



EMI TEST REPORT

Test Report No. : 26CE0198-YK-2

Applicant : Sony EMCS Corporation Saitama TEC
Type of Equipment : Home AV Wireless System Transmitter
Model No. : HWS-AV10T
Test standard : FCC Part15 Subpart B
Test Result : Complied

1. This test report shall not be reproduced except in full, 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.

Date of test: December 5, 2005 and January 6, 2006

Tested by:


Makoto Hosaka

Approved by:


Osamu Watatani
Site Manager of Yamakita EMC Lab.

UL Apex Co., Ltd.

YAMAKITA EMC LAB.

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011
Facsimile: +81 465 77 2112

MF060b(01.06.05)

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SECTION 1: Client information

Company Name : Sony EMCS Corporation Saitama TEC
Address : Shinagawa INTERCITY C Tower Shinagawa Tec.
2-15-3 Konan Minato-ku, Tokyo, 108-6201 JAPAN
Telephone Number : +81-3-5769-5640
Facsimile Number : +81-3-5769-5962
Contact Person : Kikuo Murata

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

2.1 Identification of E.U.T.

Type of Equipment : Home AV Wireless System Transmitter
Model No. : HWS-AV10T
Serial No. : 51 (Conducted emission), 18 (Radiated emission)
Rating : DC6V (AC120V/60Hz)
Country of Manufacture : China
Receipt Date of Sample : December 2 and 28, 2005
Condition of EUT : Engineering prototype
(Not for Sale: This sample is equivalent to mass-produced items.)

2.2 Product description

Model: HWS-AV10T (referred to as the EUT in this report) is a transmitter using 2408-2464 MHz and also a receiver using 433.92MHz of Home AV Wireless System HWS-AV10K.

<Transmitter>

Frequency of operation : 2408-2464 MHz
Type of modulation : PSK
Antenna type : Integral antenna
Antenna connector type : None
Antenna gain : 1.65 dBi
Mode of operation : Simplex

<Receiver>

Frequency of operation : 433.92 MHz
Local frequency : 431.7312 MHz
Intermediate frequency : 2.1888 MHz
Type of modulation : ASK
Antenna type : Integral antenna
Antenna connector type : None
Method of Frequency generation : Crystal

Emission designation : G1W
Operation temperature range : 0 ~ 40 deg. C.

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SECTION 3: Test specification, procedures & results

3.1 Test specification

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

3.2 Procedures & Results

Item	Test Procedure	Limits	Deviation	Worst margin	Result
Conducted emission	ANSI C63.4: 2003 7. AC powerline conducted emission measurements	CISPR Pub.22	N/A	4.9dB (2.5139MHz, L1, AV)	Complied
Radiated emission	ANSI C63.4: 2003 8. Radiated emission measurements	FCC15.109 (a)	N/A	9.8dB (50.10MHz, Vertical)	Complied
Antenna terminal voltage	ANSI C63.4: 2003 Annex G.5 Antenna-conducted power measurement for receivers	FCC15.111 (a)	N/A *1	N/A	N/A

*1) The test is not applicable since the EUT has no antenna ports.
Note: UL Apex's EMI Work Procedures No. QPM05

3.3 Additions to standards

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

3.4 Confirmation

UL Apex Co., Ltd. hereby confirms the E.U.T., in the configuration tested, complies with the specifications FCC Part 15 Subpart B.

3.5 Uncertainty

Conducted emission

The measurement uncertainty (with 95% confidence level) for this test is ± 2.7 dB.

The data listed in this test report has enough margin, more than site margin.

Radiated emission

The measurement uncertainty (with 95% confidence level) for this test using Biconical antenna is ± 4.5 dB.

The measurement uncertainty (with 95% confidence level) for this test using Logperiodic antenna is ± 4.3 dB.

The measurement uncertainty (with 95% confidence level) for this test using Horn antenna is ± 5.2 dB.

The data listed in this test report has enough margin, more than site margin.

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3.6 Test Location

UL Apex Co., Ltd. Yamakita EMC Lab.

907, Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken 258-0124 JAPAN

Telephone number: +81 465 77 1011 Facsimile number: +81 465 77 2112

NVLAP Lab. code: 200441-0

No. 1 test site has been fully described in a report submitted to FCC office, and accepted on August 26, 2005 (Registration No.: 95486).

IC Registration No. : IC3489A

No. 2 test site has been fully described in a report submitted to FCC office, and accepted on April 4, 2005 (Registration No.: 466226).

IC Registration No. : IC3489A-2

No. 1 anechoic chamber has been fully described in a report submitted to FCC office, and accepted on November 2, 2005 (Registration No.: 95967).

IC Registration No. : IC3489A-B

Test room	Width x Depth x Height (m)	Test room	Width x Depth x Height (m)
No.1 shielded room	8.0 x 5.0 x 2.5	No.1 EMS lab. (Semi-anechoic chamber)	10.0 x 7.5 x 5.7
No.2 shielded room	5.0 x 4.0 x 2.5		
No.3 shielded room	4.0 x 5.0 x 2.7		

3.7 Test Setup, Data of EMI & Test instruments

Refer to Appendix 1 to 3.

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SECTION 4: Operation of E.U.T. during testing

4.1 Operating mode

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

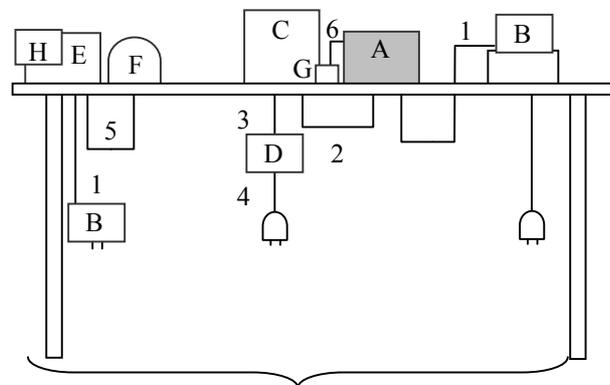
Operation: Receiving mode (433.92MHz)

When remote control signal from HWS-AV10R, the data is transferred to infrared signal.

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

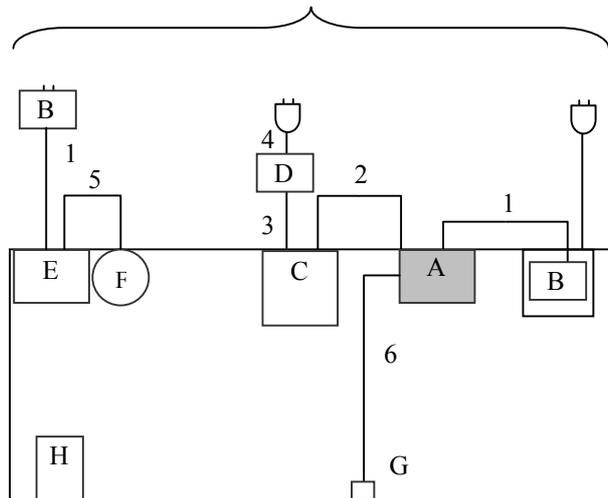
4.2 Configuration of Tested System

Front view



AC120V/60Hz

Top view



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

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Description of EUT and support equipment

No.	Item	Model number	Serial number	Manufacturer	FCC ID (Remarks)
A	Home AV Wireless System Transmitter	HWS-AV10T	18 (RE) 51 (CE)	SONY	AK8HWSAV10T (EUT)
B	AC Adaptor	AC-ES608K3	-	SONY	(*2)
C	Portable DVD Player	DVP-FX1	-	SONY	-
D	AC Adaptor	AC-FX1	-	SONY	-
E	Home AV Wireless System Receiver	HWS-AV10R	33 (RE) 51 (CE)	SONY	AK8HWSAV10R
F	Antenna	-	-	SONY	-
G	Remote Control Extender	-	-	SONY	-
H	Remote Controller	RMT-D114J	-	SONY	-

List of cables used

No.	Name	Length (m)	Shield	Remark
1	DC cable	2.2	Unshielded	*2
2	Audio cable	1.1	Unshielded	-
3	DC cable	1.8	Unshielded	-
4	AC cable	1.8	Unshielded	-
5	Antenna cable	1.05	Unshielded	-
6	Remote Control Extender cable	1.4	Unshielded	-

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SECTION 5: Conducted emission

5.1 Operating environment

The test was carried out in No.2 shielded room.

Temperature : See test data
Humidity : See test data

5.2 Test configuration

EUT was placed on a platform of nominal size, 1m by 1.8m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals was aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from LISN and excess AC cable was bundled in center. I/O cables were bundled in center. They were folded back and forth the forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane.

Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN to the input power source. All unused 50Ω connectors of the LISN were resistively terminated in 50Ω when not connected to the measuring equipment.

A drawing of the set up is shown in the photos of Appendix 1.

5.3 Test conditions

Frequency range : 0.15 - 30MHz
EUT position : Table top
EUT operation mode : Receiving

5.4 Test procedure

The AC Mains Terminal Continuous disturbance Voltage had been measured with the EUT within a screened room. The EUT was connected to a Line Impedance Stabilization Network (LISN).

An overview sweep with peak detection has been performed.

The measurements had been performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver.

Detector Type : Quasi-Peak/ Average
IF Bandwidth : 9kHz

5.5 Results

Summary of the test results : Pass

Date : January 6, 2006 Test engineer : Makoto Hosaka

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SECTION 6: Radiated emission

6.1 Operating environment

The test was carried out in No.1 anechoic chamber.

Temperature : See test data
Humidity : See test data

6.2 Test configuration

EUT was placed on a platform of nominal size, 0.5m by 1.0m, raised 80cm above the conducting ground plane. The rear of EUT, including peripherals was aligned and flushed with rear of tabletop. 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 the photos of Appendix 1.

6.3 Test conditions

Frequency range : 30 - 2000MHz
Test distance : 3m
EUT position : Table top
EUT operation mode : Receiving

6.4 Test procedure

The Radiated Electric Field Strength intensity has been measured on an anechoic chamber with a ground plane and at a distance of 3m. Measurements were performed with quasi-peak, peak and average detector. The measuring antenna height was varied between 1 and 4m 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.

Frequency	:	30-1000MHz	1000-2000MHz
Detector Type	:	Quasi-Peak	Average Peak
IF Bandwidth	:	120kHz	RBW:1MHz/VBW:10Hz RBW:1MHz/VBW:1MHz

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

6.5 Results

Summary of the test results : Pass

Date : December 5, 2005 Test engineer : Makoto Hosaka

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APPENDIX 1: Photographs of test setup

Page 11 : Conducted emission

Page 12 : Radiated emission

APPENDIX 2: Data of EMI test

Page 13 - 15 : Conducted emission

Page 16 - 19 : Radiated emission

APPENDIX 3: Test instruments

Page 20 : Test instruments

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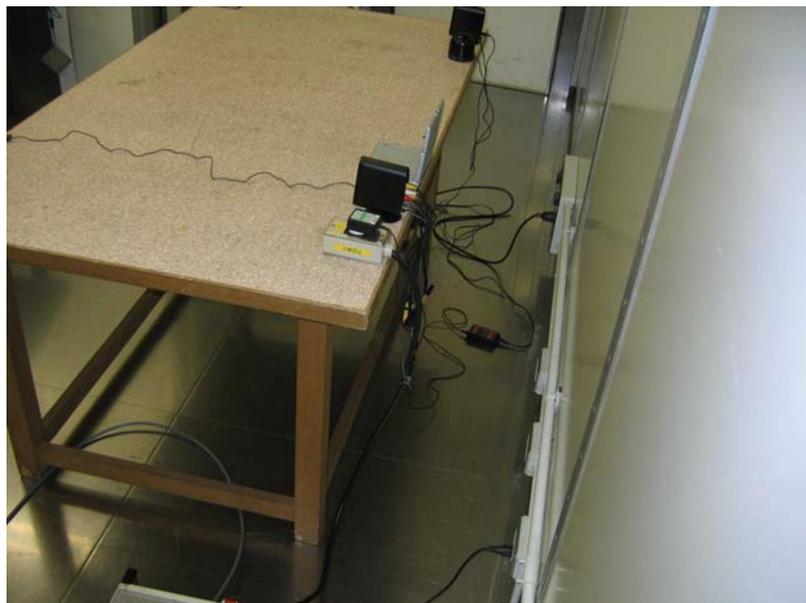
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Conducted emission



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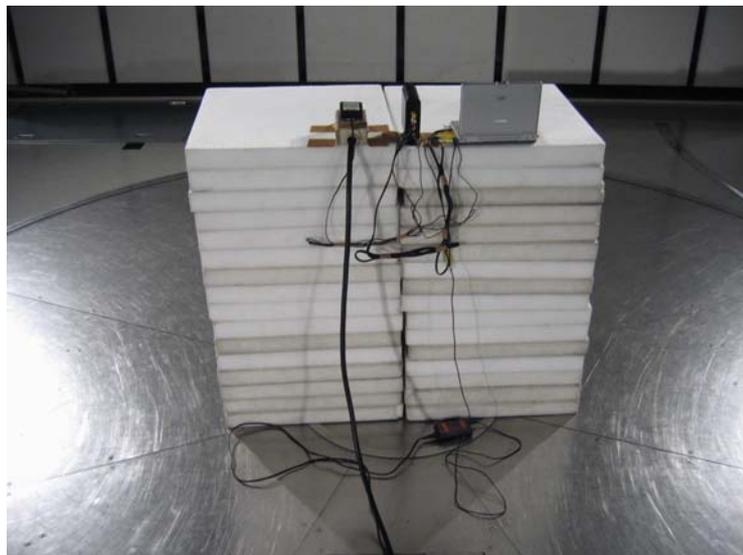
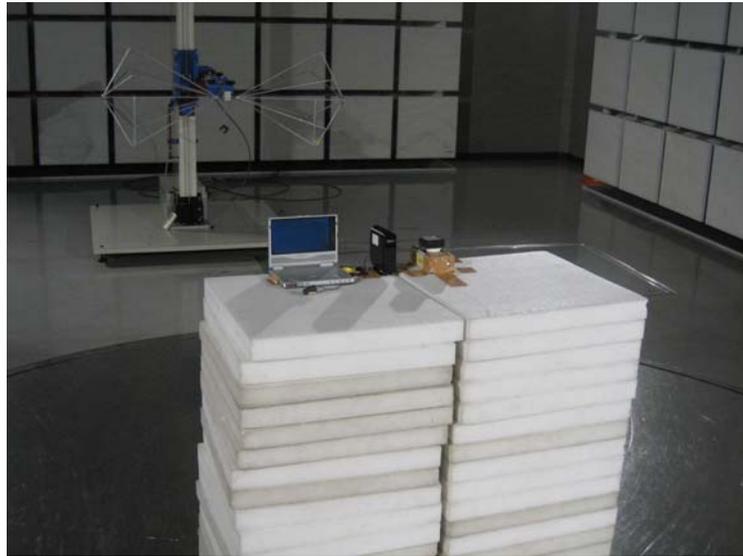
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Radiated emission



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DATA OF CONDUCTION TEST

UL Apex Co.,Ltd.
YAMAKITA No.2 SHIELD ROOM
Report No. : 26CE0198-YK - 2

Applicant : Sony EMCS Corporation Saitama TEC
 Kind of Equipment : Home AV Wireless System Transmitter
 Model No. : HWS-AV10T
 Serial No. : 51
 Power : AC120V/60Hz (DC6V)
 Mode : Receiving (433.92MHz)
 Remarks :
 Date : 1/6/2006
 Phase : Single Phase
 Temperature : 20 °C
 Humidity : 27 %
 Regulation : FCC Part15B CLASS B (CISPR Pub. 22)

Engineer : Makoto Hosaka

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μV]	AV	QP [dB μV]	AV				QP [dB]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB]	AV [dB]
1.	0.2031	46.2	-	46.0	-	0.1	0.1	0.0	46.4	-	63.5	53.5	17.1	-
2.	0.5236	39.1	-	39.4	-	0.1	0.1	0.0	39.6	-	56.0	46.0	16.4	-
3.	0.8374	39.6	37.1	39.8	37.3	0.1	0.1	0.0	40.0	37.5	56.0	46.0	16.0	8.5
4.	1.1522	40.1	37.1	40.4	37.3	0.1	0.1	0.0	40.6	37.5	56.0	46.0	15.4	8.5
5.	1.8853	41.0	38.2	41.0	38.3	0.1	0.2	0.0	41.3	38.6	56.0	46.0	14.7	7.4
6.	2.5139	42.8	40.5	43.0	40.7	0.2	0.2	0.0	43.4	41.1	56.0	46.0	12.6	4.9
7.	2.8295	41.0	38.7	41.3	39.1	0.2	0.2	0.0	41.7	39.5	56.0	46.0	14.3	6.5
8.	3.2463	42.5	36.0	41.9	35.7	0.2	0.2	0.0	42.9	36.4	56.0	46.0	13.1	9.6

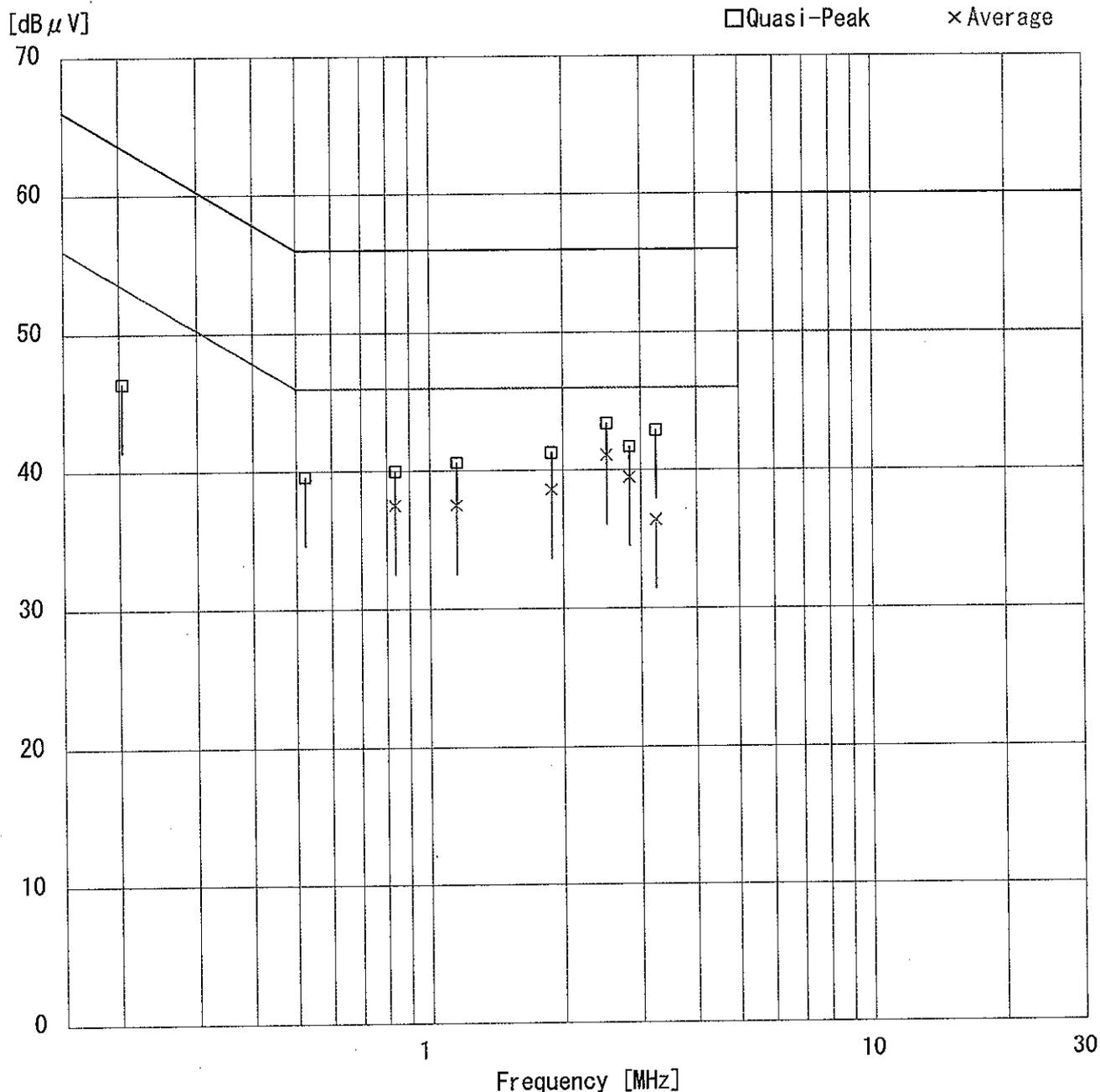
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

■ LISN: KLS-05 (NSLK8126) ■ COAXIAL CABLE: KCC-33/34
 ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF CONDUCTION TEST

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YAMAKITA No.2 SHIELD ROOM
Report No. : 26CE0198-YK = 2

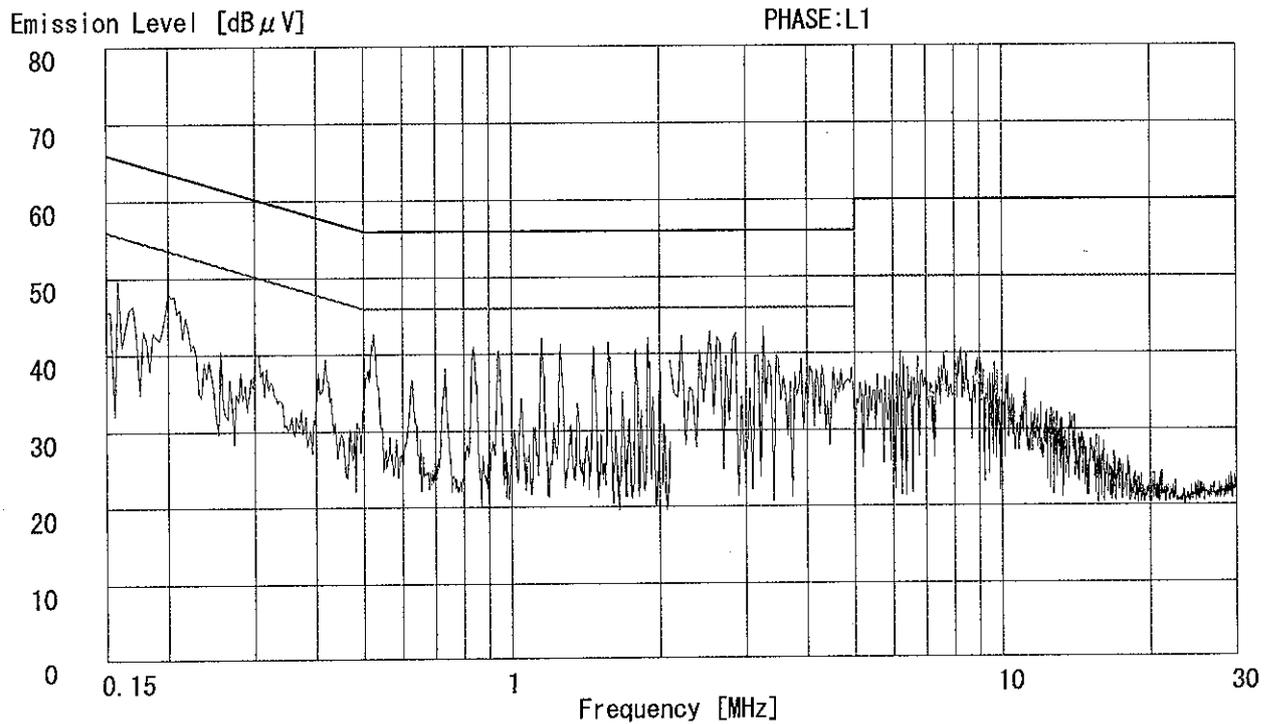
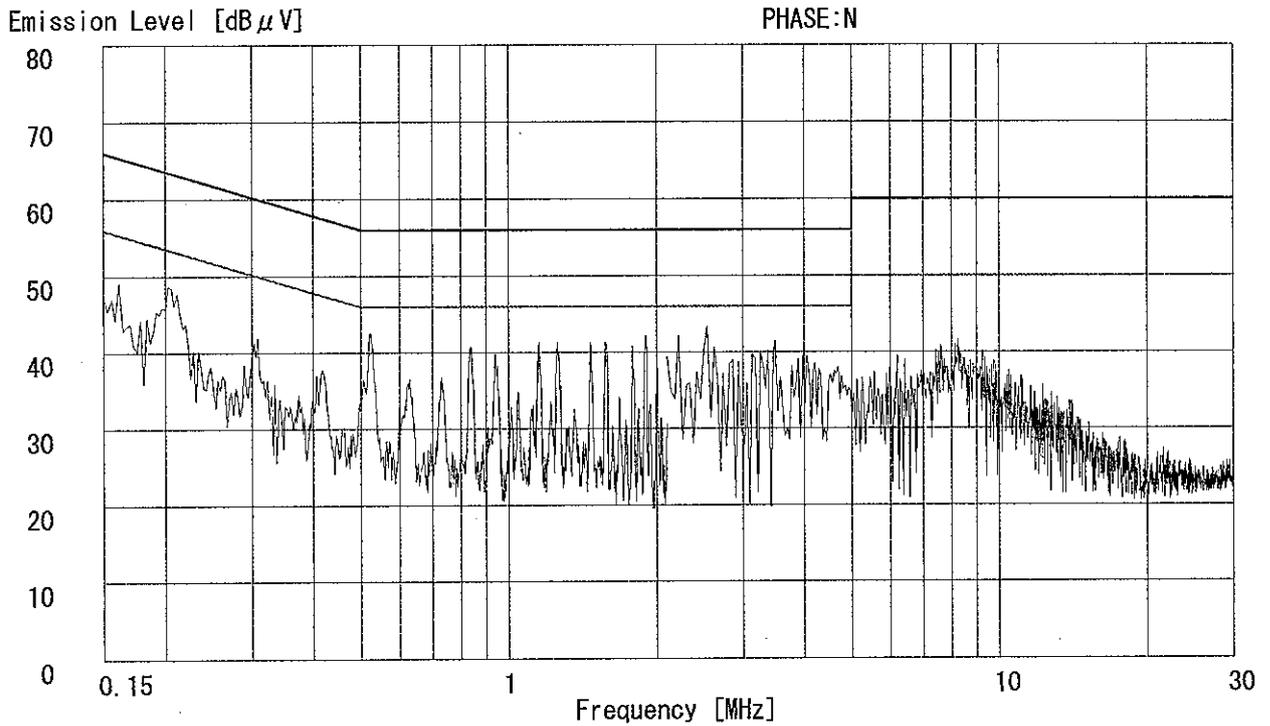
Applicant	: Sony EMCS Corporation Saitama TEC	
Kind of Equipment	: Home AV Wireless System Transmitter	
Model No.	: HWS-AV10T	
Serial No.	: 51	
Power	: AC120V/60Hz (DC6V)	
Mode	: Receiving (433.92MHz)	
Remarks	:	
Date	: 1/6/2006	
Phase	: Single Phase	
Temperature	: 20 °C	Engineer : Makoto Hosaka
Humidity	: 27 %	
Regulation	: FCC Part15B CLASS B (CISPR Pub. 22)	



DATA OF CONDUCTION TEST CHART

UL Apex Co.,Ltd.
YAMAKITA No.2 SHIELD ROOM
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Kind of Equipment : Home AV Wireless System Transmitter
Model No. : HWS-AV10T
Serial No. : 51
Power : AC120V/60Hz (DC6V)
Mode : Receiving(433.92MHz)
Remarks :
Date : 1/6/2006
Phase : Single Phase
Temperature : 20 °C
Humidity : 27 %
Regulation 1 : FCC Part15B CLASS B(GISPR Pub. 22)
Regulation 2 : None
Engineer : Makoto Hosaka



DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 26CE0198-YK \approx 2

Applicant : Sony EMCS Corporation Saitama TEC
 Kind of Equipment : Home AV Wireless System Transmitter
 Model No. : HWS-AV10T
 Serial No. : 18
 Power : AC120V/60Hz (DC6V)
 Mode : Receiving(433.92MHz)
 Remarks :
 Date : 12/5/2005
 Test Distance : 3 m
 Temperature : 18 °C
 Humidity : 38 %
 Regulation : FCC Part15B § 15.109(a)

Engineer : Makoto Hosaka

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	50.10	BB	25.3	39.5	11.0	27.7	1.4	6.0	16.0	30.2	40.0	24.0	9.8
2.	78.47	BB	39.7	38.9	6.2	27.5	1.8	6.0	26.2	25.4	40.0	13.8	14.6
3.	87.42	BB	26.7	37.5	7.3	27.5	1.9	6.0	14.4	25.2	40.0	25.6	14.8
4.	130.44	BB	28.5	34.0	14.1	27.3	2.4	6.0	23.7	29.2	43.5	19.8	14.3
5.	431.73	BB	22.4	22.4	17.5	27.6	4.6	6.0	22.9	22.9	46.0	23.1	23.1
6.	863.46	BB	22.8	22.8	22.6	27.6	6.5	6.0	30.3	30.3	46.0	15.7	15.7

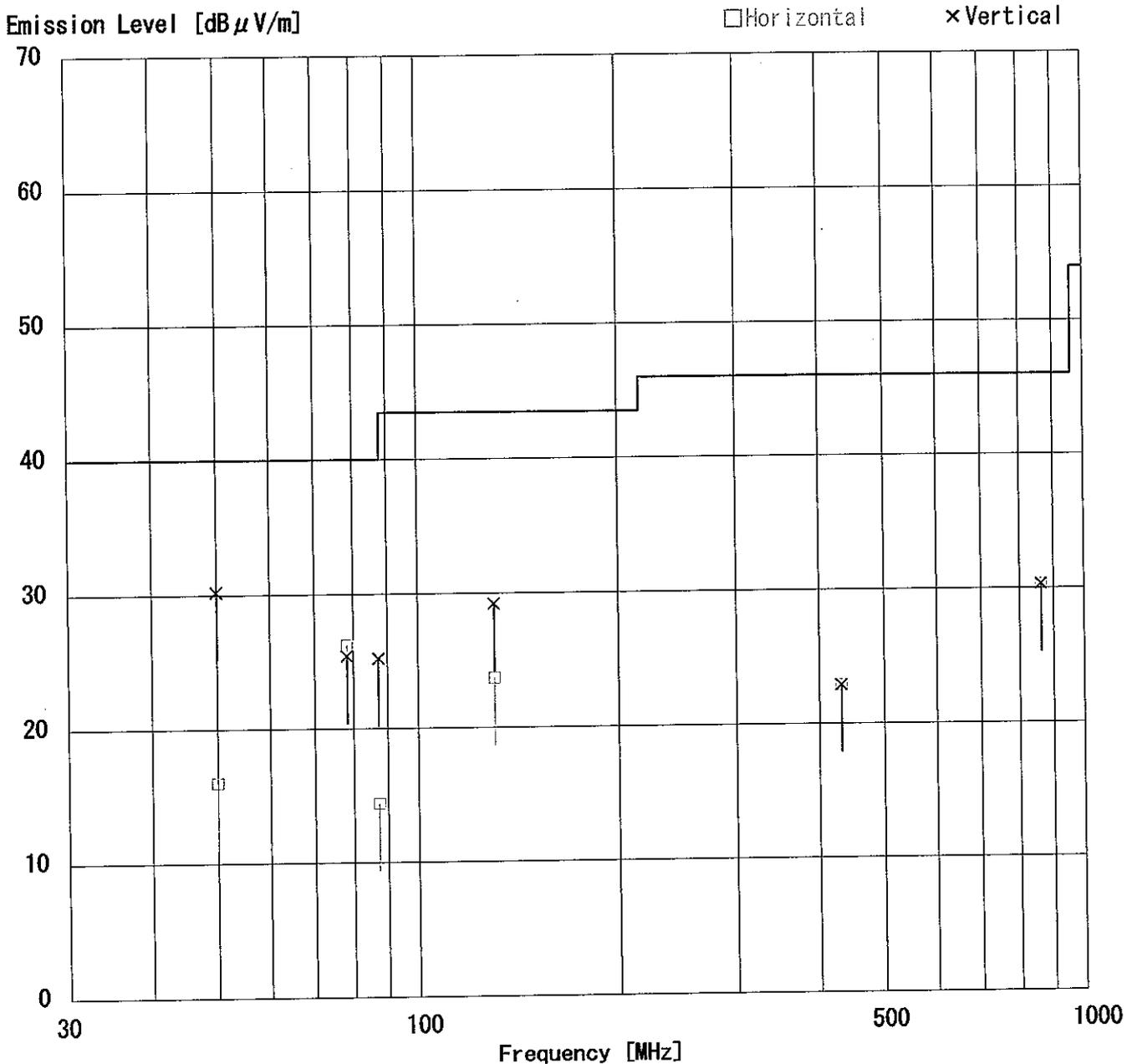
CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299MHz/KLA-03 (USLP9143) 300-1000MHz
 ■ AMP: KAF-05 (8447D) ■ RECEIVER: KTR-01 (ESI40) ■ KCC-30_31_32_34 (RE)

DATA OF RADIATION TEST

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Mode : Receiving(433.92MHz)
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Date : 12/5/2005
Test Distance : 3 m
Temperature : 18 °C
Humidity : 38 %
Regulation : FCC Part15B § 15.109(a)
Engineer : Makoto Hosaka



Page:

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 Kind of Equipment : Home AV Wireless System Transmitter
 Model No. : HWS-AV10T
 Serial No. : 18
 Power : AC120V/60Hz (DC6V)
 Mode : Receiving(433.92MHz)
 Remarks : PK RBW:1MHz, VBW:1MHz
 Date : 12/5/2005
 Test Distance : 3 m
 Temperature : 18 °C
 Humidity : 38 %
 Regulation : FCC Part15B CLASS B (PK)

Engineer : Makoto Hosaka

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1295.19	BB	43.3	43.4	22.8	35.7	3.0	10.0	43.4	43.5	74.0	30.6	30.5

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

■ ANTENNA: KHA-02 (1-18GHz) / KHA-04 (18-26GHz)
 ■ AMP: KAF-04 (8449B) ■ SPECTRUM ANALYZER: KTR-01 ■ CABLE: KCC-D3/D7

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 Model No. : HWS-AV10T
 Serial No. : 18
 Power : AC120V/60Hz (DC6V)
 Mode : Receiving (433.92MHz)
 Remarks : AV RBW:1MHz, VBW:10Hz
 Date : 12/5/2005
 Test Distance : 3 m
 Temperature : 18 °C
 Humidity : 38 %
 Regulation : FCC Part15B § 15.109(a)

Engineer : Makoto Hosaka

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	1295.19	BB	31.9	31.9	22.8	35.7	3.0	10.0	32.0	32.0	54.0	22.0	22.0	

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

■ ANTENNA: KHA-02 (1-18GHz) / KHA-04 (18-26GHz)
 ■ AMP: KAF-04 (8449B) ■ SPECTRUM ANALYZER: KTR-01 ■ CABLE: KCC-D3/D7

Test Report No :26CE0198-YK-2

APPENDIX 3 Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date / Interval (month)
KAEC-01(NSA)	Anechoic Chamber	JSE	Semi 3m	RE	2005/09/03 * 12
KAF-04	Pre Amplifier	Agilent	8449B	RE	2005/04/28 * 12
KAF-05	Pre Amplifier	Agilent	8447D	RE	2005/05/11 * 12
KAT6-01	Attenuator	INMET	18N-6dB	RE	2005/04/07 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/01/29 * 12
KCC-30/31/32 /34	Coaxial Cable	Fujikura/Suhner	5D-2W/S04272B	RE	2005/12/22 * 12
KCC-33/34	Coaxial Cable	Fujikura/Suhner	5D-2W/S04272B	CE	2005/12/22 * 12
KCC-D3/D7	Coaxial Cable	Rosenberger/Advantest	2201/JUN-08-01-06 1	RE	2005/04/12 * 12
KHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2005/10/15 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2005/01/29 * 12
KLS-05	LISN(AMN)	Schwarzbeck	NSLK8126	CE (EUT)	2005/09/06 * 12
KSA-04	Spectrum Analyzer	Advantest	R3271A	CE/RE	2005/09/13 * 12
KTR-01	Test Receiver	Rohde & Schwarz	ESI40	CE/RE	2005/08/05 * 12
KLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2005/09/06 * 12
KTM-06	Terminator	TME	CT-01BP	CE	2005/04/07 * 12
KAT10-S1	Attenuator	Agilent	8449D 010	RE	2005/04/12 * 12

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item:

CE: Conducted emission,

RE: Radiated emission