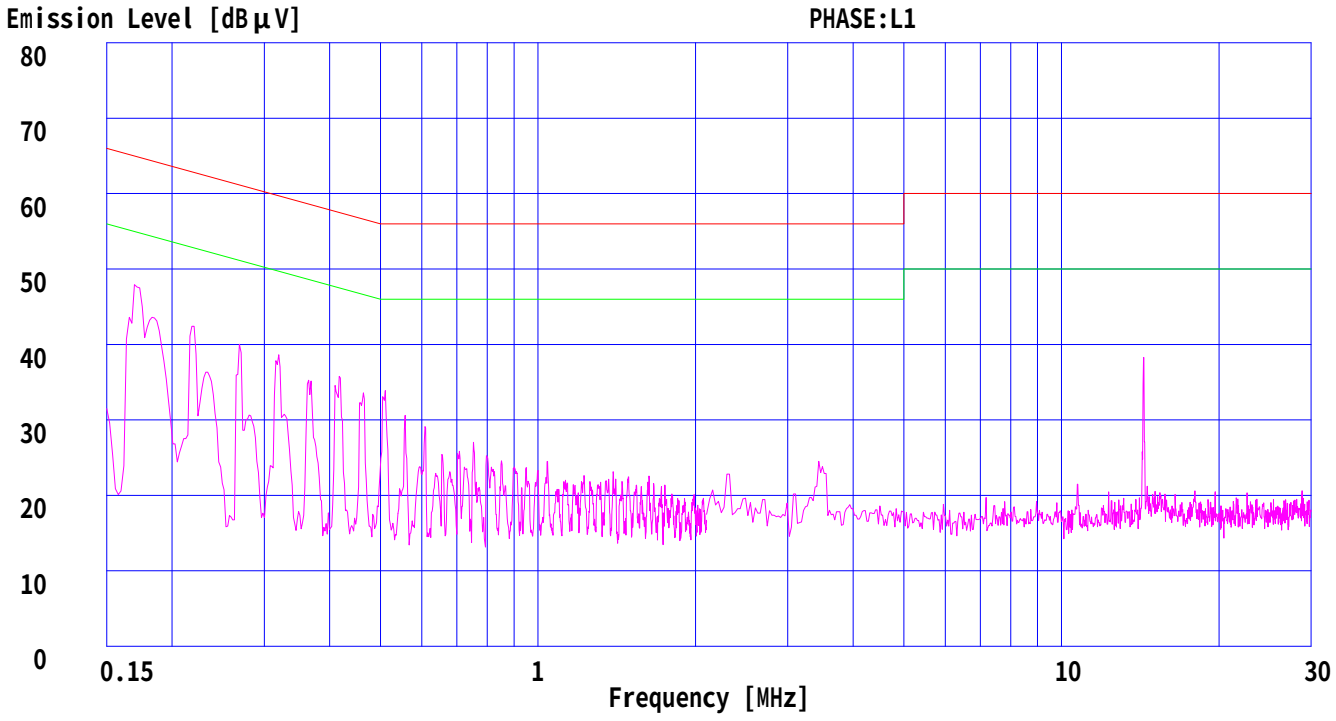


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input1+Rec(5Vp-p)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation 1	: FCC Part15B CLASS B(2003)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : AV Input2+Rec(1Vp-p)
Remarks :
Date : 2/24/2006
Phase : Single Phase
Temperature : 23 °C **Engineer : Seigo Kakehi**
Humidity : 35 %
Regulation : FCC Part15B CLASS B(2003)

No.	FREQ.	READING(N)		READING(L1)		LISN	CABLE	ATTEN.	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV	FACTOR	LOSS		QP	AV	QP	AV	QP	AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1810	43.7	-	43.7	-	0.1	0.1	0.0	43.9	-	64.4	54.4	20.5	-
2.	0.2247	35.5	-	36.5	-	0.1	0.1	0.0	36.7	-	62.6	52.6	25.9	-
3.	0.3154	29.7	-	31.0	-	0.1	0.1	0.0	31.2	-	59.8	49.8	28.6	-
4.	0.5822	22.4	-	23.6	-	0.2	0.2	0.0	24.0	-	56.0	46.0	32.0	-
5.	3.5502	10.5	-	10.1	-	0.3	0.3	0.0	11.1	-	56.0	46.0	44.9	-
6.	14.3190	42.3	-	41.9	-	0.7	0.7	0.0	43.7	-	60.0	50.0	16.3	-

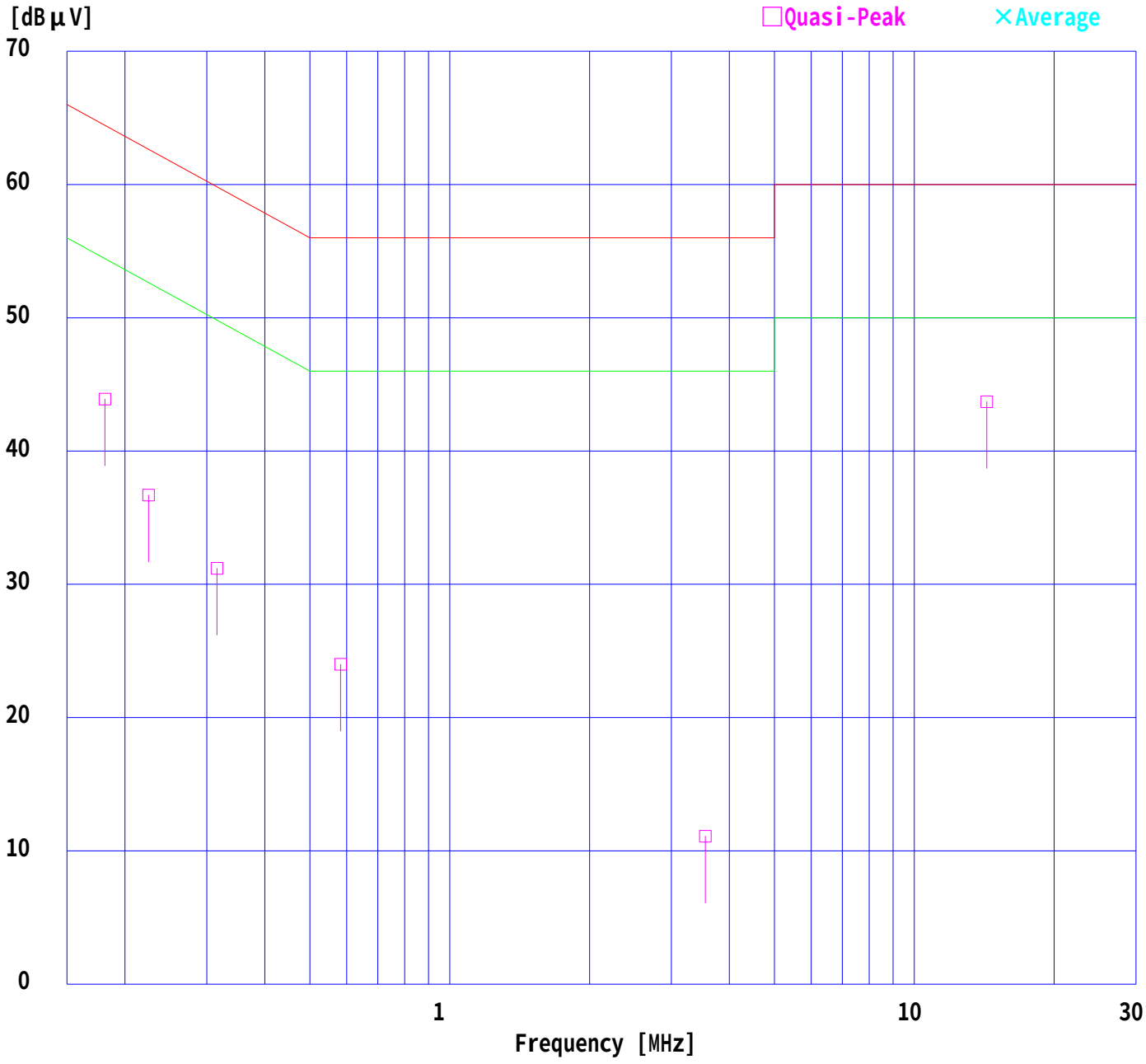
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

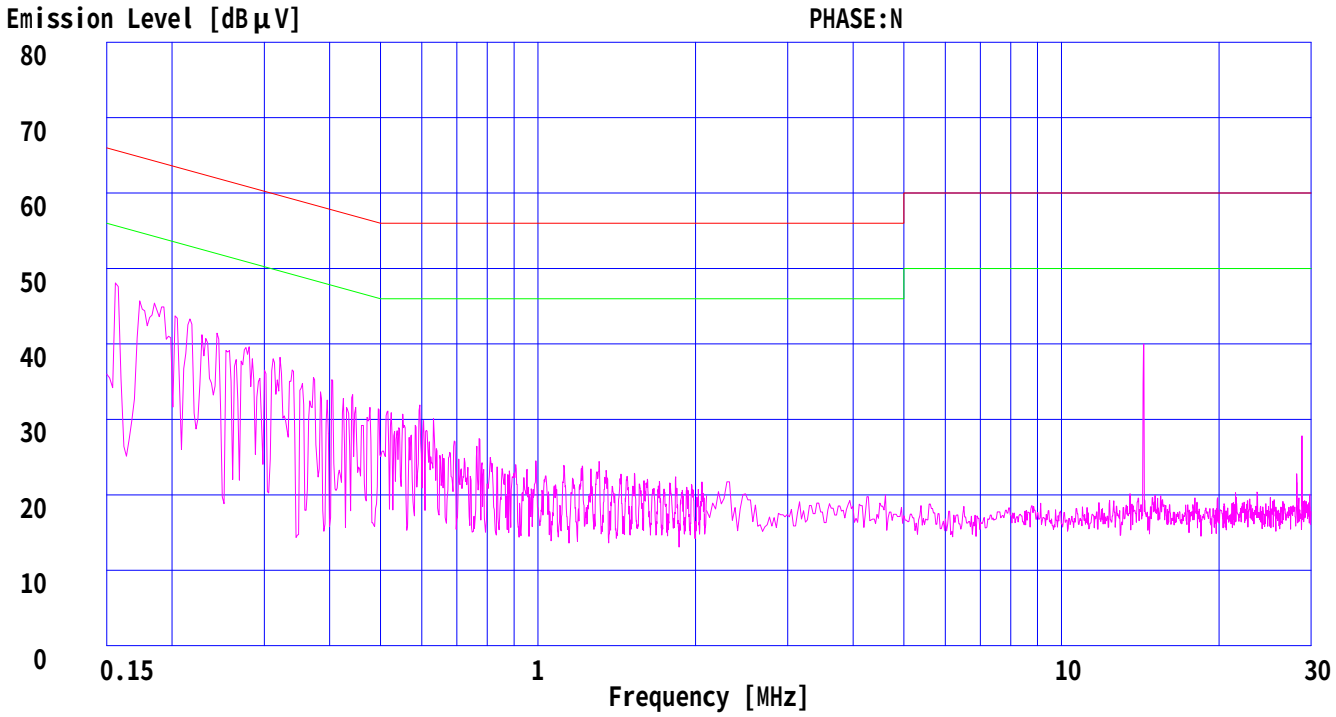
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input2+Rec(1Vp-p)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation	: FCC Part15B CLASS B(2003)		

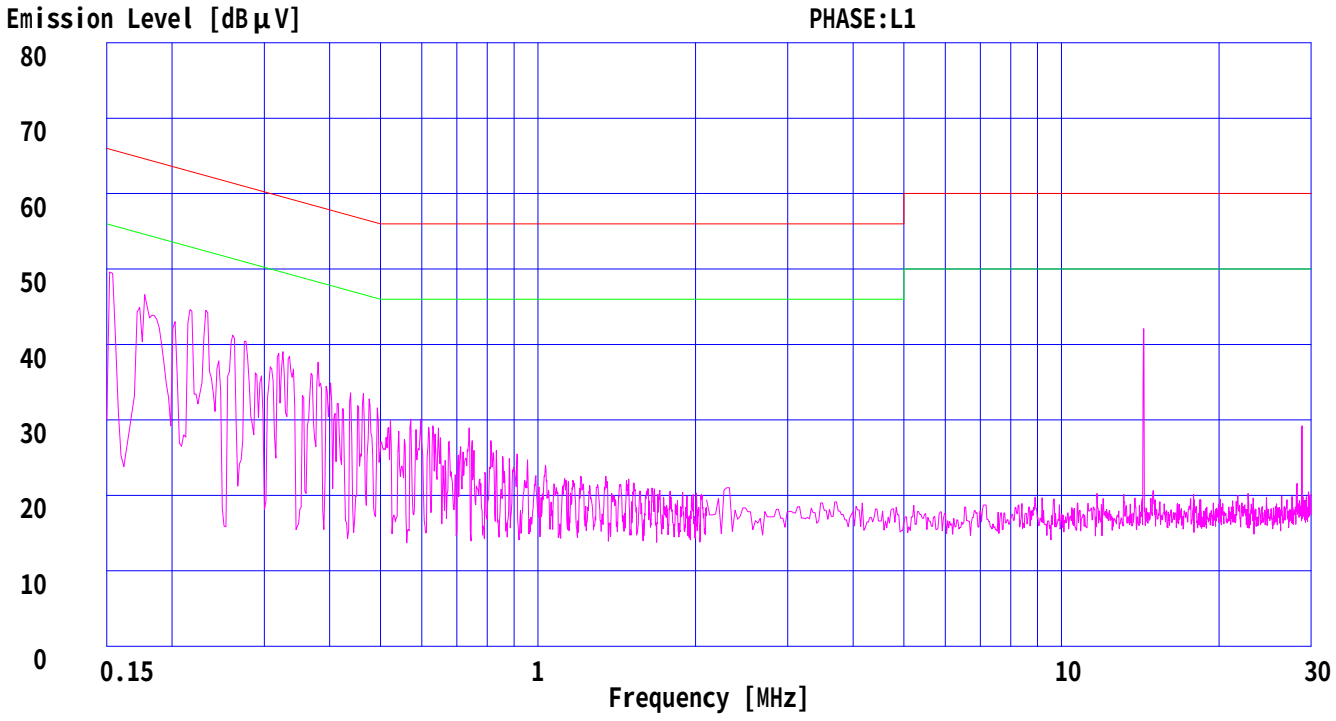


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input2+Rec(1Vp-p)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation 1	: FCC Part15B CLASS B(2003)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant : **Orion Electric Co.,Ltd.**
Kind of Equipment : **DVD Recorder with Video Cassette Recorder**
Model No. : **D-VR5SU**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **AV Input2+Rec(5Vp-p)**
Remarks :
Date : **2/24/2006**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer : Seigo Kakehi**
Humidity : **35 %**
Regulation : **FCC Part15B CLASS B(2003)**

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1791	43.8	-	43.8	-	0.1	0.1	0.0	44.0	-	64.5	54.5	20.5	-
2.	0.2255	35.6	-	36.5	-	0.1	0.1	0.0	36.7	-	62.6	52.6	25.9	-
3.	0.3152	29.8	-	31.0	-	0.1	0.1	0.0	31.2	-	59.8	49.8	28.6	-
4.	0.5416	17.7	-	19.5	-	0.2	0.1	0.0	19.8	-	56.0	46.0	36.2	-
5.	3.5489	10.2	-	10.0	-	0.3	0.3	0.0	10.8	-	56.0	46.0	45.2	-
6.	14.3192	42.3	-	42.1	-	0.7	0.7	0.0	43.7	-	60.0	50.0	16.3	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

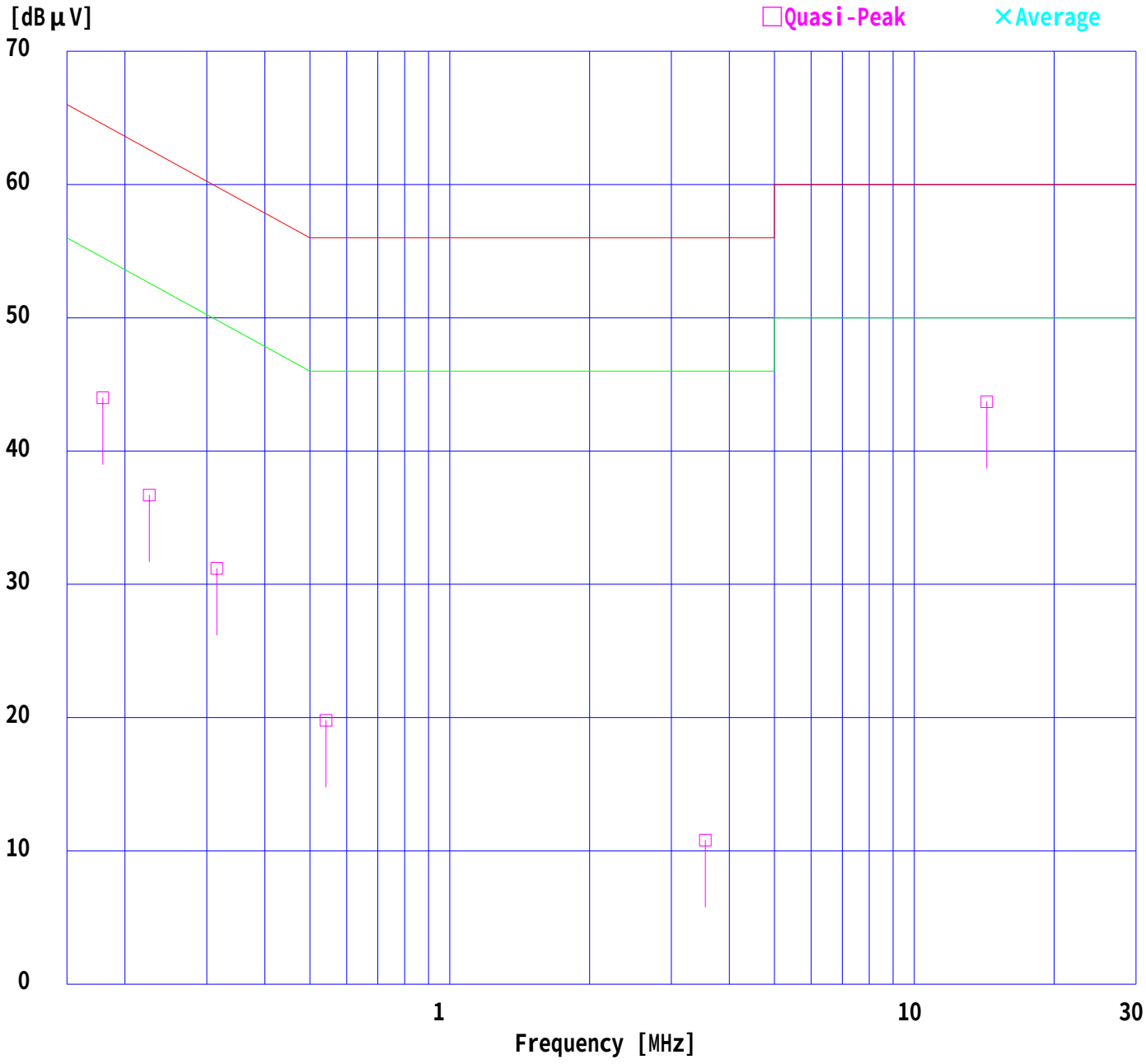
Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM

Report No.: 26GE0303-YW-1

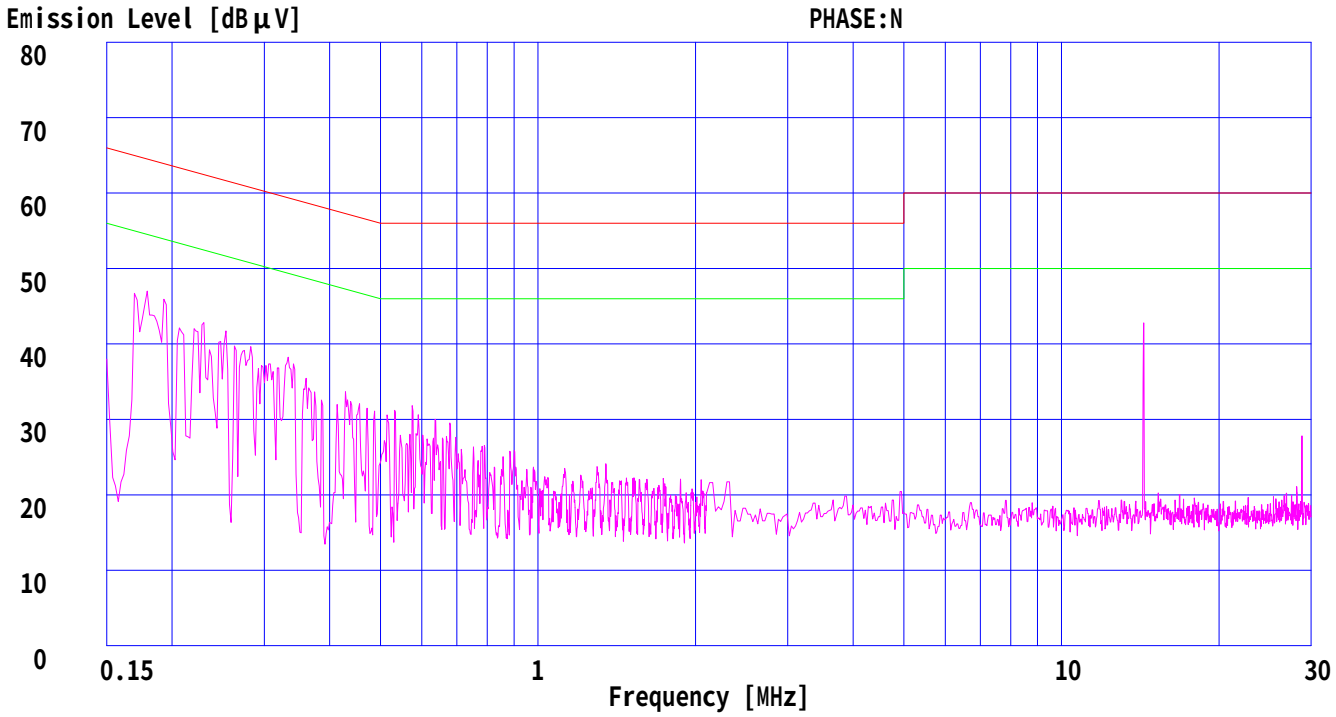
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input2+Rec(5Vp-p)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation	: FCC Part15B CLASS B(2003)		

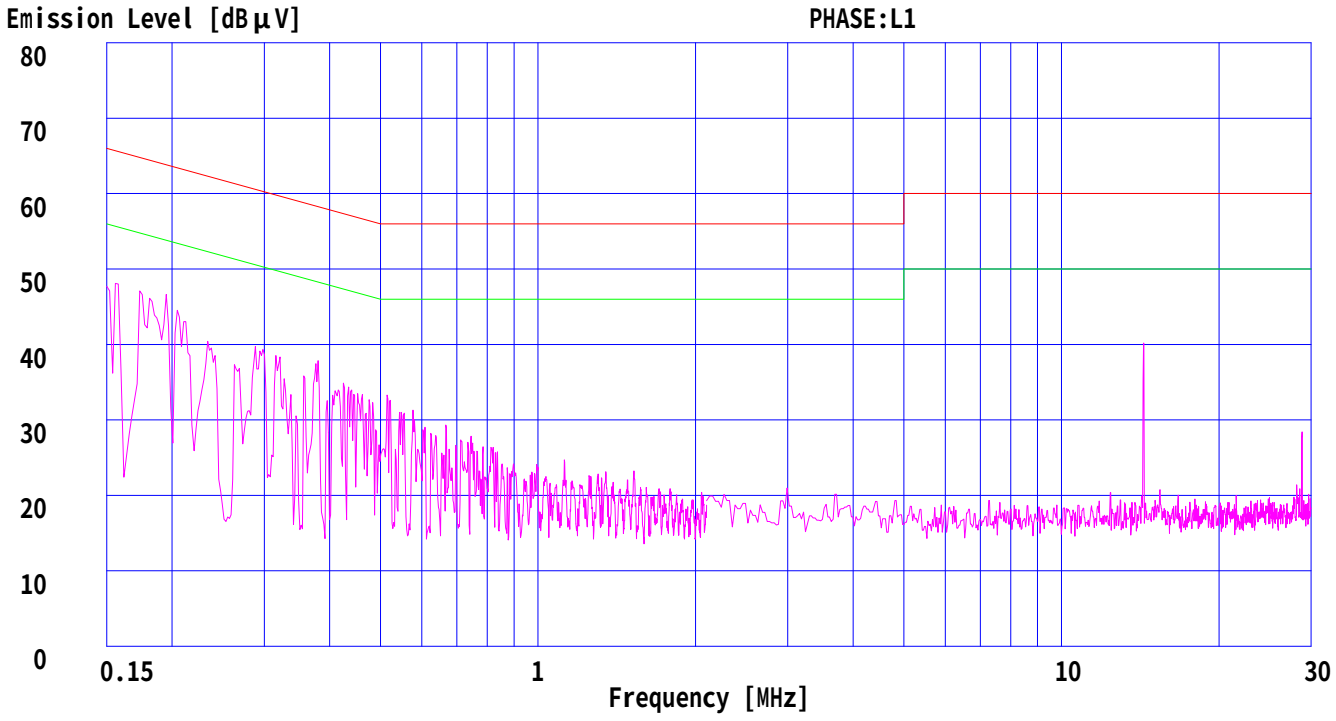


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input2+Rec(5Vp-p)		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation 1	: FCC Part15B CLASS B(2003)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : i-Link
Remarks :
Date : 2/24/2006
Phase : Single Phase
Temperature : 23 °C **Engineer : Seigo Kakehi**
Humidity : 35 %
Regulation : FCC Part15B CLASS B(2003)

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dBμV]		[dBμV]		[dB]	
1.	0.1681	40.7	-	40.6	-	0.1	0.1	0.0	40.9	-	65.1	55.1	24.2	-
2.	0.1896	41.8	-	42.3	-	0.1	0.1	0.0	42.5	-	64.1	54.1	21.6	-
3.	0.2358	41.2	-	41.7	-	0.1	0.1	0.0	41.9	-	62.2	52.2	20.3	-
4.	0.7750	34.1	-	34.1	-	0.2	0.2	0.0	34.5	-	56.0	46.0	21.5	-
5.	1.6865	31.3	-	31.4	-	0.2	0.2	0.0	31.8	-	56.0	46.0	24.2	-
6.	18.3601	39.1	-	39.1	-	0.8	0.8	0.0	40.7	-	60.0	50.0	19.3	-

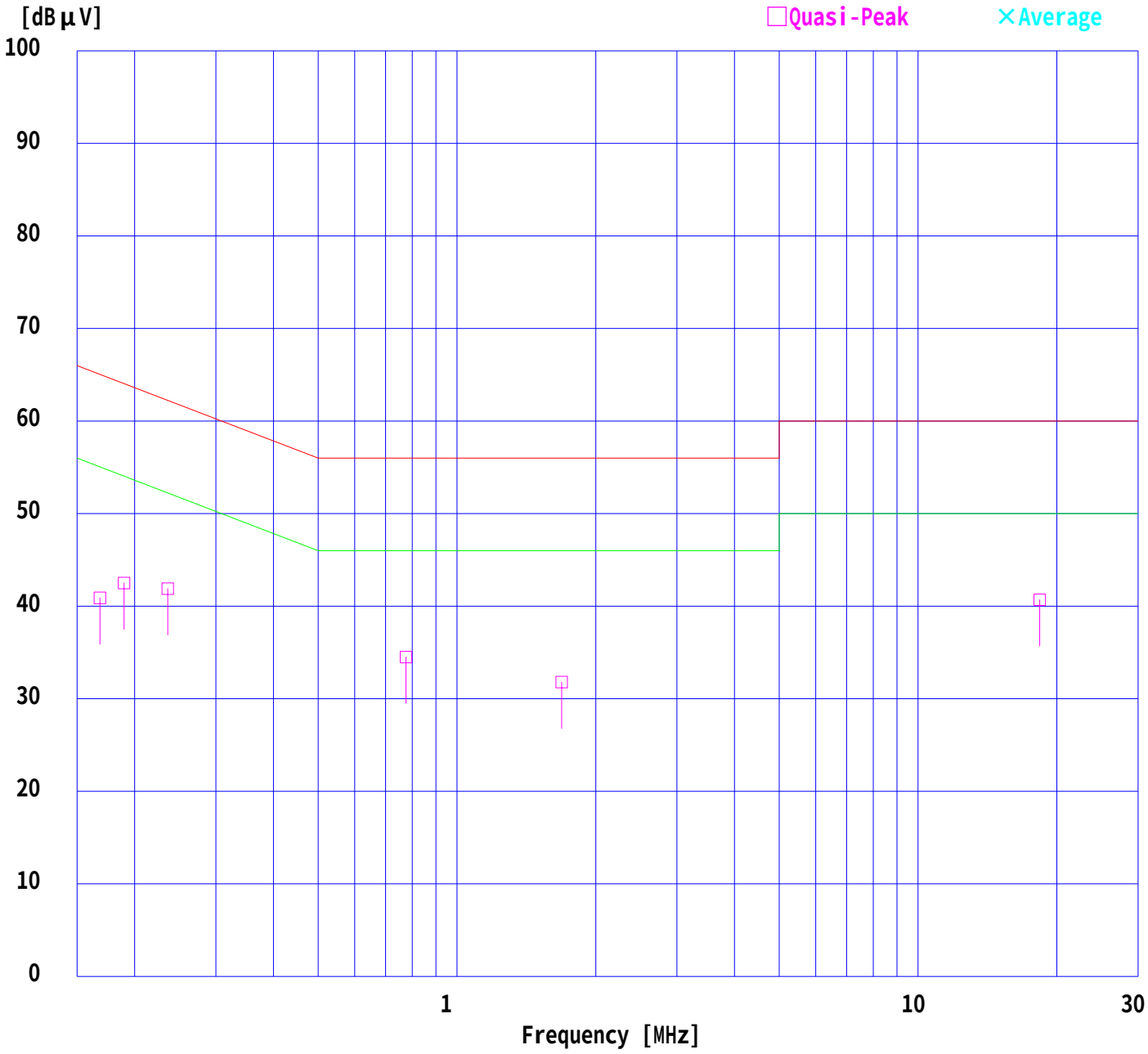
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

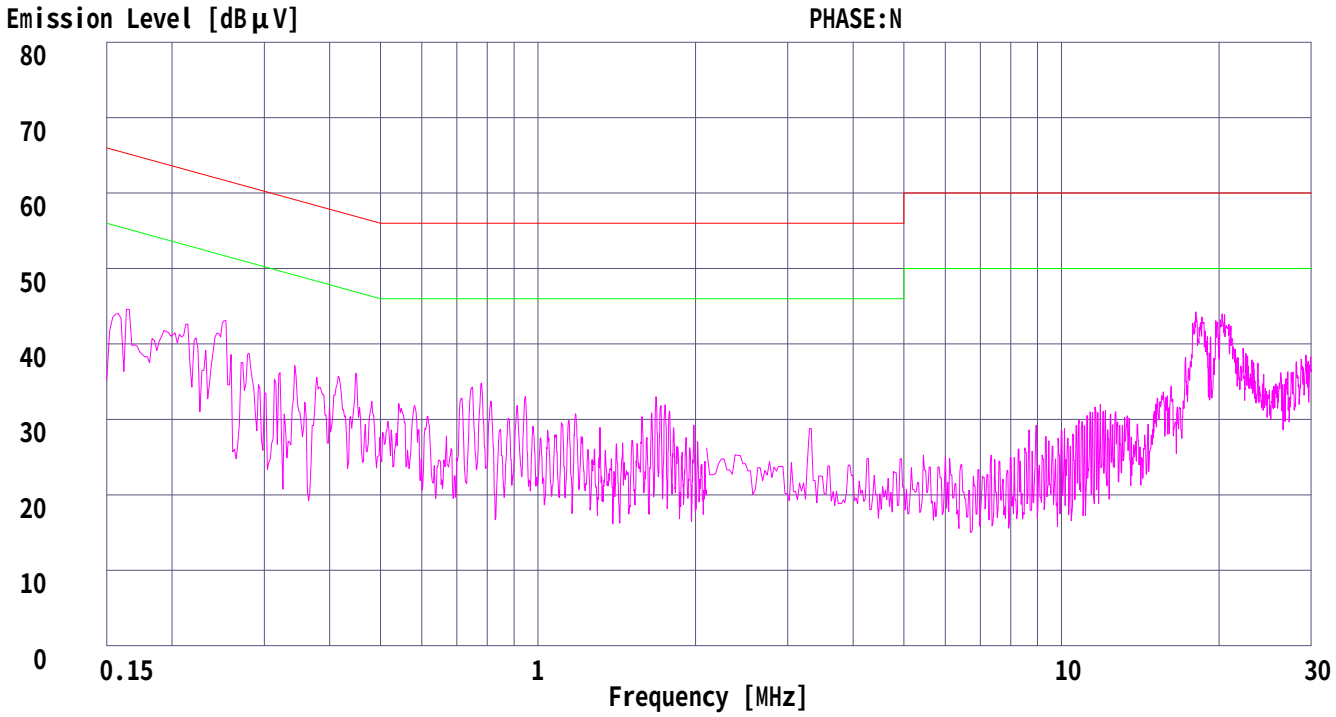
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: i-Link		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation	: FCC Part15B CLASS B(2003)		

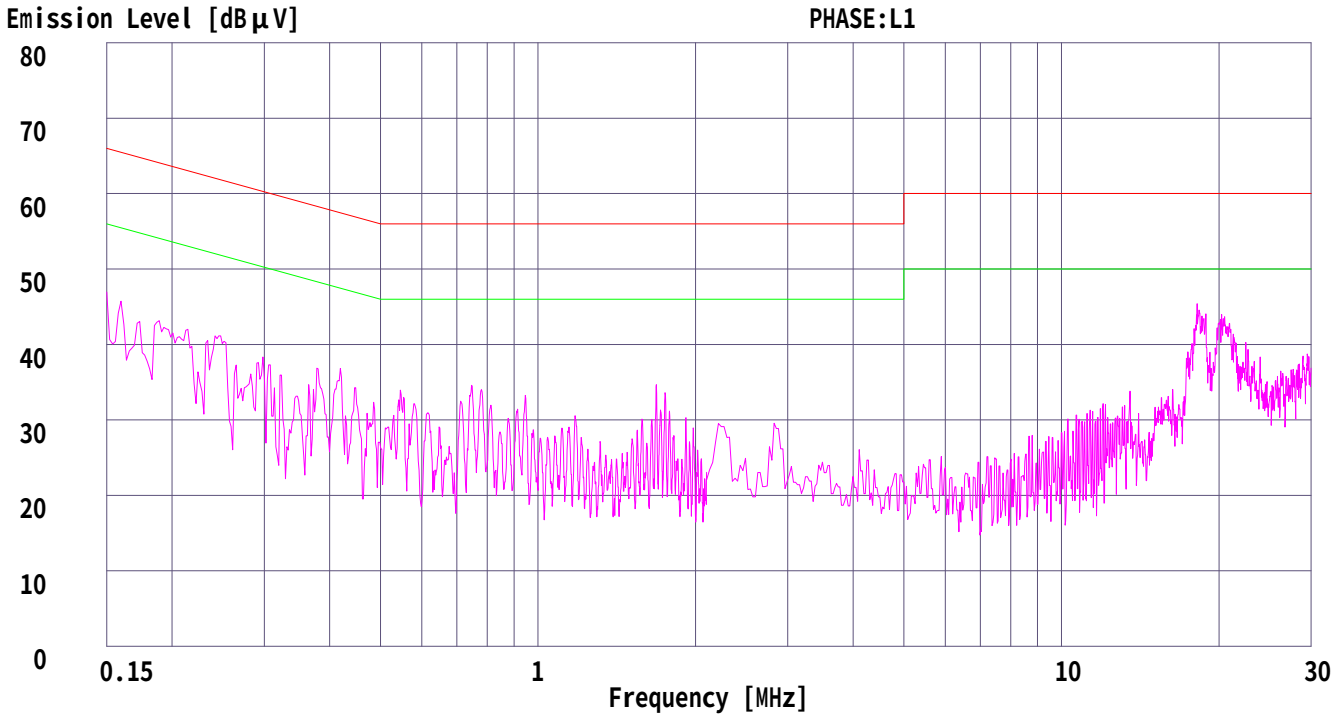


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: i-Link		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation 1	: FCC Part15B CLASS B(2003)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant : **Orion Electric Co.,Ltd.**
Kind of Equipment : **DVD Recorder with Video Cassette Recorder**
Model No. : **D-VR5SU**
Serial No. : **-**
Power : **AC120V/60Hz**
Mode : **VCR+Rec**
Remarks :
Date : **2/24/2006**
Phase : **Single Phase**
Temperature : **23 °C** **Engineer** : **Seigo Kakehi**
Humidity : **35 %**
Regulation : **FCC Part15B CLASS B(2003)**

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1671	45.6	-	45.7	-	0.1	0.1	0.0	45.9	-	65.1	55.1	19.2	-
2.	0.2017	41.8	-	42.1	-	0.1	0.1	0.0	42.3	-	63.5	53.5	21.2	-
3.	0.3374	31.2	-	32.1	-	0.1	0.1	0.0	32.3	-	59.3	49.3	27.0	-
4.	0.7414	34.8	-	34.7	-	0.2	0.2	0.0	35.2	-	56.0	46.0	20.8	-
5.	1.1804	29.1	-	29.4	-	0.2	0.2	0.0	29.8	-	56.0	46.0	26.2	-
6.	18.2538	38.2	-	38.0	-	0.8	0.8	0.0	39.8	-	60.0	50.0	20.2	-

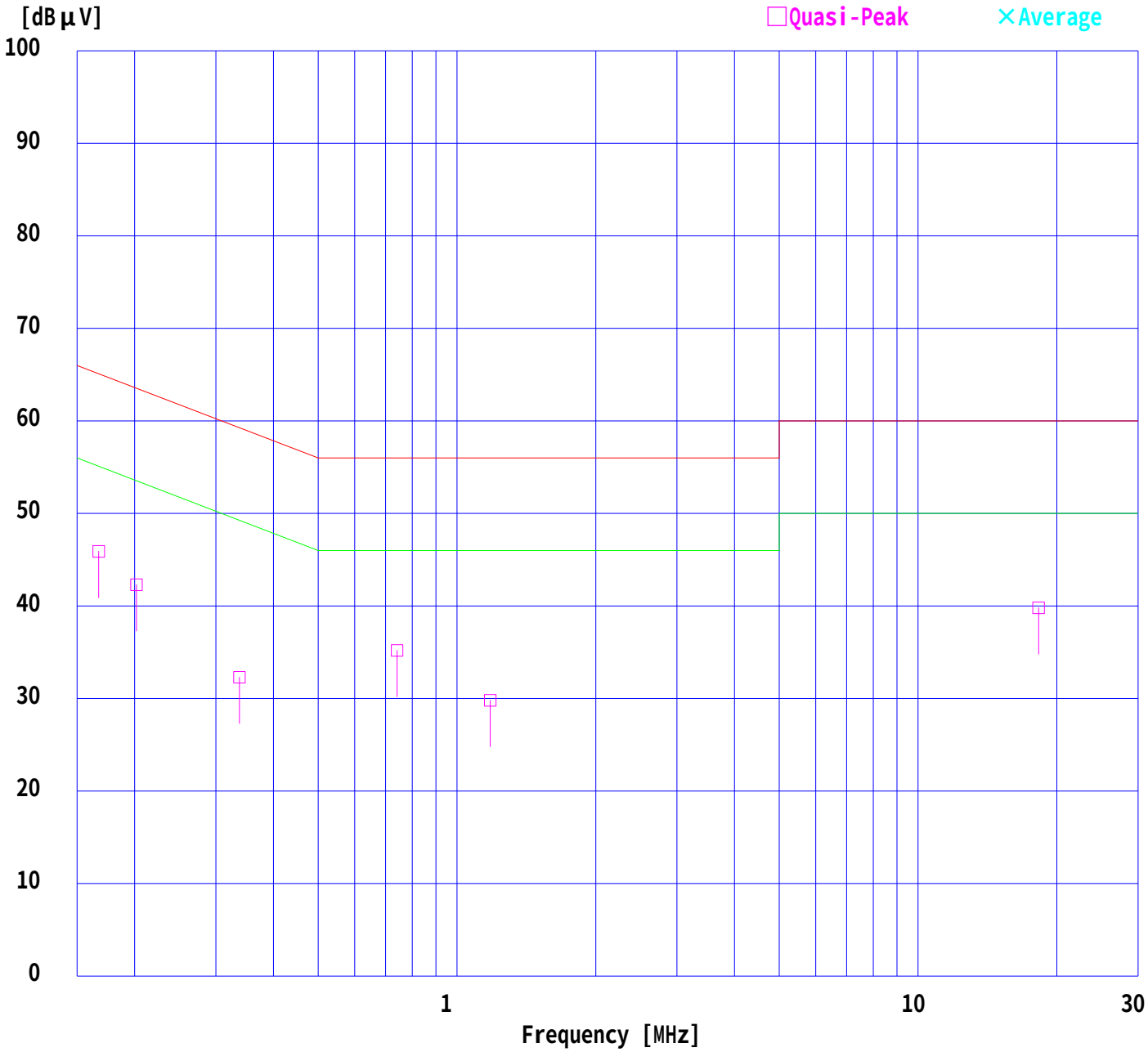
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

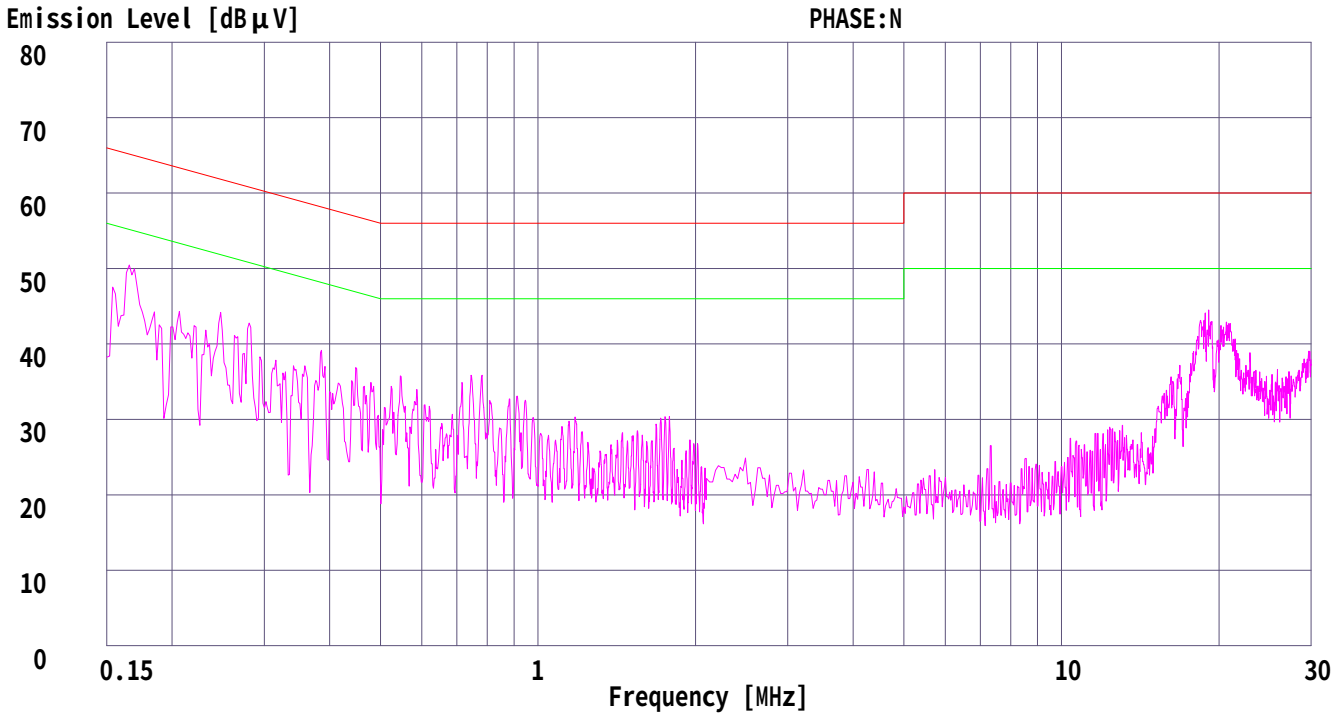
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: VCR+Rec		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation	: FCC Part15B CLASS B(2003)		

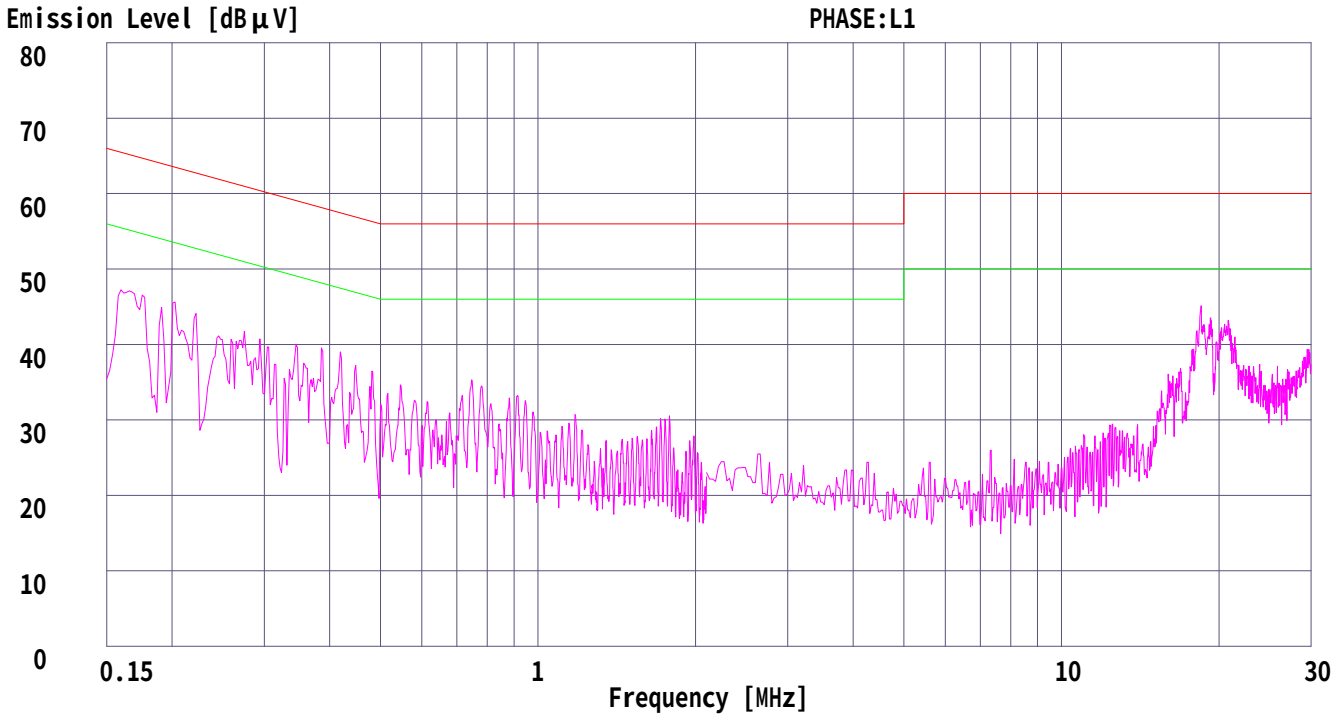


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: VCR+Rec		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation 1	: FCC Part15B CLASS B(2003)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : DVD+Rec
Remarks :
Date : 2/24/2006
Phase : Single Phase
Temperature : 23 °C **Engineer : Seigo Kakehi**
Humidity : 35 %
Regulation : FCC Part15B CLASS B(2003)

No.	FREQ.	READING(N) QP	READING(N) AV	READING(L1) QP	READING(L1) AV	LISN FACTOR	CABLE LOSS	ATTEN.	RESULT QP	RESULT AV	LIMITS QP	LIMITS AV	MARGIN QP	MARGIN AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]	[dBμV]		[dBμV]		[dB]
1.	0.1659	45.2	-	45.9	-	0.1	0.1	0.0	46.1	-	65.2	55.2	19.1	-
2.	0.2027	42.2	-	42.4	-	0.1	0.1	0.0	42.6	-	63.5	53.5	20.9	-
3.	0.3709	34.9	-	35.8	-	0.1	0.1	0.0	36.0	-	58.5	48.5	22.5	-
4.	0.7762	34.5	-	34.7	-	0.2	0.2	0.0	35.1	-	56.0	46.0	20.9	-
5.	1.7528	30.5	-	30.5	-	0.2	0.2	0.0	30.9	-	56.0	46.0	25.1	-
6.	18.2116	38.0	-	38.1	-	0.8	0.8	0.0	39.7	-	60.0	50.0	20.3	-

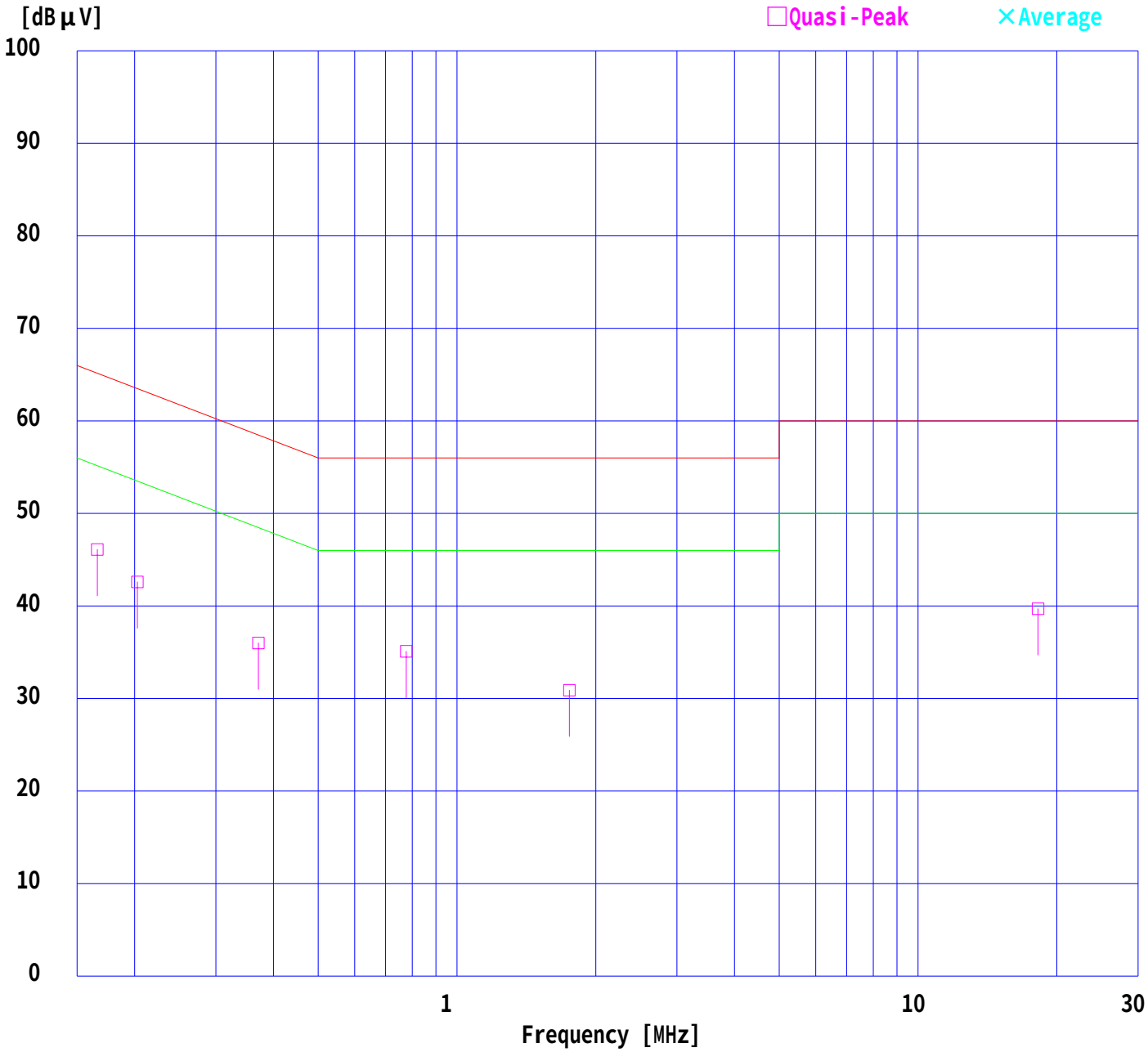
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

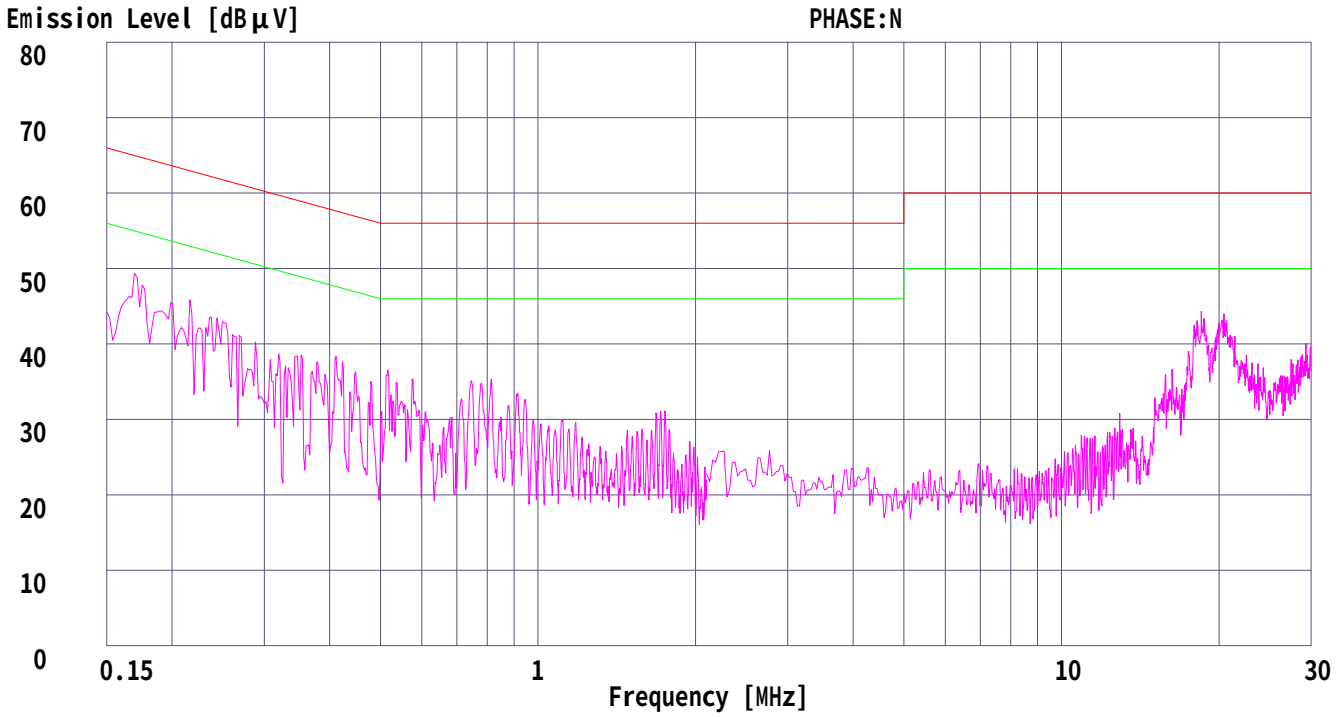
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: DVD+Rec		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation	: FCC Part15B CLASS B(2003)		

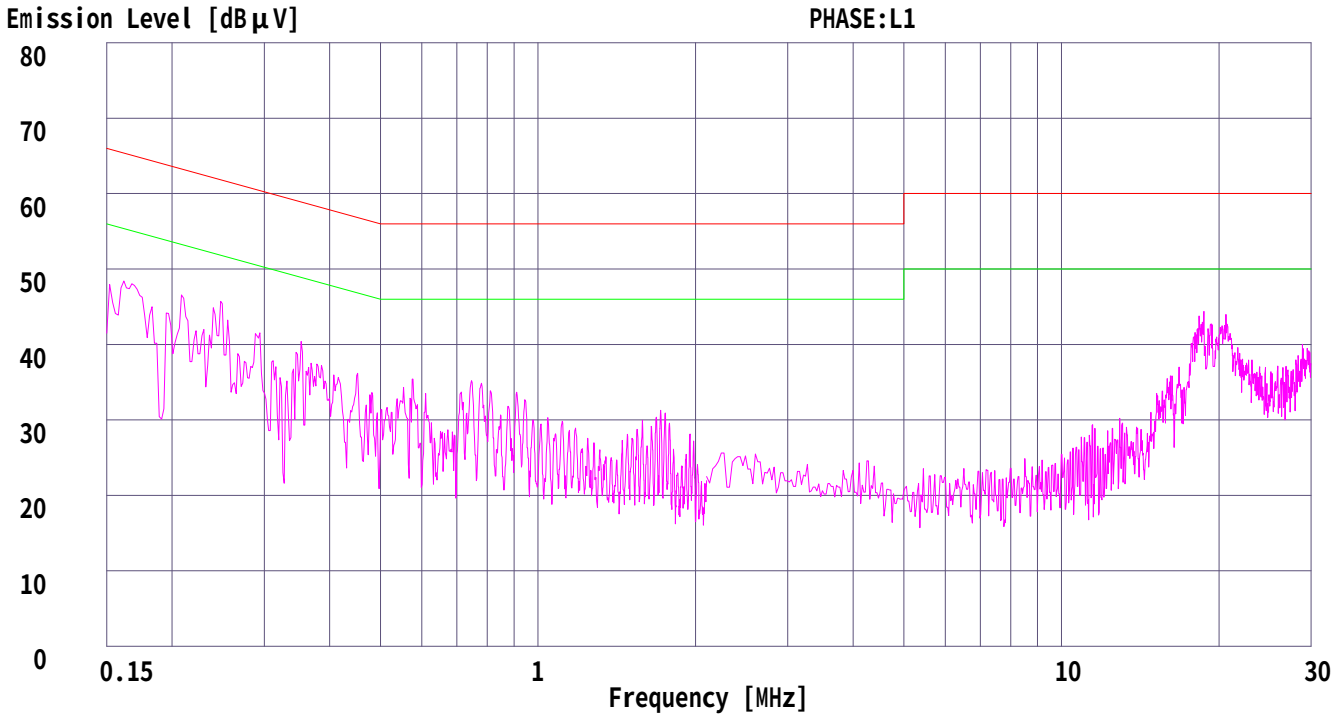


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.1 SHIELD TEST ROOM
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: DVD+Rec		
Remarks	:		
Date	: 2/24/2006		
Phase	: Single Phase		
Temperature	: 23 °C	Engineer	: Seigo Kakehi
Humidity	: 35 %		
Regulation 1	: FCC Part15B CLASS B(2003)		
Regulation 2	: None		





DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.2 Open Test Site

COMPANY	: Orion electric Co., Ltd.	REPORT No.	: 26GE0303-YW-1
EQUIPMENT	: DVD Recorder/VCR	REGULATION	: FCC PART15 B
MODEL No.	: D-VR5SU	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception + Rec		1030-1694MHz 0dB
		DATE	: February 27 ,2006
		TEMP./HUMID.	: 13℃/43%
		ENGINEER	: Yuichi Kaneyama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
VHF										
2	101	27.9	28.9	BC	-10.8	17.1	18.1	43.5	26.4	25.4
	202			BC				43.5		
	303			LO				46.0		
	404			LO				46.0		
	505			LO				46.0	>15.0	
	606			LO				46.0		
	707			LO				46.0		
	808			LO				46.0		
	909			LO				46.0		

	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
1010					HO						74.0	54.0				
1111					HO						74.0	54.0				
1212					HO						74.0	54.0				
1313					HO						74.0	54.0	>27.0		>10.0	
1414					HO						74.0	54.0				
1515					HO						74.0	54.0				
1616					HO						74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
3	107	25.7	26.9	BC	-9.8	15.9	17.1	43.5	27.6	26.4
	214			BC				43.5		
	321			LO				46.0		
	428			LO				46.0		
	535			LO				46.0	＞15.0	
	642			LO				46.0		
	749			LO				46.0		
	856			LO				46.0		
	963			LO				54.0		

	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
1070					HO						74.0	54.0				
1177					HO						74.0	54.0				
1284					HO						74.0	54.0				
1391					HO						74.0	54.0	>27.0		>10.0	
1498					HO						74.0	54.0				
1605					HO						74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
4	113	26.3	31.7	BC	-9.0	17.3	22.7	43.5	26.2	20.8
	226			BC				46.0		
	339			LO				46.0		
	452			LO				46.0		
	565			LO				46.0	＞15.0	
	678			LO				46.0		
	791			LO				46.0		
	904			LO				46.0		

	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
1017					HO						74.0	54.0				
1130					HO						74.0	54.0				
1243					HO						74.0	54.0				
1356					HO						74.0	54.0	>27.0		>10.0	
1469					HO						74.0	54.0				
1582					HO						74.0	54.0				

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.2 Open Test Site

COMPANY	: Orion electric Co., Ltd.	REPORT No.	: 26GE0303-YW-1
EQUIPMENT	: DVD Recorder/VCR	REGULATION	: FCC PART15 B
MODEL No.	: D-VR5SU	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception + Rec		1030-1694MHz 0dB
		DATE	: February 27 ,2006
		TEMP./HUMID.	: 13℃/43%
		ENGINEER	: Yuichi Kaneyama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	VER. [dB]
VHF										
5	123	24.9	27.9	BC	-7.7	17.2	20.2	43.5	26.3	23.3
	246			BC				46.0		
	369			LO				46.0		
	492			LO				46.0		
	615			LO				46.0	>15.0	
	738			LO				46.0		
	861			LO				46.0		
	984			LO				54.0		

	FREQ [MHz]	READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1107					HO						74.0	54.0				
	1230					HO						74.0	54.0				
	1353					HO						74.0	54.0	>27.0		>10.0	
	1476					HO						74.0	54.0				
	1599					HO						74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	VER. [dB]
6	129	27.2	26.0	BC	-7.2	20.0	18.8	43.5	23.5	24.7
	258			BC				46.0		
	387			LO				46.0		
	516			LO				46.0	>15.0	
	645			LO				46.0		
	774			LO				46.0		
	903			LO				46.0		

	FREQ [MHz]	READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1032					HO						74.0	54.0				
	1161					HO						74.0	54.0				
	1290					HO						74.0	54.0	>27.0		>10.0	
	1419					HO						74.0	54.0				
	1548					HO						74.0	54.0				
	1677					HO						74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	VER. [dB]
7	221	26.7	22.9	BC	-3.5	23.2	19.4	46.0	22.8	26.6
	442			LO				46.0		
	663			LO				46.0	>15.0	
	884			LO				46.0		

	FREQ [MHz]	READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1105					HO						74.0	54.0				
	1326					HO						74.0	54.0	>27.0		>10.0	
	1547					HO						74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	VER. [dB]
8	227	23.6	22.8	BC	-3.3	20.3	19.5	46.0	25.7	26.5
	454			LO				46.0		
	681			LO				46.0	>15.0	
	908			LO				46.0		

	FREQ [MHz]	READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1135					HO						74.0	54.0				
	1362					HO						74.0	54.0	>27.0		>10.0	
	1589					HO						74.0	54.0				

DATA OF RADIATION TEST

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POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception + Rec		1030-1694MHz 0dB
		DATE	: February 27 ,2006
		TEMP./HUMID.	: 13℃/43%
		ENGINEER	: Yuichi Kaneyama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
VHF										
9	233	25.4	22.8	BC	-3.3	22.1	19.5	46.0	23.9	26.5
	466			LO				46.0	＞15.0	
	699			LO				46.0		
	932			LO				46.0		
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
	1165									74.0	54.0	>27.0		>10.0	
	1398									74.0	54.0				
	1631									74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
10	239	24.4	22.5	BC	-3.2	21.2	19.3	46.0	24.8	26.7
	478			LO				46.0	＞15.0	
	717			LO				46.0		
	956			LO				46.0		
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
	1195									74.0	54.0	>27.0		>10.0	
	1434									74.0	54.0				
	1673									74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
11	245	24.5	23.0	BC	-3.2	21.3	19.8	46.0	24.7	26.2
	490			LO				46.0	＞15.0	
	735			LO				46.0		
	980			LO				54.0		
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
	1225									74.0	54.0	>27.0		>10.0	
	1470									74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
12	251	25.2	22.4	BC	-3.0	22.2	19.4	46.0	23.8	26.6
	502			LO				46.0	＞15.0	
	753			LO				46.0		
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
	1004									74.0	54.0	>27.0		>10.0	
	1255									74.0	54.0				
	1506									74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
13	257	24.1	24.1	BC	-2.7	21.4	21.4	46.0	24.6	24.6
	514			LO				46.0	＞15.0	
	771			LO				46.0		
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
	1028									74.0	54.0	>27.0		>10.0	
	1285									74.0	54.0				
	1542									74.0	54.0				

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CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]	
UHF														
14	517	29.0	33.0		LO	-0.5	28.5	32.5		46.0		17.5	13.5	
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1034				HO					74.0	54.0	>27.0		>10.0
	1551				HO					74.0	54.0			
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]	
19	547	25.4	27.4		LO	0.3	25.7	27.7		46.0		20.3	18.3	
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1094				HO					74.0	54.0	>27.0		>10.0
	1641				HO					74.0	54.0			
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]	
28	601	25.0	26.4		LO	1.8	26.8	28.2		46.0	-	19.2	17.8	
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1202				HO					74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]	
36	649	21.9	26.8		LO	3.0	24.9	29.8		46.0	-	21.1	16.2	
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1298				HO					74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]	
44	697	23.2	25.5		LO	4.1	27.3	29.6		46.0	-	18.7	16.4	
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1394				HO					74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]	
53	751	22.5	22.9		LO	4.8	27.3	27.7		46.0	-	18.7	18.3	
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1502				HO					74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]	
61	799	22.4	23.1		LO	5.1	27.5	28.2		46.0	-	18.5	17.8	
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1598				HO					74.0	54.0	>27.0		>10.0
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]		ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]		LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]	
69	847	24.0	23.1		LO	5.8	29.8	28.9		46.0	-	16.2	17.1	
		READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. VER. [dB]
	1694				HO					74.0	54.0	>27.0		>10.0

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*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
CATV																								
1	119	25.2	28.3					BC	-8.0	17.2	20.3					43.5			26.3	23.2				
	238							BC								46.0								
	357							LO								46.0								
	476							LO								46.0								
	595							LO								46.0			>15.0					
	714							LO								46.0								
	833							LO								46.0								
	952							LO								46.0								
	1071							HO								74.0		54.0					>27.0	>10.0
	1190							HO								74.0		54.0						
	1309							HO								74.0		54.0						
	1428							HO								74.0		54.0						
	1547							HO								74.0		54.0						
	1666							HO								74.0		54.0						
95	137	23.5	23.7					BC	-6.5	17.0	17.2					43.5			26.5	26.3				
	274							BC								46.0								
	411							LO								46.0								
	548							LO								46.0								
	685							LO								46.0			>15.0					
	822							LO								46.0								
	959							LO								46.0								
	1096							HO								74.0		54.0					>27.0	>10.0
	1233							HO								74.0		54.0						
	1370							HO								74.0		54.0						
	1507							HO								74.0		54.0						
	1644							HO								74.0		54.0						
97	149	31.6	27.8					BC	-5.7	25.9	22.1					43.5			17.6	21.4				
	298							BC								46.0								
	447							LO								46.0								
	596							LO								46.0			>15.0					
	745							LO								46.0								
	894							LO								46.0								
	1043							HO						-	-	74.0		54.0					>27.0	>10.0
	1192							HO						-	-	74.0		54.0						
	1341							HO						-	-	74.0		54.0						
	1490							HO						-	-	74.0		54.0						
	1639							HO						-	-	74.0		54.0						
99	161	24.3	24.6					BC	-5.0	19.3	19.6					43.5			24.2	23.9				
	322							LO								46.0								
	483							LO								46.0								
	644							LO								46.0			>15.0					
	805							LO								46.0								
	966							LO								46.0								
	1127							HO								74.0		54.0					>27.0	>10.0
	1288							HO								74.0		54.0						
	1449							HO								74.0		54.0						
	1610							HO								74.0		54.0						

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.2 Open Test Site

COMPANY	: Orion electric Co., Ltd.	REPORT No.	: 26GE0303-YW-1
EQUIPMENT	: DVD Recorder/VCR	REGULATION	: FCC PART15 B
MODEL No.	: D-VR5SU	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception + Rec		1030-1694MHz 0dB
		DATE	: February 27 ,2006
		TEMP./HUMID.	: 13℃/43%
		ENGINEER	: Yuichi Kaneyama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
CATV										
14	167	24.2	24.1	BC	-4.6	19.6	19.5	43.5	23.9	24.0
	334			LO				46.0	>15.0	
	501			LO				46.0		
	668			LO				46.0		
	835			LO				46.0		

	FREQ [MHz]	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
	1002					HO						74.0	54.0	>27.0		>10.0	
	1169					HO						74.0	54.0				
	1336					HO						74.0	54.0				
	1503					HO						74.0	54.0				
	1670					HO						74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
18	191	22.6	22.4	BC	-3.9	18.7	18.5	43.5	24.8	25.0
	382			LO				46.0	>15.0	
	573			LO				46.0		
	764			LO				46.0		
	955			LO				46.0		

	FREQ [MHz]	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
	1146					HO						74.0	54.0	>27.0		>10.0	
	1337					HO						74.0	54.0				
	1528					HO						74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
22	215	30.0	24.9	BC	-3.6	26.4	21.3	43.5	17.1	22.2
	430			LO				46.0	>15.0	
	645			LO				46.0		
	860			LO				46.0		

	FREQ [MHz]	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
	1075					HO						74.0	54.0	>27.0		>10.0	
	1290					HO						74.0	54.0				
	1505					HO						74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
23	263	30.8	25.1	BC	-2.3	28.5	22.8	46.0	17.5	23.2
	526			LO				46.0		
	789			LO				46.0		

	FREQ [MHz]	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
	1052					HO						74.0	54.0	>27.0		>10.0	
	1315					HO						74.0	54.0				
	1578					HO						74.0	54.0				

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	READING(QP) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	RESULT(QP) VER. [dBuV/m]	LIMIT [QP] [dBuV/m]	MARGIN(QP) HOR. [dB]	MARGIN(QP) VER. [dB]
29	299	23.4	22.8	BC	-0.1	23.3	22.7	46.0	22.7	23.3
	598			LO				46.0	>15.0	
	897			LO				46.0		

	FREQ [MHz]	READING(PK) HOR. [dBuV]	READING(PK) VER. [dBuV]	READING(AV) HOR. [dBuV]	READING(AV) VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	RESULT(PK) VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	RESULT(AV) VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	MARGIN(PK) VER. [dB]	MARGIN(AV) HOR. [dB]	MARGIN(AV) VER. [dB]
	1196					HO						74.0	54.0	>27.0		>10.0	
	1495					HO						74.0	54.0				

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yokowa EMC No.2 Open Test Site

COMPANY	: Orion electric Co., Ltd.	REPORT No.	: 26GE0303-YW-1
EQUIPMENT	: DVD Recorder/VCR	REGULATION	: FCC PART15 B
MODEL No.	: D-VR5SU	TEST DISTANCE	: 3m
POWER	: AC120V/60Hz	ATTENUATION	: 101-847MHz 6dB
DESCRIPTION	: TV Reception + Rec		1030-1694MHz 0dB
		DATE	: February 27 ,2006
		TEMP./HUMID.	: 13℃/43%
		ENGINEER	: Yuichi Kaneyama

*C.Factor[dB]=ANT Factor + Cable Loss - Amp Gain
For the measurement above 1GHz, measurement of AV detector is performed only when the result of PK detector exceed the limit of AV.

CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
CATV																	
36	341	33.0	27.6			LO	-4.3	28.7	23.3			46.0	46.0	17.3	22.7		
	682					LO						46.0	46.0	>15.0			
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1023					HO						74.0	54.0	>27.0		>10.0	
	1364					HO						74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
37	347	27.0	27.2			LO	-4.3	22.7	22.9			46.0	46.0	23.3	23.1		
	694					LO						46.0	46.0	>15.0			
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1041					HO						74.0	54.0	>27.0		>10.0	
	1388					HO						74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
65	515	27.4	29.1			LO	-0.5	26.9	28.6			46.0	46.0	19.1	17.4		
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1030					HO						74.0	54.0	>27.0		>10.0	
	1545					HO						74.0	54.0				
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
94	689	21.8	22.0			LO	3.9	25.7	25.9			46.0	46.0	20.3	20.1		
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1378					HO						74.0	54.0	>27.0		>10.0	
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
100	695	21.7	22.1			LO	4.1	25.8	26.2			46.0	46.0	20.2	19.8		
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1390					HO						74.0	54.0	>27.0		>10.0	
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
113	773	21.4	21.4			LO	5.0	26.4	26.4			46.0	46.0	19.6	19.6		
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1546					HO						74.0	54.0	>27.0		>10.0	
CH.	FREQ [MHz]	READING(QP) HOR. [dBuV]	VER. [dBuV]			ANT TYPE	C.Factor [dBuV]	RESULT(QP) HOR. [dBuV/m]	VER. [dBuV/m]			LIMIT [QP] [dBuV/m]		MARGIN(QP) HOR. [dB]	VER. [dB]		
125	845	21.5	21.7			LO	5.7	27.2	27.4			46.0	46.0	18.8	18.6		
		READING(PK) HOR. [dBuV]	VER. [dBuV]	READING(AV) HOR. [dBuV]	VER. [dBuV]	ANT TYPE	C.Factor [dBuV]	RESULT(PK) HOR. [dBuV/m]	VER. [dBuV/m]	RESULT(AV) HOR. [dBuV/m]	VER. [dBuV/m]	LIMIT [PK] [dBuV/m]	LIMIT [AV] [dBuV/m]	MARGIN(PK) HOR. [dB]	VER. [dB]	MARGIN(AV) HOR. [dB]	VER. [dB]
	1690					HO						74.0	54.0	>27.0		>10.0	

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No.: 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(0dBmV)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 21 ℃ Engineer : Toshifumi Yoneshige
Humidity : 45 %
Regulation : FCC Part15B CLASS B

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	379.99	BB	41.2	34.5	18.1	27.9	4.5	5.9	41.8	35.1	46.0	4.2	10.9

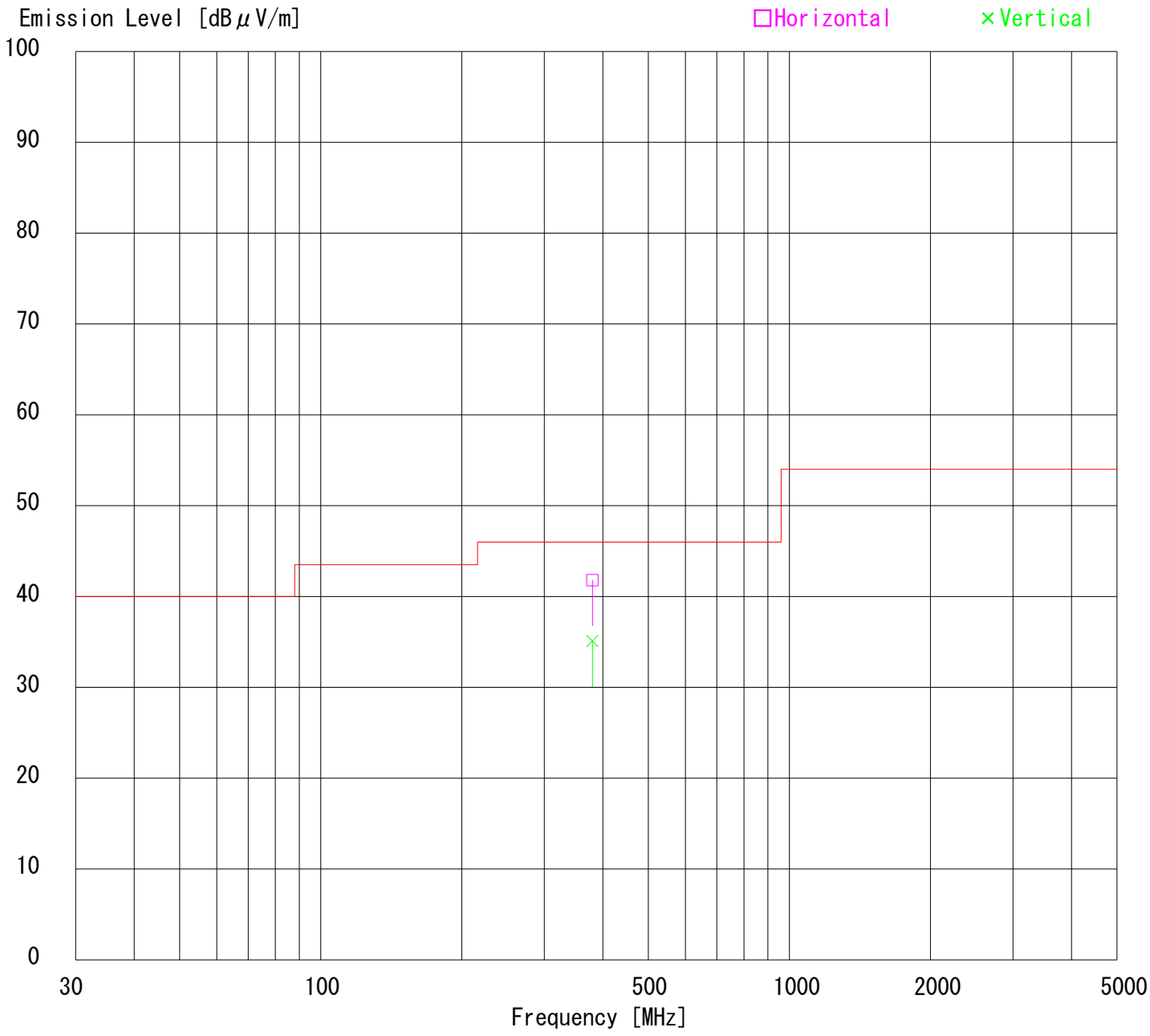
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec(0dBmV)		
Remarks	: -		
Date	: 3/15/2006		
Test Distance	: 3 m		
Temperature	: 21 ℃	Engineer	: Toshifumi Yoneshige
Humidity	: 45 %		
Regulation	: FCC Part15B CLASS B		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No.: 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(0dBmV)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 21 ℃ Engineer : Toshifumi Yoneshige
Humidity : 45 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1350.00	BB	44.2	49.9	24.2	39.5	4.3	0.0	33.2	38.9	54.0	20.8	15.1

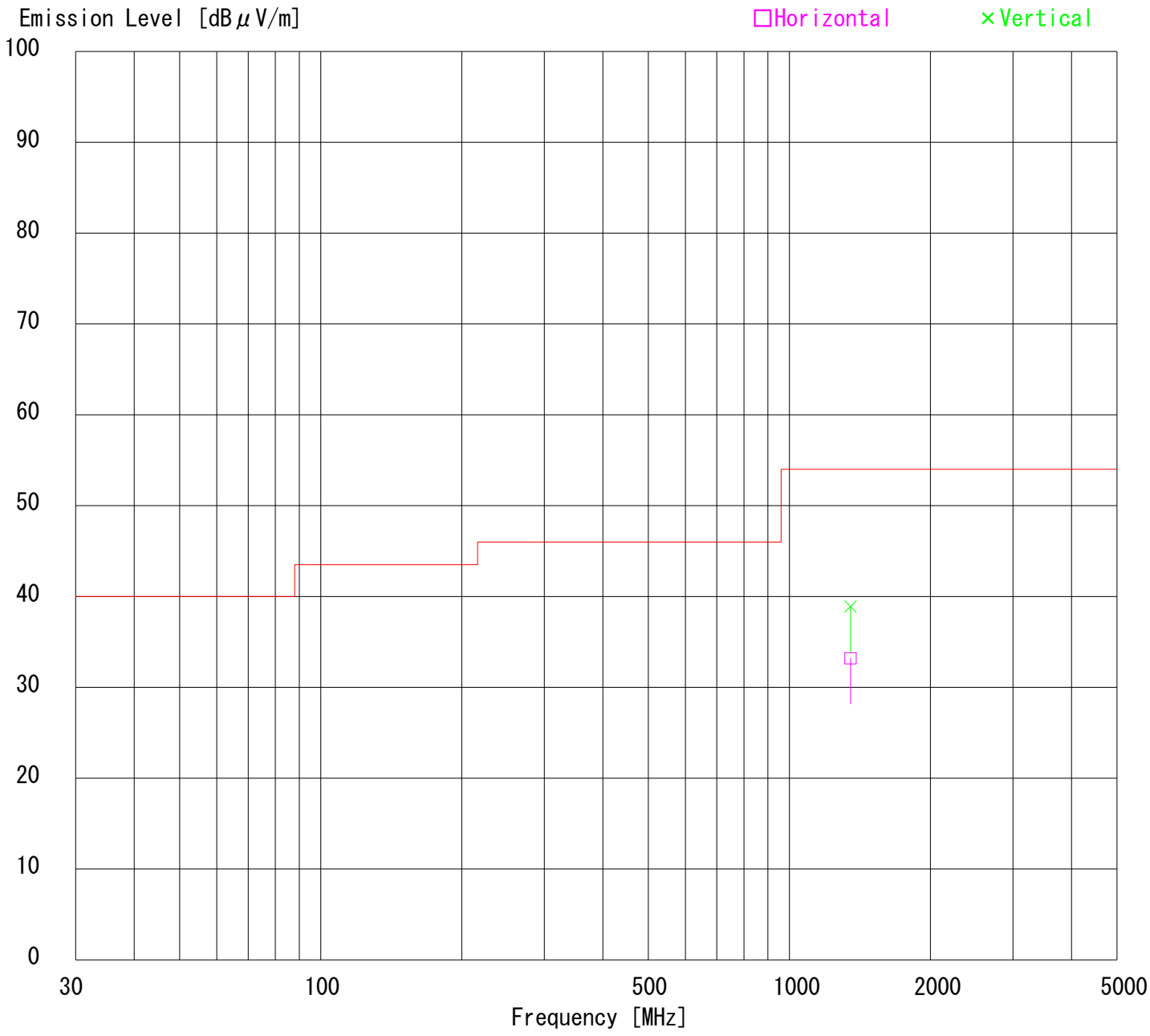
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.
ANT TYPE:1-5GHz Horn

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec(0dBmV)		
Remarks	: -		
Date	: 3/15/2006		
Test Distance	: 3 m		
Temperature	: 21 ℃	Engineer	: Toshifumi Yoneshige
Humidity	: 45 %		
Regulation	: FCC Part15B CLASS B(Average Limit / Upper1GHz)		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No.: 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(0dBmV)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 21 ℃ Engineer : Toshifumi Yoneshige
Humidity : 45 %
Regulation : FCC Part15B CLASS B(Peak Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1350.00	BB	54.2	60.5	24.2	39.5	4.3	0.0	43.2	49.5	74.0	30.8	24.5

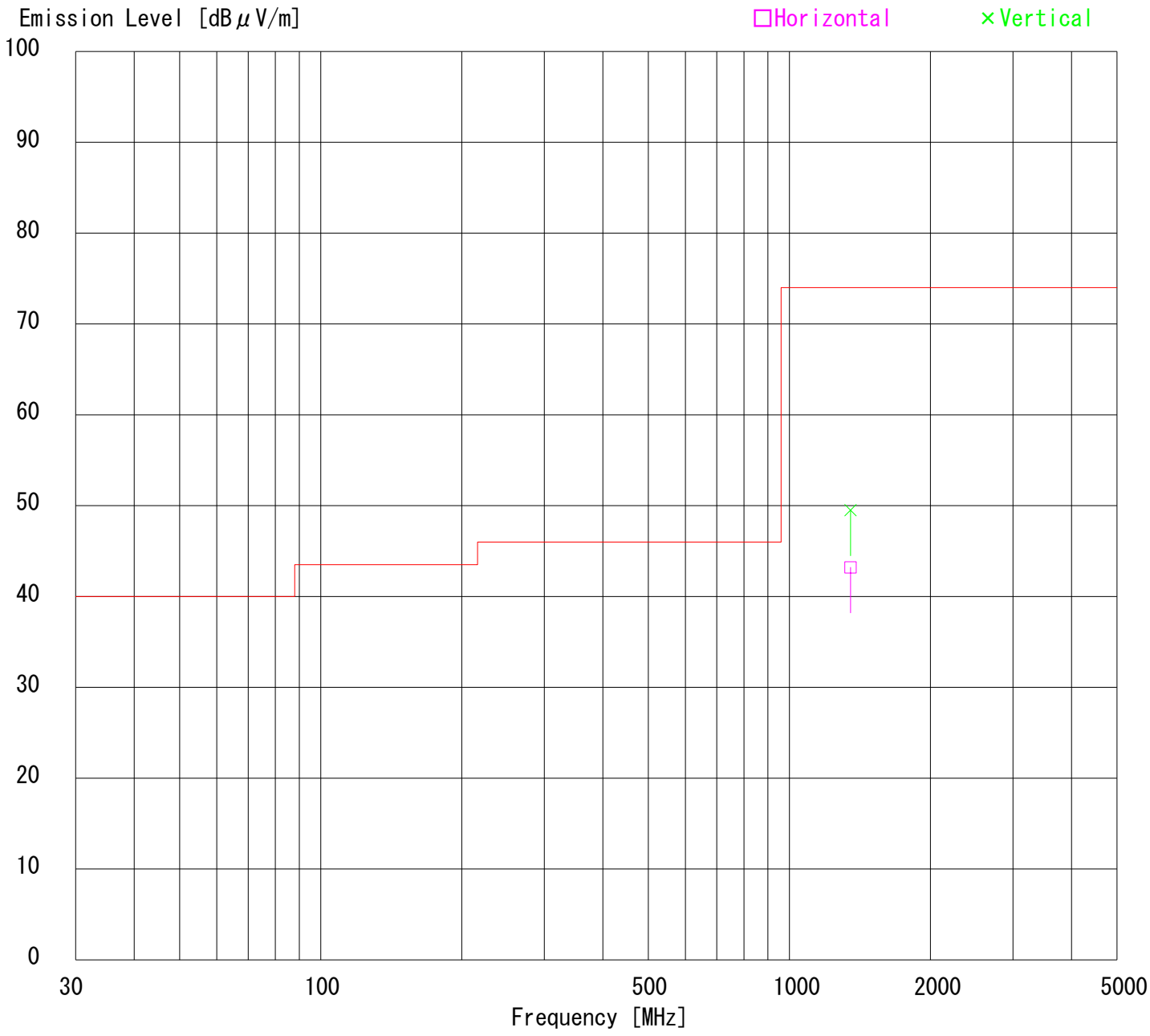
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.
ANT TYPE:1-5GHz Horn

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec(0dBmV)		
Remarks	: -		
Date	: 3/15/2006		
Test Distance	: 3 m		
Temperature	: 21 ℃	Engineer	: Toshifumi Yoneshige
Humidity	: 45 %		
Regulation	: FCC Part15B CLASS B(Peak Limit / Upper1GHz)		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No.: 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(25dBmV)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 21 ℃ Engineer : Toshifumi Yoneshige
Humidity : 45 %
Regulation : FCC Part15B CLASS B

No.	FREQ.	ANT TYPE	READING HOR	READING VER	ANT FACTOR	AMP GAIN	CABLE LOSS	ATTEN.	RESULT HOR	RESULT VER	LIMITS	MARGIN HOR	MARGIN VER
	[MHz]		[dBμV]		[dB/m]	[dB]	[dB]	[dB]	[dBμV/m]		[dBμV/m]	[dB]	
1.	140.03	BB	27.9	30.7	15.0	27.9	2.5	5.8	23.3	26.1	43.5	20.2	17.4
2.	188.99	BB	32.3	26.9	16.9	27.9	3.0	5.8	30.1	24.7	43.5	13.4	18.8
3.	202.98	BB	33.3	25.1	17.2	27.8	3.1	5.8	31.6	23.4	43.5	11.9	20.1
4.	216.02	BB	41.8	30.1	17.4	27.8	3.2	5.8	40.4	28.7	46.0	5.6	17.3
5.	270.02	BB	36.8	28.4	18.7	27.8	3.7	5.8	37.2	28.8	46.0	8.8	17.2
6.	297.00	BB	31.0	26.5	20.0	27.8	3.9	5.8	32.9	28.4	46.0	13.1	17.6
7.	324.02	BB	39.4	28.6	17.0	27.9	4.1	5.9	38.5	27.7	46.0	7.5	18.3
8.	378.00	BB	41.6	34.7	18.1	27.9	4.5	5.9	42.2	35.3	46.0	3.8	10.7
9.	540.00	BB	33.9	36.5	20.3	27.9	5.5	5.9	37.7	40.3	46.0	8.3	5.7
10.	648.01	BB	29.9	33.4	20.9	27.4	6.1	5.9	35.4	38.9	46.0	10.6	7.1
11.	675.00	BB	32.8	31.0	21.2	27.3	6.3	5.9	38.9	37.1	46.0	7.1	8.9
12.	810.02	BB	26.3	31.1	23.6	27.1	7.0	5.9	35.7	40.5	46.0	10.3	5.5
13.	913.41	BB	26.2	26.1	24.1	26.9	7.6	5.9	36.9	36.8	46.0	9.1	9.2
14.	947.25	BB	23.8	25.1	25.2	27.1	7.8	6.0	35.7	37.0	46.0	10.3	9.0

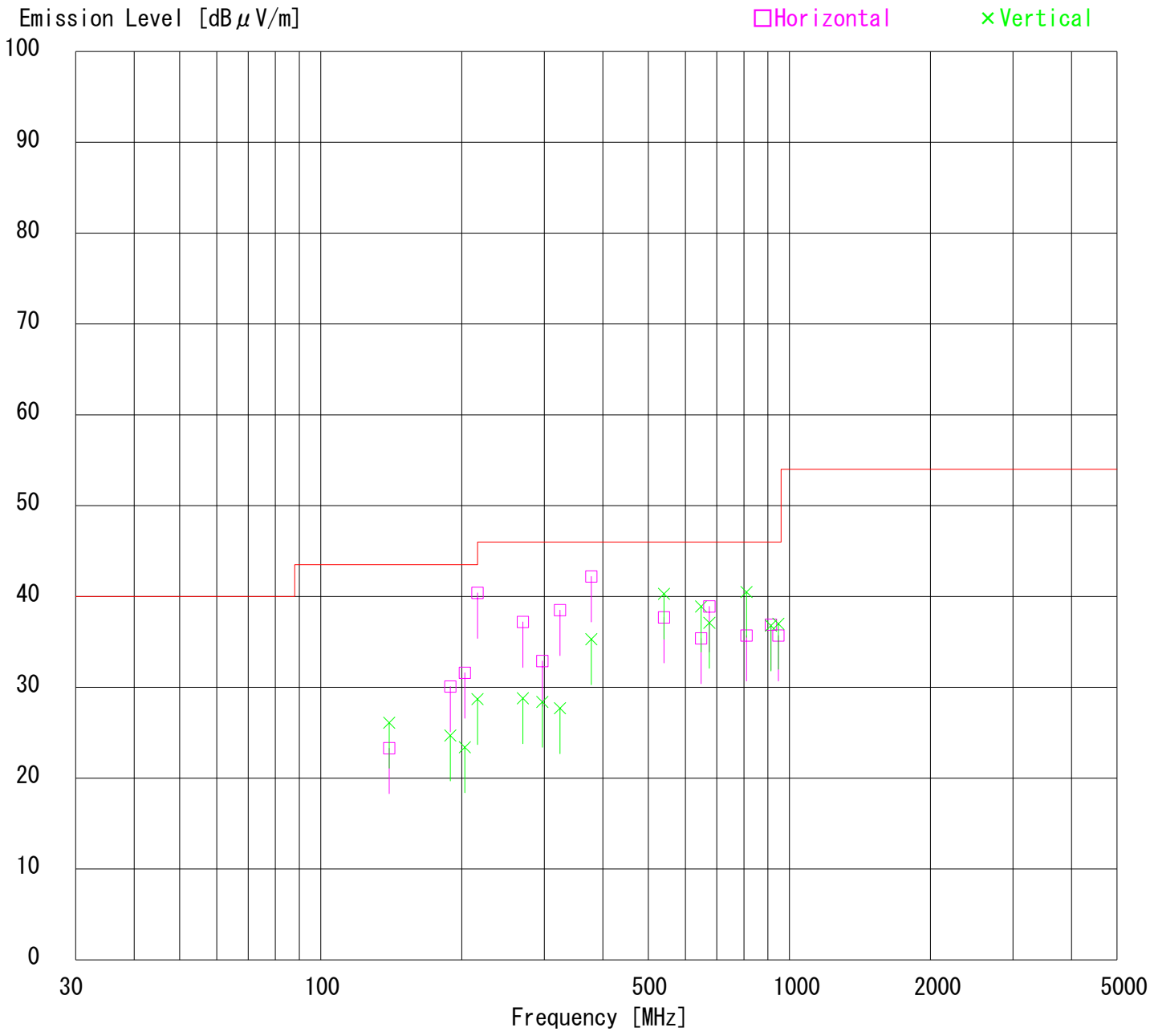
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec(25dBmV)		
Remarks	: -		
Date	: 3/15/2006		
Test Distance	: 3 m		
Temperature	: 21 ℃	Engineer	: Toshifumi Yoneshige
Humidity	: 45 %		
Regulation	: FCC Part15B CLASS B		



DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No.: 26GE0303-YW-1

Applicant : Orion Electric Co.,Ltd.
Kind of Equipment : DVD Recorder with Video Cassette Recorder
Model No. : D-VR5SU
Serial No. : -
Power : AC120V/60Hz
Mode : TV Reception+Rec(25dBmV)
Remarks : -
Date : 3/15/2006
Test Distance : 3 m
Temperature : 21 ℃ Engineer : Toshifumi Yoneshige
Humidity : 45 %
Regulation : FCC Part15B CLASS B(Average Limit / Upper1GHz)

No.	FREQ. [MHz]	ANT TYPE	READING HOR [dBμV]	READING VER [dBμV]	ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT HOR [dBμV/m]	RESULT VER [dBμV/m]	LIMITS [dBμV/m]	MARGIN HOR [dB]	MARGIN VER [dB]
1.	1014.90	BB	40.2	45.4	24.0	40.0	3.9	0.0	28.1	33.3	54.0	25.9	20.7
2.	1349.99	BB	44.4	50.3	24.2	39.5	4.3	0.0	33.4	39.3	54.0	20.6	14.7
3.	1760.00	BB	36.4	34.7	24.4	38.8	4.8	0.0	26.8	25.1	54.0	27.2	28.9

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table: adequate margin data below the limits.
ANT TYPE:1-5GHz Horn

DATA OF RADIATION TEST

UL Apex Co., Ltd.
YOKOWA No.3 OPEN TEST SITE
Report No.: 26GE0303-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD Recorder with Video Cassette Recorder		
Model No.	: D-VR5SU		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec(25dBmV)		
Remarks	: -		
Date	: 3/15/2006		
Test Distance	: 3 m		
Temperature	: 21 ℃	Engineer	: Toshifumi Yoneshige
Humidity	: 45 %		
Regulation	: FCC Part15B CLASS B(Average Limit / Upper1GHz)