EMI TEST REPORT

Test Report No. : 24JE0051-YW-1

Applicant :	**Orion Electric Co., Ltd.**
Type of equipment :	**DVD/VCR**
Model number :	**SD-V392SUA**
Test standard :	**FCC Part 15 Subpart B** **ICES-003 Issue No.4 Class B**
Test result :	**Complied**

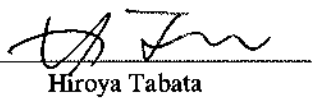
1. This test report shall not be reproduced except in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with above regulation. We hereby certify that the data contain a true representation 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 : May 15 to 21 2004

Tested by:

Tsubasa Takayama
EMC Service

Approved by:



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Section 1 : Client information

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

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

2.1 Identification of E.U.T.

Type of equipment	:	DVD/VCR
Brand Name	:	TOSHIBA
Model number	:	SD-V392SUA
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	:	May 8, 2004
Condition of EUT	:	Production Prototype (Not for Sale: This sample is equivalent to mass-produced items.)

2.2 Product description

Model: SD-V392SUA (referred to as the EUT in this report) is a DVD/VCR.
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, 18W
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

2.3 Similar apparatus

There are similar apparatuses as follows;
SD-V392SCA, SD-V320SUA, SD-V320SCA, SD-V396SUA, SD-V396SCA, SD-K220SUA, SD-K220SCA

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 C63.4:2001 IEEE 213:1987	CISPR 22	19.3 dB (0.1500 MHz, AV Input 1 + Rec. 1Vp-p: L1/ AV Input 2 + Rec. 1Vp-p: N)	Complied
Radiated emission	ANSI C63.4:2001 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	7.5 dB (405.00 MHz, Horizontal, DVD Play)	Complied
Antenna terminal voltage	ANSI C63.4:2001	2 nW (at 75 ohm)	20.4 dB (624.85330 MHz, TV Tuning/ 621.71060 MHz, CATV Tuning)	Complied
RF output level	ANSI C63.4:2001	Video signal: 3000 uV Aural signal: 671 uV	5.8 dB (67.25 MHz, TV Reception + Rec. 25dBmV / AV Input 2 + Rec. 5Vp-p/ DVD Play)	Complied
Spurious emission		94.8 uV	24.1 dB (38.5400 MHz: 4ch, TV Reception + Rec. 25dBmV / AV Input 1 + Rec. 1Vp-p)	Complied
Transfer switch	ANSI C63.4:2001	9.5 dB	6.0 dB (67.2500 MHz, 4ch AV Input 1 + Rec. 1Vp-p/ 5Vp-p)	Complied
Picture sensitivity	ANSI C63.4:2001	8 dB	4.7 dB	Complied
Noise figure	FCC/OET MP:2:1986	14 dB	7.3 dB (38ch, 615.25 MHz/ 16ch, 133.25 MHz)	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 ± 1.74 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 ±4.4 dB.
The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ±4.8 dB.
The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is ±5.8 dB.
The data listed in this test report has enough margin, more than site margin.

Antenna terminal voltage

The measurement uncertainty (with a 95% confidence level) for this test was ± 3.48 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 ± 3.48 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 ± 3.48 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. No.1, No.2, No.3 shielded room and No.3 open site
108 Yokowa-cho, Ise-shi, Mie-ken, 516-1106 JAPAN
TEL : +81 596 39 1485
FAX : +81 596 39 0232

No.3 open site
This site has been fully described in a report submitted to FCC office, and listed on September 25, 2003.
(Registration number: 90412)

*NVLAP Lab. Code : 200109-0

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

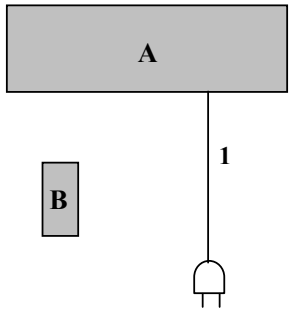
The EUT exercise program used during testing was designed exercise the various system components in a manner similar to typical use.

The sequence in used : * TV reception + Rec. mode (0 dBmV input / 25 dBmV input)
* AV input + Rec. mode (1 Vp-p input / 5 Vp-p input)
* VCR play mode
* DVD play 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



AC 120V/ 60Hz

* Cabling was 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	Remark
A	DVD/VCR	SD-V392SUA	–	Orion Electric Co., Ltd.	EUT
B	Remote Controller	–	–	Orion Electric Co., Ltd.	EUT

List of cable used

No.	Item	Length (m)	Shield	Backshell material
1	AC Power Cable	1.6	Unshielded	Polyvinyl chloride

Section 5 : Conducted emission

5.1 Operation environment

The test was carried out in a shielded room the size of 5.5 x 6.4 x 2.7m and 3.6 x 7.2 x 2.4m.

Date : May 19, 2004
Temperature : See data
Humidity : See data

5.2 Test configuration

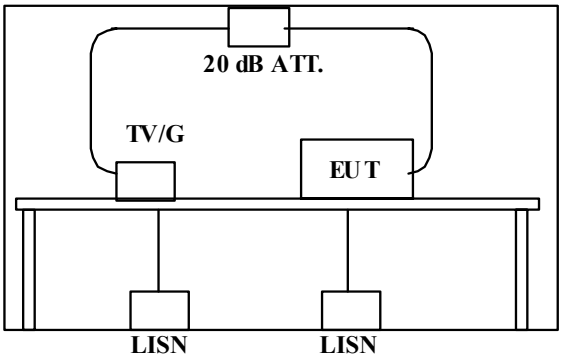
EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The rear of tabletop was located 40 cm to the vertical conducting plane. The rear of EUT was aligned and flushed with rear of tabletop. All other surfaces of tabletop was at least 80 cm from any 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)

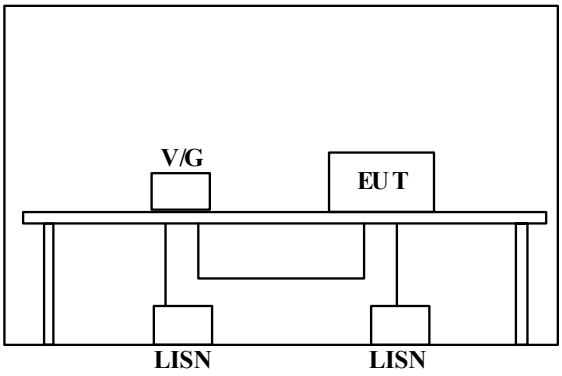
Shielded room



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 cable
Component out ($Y/C_B/C_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable

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

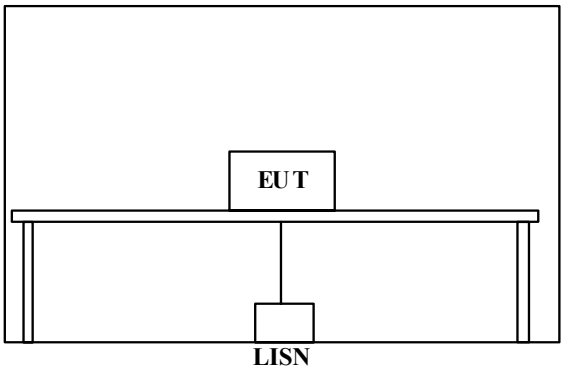
Shielded room



RF in: 75 ohm terminated
Front video in: Video signal generator connected
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 cable
Component out ($Y/C_B/C_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable

VCR play mode

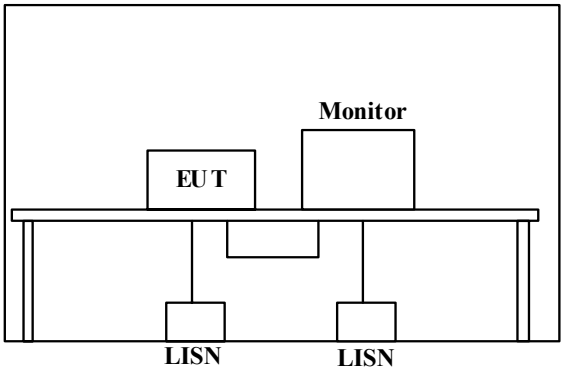
Shielded room



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: 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 cable
Component out ($Y/C_B/C_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable

DVD play 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 cable
Component out ($Y/C_B/C_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable

5.3 Test conditions

Frequency range : 0.15 MHz – 30 MHz
EUT position : Table top
EUT operation mode: TV reception + Rec., AV input + Rec., VCR play, DVD play

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.
EUT and desired signal generator should connect through 20 dB attenuator.
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: Tsubasa Takayama

Section 6 : Radiated emission

6.1 Operation environment

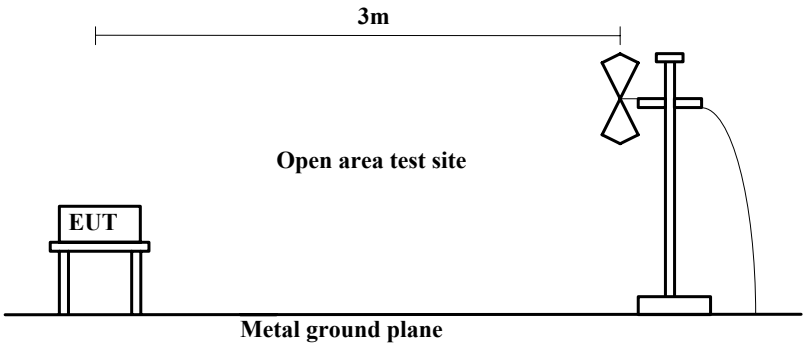
The test was carried out in an open site.

Date : May 15 and 16, 2004
Temperature : See data
Humidity : See data

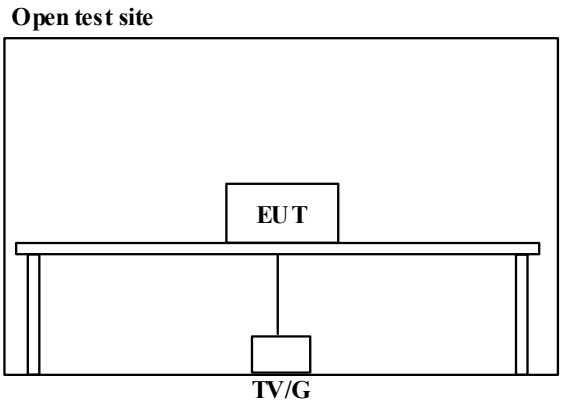
6.2 Test configuration

EUT was placed on a platform of nominal size, 1 m by 1.5 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 figure 2 and photographs in Appendix 1.

Figure 2. Radiated emission



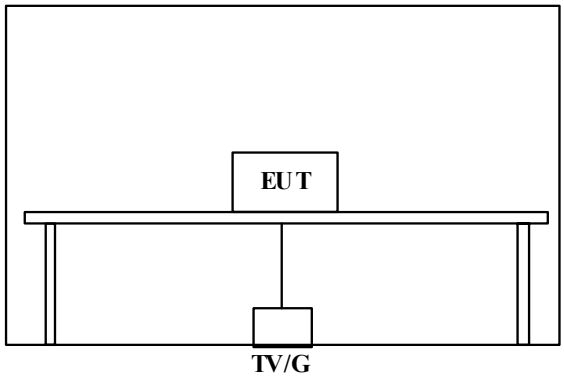
TV reception + Rec. mode (0 dBmV / 25 dBmV)



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 cable
Component out ($Y/C_B/C_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable

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

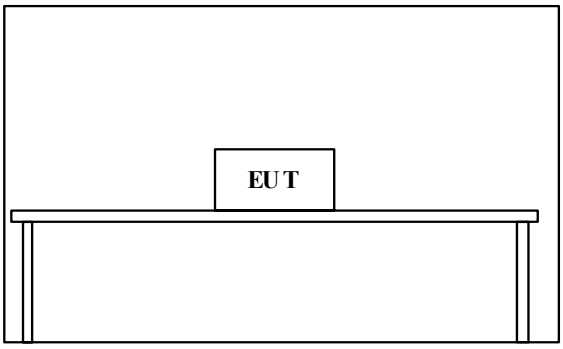
Open test site



RF in: 75 ohm terminated
Front video in: Video signal generator connected
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 cable
Component out ($Y/C_B/C_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable

VCR play mode

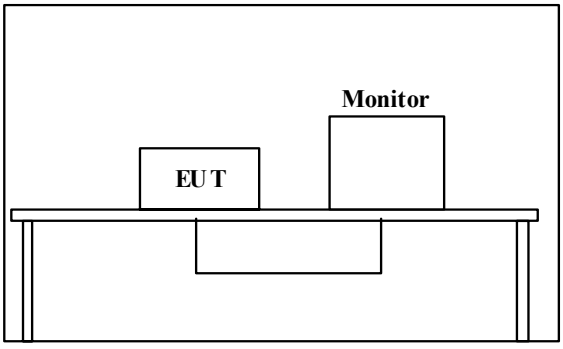
Open test site



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: 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 cable
Component out ($Y/C_B/C_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable

DVD play 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 cable
Component out ($Y/C_B/C_R$): 75 ohm terminated with component cable
RF output: 75 ohm terminated with RF output cable
Coaxial out: 75 ohm terminated with coaxial cable

6.3 Test conditions

Frequency range : 30 MHz – 2000 MHz
Test distance : 3 m
EUT position : Table top
EUT operation mode: TV reception + Rec., AV input + Rec., VCR play, DVD play

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 80MHz – 90MHz, 270MHz – 290MHz and 500MHz – 700MHz in a shielded room to distinguish disturbances of EUT from the ambient noise. Measurements were performed with quasi-peak detector, peak detector and average detector.
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.

	30-1000MHz (Test receiver)	1000-2000MHz (Spectrum analyzer)	
Detector Type	: QP	: PK	: AV
IF Bandwidth	: 120kHz	: RBW 1MHz / VBW 1MHz	: RBW 1MHz/ VBW 10Hz

6.5 Test result

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

Test engineer: Tsubasa Takayama

Section 7 : Antenna terminal voltage

7.1 Operation environment

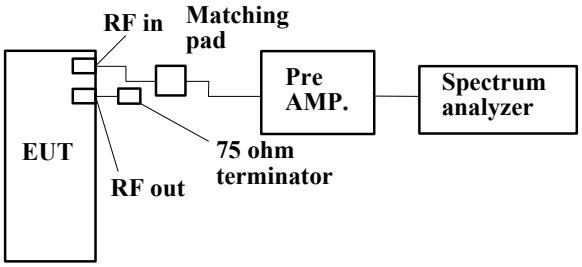
The test was carried out in a shielded room the size of 4.5 x 3.6 x 2.7 m.

Date : May 21, 2004
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 3 and photographs in Appendix 1.

Figure 3. Antenna terminal voltage



7.3 Test conditions

Frequency range : 30 MHz – 2000 MHz
EUT position : Table top
EUT operation mode: Tuning (TV receiver / CATV receiver)

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 (30-2000 MHz)

7.5 Test result

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

Test engineer: Tsubasa Takayama

Section 8 : RF output level / spurious emission

8.1 Operation environment

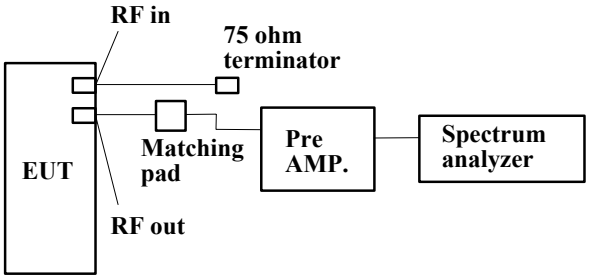
The test was carried out in a shielded room the size of 4.5 x 3.6 x 2.7 m.

Date : May 21, 2004
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 4 and photographs in Appendix 1.

Figure 4. RF output level



8.3 Test conditions

EUT position : Table top
EUT operation mode: TV reception + Rec., AV input + Rec., VCR play, DVD play

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: Tsubasa Takayama

Section 9 : Antenna transfer switch

9.1 Operation environment

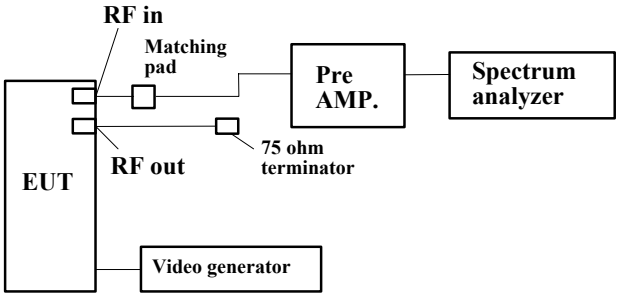
The test was carried out in a shielded room the size of 4.5 x 3.6 x 2.7 m.

Date : May 21, 2004
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 5 and photographs in Appendix 1.

Figure 5. Transfer switch



9.3 Test conditions

EUT position : Table top
EUT operation mode: AV input + Rec., VCR play, DVD play

9.4 Test procedure

EUT was connected spectrum analyzer through matching pad by accessory cable. RF channel selected 3ch or 4ch. The EUT exercised AV input + Rec. mode and Playback mode during the test, and 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: Tsubasa Takayama

Section 10 : Picture sensitivity

10.1 Operation environment

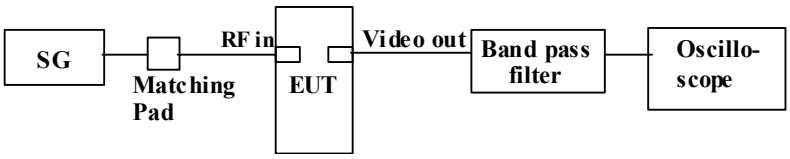
The test was carried out in a shielded room the size of 4.5 x 3.6 x 2.7 m.

Date : May 21, 2004
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 6 and photographs in Appendix 1.

Figure 6. 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: Tsubasa Takayama

Section 11 : Noise figure

11.1 Operating environment

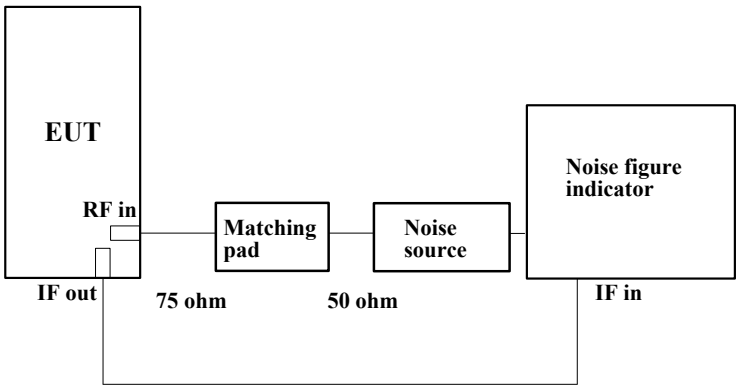
The test was carried out in a shielded room the size of 4.5 x 3.6 x 2.7 m.

Date : May 21, 2004
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 7 and photographs in Appendix 1.

Figure 7. 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 through ceramic condenser. 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: Tsubasa Takayama

Appendix 1 : Photographs of test set up

Page 19 : Test set up of conducted emission

Page 20 : Test set up of radiated emission

Page 21 : Test set up of antenna terminal voltage

Page 22 : Test set up of RF output level / spurious emission

Page 23 : Test set up of antenna transfer switch

Page 24 : Test set up of picture sensitivity

Page 25 : Test set up of noise figure

Appendix 2 : Data of EMI tests

Page 26 - 49 : Conducted emission

Page 50 - 80 : Radiated emission

Page 81 - 82 : Antenna terminal voltage

Page 83 - 106 : RF output level / spurious emission

Page 107 - 118 : Antenna transfer switch

Page 119 : Picture sensitivity

Page 120 : Noise figure

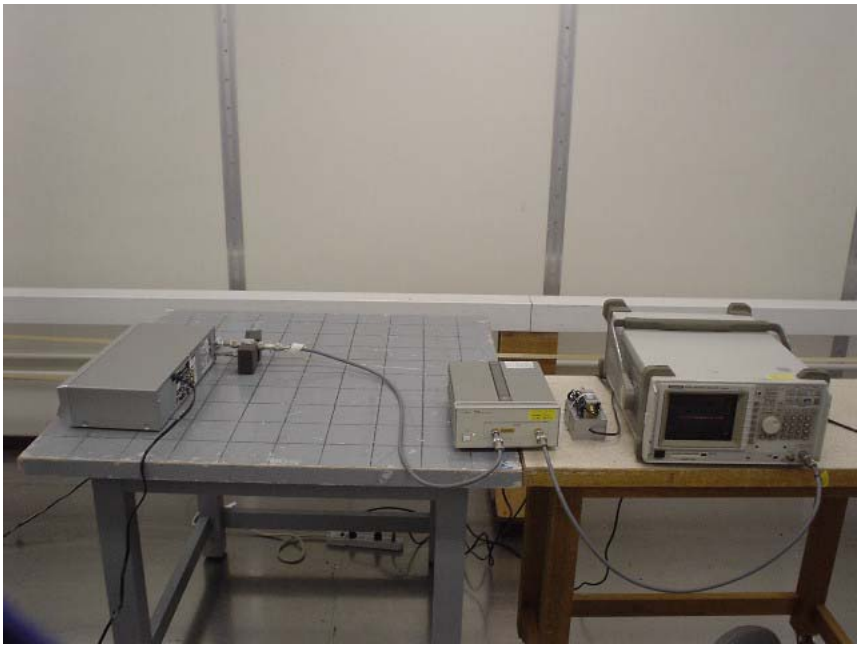
Appendix 3 : Test instruments

Page 121 : Test instruments

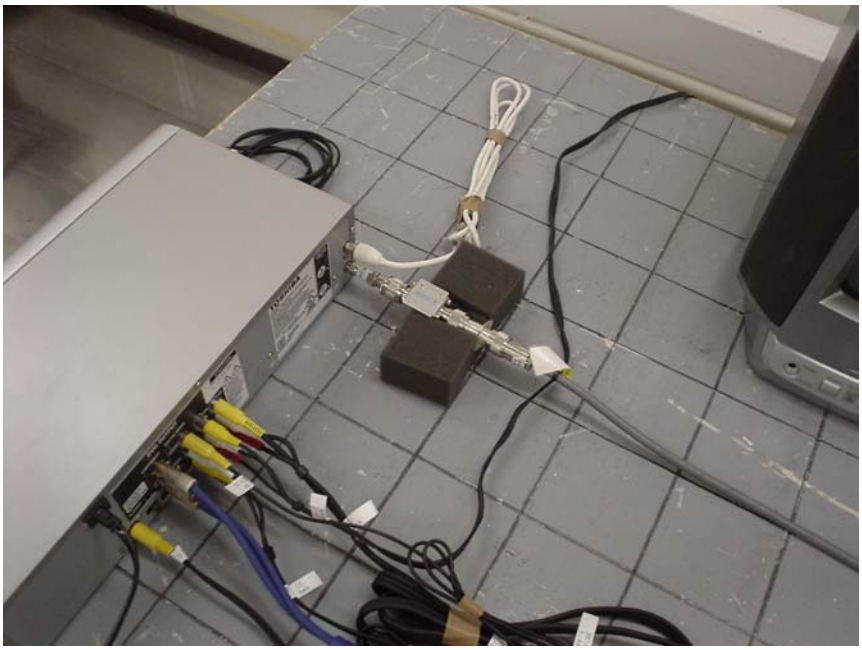
Conducted emission

Radiated emission

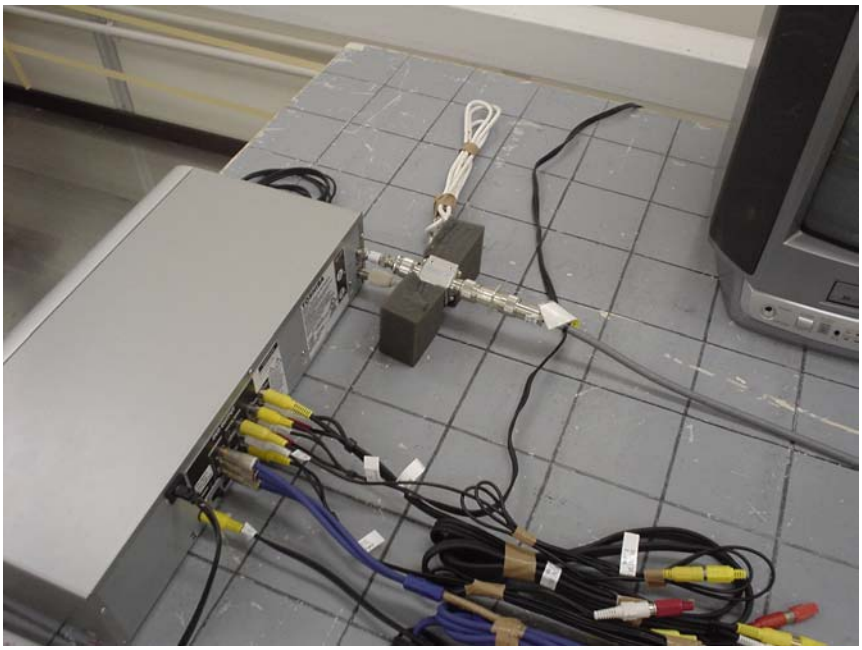
Antenna terminal voltage



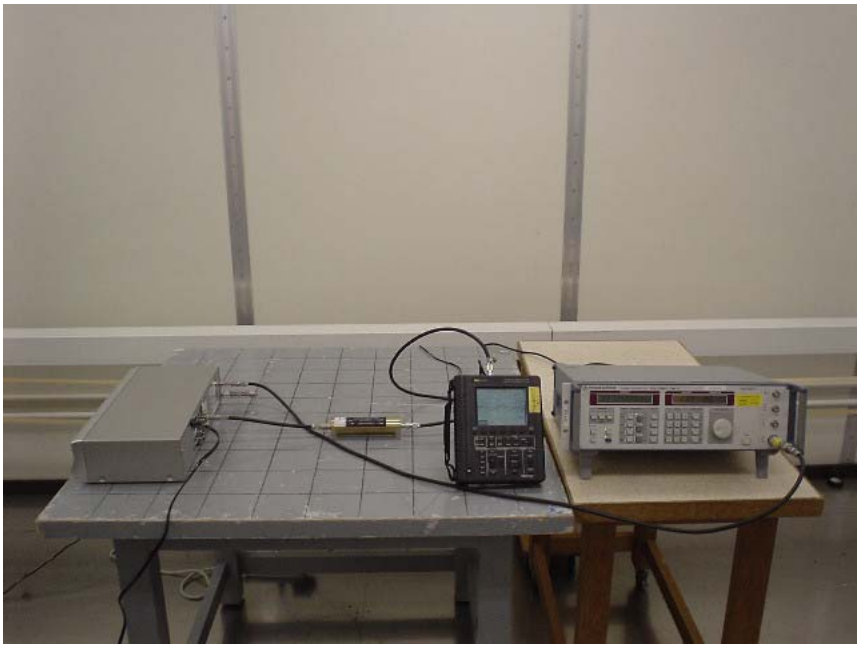
RF output level / spurious emission



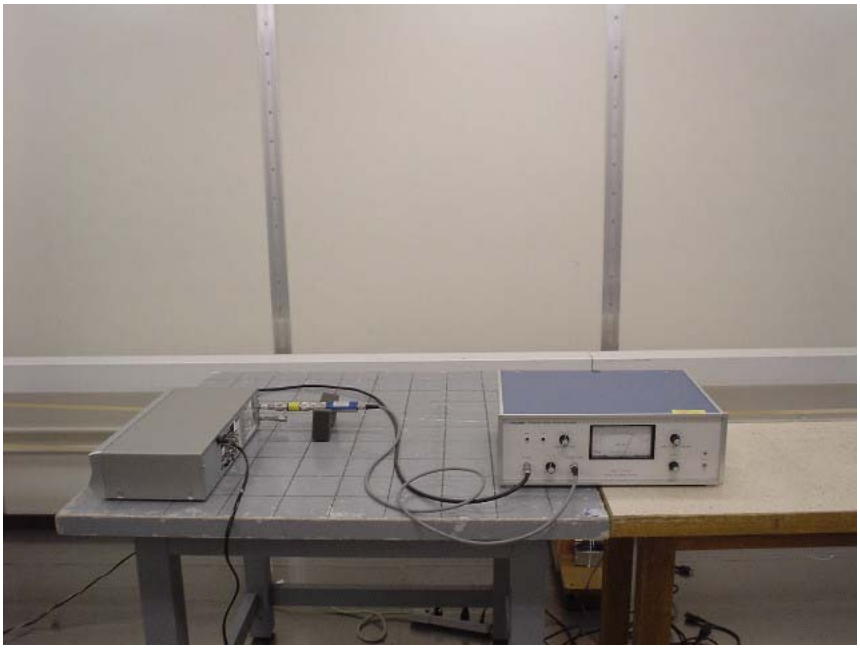
Antenna transfer switch

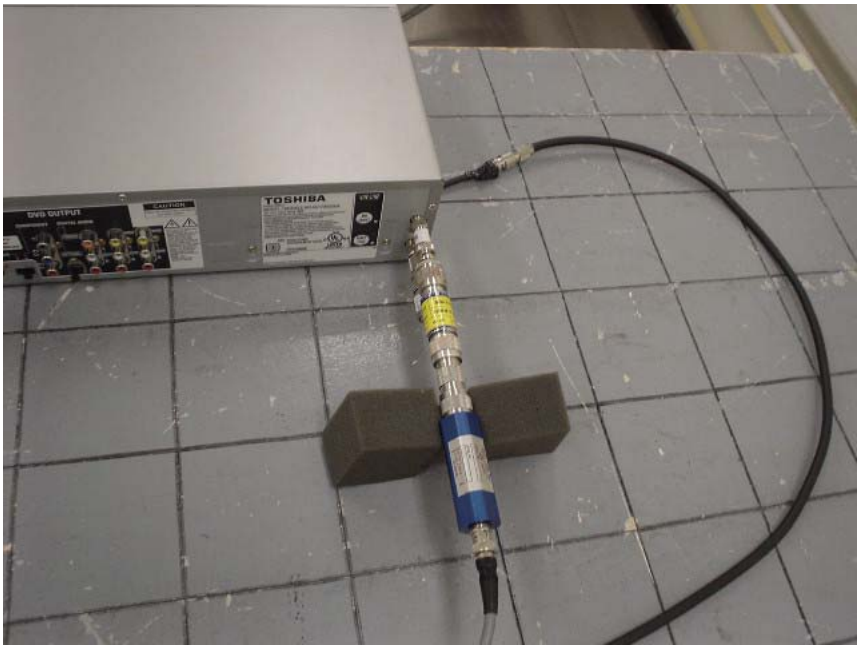


Picture sensitivity



Noise figure





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec		
Remarks	: 0dBm		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 °C	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

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.	0.1500	45.9	-	41.5	-	0.1	0.1	0.0	46.1	-	66.0	56.0	19.9	-
2.	0.7110	25.3	-	25.0	-	0.1	0.1	0.0	25.5	-	56.0	46.0	30.5	-
3.	1.0602	24.6	-	24.3	-	0.1	0.1	0.0	24.8	-	56.0	46.0	31.2	-
4.	7.4158	22.7	-	22.5	-	0.3	0.3	0.0	23.3	-	60.0	50.0	36.7	-
5.	9.6484	34.3	-	31.8	-	0.4	0.3	0.0	35.0	-	60.0	50.0	25.0	-
6.	18.4316	31.9	-	31.0	-	0.9	0.4	0.0	33.2	-	60.0	50.0	26.8	-
7.	19.9649	24.9	-	24.2	-	1.0	0.4	0.0	26.3	-	60.0	50.0	33.7	-

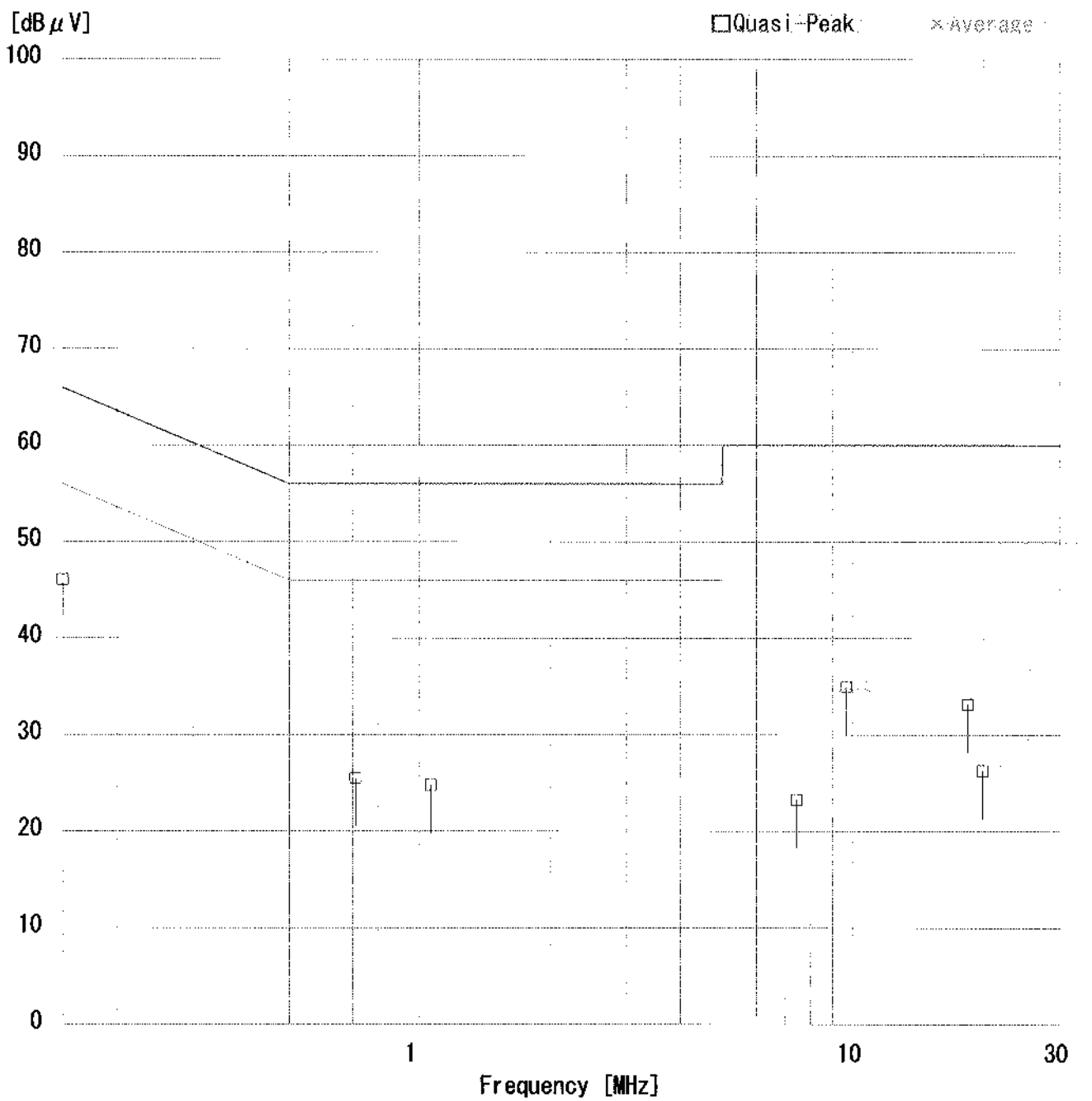
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

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

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

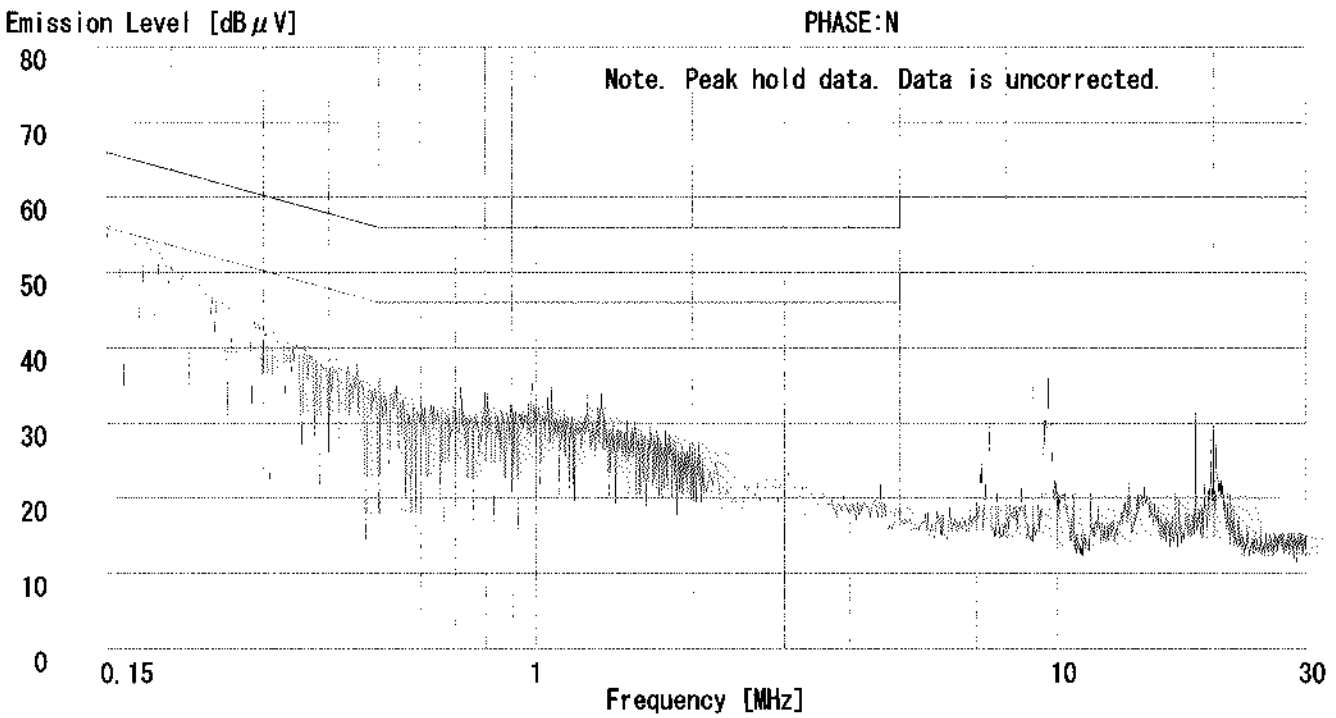
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec		
Remarks	: 0dBm		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

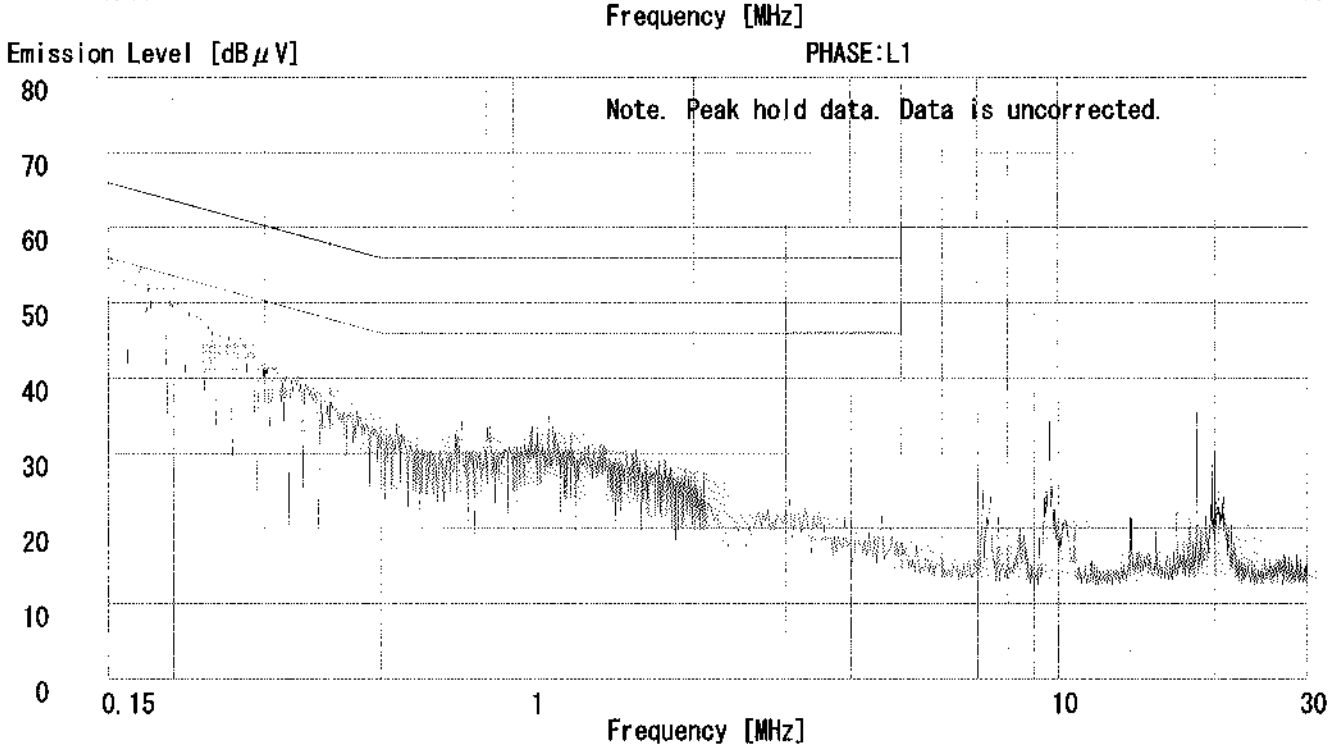


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec		
Remarks	: 0dBm		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec		
Remarks	: 25dBm		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

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]		[dBμV]	[dB]
1.	0.1500	42.8	-	41.4	-	0.1	0.1	0.0	43.0	-	66.0	56.0	23.0	-
2.	0.7122	23.7	-	23.4	-	0.1	0.1	0.0	23.9	-	56.0	46.0	32.1	-
3.	1.3537	20.4	-	22.6	-	0.1	0.1	0.0	22.8	-	56.0	46.0	33.2	-
4.	7.4557	23.0	-	22.4	-	0.3	0.3	0.0	23.6	-	60.0	50.0	36.4	-
5.	9.6500	34.3	-	34.8	-	0.4	0.3	0.0	35.5	-	60.0	50.0	24.5	-
6.	18.4309	30.1	-	32.0	-	0.9	0.4	0.0	33.3	-	60.0	50.0	26.7	-
7.	19.7092	21.3	-	23.4	-	1.0	0.4	0.0	24.8	-	60.0	50.0	35.2	-

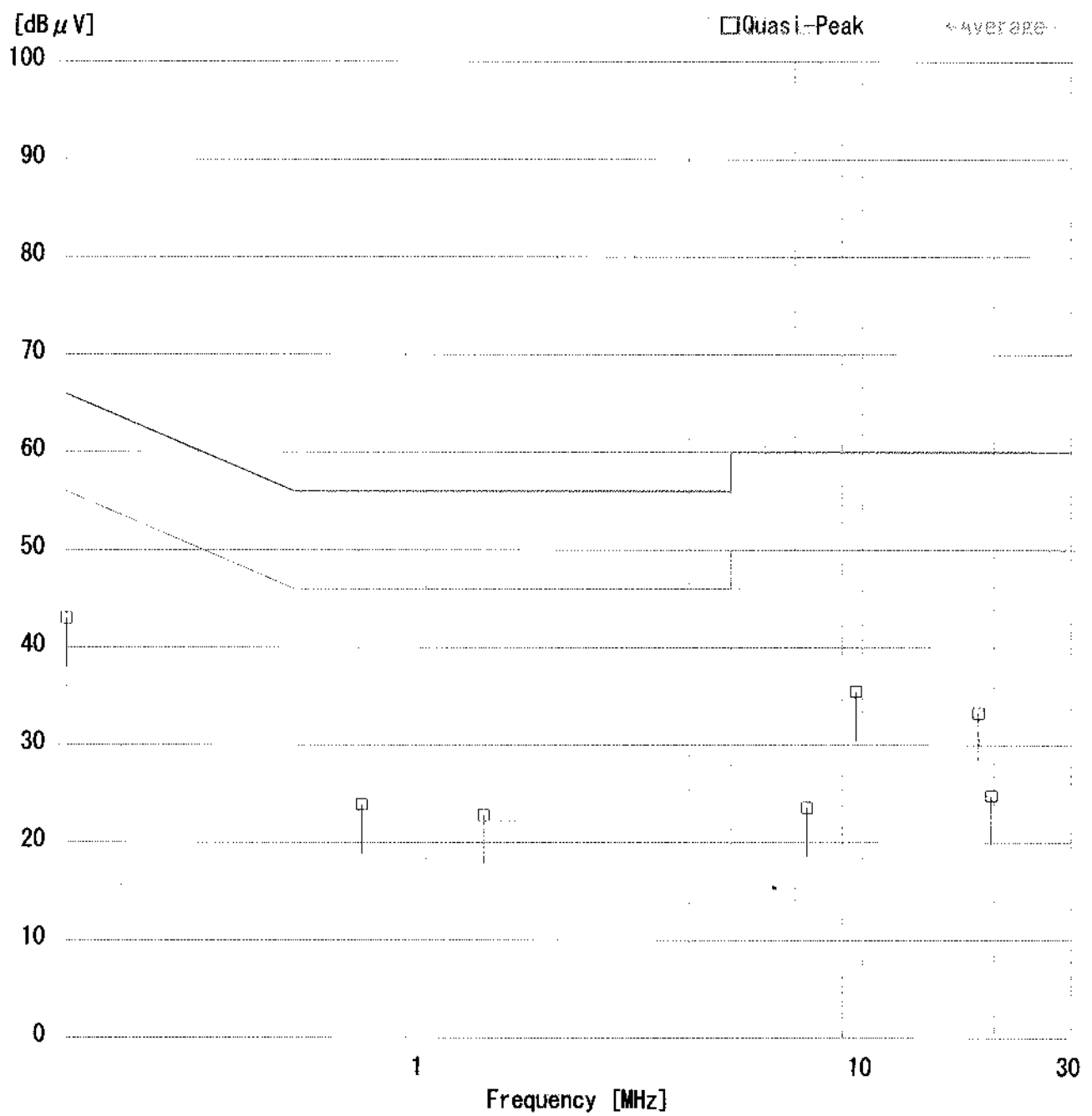
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

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

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

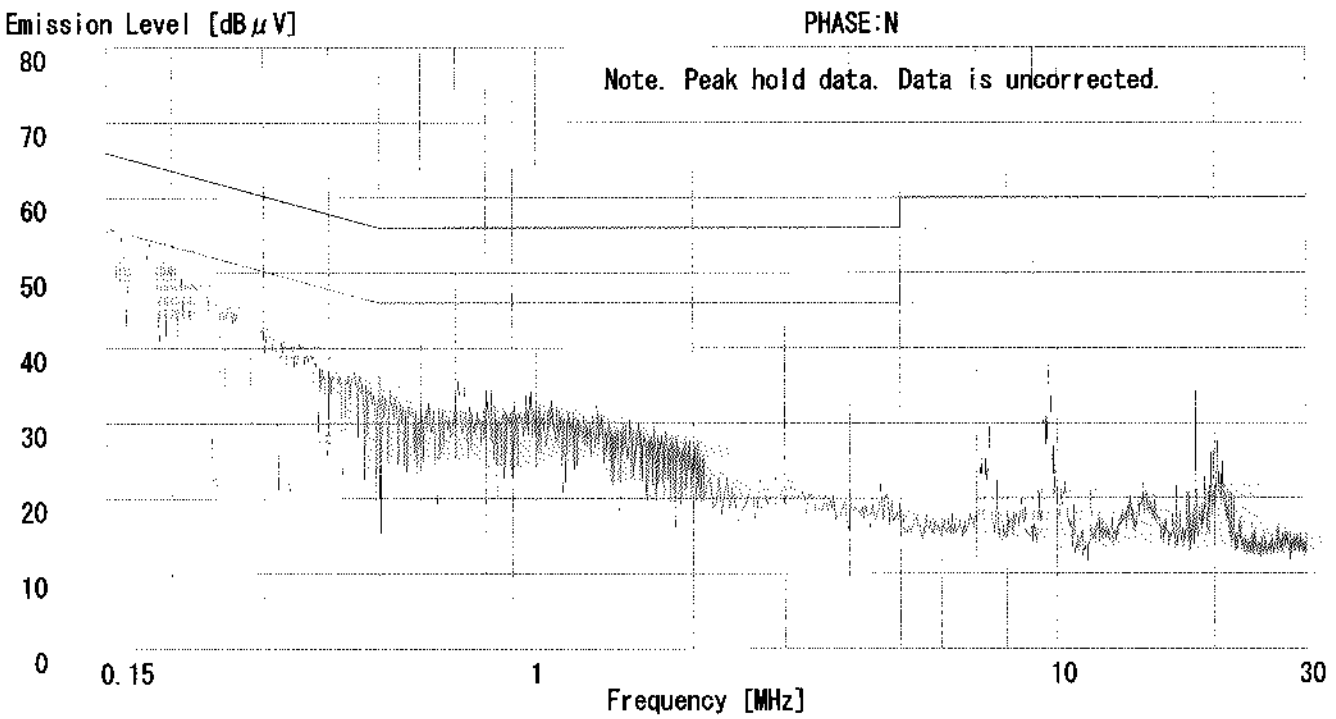
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec		
Remarks	: 25dBm		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

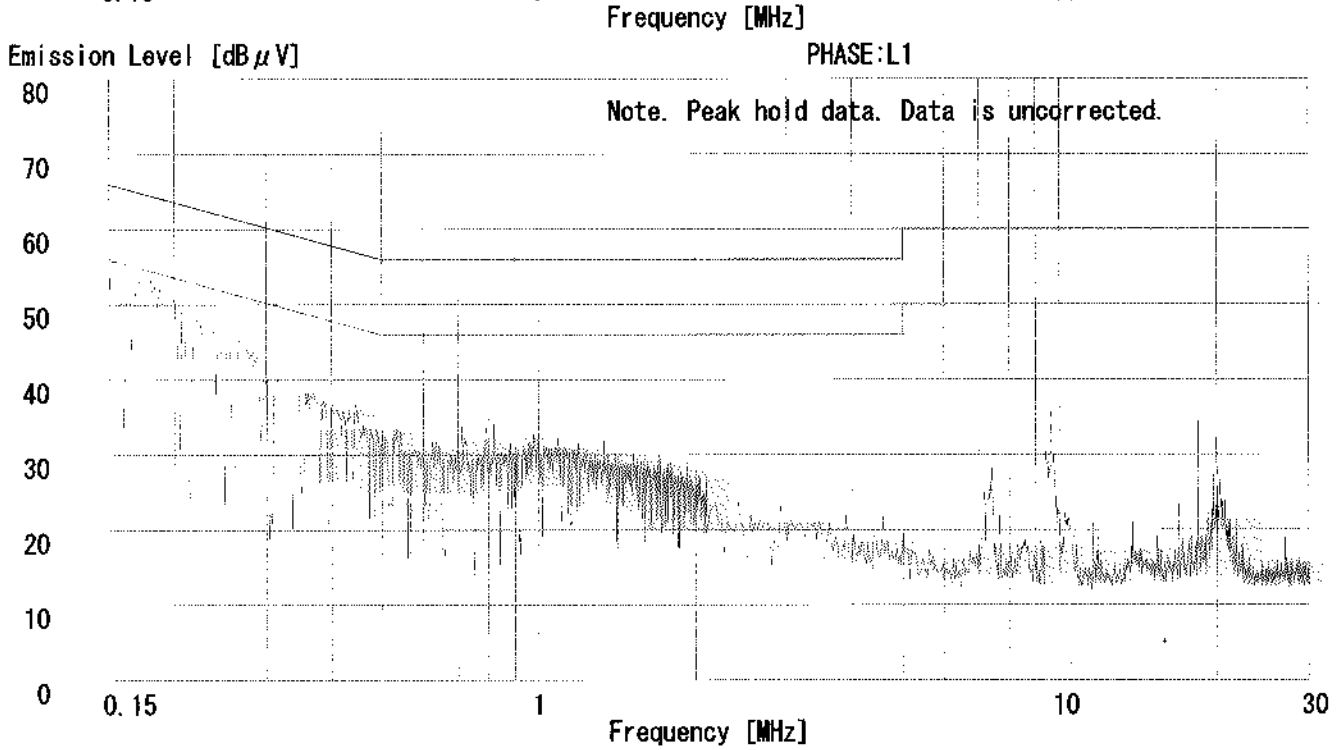


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No. : 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: TV Reception+Rec		
Remarks	: 25dBm		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input1 + Rec		
Remarks	: 1Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

No.	FREQ.	READING(N)		READING(L1)		LISN FACTOR	CABLE LOSS	ATTEN.	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV				QP	AV	QP	AV	QP	AV
	[MHz]	[dBμV]		[dBμV]		[dB]	[dB]	[dB]	[dB]		[dBμV]		[dB]	
1.	0.1500	45.0	-	46.5	-	0.1	0.1	0.0	46.7	-	66.0	56.0	19.3	-
2.	0.7061	24.3	-	26.4	-	0.1	0.1	0.0	26.6	-	56.0	46.0	29.4	-
3.	1.0886	23.8	-	24.3	-	0.1	0.1	0.0	24.5	-	56.0	46.0	31.5	-
4.	7.6945	22.8	-	22.7	-	0.3	0.3	0.0	23.4	-	60.0	50.0	36.6	-
5.	16.8949	24.6	-	23.6	-	0.8	0.4	0.0	25.8	-	60.0	50.0	34.2	-
6.	18.4300	27.0	-	26.2	-	0.9	0.4	0.0	28.3	-	60.0	50.0	31.7	-

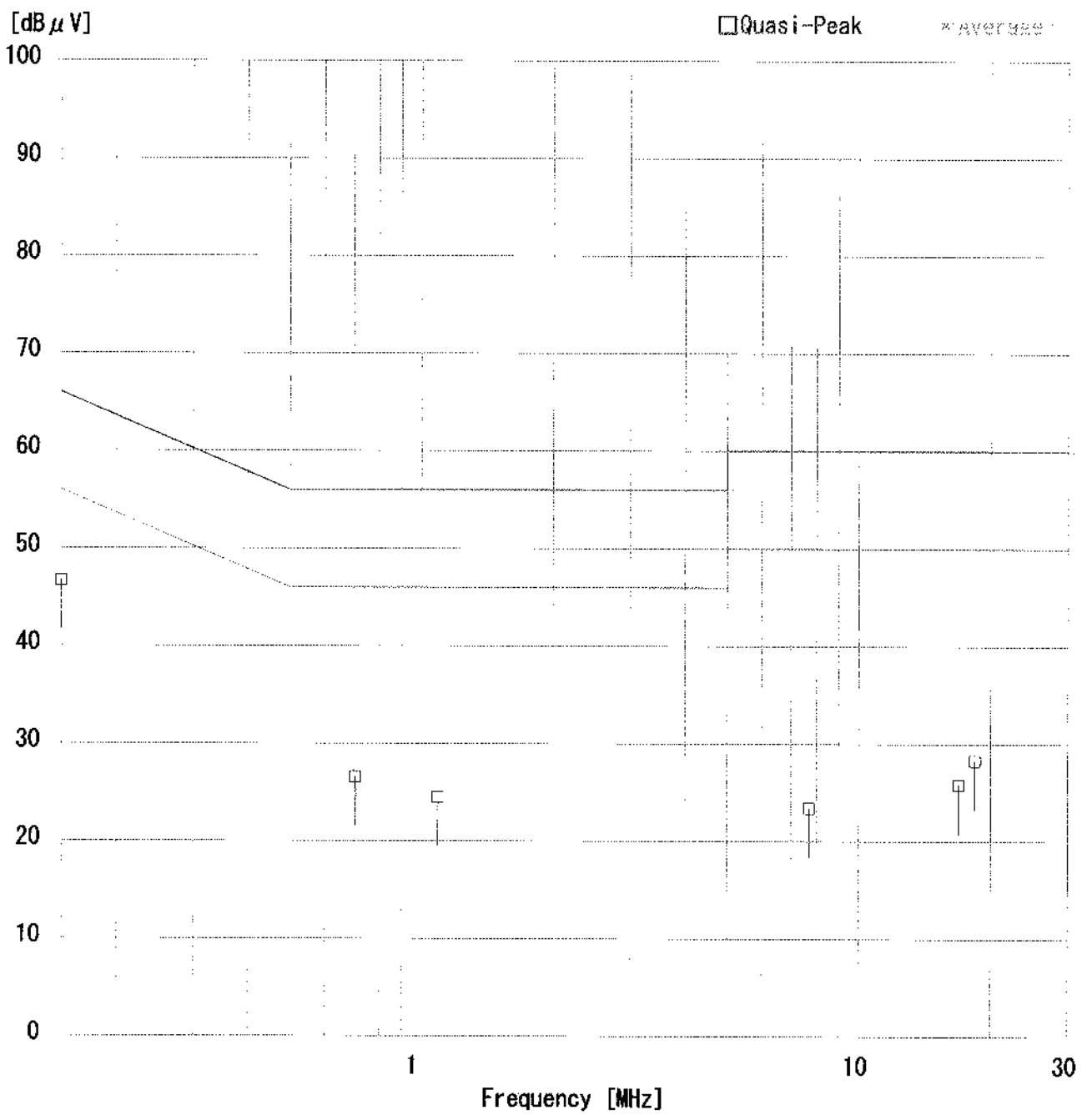
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

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

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

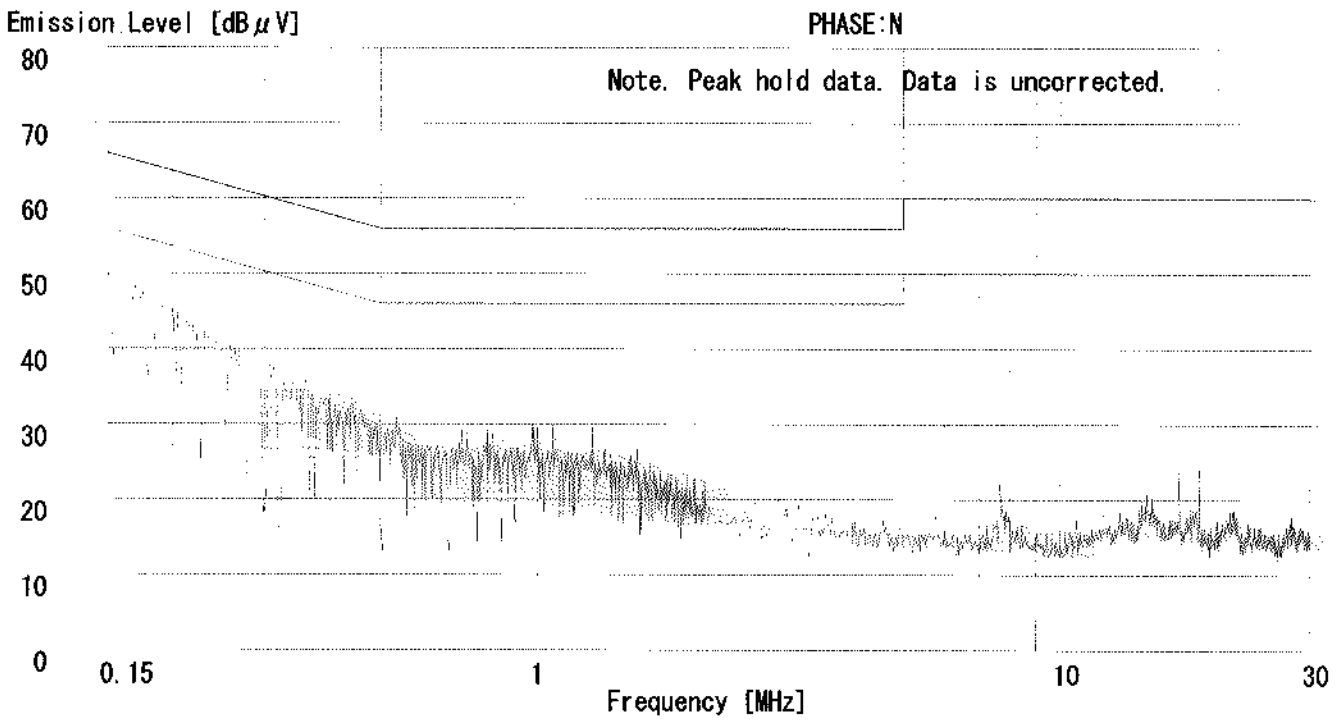
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input1 + Rec		
Remarks	: 1Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

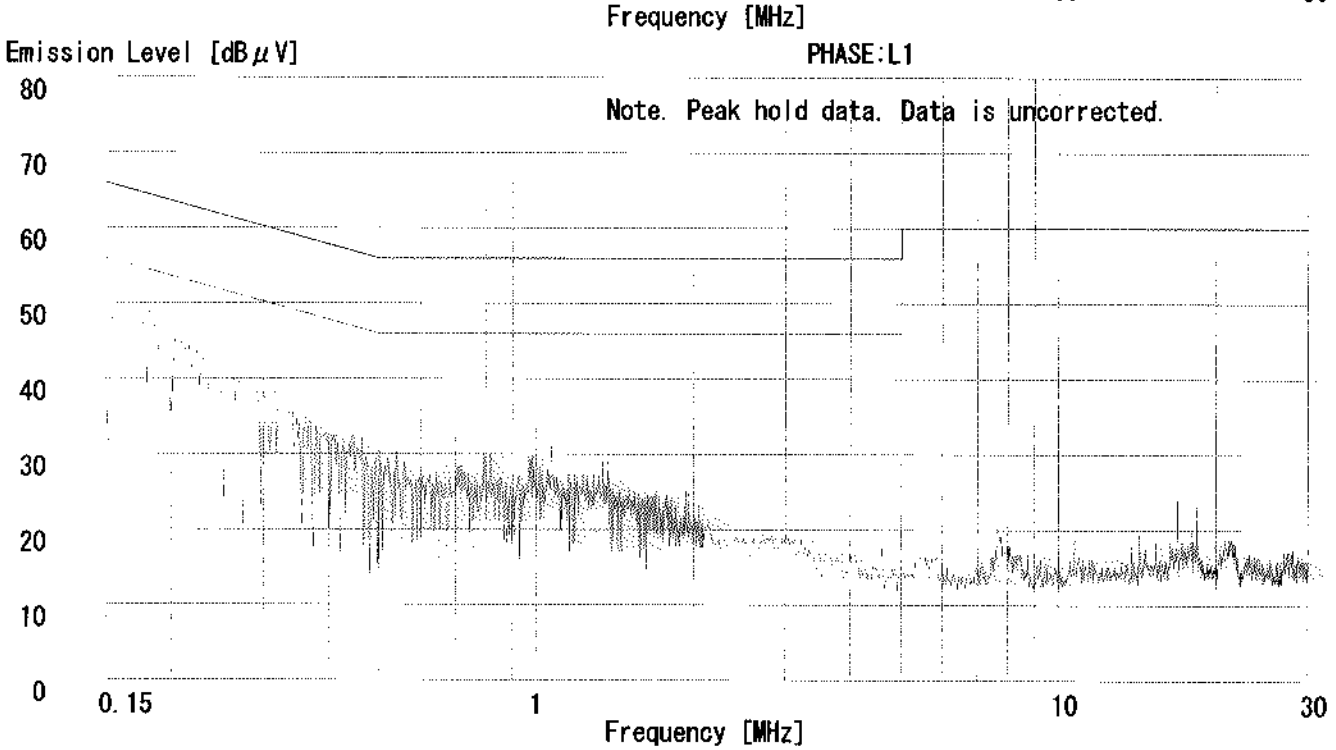


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No. : 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input1 + Rec		
Remarks	: 1Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input1 + Rec		
Remarks	: 5Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

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]	
1.	0.1500	44.3	-	46.3	-	0.1	0.1	0.0	46.5	-	66.0	56.0	19.5	-
2.	0.7107	24.6	-	25.6	-	0.1	0.1	0.0	25.8	-	56.0	46.0	30.2	-
3.	1.0638	24.3	-	24.8	-	0.1	0.1	0.0	25.0	-	56.0	46.0	31.0	-
4.	8.1500	14.5	-	14.8	-	0.3	0.3	0.0	15.4	-	60.0	50.0	44.6	-
5.	16.8949	23.7	-	22.0	-	0.8	0.4	0.0	24.9	-	60.0	50.0	35.1	-
6.	18.4320	26.5	-	25.7	-	0.9	0.4	0.0	27.8	-	60.0	50.0	32.2	-

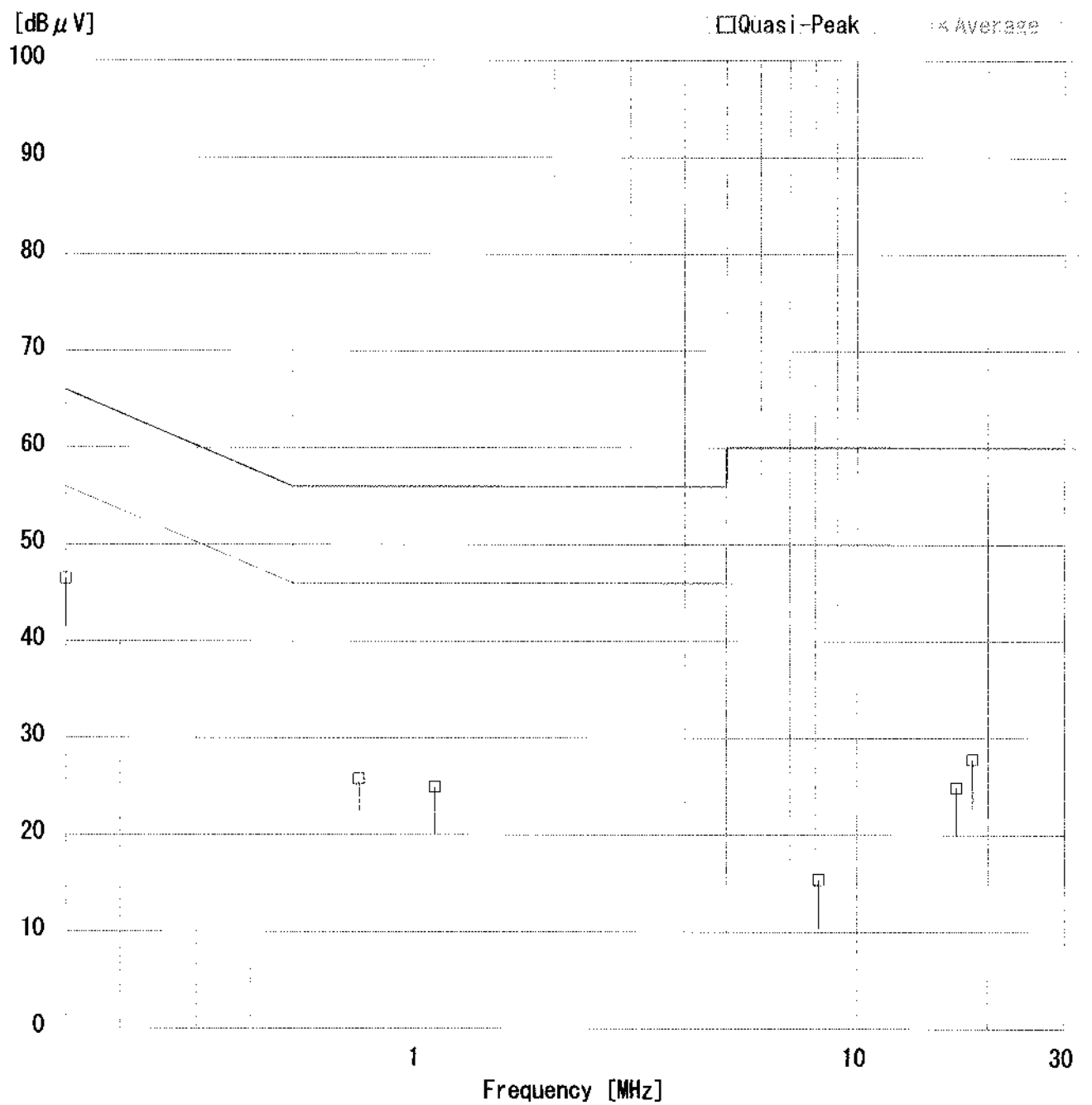
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

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

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

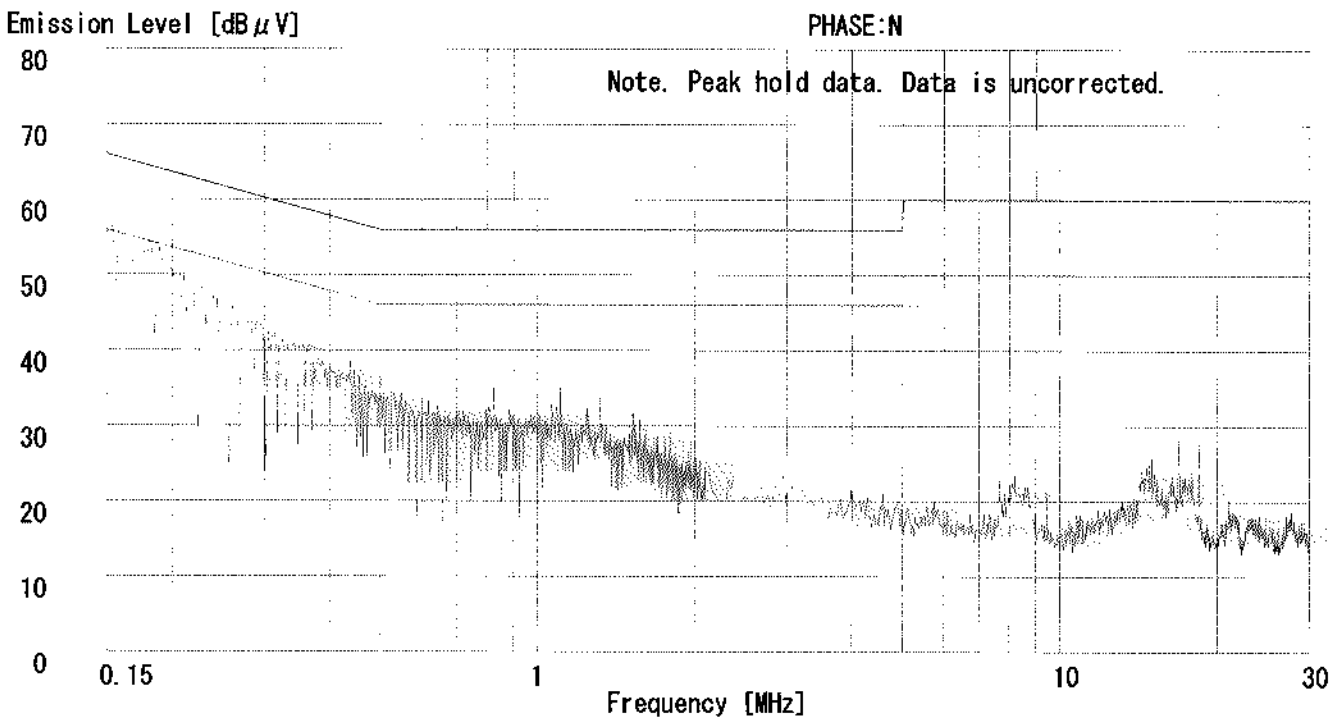
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input1 + Rec		
Remarks	: 5Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

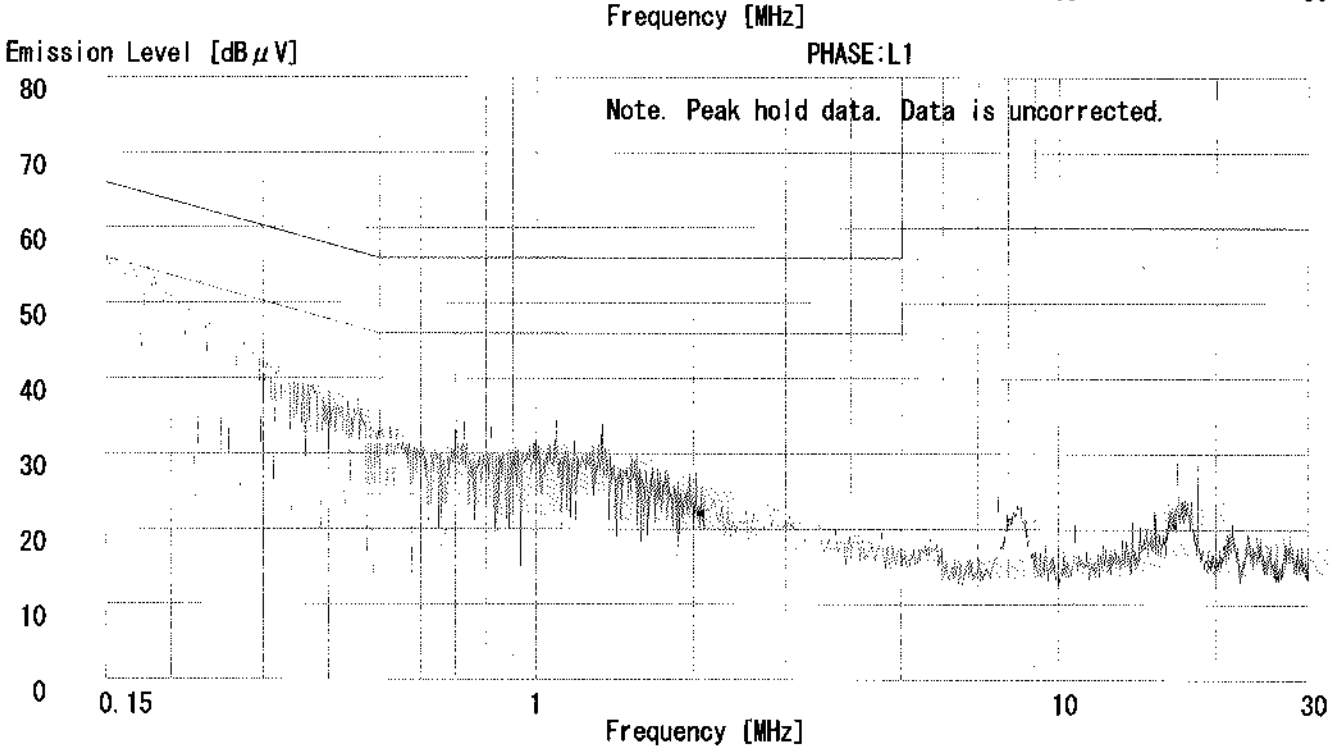


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No. : 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input1 + Rec		
Remarks	: 5Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input2 + Rec		
Remarks	: 1Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

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]		[dBμV]		[dB]
1.	0.1500	46.5	-	44.5	-	0.1	0.1	0.0	46.7	-	66.0	56.0	19.3	-
2.	0.8126	25.2	-	25.0	-	0.1	0.1	0.0	25.4	-	56.0	46.0	30.6	-
3.	1.0861	25.4	-	25.0	-	0.1	0.1	0.0	25.6	-	56.0	46.0	30.4	-
4.	7.6802	19.9	-	19.3	-	0.3	0.3	0.0	20.5	-	60.0	50.0	39.5	-
5.	16.8739	24.3	-	23.9	-	0.8	0.4	0.0	25.5	-	60.0	50.0	34.5	-
6.	27.0000	11.0	-	16.1	-	0.8	0.5	0.0	17.4	-	60.0	50.0	42.6	-

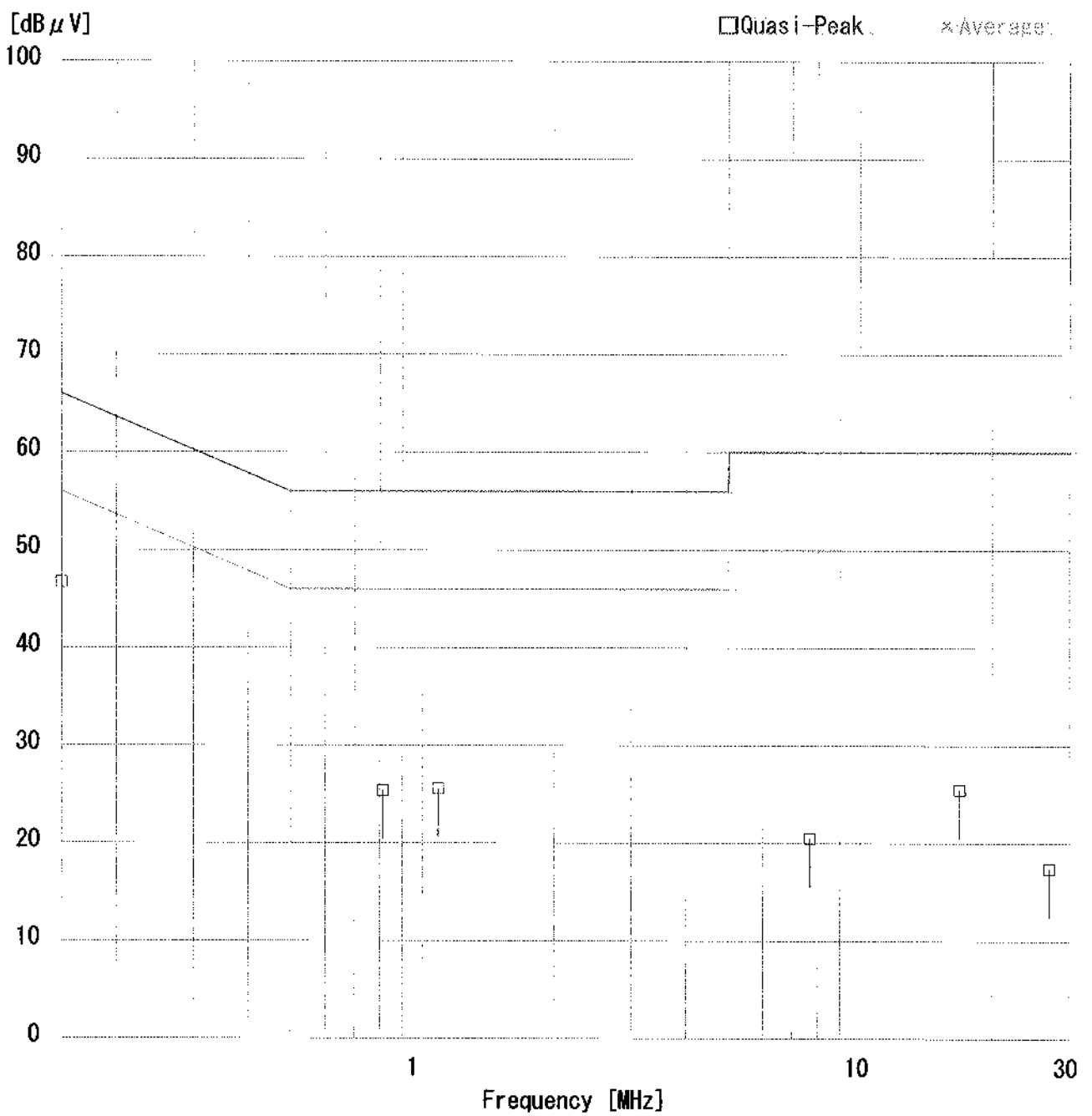
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

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

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

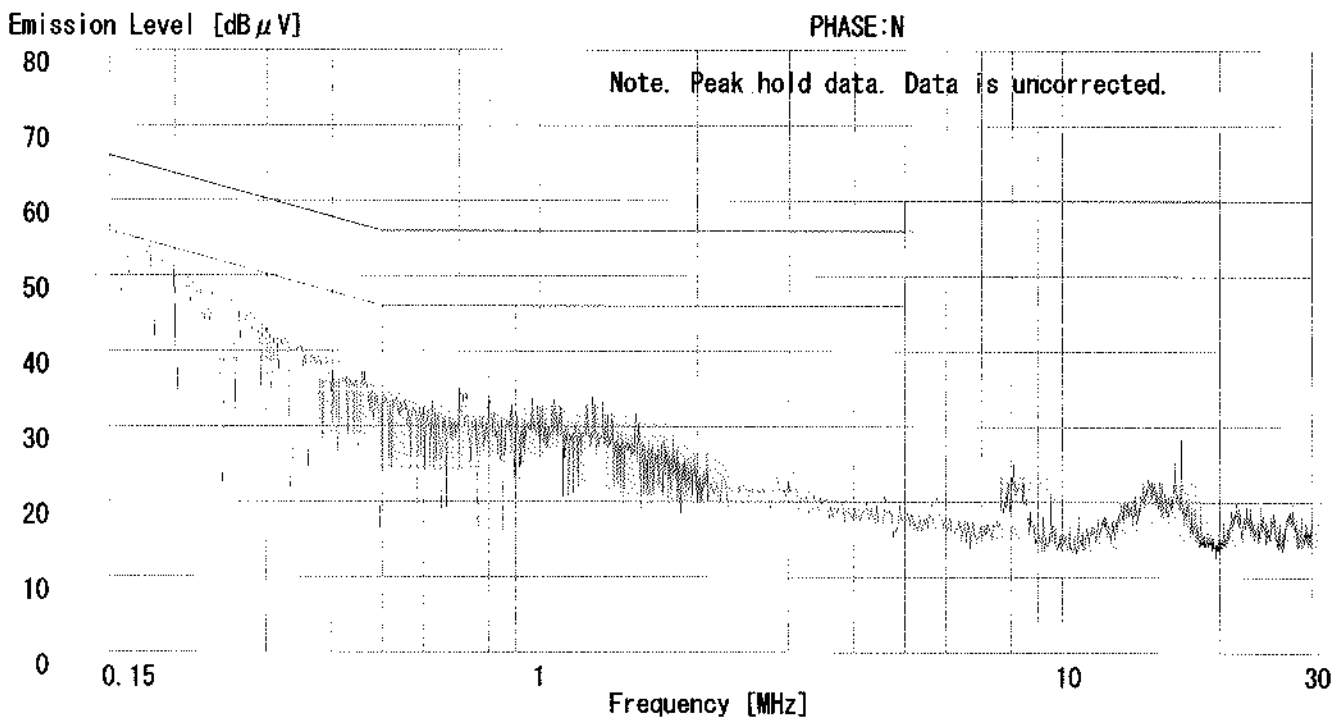
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input2 + Rec		
Remarks	: 1Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

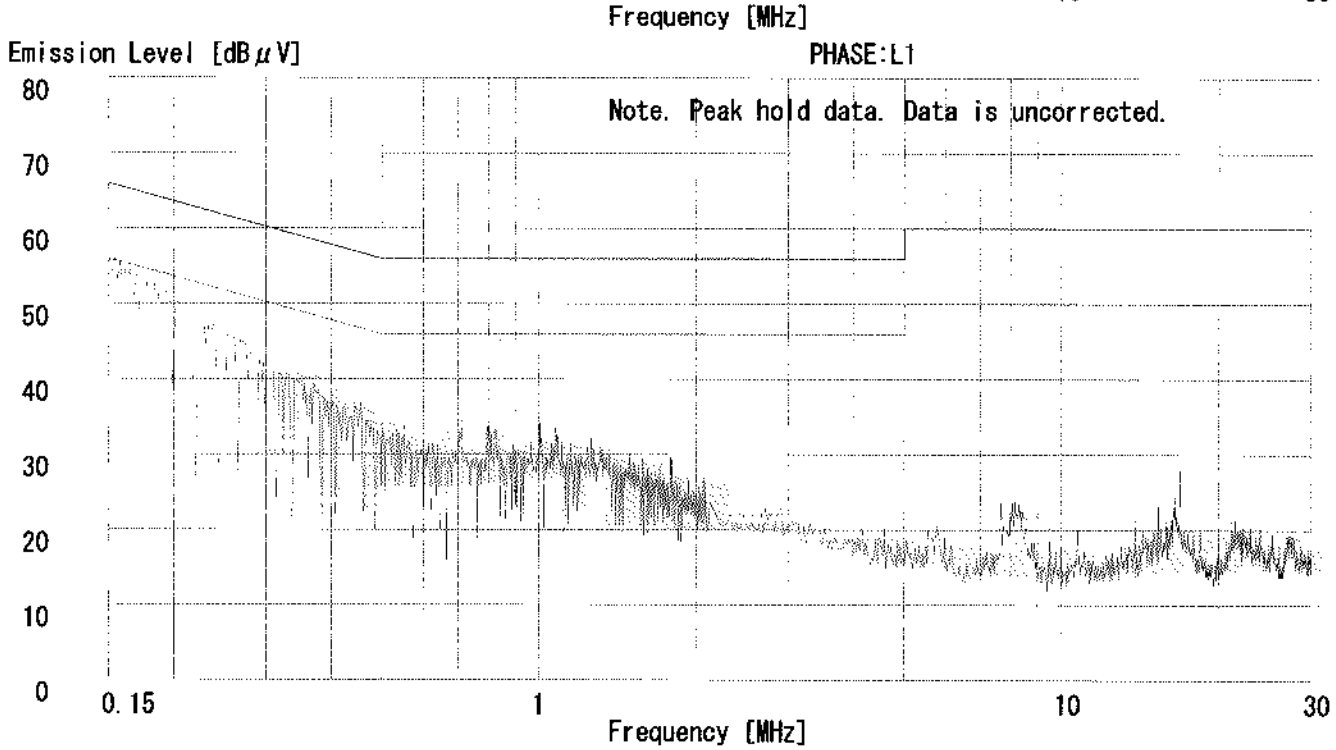


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input2 + Rec		
Remarks	: 1Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input2 + Rec		
Remarks	: 5Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

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]		[dBμV]	[dB]
1.	0.1500	45.6	-	45.5	-	0.1	0.1	0.0	45.8	-	66.0	56.0	20.2	-
2.	0.7158	25.4	-	26.0	-	0.1	0.1	0.0	26.2	-	56.0	46.0	29.8	-
3.	1.0458	25.0	-	24.6	-	0.1	0.1	0.0	25.2	-	56.0	46.0	30.8	-
4.	7.6795	21.3	-	19.5	-	0.3	0.3	0.0	21.9	-	60.0	50.0	38.1	-
5.	8.1800	12.5	-	12.6	-	0.3	0.3	0.0	13.2	-	60.0	50.0	46.8	-
6.	16.8950	22.6	-	22.0	-	0.8	0.4	0.0	23.8	-	60.0	50.0	36.2	-

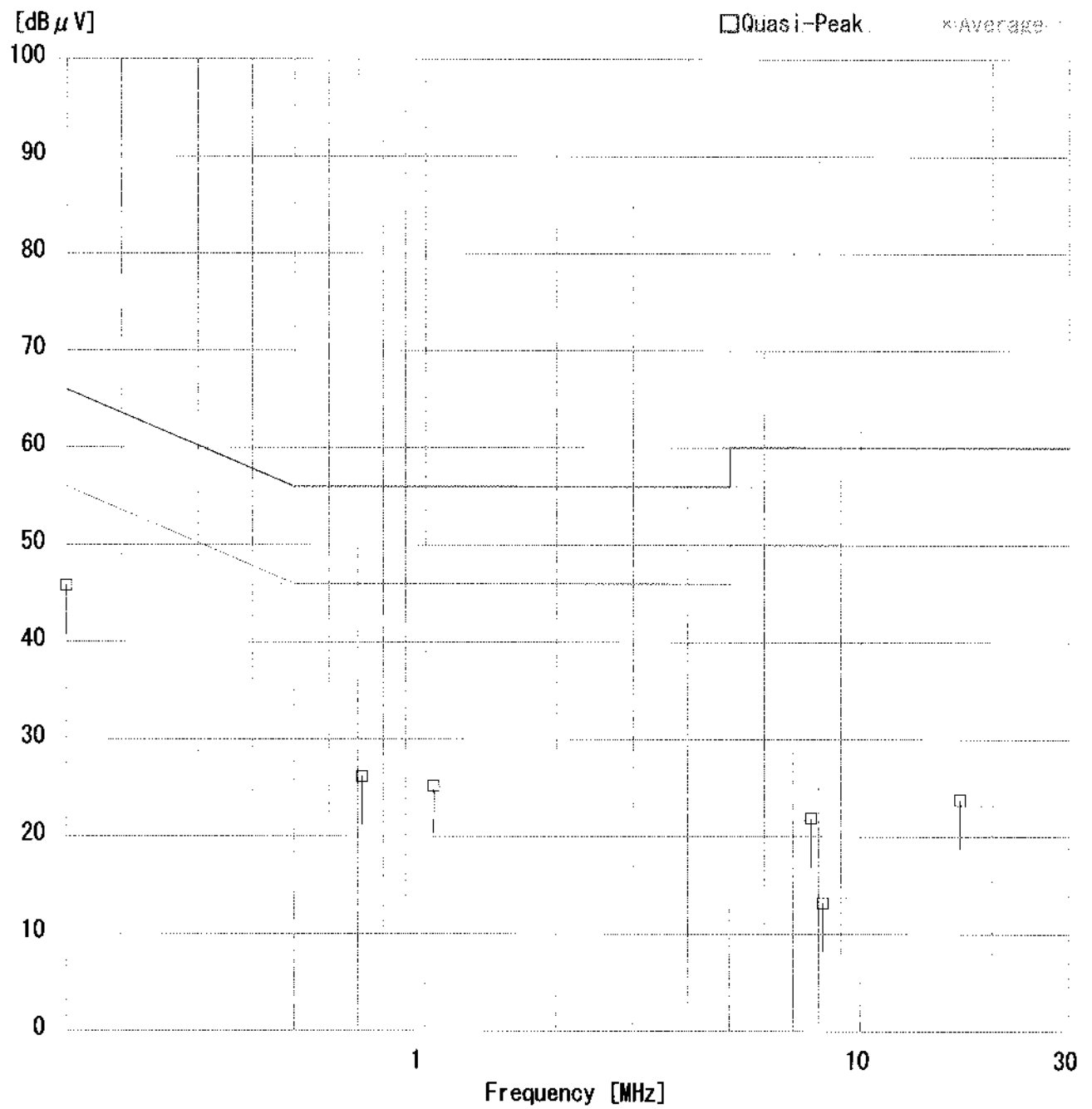
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

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

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

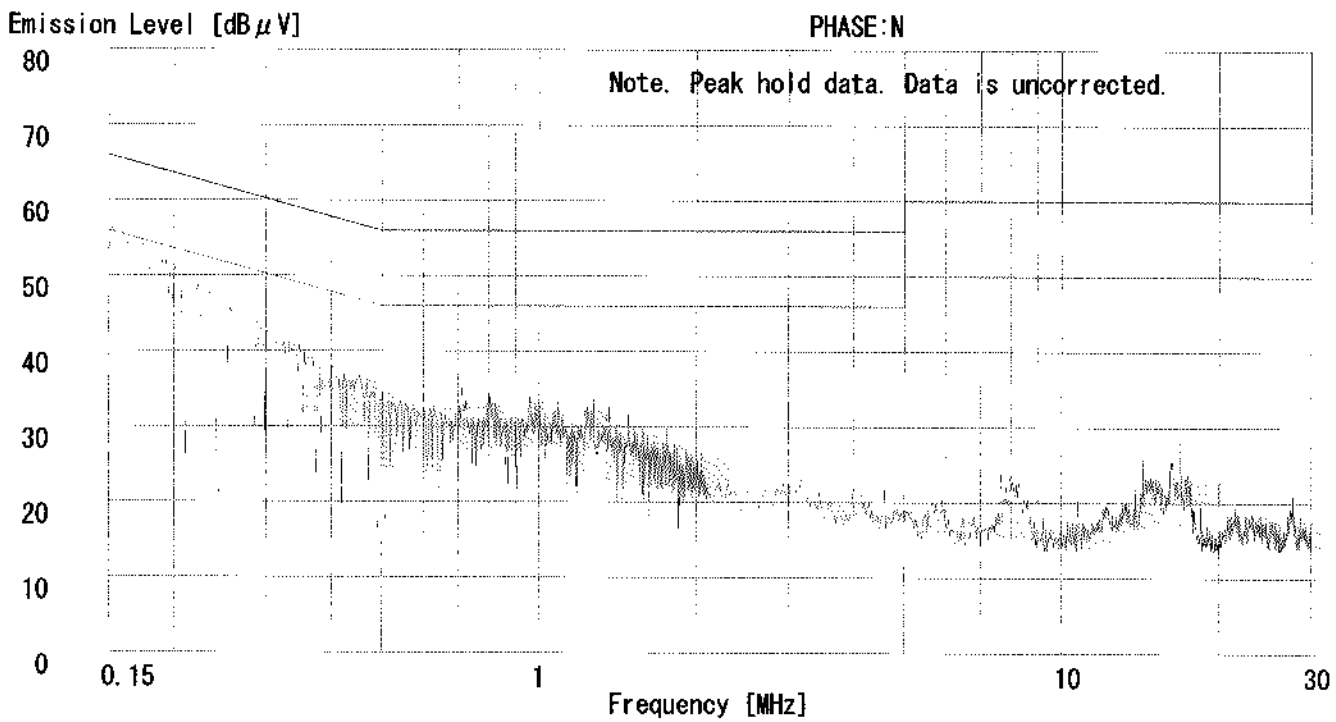
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input2 + Rec		
Remarks	: 5Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

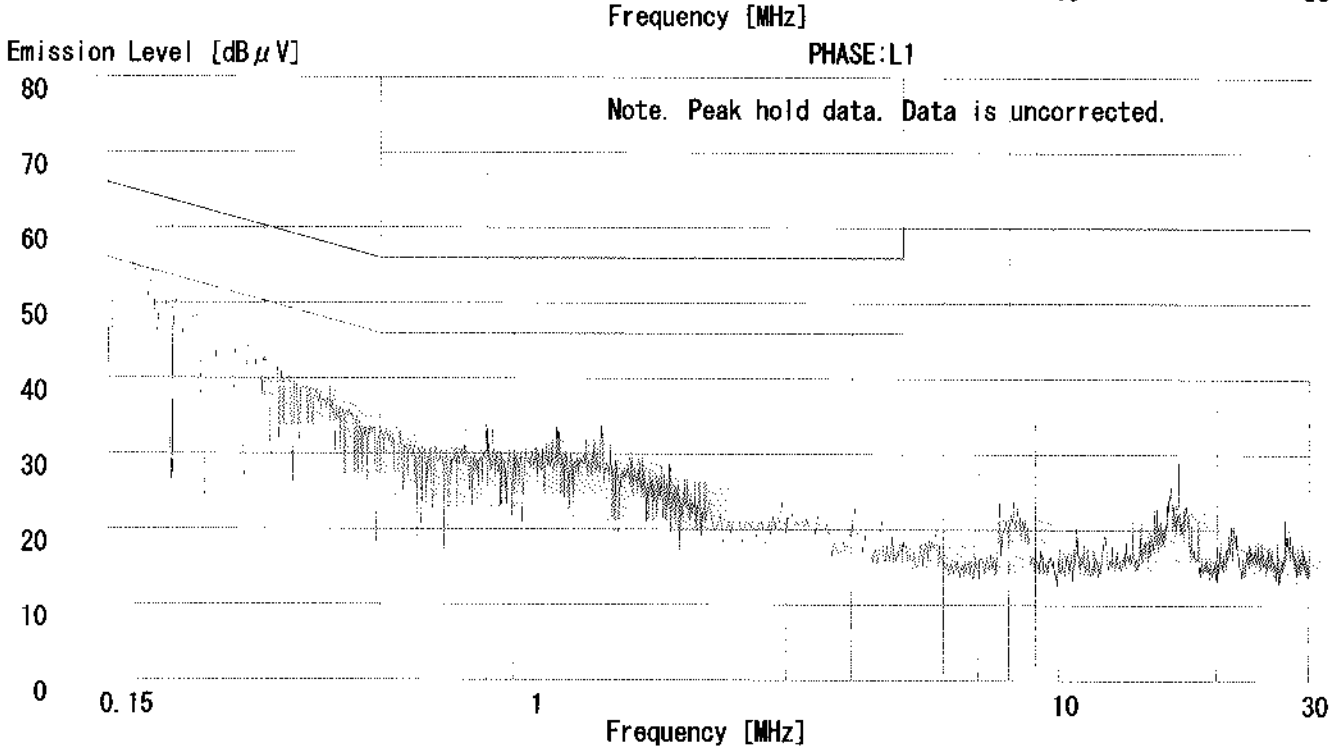


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: AV Input2 + Rec		
Remarks	: 5Vp-p		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: VCR Playback		
Remarks	:		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

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.	0.1500	46.3	-	46.0	-	0.1	0.1	0.0	46.5	-	66.0	56.0	19.5	-
2.	0.2000	40.2	-	39.7	-	0.1	0.1	0.0	40.4	-	63.6	53.6	23.2	-
3.	0.7437	23.3	-	22.5	-	0.1	0.1	0.0	23.5	-	56.0	46.0	32.5	-
4.	1.1298	22.1	-	22.3	-	0.1	0.1	0.0	22.5	-	56.0	46.0	33.5	-
5.	7.6784	12.5	-	13.7	-	0.3	0.3	0.0	14.3	-	60.0	50.0	45.7	-
6.	18.4321	24.6	-	25.8	-	0.9	0.4	0.0	27.1	-	60.0	50.0	32.9	-

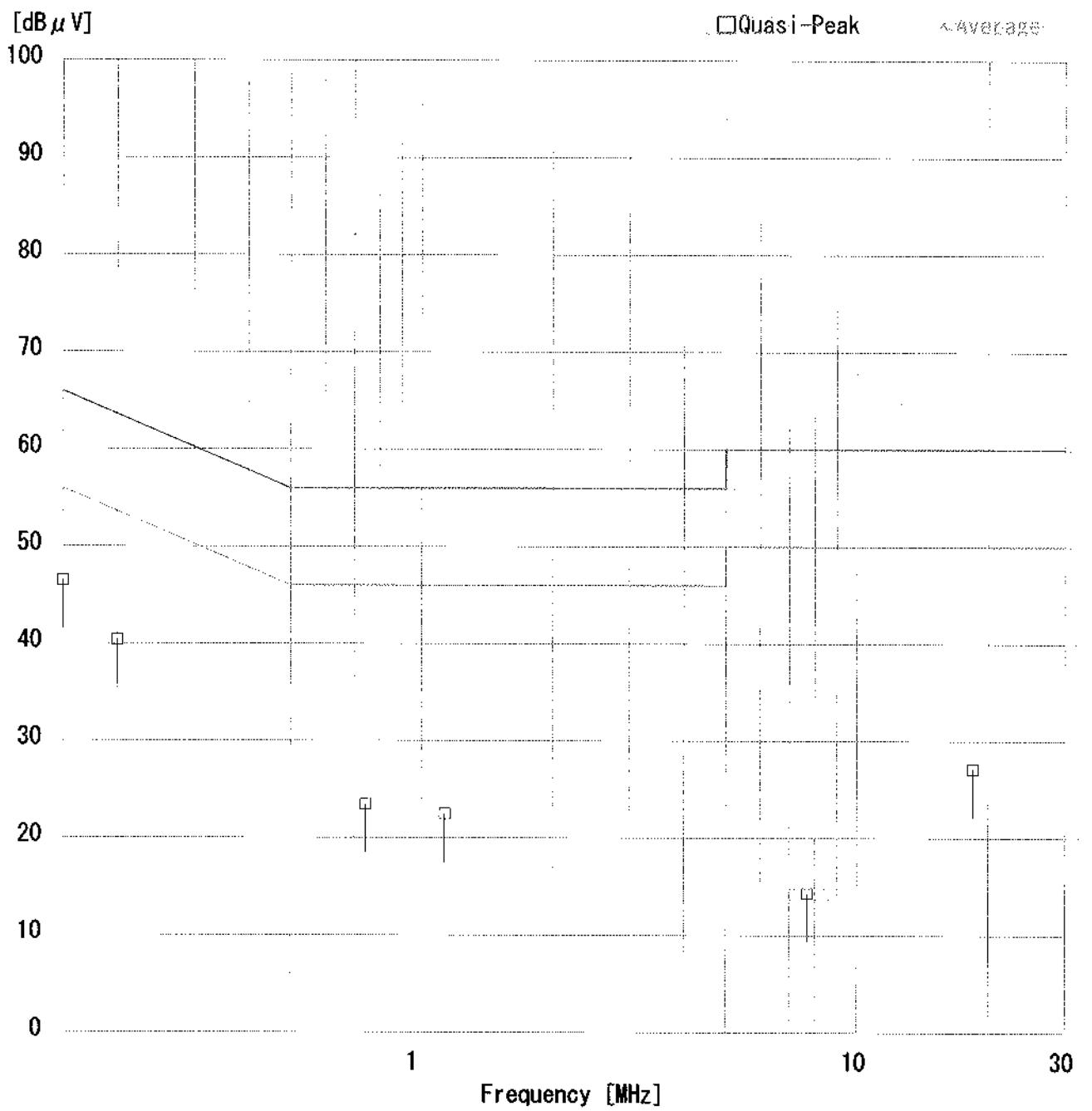
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

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

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No.: 24JE0051-YW-1

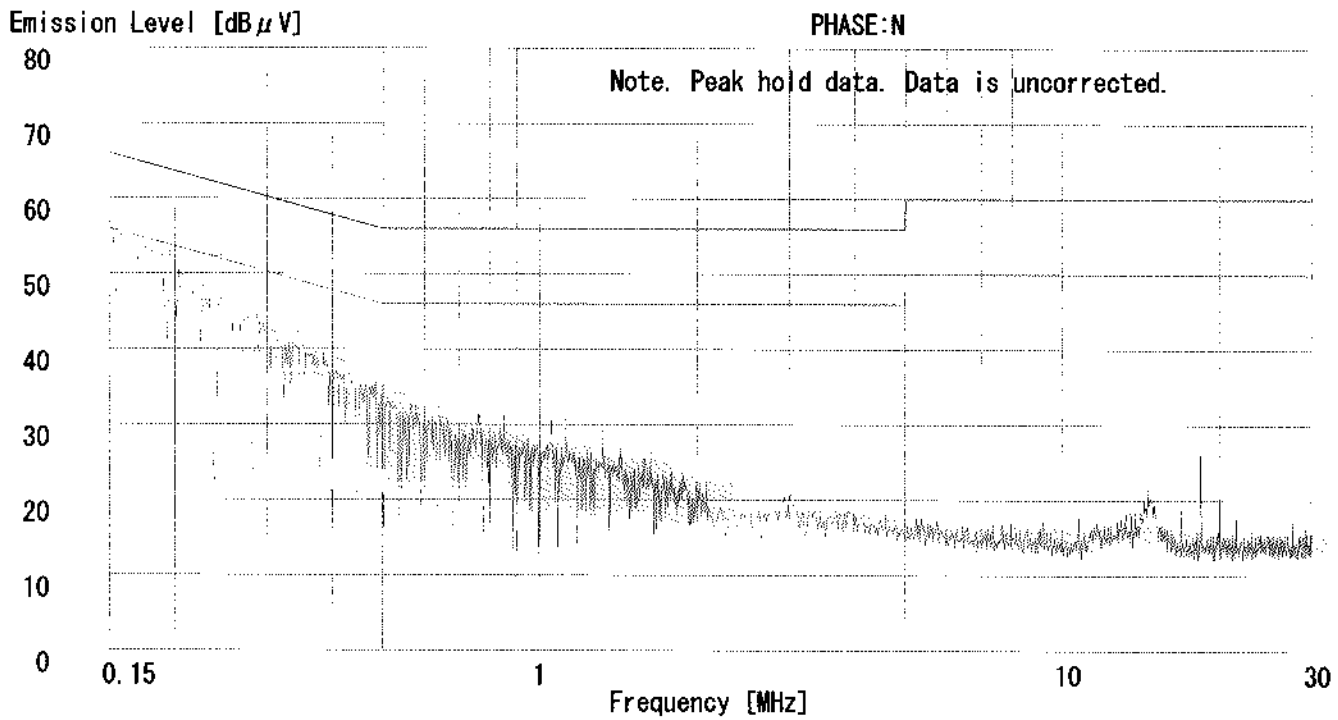
Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: VCR Playback		
Remarks	:		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

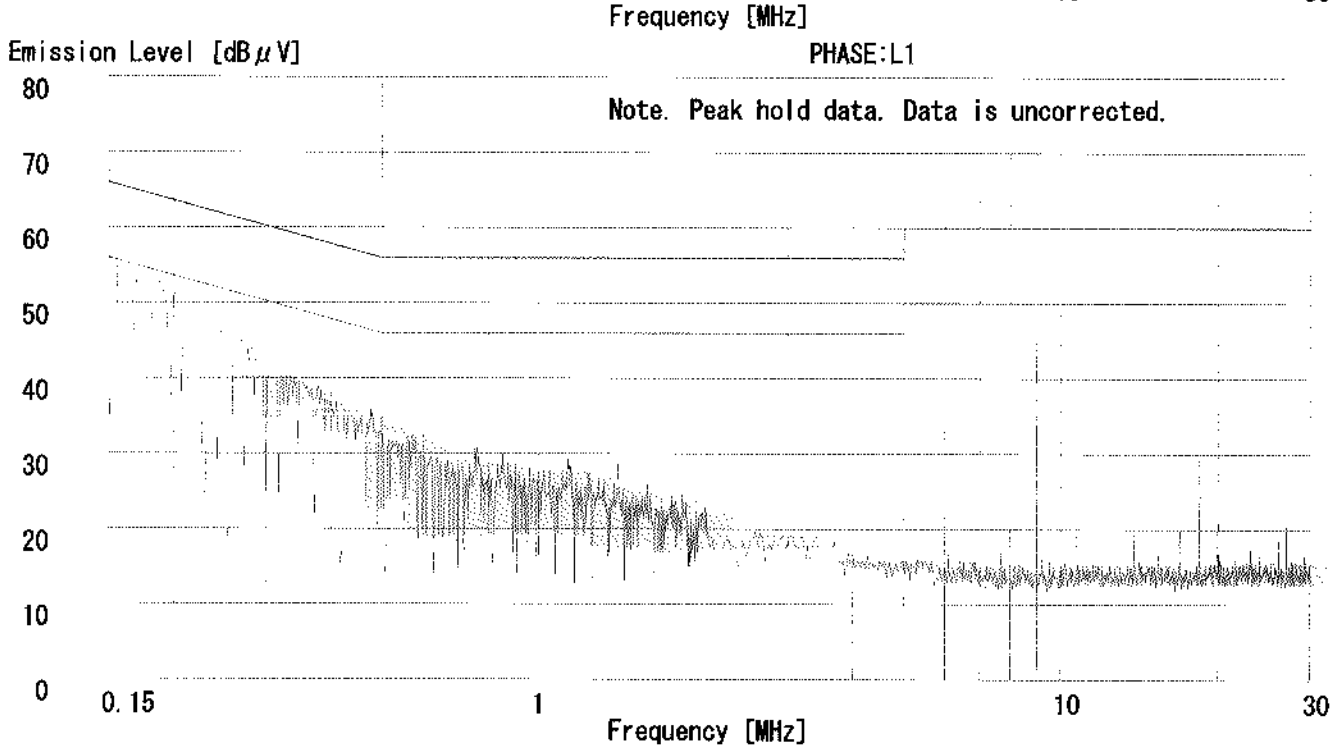


DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.3 SHIELD TEST ROOM
Report No. : 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: VCR Playback		
Remarks	:		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None		





DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: DVD Play		
Remarks	:		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		

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.	0.1500	46.3	-	46.4	-	0.1	0.1	0.0	46.6	-	66.0	56.0	19.4	-
2.	0.2000	40.4	-	40.4	-	0.1	0.1	0.0	40.6	-	63.6	53.6	23.0	-
3.	0.7100	24.0	-	23.2	-	0.1	0.1	0.0	24.2	-	56.0	46.0	31.8	-
4.	1.1950	22.3	-	22.0	-	0.1	0.1	0.0	22.5	-	56.0	46.0	33.5	-
5.	18.4300	27.0	-	29.7	-	0.9	0.4	0.0	31.0	-	60.0	50.0	29.0	-
6.	24.0000	16.0	-	17.3	-	0.9	0.5	0.0	18.7	-	60.0	50.0	41.3	-

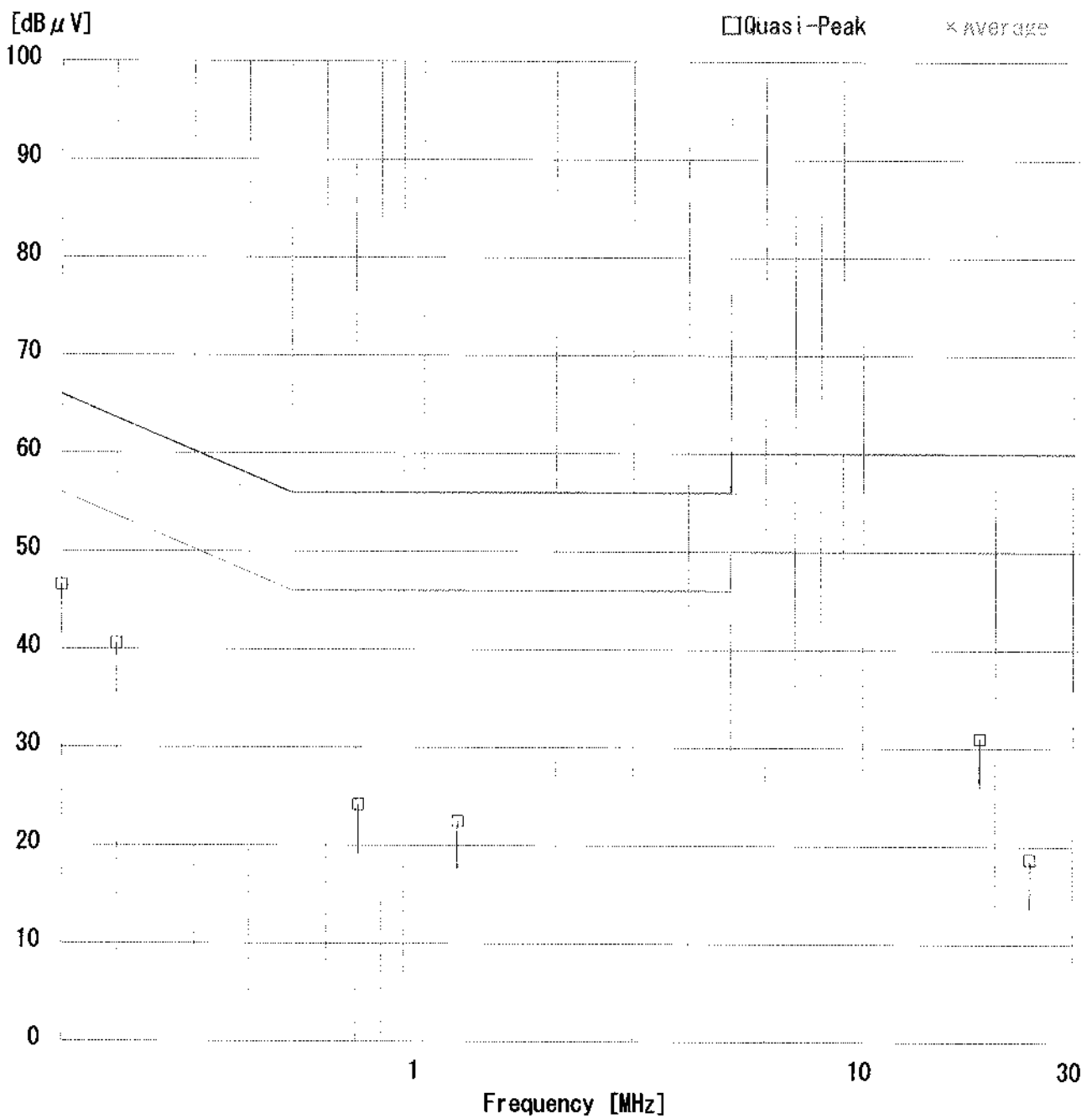
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

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

DATA OF CONDUCTION TEST

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: DVD Play		
Remarks	:		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation	: FCC Part15 CLASS B(02-157)		



DATA OF CONDUCTION TEST CHART

UL Apex Co., Ltd.
YOKOWA No.1 OPEN TEST SITE
Report No.: 24JE0051-YW-1

Applicant	: Orion Electric Co.,Ltd.		
Kind of Equipment	: DVD/VCR		
Model No.	: SD-V392SUA		
Serial No.	: -		
Power	: AC120V/60Hz		
Mode	: DVD Play		
Remarks	:		
Date	: 5/19/2004		
Phase	: Single Phase		
Temperature	: 24 ℃	Engineer	: Tsubasa Takayama
Humidity	: 68 %		
Regulation 1	: FCC Part15 CLASS B(02-157)		
Regulation 2	: None