EMI TEST REPORT

Test Report No. : 24BE0112-YK-1

Applicant:	**Sony Corporation**
Type of Equipment:	**Wireless Camera Transmitter**
Model No.:	**WLL-CA55**
FCC ID:	**AK8WLLCA55**
Test standard:	**FCC Part15 Subpart C, Section 15.247**
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.

Date of test: October 6, 7, 8 and 9, 2003

Tested by: I. Isozaki
Ichiro Isozaki

Approved by: O. Watatani
Osamu Watatani
Site Manager of Yamakita EMC Lab.

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1 GENERAL INFORMATION

Applicant

Company Name	: Sony Corporation
Brand Name	: SONY
Address	: 6-7-35 Kitashinagawa, Shinagawa-ku, Tokyo 141-0001, JAPAN
Telephone Number	: +81 3 5795 5506
Facsimile Number	: +81 3 5795 7955
Contact Person	: Satoshi Yamamoto
Type of Equipment	: Wireless Camera Transmitter
Model No.	: WLL-CA55
Serial No.	: 1011
Rating	: DC9.0V (Battery: DC11-17V)/ (AC Adaptor: AC100-240V)
Receipt Date of Sample	: October 1, 2003
Condition of EUT	: Production prototype
Regulation(s)	: FCC Part15 Subpart C, Section 15.247
Test Site	: UL Apex No.2 Open Test Site

1.1 Tested Methodology

The measurements were performed according to the procedures in ANSI C63.4 (2001).
These tests were also referred to FCC 97-114 “Guidance on Measurement for Direct Spread Spectrum Systems”.

1.2 Test Facility

This site has been fully described in a report submitted to FCC office, and accepted on December 8, 2000 (Registration No.: 99354).
NVLAP Lab. code : 200441-0

2 PRODUCT DESCRIPTION

Sony Corporation, Model: WLL-CA55 (referred to as the EUT in this report) is a Wireless Camera Transmitter.
The clock frequencies used in EUT : 18.285714MHz (Signal)
20MHz (CPU)
27MHz (Signal)
30MHz (CPU)

Frequency characteristics	:	2406MHz through 2466MHz
Number of channels/ channel spacing	:	65 channels/ 1MHz step and 12MHz spacing
Modulation	:	16QAM-OFDM, QPSK-OFDM
Antenna type	:	Dipole
Antenna Gain	:	4.0dBi
Operating Voltage	:	DC9.0V (Battery: DC11-17V)/ (AC Adaptor: AC100-240V)

WLL-CA55 is a wireless transmitter for portable camera, and provides high quality picture and audio. WLL-CA55 consists of MPEG-2 encoder, digital modulator using COFDM technology, and RF up-converter.

*FCC Part15.31 (e)

WLL-CA55 (Wireless Camera Transmitter) provides the Transmitter module with stable power supply (DC9.0V), and the power is not changed when voltage of the WLL-CA55 (Wireless Camera Transmitter) (DC11-17V) is varied. Therefore, the Transmitter module complies power supply regulation.

*FCC Part15.203

The antenna of WLL-CA55 doesn't use a standard antenna jack or electrical connector, therefore the Wireless camera transmitter complies FCC Part15.203 Antenna requirement.

3 SYSTEM TEST CONFIGURATION

3.1 Justification

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

Test mode: 16QAM-OFDM

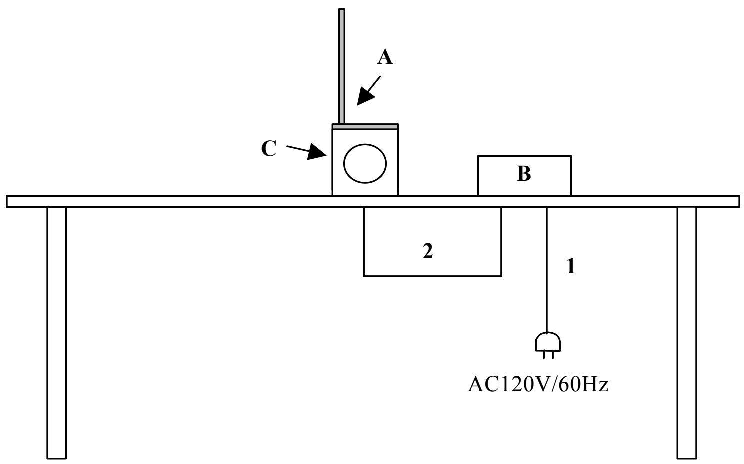
1. High power mode
   Transmitting
   - Low channel : 2406MHz
   - Middle channel : 2442MHz
   - High channel : 2466MHz

2. Low power mode
   Transmitting
   - Low channel : 2406MHz
   - Middle channel : 2442MHz
   - High channel : 2466MHz

The EUT was tested in all three orthogonal planes in order to determine worst case emissions. Channels at 2406 MHz, 2442 MHz and 2466 MHz were tested and investigated from 30 MHz to 26 GHz. Data for all three channels are presented in this report.
The COFDM system employed in the EUT has an ability to provide two different data rates by using QPSK and 16 QAM modulations. These two modulation schemes did not change spectrum envelopes of the EUT at conducted measurement at the antenna terminal.
As a result the 16 QAM-OFDM modulation with highest data rate was used for final measurements.

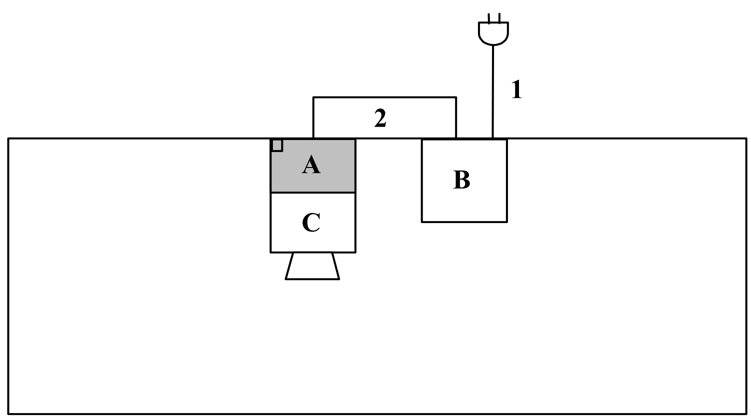
3.2 Configuration of Tested System

Front View



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

Top View



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

Description of EUT and support equipment

No.	Item	Model number	Serial number	Manufacturer	FCC ID	Remarks
A	Wireless Camera Transmitter	WLL-CA55	1011	Sony Corporation	AK8WLLCA55	EUT
B	AC Adaptor	AC-550	14562	Sony Corporation	-	-
C	Digital Camcorder	BVP-570	15913	Sony Corporation	-	-

List of cables used

No.	Name	Length (m)	Shield	Backshell material
1	AC Cable	2.0	Unshielded	Polyvinyl chloride
2	DC Cable	2.1	Unshielded	Polyvinyl chloride

4 MEASUREMENT UNCERTAINTY

Conducted emission test

The measurement uncertainty (with a 95% confidence level) for this test was ±1.3dB.

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

Radiated emission test

The measurement uncertainty (with 95% confidence level) for this test using Biconical antenna is ±4.8dB.
The measurement uncertainty (with 95% confidence level) for this test using Logperiodic antenna is ±5.2dB.
The measurement uncertainty (with 95% confidence level) for this test using Horn antenna is ±6.6dB.

The result is within Yamakita EMC lab’s uncertainty.

5 SUMMARY OF TESTS

5.1 §15.207 Conducted Emissions (Limits by CISPR Pub.22 Class B)

Test Procedure

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 peripheral 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. It was folded back and forth forming a bundle 30cm to 40cm long. DC cable that was connected to the AC adapter was bundled in center. It was folded back and forth forming a bundle 30cm to 40cm long and was hanged at 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.
The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT on 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 CISPR quasi-peak detector (IF BW 10kHz).
(Measurement range: 150kHz to 30MHz)

Test data	**: APPENDIX Page 14 to 21**
Photographs of test setup	**: Page 11**
Test result	**: Pass**
Test instruments	**: KCC-24/25/26/28/KPL-02, KLS-05, KSA-02, KTR-03**

5.2 §15.247(a)(2) 6dB Bandwidth (Antenna Port Conducted)

Test Procedure

The minimum 6dB bandwidth was measured with a spectrum analyzer connected to the antenna port.

Test data	**: APPENDIX Page 22 to 23**
Test result	**: Pass**
Test instruments	**: KTR-01, KCC-D7**

5.3 § 15.247(b)(3) Maximum Peak Out Put Power (Antenna Port Conducted)

Test Procedure

The Maximum Peak Output power was measured with a power meter connected to the antenna port.
* Antenna Gain dose not exceed 6dBi.

Test data	**: APPENDIX Page 24**
Test result	**: Pass**
Test instruments	**: KPM-05, KPSS-01, KAT10-S1**

5.4 § 15.247(c) Out of Band Emissions (Radiated)

Test Procedure
EUT was placed on a platform of nominal size, 1m by 1.8m, raised 80cm above the conducting 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.
The Radiated Electric Field Strength intensity has been measured on an open test site with a ground plane and at a distance of 3m.
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.
EUT emission levels were compared when the EUT antenna position was vertical polarization and horizontal polarization. The equipment was also previously checked at each position of two axes X and Y to find that X axis was worse under the vertical antenna polarization and that Y axis was worse under the horizontal antenna polarization.
The position in which the maximum noise occurred was chosen to put into measurement.
See the photographs in page 13.

Radiated Spurious emissions
In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.
The result was also satisfied the general limits specified in Sec.15.209 (a).
Measurement range : 30MHz to 1000MHz CISPR QP Detector, IF BW 120kHz
: 1GHz to 26GHz PK and AV Detector

Test data	**: APPENDIX Page 25 to 30 (30 - 1000MHz)**
	: APPENDIX Page 31 to 42 (1 - 26GHz)
	: APPENDIX Page 43 to 50
	(Band Edges: 2390MHz/ 2483.5MHz, Restricted band Charts)
Photographs of test setup	**: Page 12**
Test result	**: Pass**
Test instruments	**: KAF-03, KAF-04, KAT10-S1, KAT6-03, KBA-02, KTR-01, KFL-01 KCC-20/21/22/23/29, KCC-D3, KCC-D7, KHA-02, KHA-04, KLA-02, KOTS-02, KSA-02**

5.5 § 15.247(c) Out of Band Emissions (Antenna Port Conducted)

Test Procedure
The Out of Band Emissions was measured with a spectrum analyzer connected to the antenna port.

Test data	**: APPENDIX Page 51 to 62**
Test result	**: Pass**
Test instruments	**: KTR-01, KCC-D7**

5.6 § 15.247(d) Power Density (Antenna Port Conducted)

Test Procedure
The Power Density was measured with a spectrum analyzer connected to the antenna port.

Test data	**: APPENDIX Page 63 to 65**
Test result	**: Pass**
Test instruments	**: KTR-01, KCC-D7**

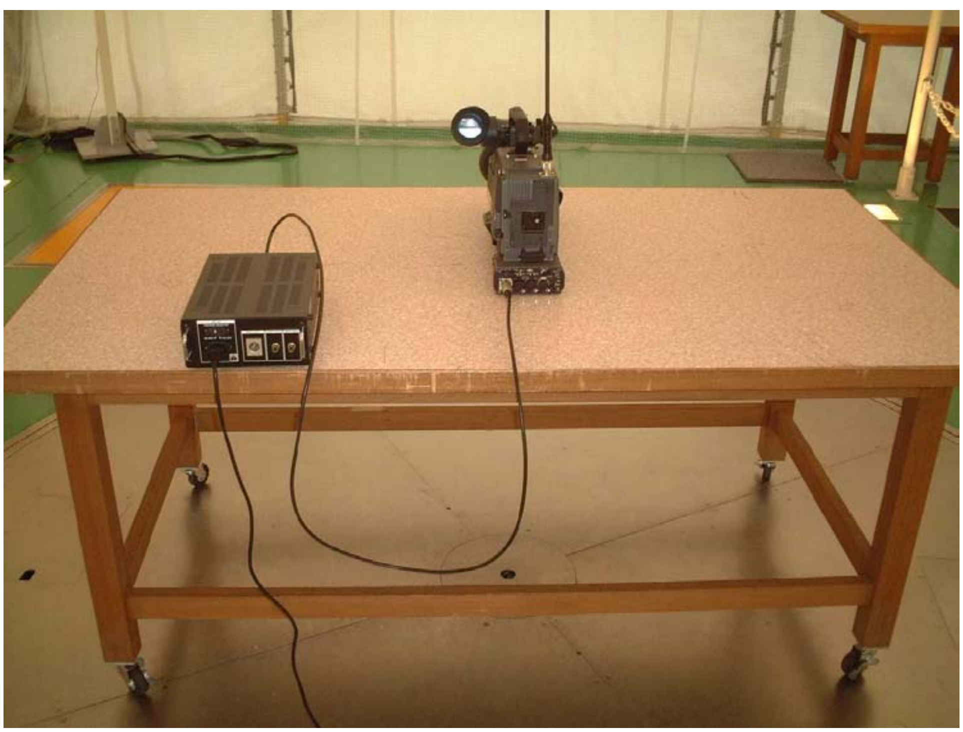
APPENDIX 1: Photographs of test setup

APPENDIX 2: Test Data

APPENDIX 3: Test instruments

Conducted emission

Radiated emission



Pre check of worse-case position
X axis

Y axis

DATA OF CONDUCTION TEST

UL Apex Co.,Ltd.
Yamakita No.3 Shielded Room
Report No. : 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2406MHz)
Remarks : High Power mode
Date : 10/8/2003
Phase : Single Phase
Temperature : 23 ℃
Humidity : 58 %
Regulation : CISPR Pub.22 CLASS B

Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	READING(N) QP [dBuV]	READING(N) AV [dBuV]	READING(L1) QP [dBuV]	READING(L1) AV [dBuV]	LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMITS QP [dBuV]	LIMITS AV [dBuV]	MARGIN QP [dB]	MARGIN AV [dB]
1.	0.1543	35.3	33.8	33.5	30.6	0.2	0.1	0.0	35.6	34.1	65.8	55.8	30.2	21.7
2.	0.2114	25.2	23.7	25.6	24.4	0.2	0.2	0.0	26.0	24.8	63.2	53.2	37.2	28.4
3.	0.2970	21.4	20.3	21.1	19.7	0.2	0.2	0.0	21.8	20.7	60.3	50.3	38.5	29.6
4.	1.6991	16.8	16.1	14.9	14.1	0.2	0.3	0.0	17.3	16.6	56.0	46.0	38.7	29.4
5.	2.1235	13.7	13.0	15.6	14.9	0.2	0.4	0.0	16.2	15.5	56.0	46.0	39.8	30.5
6.	17.9994	40.0	39.3	40.2	39.5	1.1	1.7	0.0	43.0	42.3	60.0	50.0	17.0	7.7

CALCULATION: READING[dBμV] + LISN FACTOR[dB] + CABLE LOSS[dB] + ATTEN[dB].

■LISN :KLS-05(NSLK8126) ■COAXIAL CABLE:KCC-24/25/26/28
■PULSE LIMTTER:KPL-02(PL01) ■EMI RECEIVER:KTR-03(ESHS10)

DATA OF CONDUCTION TEST CHART

UL Apex Co.,Ltd.
Yamakita No.3 Shielded Room
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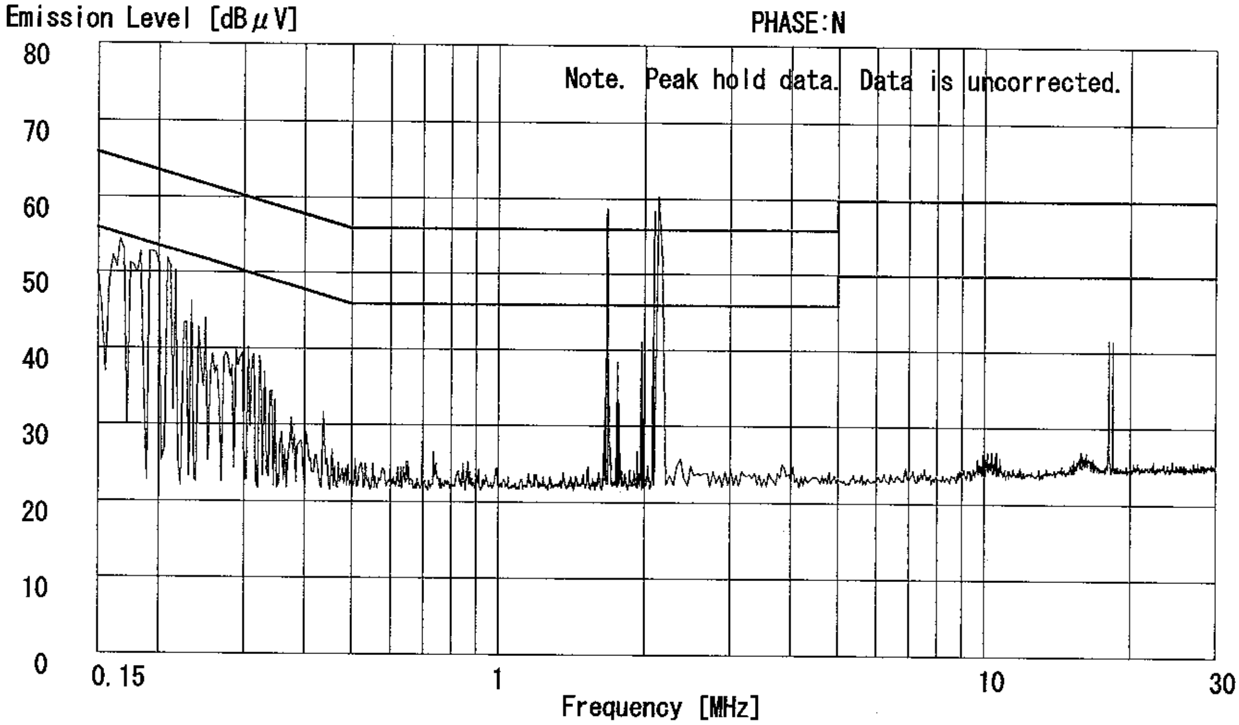
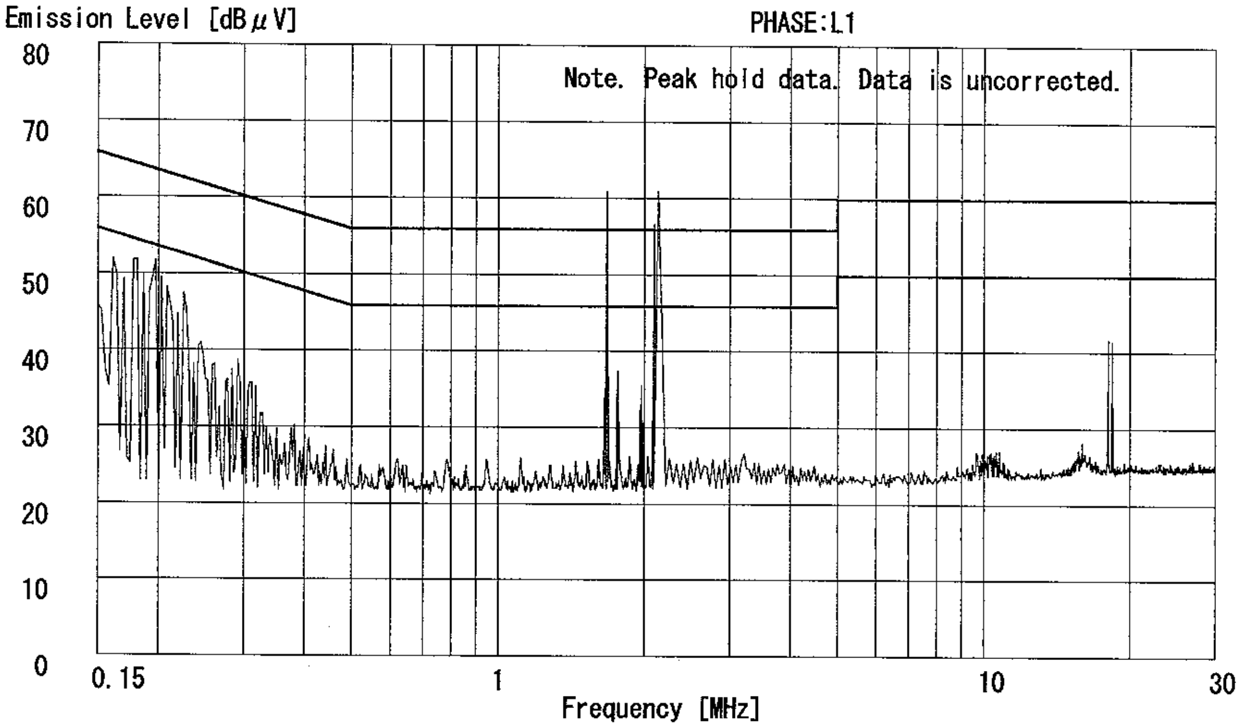
Applicant	:	Sony Corporation
Kind of Equipment	:	Wireless Camera Transmitter
Model No.	:	WLL-CA55
Serial No.	:	1011
Power	:	AC120V/60Hz
Mode	:	Transmitting(2406MHz)
Remarks	:	High Power mode
Date	:	10/8/2003
Phase	:	Single Phase
Temperature	:	23 ℃
Humidity	:	58 %
Regulation 1	:	CISPR Pub.22 CLASS B
Regulation 2	:	None

Engineer : Ichiro Isozaki





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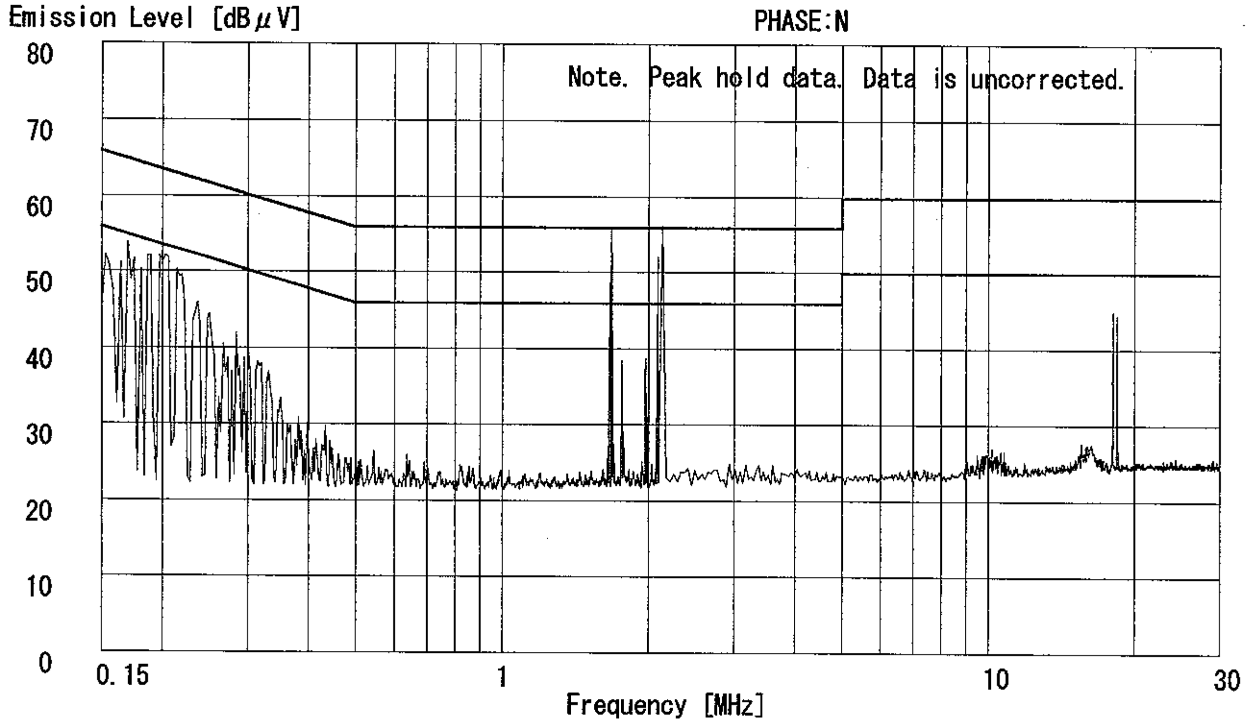
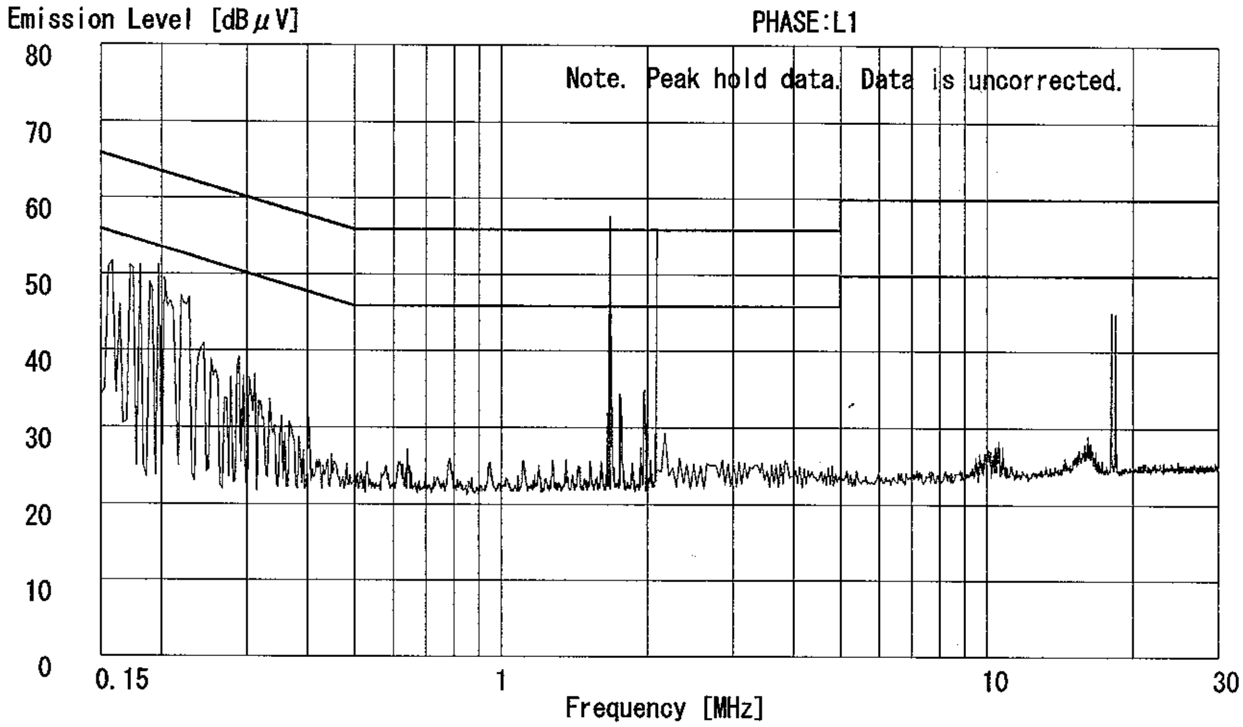
Applicant	:	Sony Corporation
Kind of Equipment	:	Wireless Camera Transmitter
Model No.	:	WLL-CA55
Serial No.	:	1011
Power	:	AC120V/60Hz
Mode	:	Transmitting (2442MHz)
Remarks	:	High Power mode
Date	:	10/8/2003
Phase	:	Single Phase
Temperature	:	23 ℃
Humidity	:	58 %
Regulation 1	:	CISPR Pub. 22 CLASS B
Regulation 2	:	CISPR Pub. 22 CLASS B

Engineer : Ichiro Isozaki





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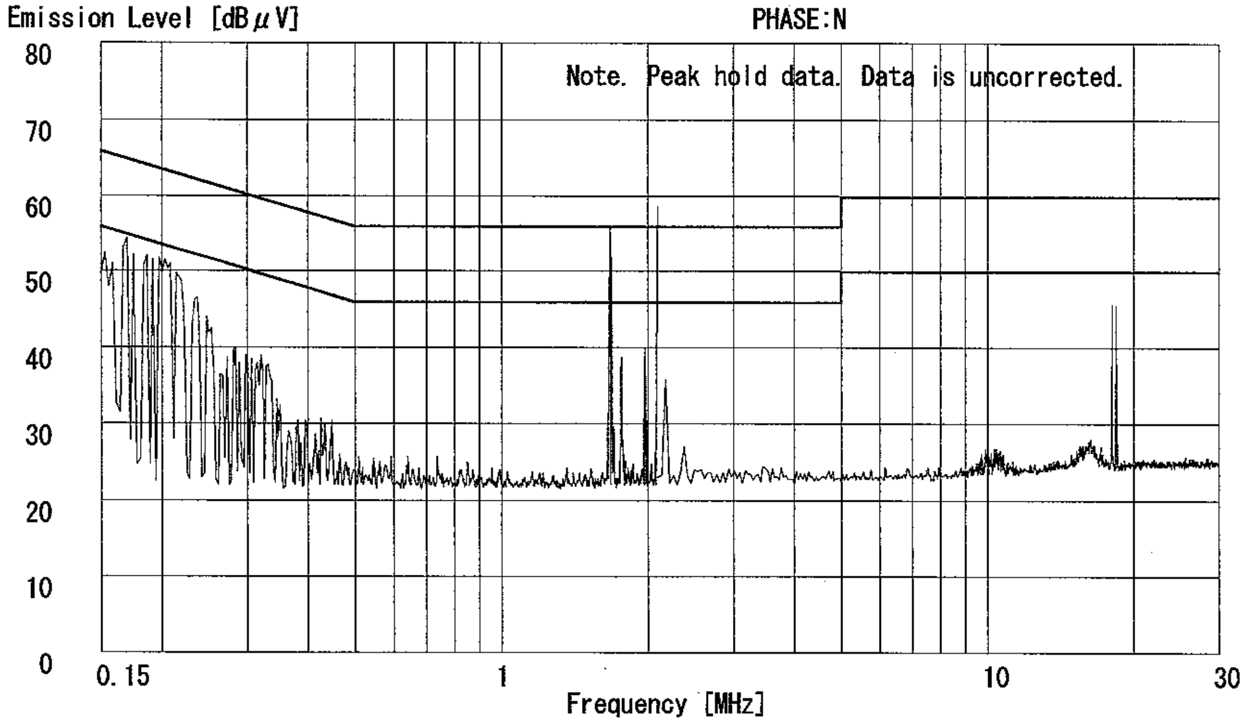
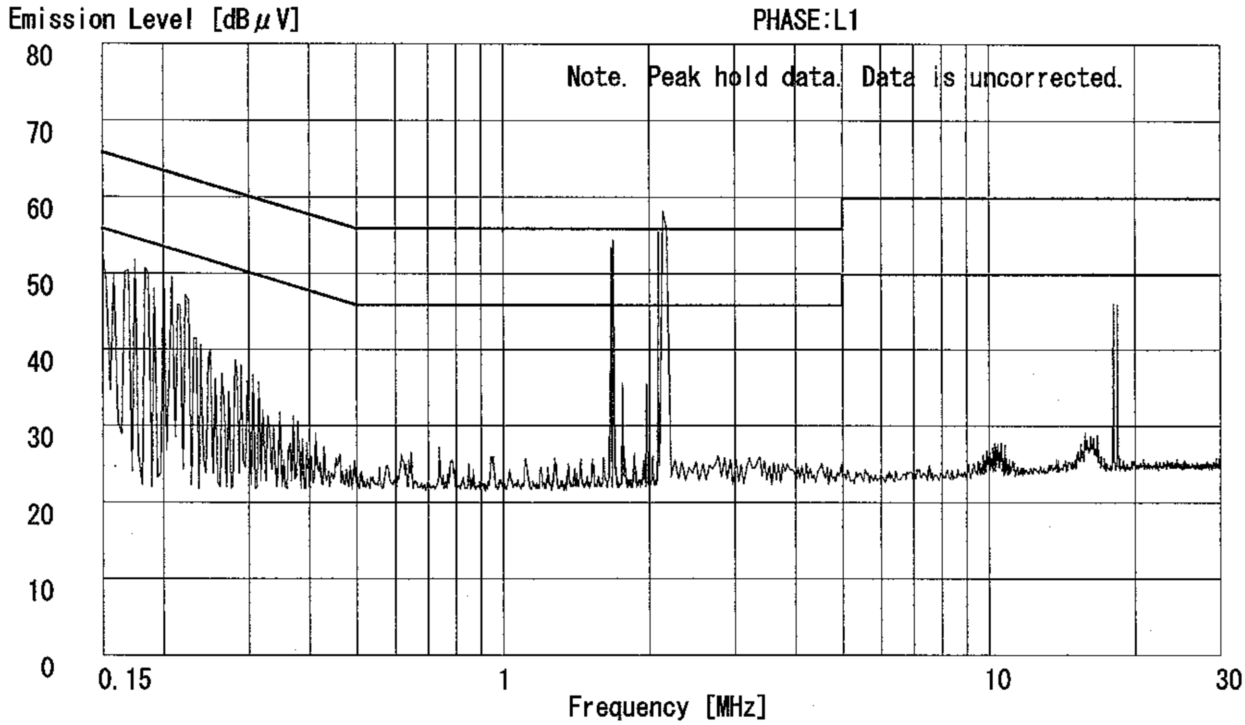
Mode : Transmitting(2466MHz)
Remarks : High Power mode
Date : 10/8/2003
Phase : Single Phase
Temperature : 23 ℃
Humidity : 58 %
Regulation 1 : CISPR Pub.22 CLASS B
Regulation 2 : None

Engineer : Ichiro Isozaki





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Report No.: 24BE0112-YK-1

Applicant	:	Sony Corporation
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Model No.	:	WLL-CA55
Serial No.	:	1011
Power	:	AC120V/60Hz
Mode	:	Transmitting(2406MHz)
Remarks	:	Low Power mode
Date	:	10/8/2003
Phase	:	Single Phase
Temperature	:	23 ℃
Humidity	:	58 %
Regulation	:	CISPR Pub.22 CLASS B

Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	READING(N) QP [dBuV]	READING(N) AV [dBuV]	READING(L1) QP [dBuV]	READING(L1) AV [dBuV]	LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMITS QP [dBuV]	LIMITS AV [dBuV]	MARGIN QP [dB]	MARGIN AV [dB]
1.	0.1554	35.4	34.0	34.1	31.0	0.2	0.1	0.0	35.7	34.3	65.7	55.7	30.0	21.4
2.	0.2125	25.2	23.8	26.1	31.1	0.2	0.2	0.0	26.5	31.5	63.1	53.1	36.6	21.6
3.	0.2975	21.5	20.2	21.5	20.1	0.2	0.2	0.0	21.9	20.6	60.3	50.3	38.4	29.7
4.	1.7056	16.8	16.1	15.5	14.7	0.2	0.3	0.0	17.3	16.6	56.0	46.0	38.7	29.4
5.	2.1305	14.2	13.5	15.7	15.0	0.2	0.4	0.0	16.3	15.6	56.0	46.0	39.7	30.4
6.	17.9993	39.5	38.9	40.1	39.6	1.1	1.7	0.0	42.9	42.4	60.0	50.0	17.1	7.6

CALCULATION: READING[dBμV] + LISN FACTOR[dB] + CABLE LOSS[dB] + ATTEN[dB].

■LISN :KLS-05(NSLK8126) ■COAXIAL CABLE:KCC-24/25/26/28
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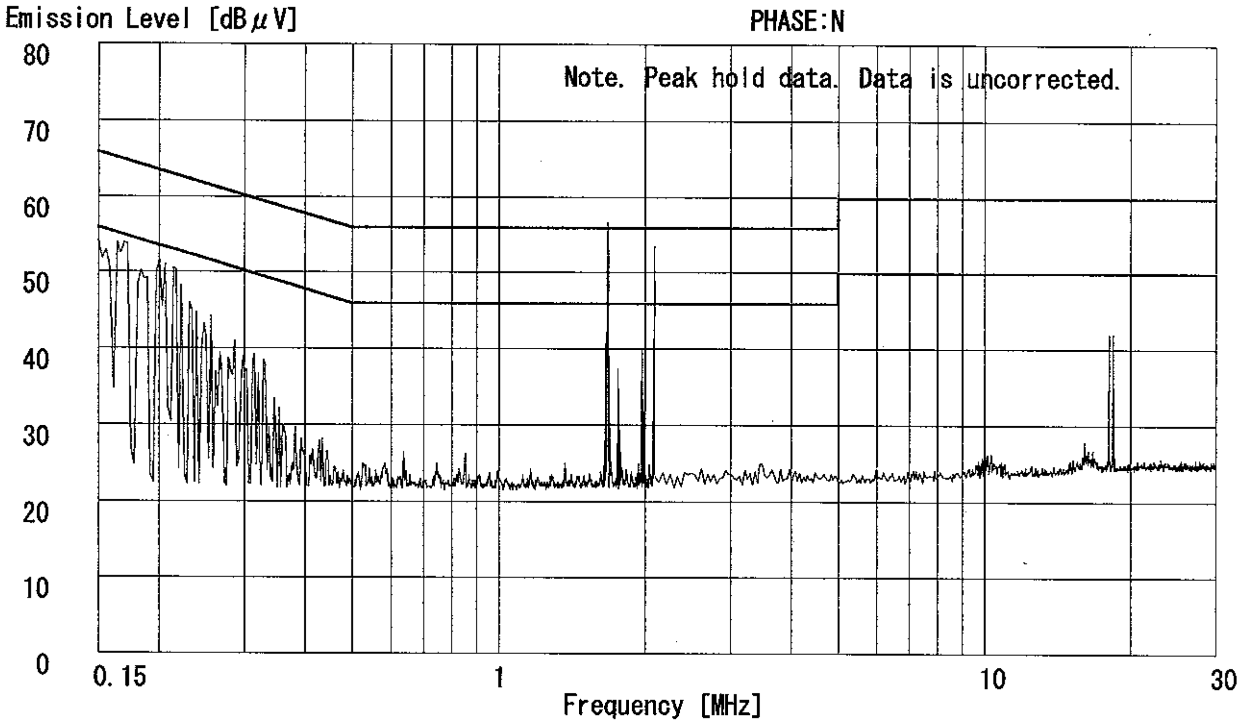
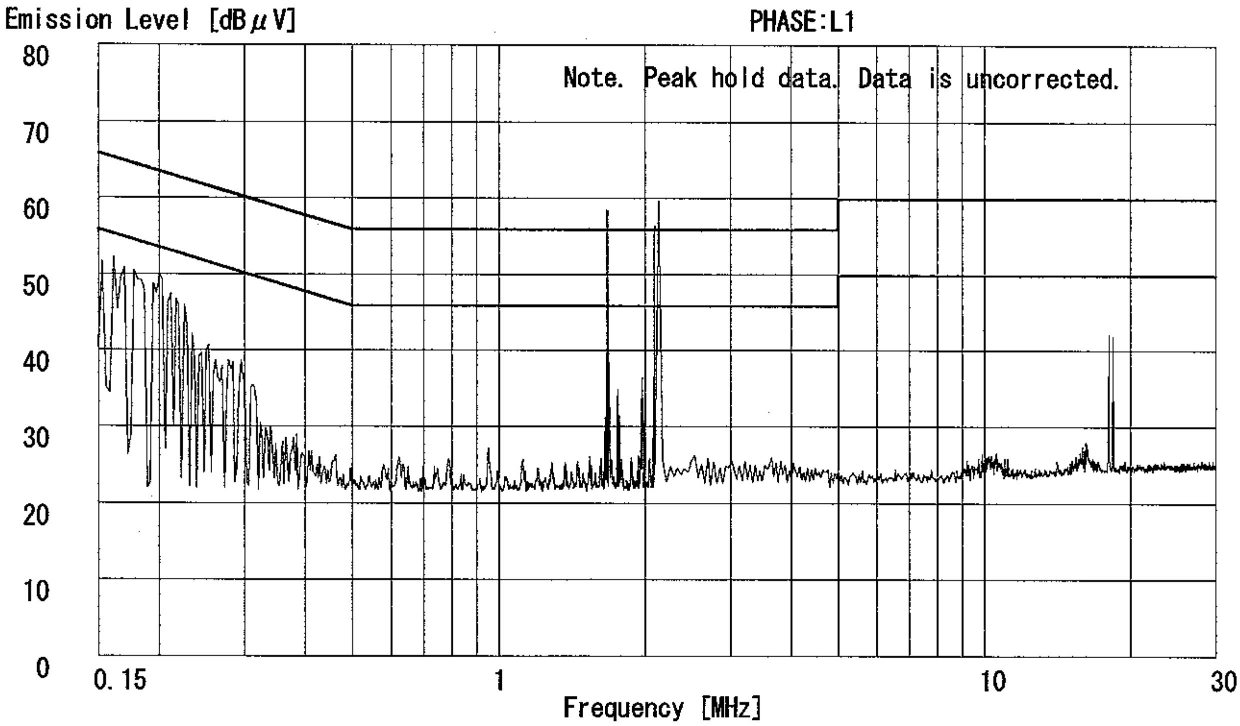
Regulation 2	:	None

Engineer : Ichiro Isozaki





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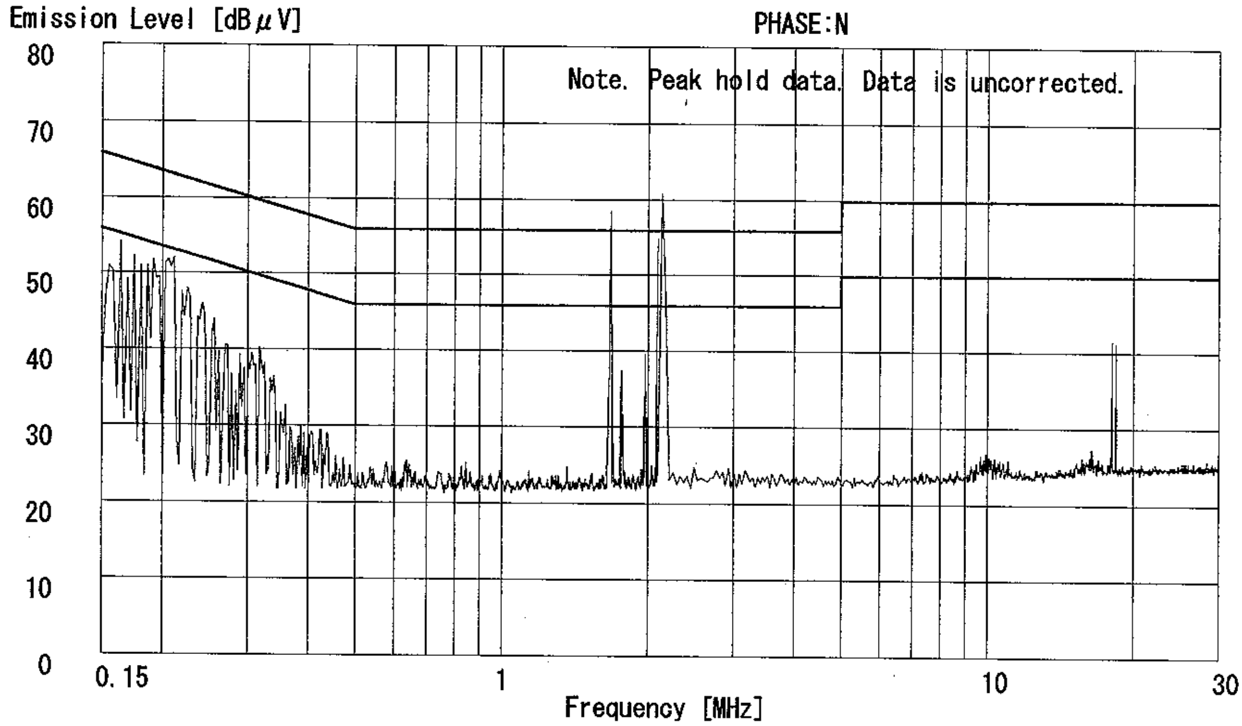
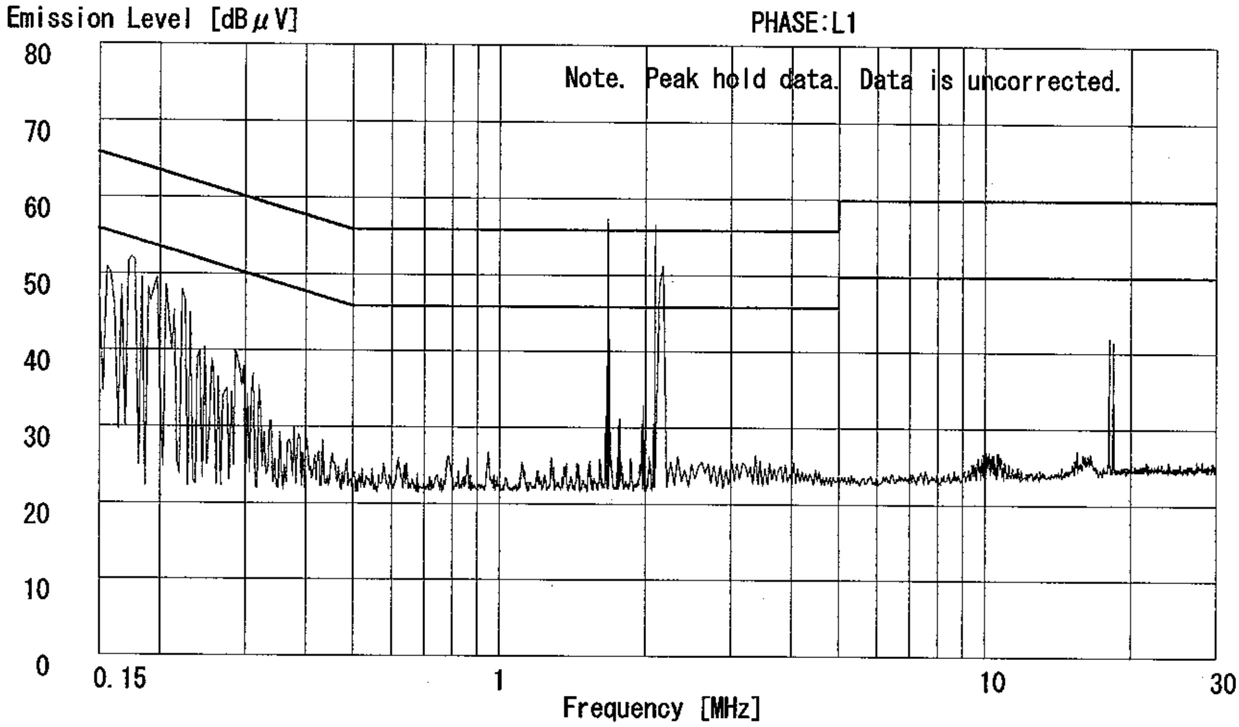
Mode	:	Transmitting(2442MHz)
Remarks	:	Low Power mode
Date	:	10/8/2003
Phase	:	Single Phase
Temperature	:	23 ℃
Humidity	:	58 %
Regulation 1	:	CISPR Pub.22 CLASS B
Regulation 2	:	None

Engineer : Ichiro Isozaki





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Remarks	:	Low Power mode
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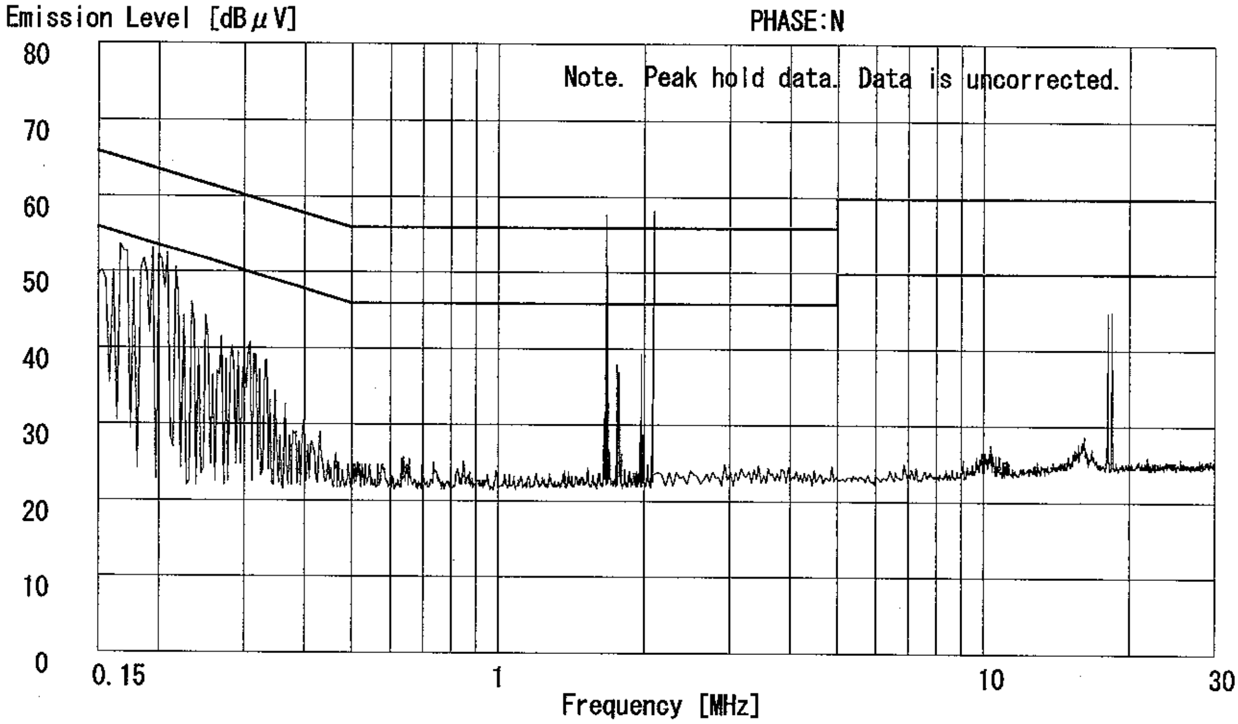
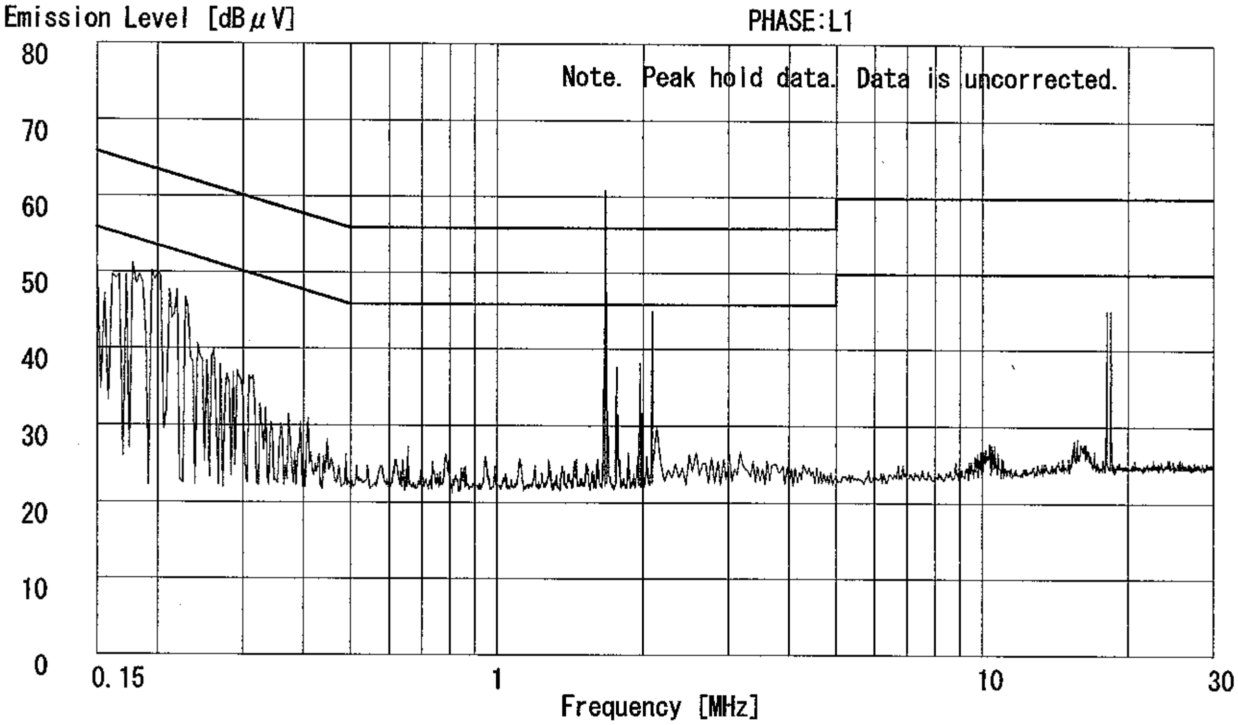
Humidity	:	58 %
Regulation 1	:	CISPR Pub.22 CLASS B
Regulation 2	:	None

I. Isozaki

Engineer : Ichiro Isozaki



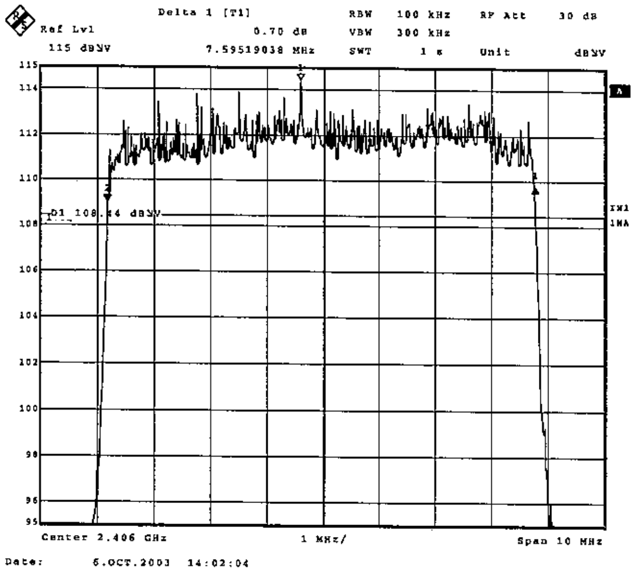


6dB Bandwidth: FCC 15.247(a)

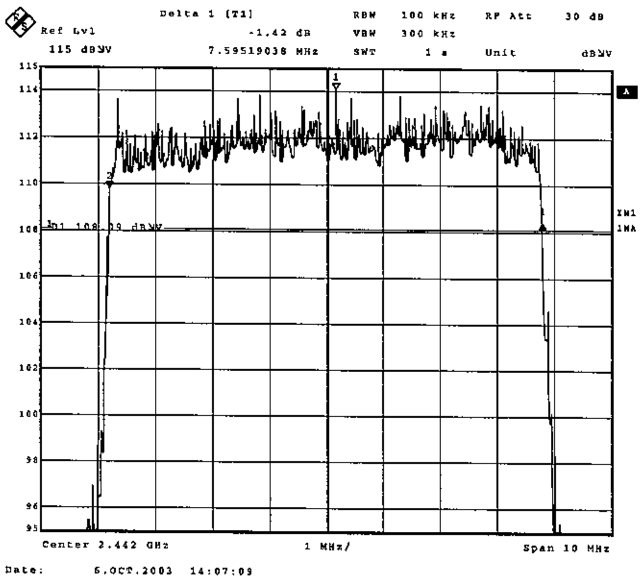
FCC ID: AK8WLLCA55
Job No: 24BE0112-YK-1

High Power mode

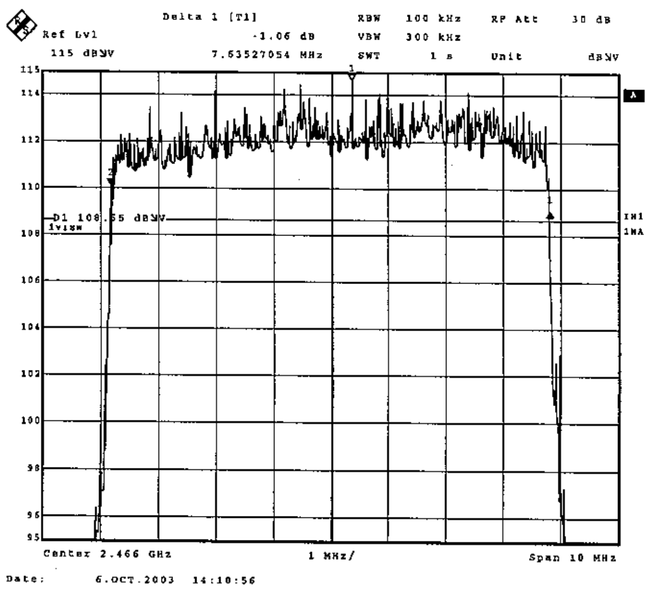
1. Ch Low:2406MHz



2. Ch Mid:2442MHz

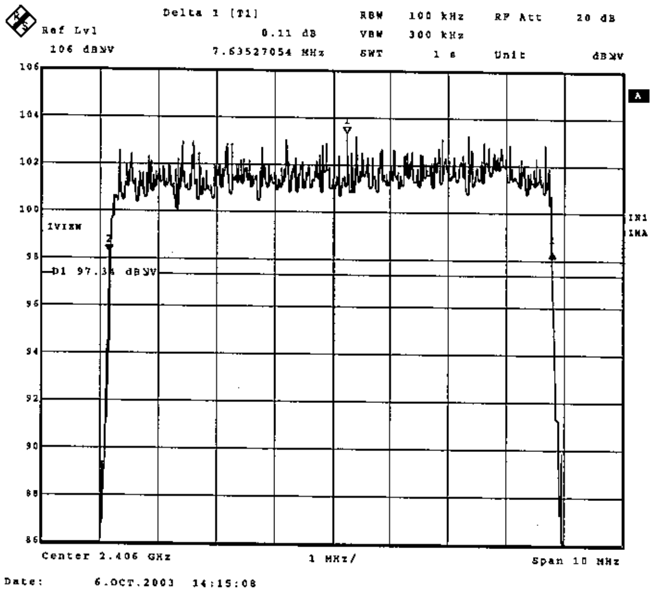


3. Ch High:2466MHz

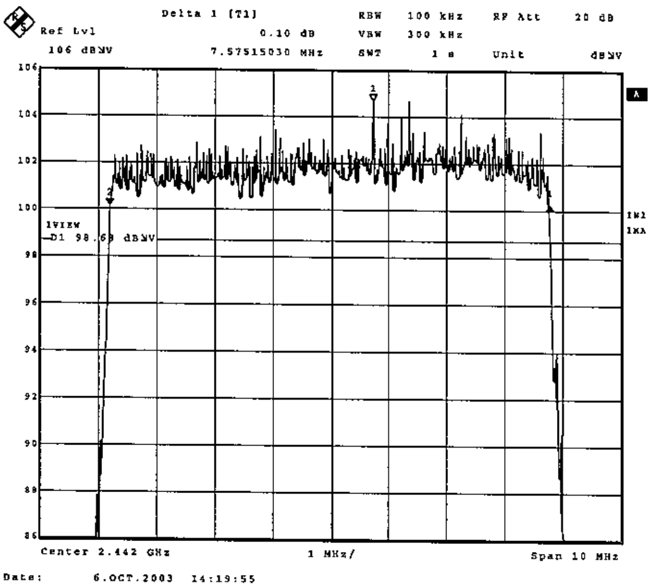


Low Power mode

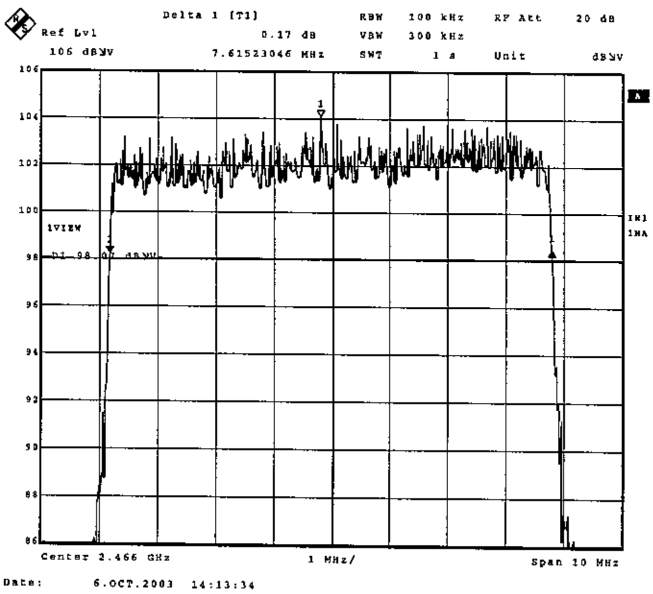
1. Ch Low:2406MHz



2. Ch Mid:2442MHz



3. Ch High:2466MHz



Peak Out Put Power(Conducted)

UL Apex Co., Ltd.
YAMAKITA EMC No.4 Shielded Room

COMPANY : Sony Coroporation
EQUIPMENT : Wireless Camera Transmitter
MODEL : WLL-CA55
FCC ID : AK8WLLCA55
POWER : AC120V/60Hz
Mode : Transmitting

REPORT NO : 24BE0112-YK-1
REGULATION : Fcc Part15SubpartC 247(d)
DATE : 2003/ 10/06
Temp./Humi. : 23℃/56%

ENGINEER : Ichiro Isozaki

1.High Power mode

CH	FREQ [GHz]	Results [dBm]	Limit (1W) [dBm]	MARGIN [dB]
Low	2406.00	24.6	30.0	5.40
Mid	2442.00	24.4	30.0	5.60
High	2466.00	25.1	30.0	4.90

2.Low Power mode

CH	FREQ [GHz]	Results [dBm]	Limit (1W) [dBm]	MARGIN [dB]
Low	2406.00	16.6	30.0	13.40
Mid	2442.00	16.1	30.0	13.90
High	2466.00	16.2	30.0	13.80

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2406MHz)
Remarks : High Power mode
Date : 10/8/2003
Test Distance : 3 m
Temperature : 21 ℃
Humidity : 68 %
Regulation : FCC Part15C §15.209

Engineer : Ichiro Isozaki

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.	125.99	BB	42.0	35.7	14.3	27.8	2.3	5.8	36.6	30.3	43.5	6.9	13.2
2.	179.99	BB	41.8	31.2	15.6	27.7	2.8	5.8	38.3	27.7	43.5	5.2	15.8
3.	251.99	BB	39.4	31.7	17.9	27.4	3.4	5.8	39.1	31.4	46.0	6.9	14.6
4.	323.99	BB	41.7	36.3	16.2	27.5	4.0	5.8	40.2	34.8	46.0	5.8	11.2
5.	413.99	BB	39.1	39.5	17.5	28.3	4.6	5.8	38.7	39.1	46.0	7.3	6.9
6.	728.99	BB	34.3	30.2	21.2	29.0	6.3	5.8	38.6	34.5	46.0	7.4	11.5

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KBA-02(BBA9106)30-299.99MHz/KLA-02(USLP9143)300-1000MHz
■AMP:KAF-03(8447D) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-20/21/22/23/29

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant	: Sony Corporation
Kind of Equipment	: Wireless Camera Transmitter
Model No.	: WLL-CA55
Serial No.	: 1011
Power	: AC120V/60Hz
Mode	: Transmitting(2442MHz)
Remarks	: High Power mode
Date	: 10/8/2003
Test Distance	: 3 m
Temperature	: 21 ℃
Humidity	: 68 %
Regulation	: FCC Part15C §15.209

Engineer : Ichiro Isozaki

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.	125.99	BB	41.6	36.9	14.3	27.8	2.3	5.8	36.2	31.5	43.5	7.3	12.0
2.	179.99	BB	41.8	31.2	15.6	27.7	2.8	5.8	38.3	27.7	43.5	5.2	15.8
3.	251.99	BB	39.8	31.8	17.9	27.4	3.4	5.8	39.5	31.5	46.0	6.5	14.5
4.	323.99	BB	41.4	36.2	16.2	27.5	4.0	5.8	39.9	34.7	46.0	6.1	11.3
5.	413.99	BB	38.5	39.4	17.5	28.3	4.6	5.8	38.1	39.0	46.0	7.9	7.0
6.	728.99	BB	35.4	30.2	21.2	29.0	6.3	5.8	39.7	34.5	46.0	6.3	11.5

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KBA-02(BBA9106)30-299MHz/KLA-02(USLP9143)300-1000MHz
■AMP:KAF-03(8447D) ■RECEIVER:KTR-04(ESVS10) ■CABLE:KCC-20/21/22/23/29

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant	: Sony Corporation
Kind of Equipment	: Wireless Camera Transmitter
Model No.	: WLL-CA55
Serial No.	: 1011
Power	: AC120V/60Hz
Mode	: Transmitting(2466MHz)
Remarks	: High Power mode
Date	: 10/8/2003
Test Distance	: 3 m
Temperature	: 21 ℃
Humidity	: 68 %
Regulation	: FCC Part15C §15.209

Engineer : Ichiro Isozaki

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.	125.98	BB	41.6	35.4	14.3	27.8	2.3	5.8	36.2	30.0	43.5	7.3	13.5
2.	180.00	BB	42.6	30.1	15.6	27.7	2.8	5.8	39.1	26.6	43.5	4.4	16.9
3.	251.99	BB	39.1	32.5	17.9	27.4	3.4	5.8	38.8	32.2	46.0	7.2	13.8
4.	323.99	BB	42.3	36.7	16.2	27.5	4.0	5.8	40.8	35.2	46.0	5.2	10.8
5.	413.99	BB	38.3	38.0	17.5	28.3	4.6	5.8	37.9	37.6	46.0	8.1	8.4
6.	728.99	BB	34.5	29.8	21.2	29.0	6.3	5.8	38.8	34.1	46.0	7.2	11.9

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KBA-02(BBA9106)30-299MHz/KLA-02(USLP9143)300-1000MHz
■AMP:KAF-03(8447D) ■RECEIVER:KTR-04(ESVS10) ■CABLE:KCC-20/21/22/23/29

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No.: 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2406MHz)
Remarks : Low Power mode
Date : 10/9/2003
Test Distance : 3 m
Temperature : 20 ℃
Humidity : 60 %
Regulation : FCC Part15C §15.209

Engineer : Ichiro Isozaki

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.	125.99	BB	40.7	33.3	14.3	27.8	2.3	5.8	35.3	27.9	43.5	8.2	15.6
2.	179.99	BB	43.9	37.6	15.6	27.7	2.8	5.8	40.4	34.1	43.5	3.1	9.4
3.	251.99	BB	40.3	31.9	17.9	27.4	3.4	5.8	40.0	31.6	46.0	6.0	14.4
4.	323.99	BB	43.6	36.5	16.2	27.5	4.0	5.8	42.1	35.0	46.0	3.9	11.0
5.	413.99	BB	36.9	38.5	17.5	28.3	4.6	5.8	36.5	38.1	46.0	9.5	7.9
6.	728.97	BB	34.6	28.8	21.2	29.0	6.3	5.8	38.9	33.1	46.0	7.1	12.9

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KBA-02(BBA9106)30-299MHz/KLA-02(USLP9143)300-1000MHz
■AMP:KAF-03(8447D) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-20/21/22/23/29

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2442MHz)
Remarks : Low Power mode
Date : 10/9/2003
Test Distance : 3 m
Temperature : 20 ℃
Humidity : 60 %
Regulation : FCC Part15C §15.209

Engineer : Ichiro Isozaki

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.	125.99	BB	42.6	35.0	14.3	27.8	2.3	5.8	37.2	29.6	43.5	6.3	13.9
2.	179.99	BB	43.0	33.7	15.6	27.7	2.8	5.8	39.5	30.2	43.5	4.0	13.3
3.	251.99	BB	38.9	33.0	17.9	27.4	3.4	5.8	38.6	32.7	46.0	7.4	13.3
4.	323.99	BB	42.7	36.6	16.2	27.5	4.0	5.8	41.2	35.1	46.0	4.8	10.9
5.	413.99	BB	38.2	39.0	17.5	28.3	4.6	5.8	37.8	38.6	46.0	8.2	7.4
6.	728.99	BB	34.9	29.3	21.2	29.0	6.3	5.8	39.2	33.6	46.0	6.8	12.4

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KBA-02(BBA9106)30-299MHz/KLA-02(USLP9143)300-1000MHz
■AMP:KAF-03(8447D) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-20/21/22/23/29

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2466MHz)
Remarks : Low Power mode
Date : 10/9/2003
Test Distance : 3 m
Temperature : 20 °C
Humidity : 60 %
Regulation : FCC Part15C §15.209

Engineer : Ichiro Isozaki

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.	125.99	BB	42.7	34.5	14.3	27.8	2.3	5.8	37.3	29.1	43.5	6.2	14.4
2.	179.99	BB	42.9	34.0	15.6	27.7	2.8	5.8	39.4	30.5	43.5	4.1	13.0
3.	251.99	BB	38.5	32.7	17.9	27.4	3.4	5.8	38.2	32.4	46.0	7.8	13.6
4.	323.99	BB	41.7	36.1	16.2	27.5	4.0	5.8	40.2	34.6	46.0	5.8	11.4
5.	413.99	BB	39.3	40.7	17.5	28.3	4.6	5.8	38.9	40.3	46.0	7.1	5.7
6.	728.99	BB	33.8	28.5	21.2	29.0	6.3	5.8	38.1	32.8	46.0	7.9	13.2

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KBA-02(BBA9106)30-299MHz/KLA-02(USLP9143)300-1000MHz
■AMP:KAF-03(8447D) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-20/21/22/23/29

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2406MHz)
Remarks : High Power mode
Date : 10/7/2003
Test Distance : 3 m
Temperature : 24 ℃
Humidity : 67 %
Regulation : FCC Part15C §15.209(AV Detection)

Engineer : Ichiro Isozaki

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.	2390.00	BB	31.0	31.1	29.0	34.7	4.1	10.0	39.4	39.5	54.0	14.6	14.5
2.	4024.00	BB	44.0	35.3	31.5	34.1	5.4	0.7	47.5	38.8	54.0	6.5	15.2
3.	4812.00	BB	28.8	28.8	32.9	34.1	5.6	0.6	33.8	33.8	54.0	20.2	20.2
4.	7218.00	BB	29.4	29.5	37.4	34.1	6.5	0.5	39.7	39.8	54.0	14.3	14.2
5.	9624.00	BB	28.3	28.4	39.6	34.4	7.2	0.5	41.2	41.3	54.0	12.8	12.7
6.	12030.00	BB	28.4	28.4	41.8	34.2	8.1	0.5	44.6	44.6	54.0	9.4	9.4
7.	14436.00	BB	27.6	27.7	41.4	32.4	7.4	0.2	44.2	44.3	54.0	9.8	9.7
8.	16842.00	BB	27.4	27.5	40.1	33.3	8.9	0.5	43.6	43.7	54.0	10.4	10.3
9.	19248.00	BB	26.5	26.5	41.4	33.0	9.4	0.0	44.3	44.3	54.0	9.7	9.7
10.	21654.00	BB	27.9	27.9	41.5	33.0	9.8	0.0	46.2	46.2	54.0	7.8	7.8
11.	24060.00	BB	26.7	26.8	39.4	32.2	10.9	0.0	44.8	44.9	54.0	9.2	9.1

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D)1-18GHz/KHA-04(3160-09)18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2442MHz)
Remarks : High Power mode
Date : 10/7/2003
Test Distance : 3 m
Temperature : 24 ℃
Humidity : 67 %
Regulation : FCC Part15C §15.209(AV Detection)

Engineer : Ichiro Isozaki

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.	4095.98	BB	43.2	35.1	31.6	34.1	5.4	0.7	46.8	38.7	54.0	7.2	15.3
2.	4884.00	BB	28.7	28.7	33.2	34.1	5.6	0.6	34.0	34.0	54.0	20.0	20.0
3.	7326.00	BB	29.3	29.4	37.8	34.2	6.6	0.5	40.0	40.1	54.0	14.0	13.9
4.	9768.00	BB	28.4	28.4	39.7	34.5	7.2	0.6	41.4	41.4	54.0	12.6	12.6
5.	12210.00	BB	28.4	28.4	41.4	34.0	8.1	0.4	44.3	44.3	54.0	9.7	9.7
6.	14652.00	BB	27.6	27.7	41.8	32.7	7.7	0.3	44.7	44.8	54.0	9.3	9.2
7.	17094.00	BB	27.2	27.2	40.7	33.1	8.7	0.6	44.1	44.1	54.0	9.9	9.9
8.	19536.00	BB	26.3	26.4	41.0	33.2	9.5	0.0	43.6	43.7	54.0	10.4	10.3
9.	21978.00	BB	28.3	28.2	41.5	33.0	10.2	0.0	47.0	46.9	54.0	7.0	7.1
10.	24420.00	BB	27.2	27.2	39.7	33.4	10.8	0.0	44.3	44.3	54.0	9.7	9.7

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D)1-18GHz/KHA-04(3160-09)18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2466MHz)
Remarks : High Power mode
Date : 10/7/2003
Test Distance : 3 m
Temperature : 24 ℃
Humidity : 67 %
Regulation : FCC Part15C §15.209(AV Detection)

Engineer : Ichiro Isozaki

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.	2483.50	BB	30.6	30.7	29.3	34.7	4.1	10.0	39.3	39.4	54.0	14.7	14.6
2.	4143.99	BB	40.7	37.1	31.6	34.2	5.5	0.7	44.3	40.7	54.0	9.7	13.3
3.	4932.00	BB	28.7	28.6	33.4	34.0	5.6	0.5	34.2	34.1	54.0	19.8	19.9
4.	7398.00	BB	29.4	29.4	38.1	34.3	6.6	0.5	40.3	40.3	54.0	13.7	13.7
5.	9864.00	BB	28.3	28.3	39.7	34.5	7.2	0.7	41.4	41.4	54.0	12.6	12.6
6.	12330.00	BB	28.5	28.5	41.0	33.9	8.1	0.4	44.1	44.1	54.0	9.9	9.9
7.	14796.00	BB	27.7	27.8	41.9	32.9	8.2	0.5	45.4	45.5	54.0	8.6	8.5
8.	17262.00	BB	26.8	28.9	41.1	33.1	8.4	0.6	43.8	45.9	54.0	10.2	8.1
9.	19728.00	BB	26.7	26.7	41.2	33.4	9.6	0.0	44.1	44.1	54.0	9.9	9.9
10.	22194.00	BB	28.0	28.0	41.4	32.7	10.3	0.0	47.0	47.0	54.0	7.0	7.0
11.	24660.00	BB	27.1	27.1	39.7	33.4	10.9	0.0	44.3	44.3	54.0	9.7	9.7

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D)1-18GHz/KHA-04(3160-09)18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2406MHz)
Remarks : High Power mode
Date : 10/7/2003
Test Distance : 3 m
Temperature : 24 ℃
Humidity : 67 %
Regulation : FCC Part15C §15.209(PK Detection)

Engineer : Ichiro Isozaki

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.	2390.00	BB	45.6	43.5	29.0	34.7	4.1	10.0	54.0	51.9	74.0	20.0	22.1
2.	4024.00	BB	47.8	44.8	31.5	34.1	5.4	0.7	51.3	48.3	74.0	22.7	25.7
3.	4812.00	BB	41.5	41.3	32.9	34.1	5.6	0.6	46.5	46.3	74.0	27.5	27.7
4.	7218.00	BB	41.3	41.6	37.4	34.1	6.5	0.5	51.6	51.9	74.0	22.4	22.1
5.	9624.00	BB	39.5	41.3	39.6	34.4	7.2	0.5	52.4	54.2	74.0	21.6	19.8
6.	12030.00	BB	40.7	41.0	41.8	34.2	8.1	0.5	56.9	57.2	74.0	17.1	16.8
7.	14436.00	BB	40.6	39.9	41.4	32.4	7.4	0.2	57.2	56.5	74.0	16.8	17.5
8.	16842.00	BB	39.4	39.3	40.1	33.3	8.9	0.5	55.6	55.5	74.0	18.4	18.5
9.	19248.00	BB	37.4	38.5	41.4	33.0	9.4	0.0	55.2	56.3	74.0	18.8	17.7
10.	21654.00	BB	39.3	40.0	41.5	33.0	9.8	0.0	57.6	58.3	74.0	16.4	15.7
11.	24060.00	BB	38.7	38.1	39.4	32.2	10.9	0.0	56.8	56.2	74.0	17.2	17.8

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D)1-18GHz/KHA-04(3160-09)18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant	: Sony Corporation
Kind of Equipment	: Wireless Camera Transmitter
Model No.	: WLL-CA55
Serial No.	: 1011
Power	: AC120V/60Hz
Mode	: Transmitting(2442MHz)
Remarks	: High Power mode
Date	: 10/7/2003
Test Distance	: 3 m
Temperature	: 24 ℃
Humidity	: 67 %
Regulation	: FCC Part15C §15.209(PK Detection)

Engineer : Ichiro Isozaki

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.	4095.98	BB	47.0	43.6	31.6	34.1	5.4	0.7	50.6	47.2	74.0	23.4	26.8
2.	4884.00	BB	40.2	41.5	33.2	34.1	5.6	0.6	45.5	46.8	74.0	28.5	27.2
3.	7326.00	BB	40.9	41.3	37.8	34.2	6.6	0.5	51.6	52.0	74.0	22.4	22.0
4.	9768.00	BB	40.4	40.0	39.7	34.5	7.2	0.6	53.4	53.0	74.0	20.6	21.0
5.	12210.00	BB	40.4	40.8	41.4	34.0	8.1	0.4	56.3	56.7	74.0	17.7	17.3
6.	14652.00	BB	39.4	39.8	41.8	32.7	7.7	0.3	56.5	56.9	74.0	17.5	17.1
7.	17094.00	BB	39.3	39.1	40.7	33.1	8.7	0.6	56.2	56.0	74.0	17.8	18.0
8.	19536.00	BB	37.2	37.2	41.0	33.2	9.5	0.0	54.5	54.5	74.0	19.5	19.5
9.	21978.00	BB	39.8	39.3	41.5	33.0	10.2	0.0	58.5	58.0	74.0	15.5	16.0
10.	24420.00	BB	39.4	38.2	39.7	33.4	10.8	0.0	56.5	55.3	74.0	17.5	18.7

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D)1-18GHz/KHA-04(3160-09)18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2466MHz)
Remarks : High Power mode
Date : 10/7/2003
Test Distance : 3 m
Temperature : 24 ℃
Humidity : 67 %
Regulation : FCC Part15C §15.209(PK Detection)

Engineer : Ichiro Isozaki

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.	2483.50	BB	40.3	39.9	29.3	34.7	4.1	10.0	49.0	48.6	74.0	25.0	25.4
2.	4143.99	BB	45.6	44.4	31.6	34.2	5.5	0.7	49.2	48.0	74.0	24.8	26.0
3.	4932.00	BB	40.2	40.4	33.4	34.0	5.6	0.5	45.7	45.9	74.0	28.3	28.1
4.	7398.00	BB	41.1	41.8	38.1	34.3	6.6	0.5	52.0	52.7	74.0	22.0	21.3
5.	9864.00	BB	40.3	40.4	39.7	34.5	7.2	0.7	53.4	53.5	74.0	20.6	20.5
6.	12330.00	BB	40.0	41.1	41.0	33.9	8.1	0.4	55.6	56.7	74.0	18.4	17.3
7.	14796.00	BB	39.6	39.5	41.9	32.9	8.2	0.5	57.3	57.2	74.0	16.7	16.8
8.	17262.00	BB	38.5	39.5	41.1	33.1	8.4	0.6	55.5	56.5	74.0	18.5	17.5
9.	19728.00	BB	37.8	37.5	41.2	33.4	9.6	0.0	55.2	54.9	74.0	18.8	19.1
10.	22194.00	BB	39.1	38.3	41.4	32.7	10.3	0.0	58.1	57.3	74.0	15.9	16.7
11.	24660.00	BB	39.6	38.1	39.7	33.4	10.9	0.0	56.8	55.3	74.0	17.2	18.7

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D)1-18GHz/KHA-04(3160-09)18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK- 1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2406MHz)
Remarks : Low Power mode
Date : 10/7/2003
Test Distance : 3 m
Temperature : 24 ℃
Humidity : 67 %
Regulation : FCC Part15C §15.209(AV Detection)

Engineer : Ichiro Isozaki

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.	2390.00	BB	30.7	30.7	29.0	34.7	4.1	10.0	39.1	39.1	54.0	14.9	14.9
2.	4024.00	BB	44.8	34.0	31.5	34.1	5.4	0.7	48.3	37.5	54.0	5.7	16.5
3.	4812.00	BB	28.7	28.6	32.9	34.1	5.6	0.6	33.7	33.6	54.0	20.3	20.4
4.	7218.00	BB	29.4	29.5	37.4	34.1	6.5	0.5	39.7	39.8	54.0	14.3	14.2
5.	9624.00	BB	28.3	28.4	39.6	34.4	7.2	0.5	41.2	41.3	54.0	12.8	12.7
6.	12030.00	BB	28.4	28.4	41.8	34.2	8.1	0.5	44.6	44.6	54.0	9.4	9.4
7.	14436.00	BB	27.6	27.7	41.4	32.4	7.4	0.2	44.2	44.3	54.0	9.8	9.7
8.	16842.00	BB	27.5	27.5	40.1	33.3	8.9	0.5	43.7	43.7	54.0	10.3	10.3
9.	19248.00	BB	26.5	27.4	41.4	33.0	9.4	0.0	44.3	45.2	54.0	9.7	8.8
10.	21654.00	BB	27.8	27.9	41.5	33.0	9.8	0.0	46.1	46.2	54.0	7.9	7.8
11.	24060.00	BB	26.8	26.8	39.4	32.2	10.9	0.0	44.9	44.9	54.0	9.1	9.1

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D)1-18GHz/KHA-04(3160-09)18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant	: Sony Corporation
Kind of Equipment	: Wireless Camera Transmitter
Model No.	: WLL-CA55
Serial No.	: 1011
Power	: AC120V/60Hz
Mode	: Transmitting(2442MHz)
Remarks	: Low Power mode
Date	: 10/7/2003
Test Distance	: 3 m
Temperature	: 24 ℃
Humidity	: 67 %
Regulation	: FCC Part15C §15.209(AV Detection)

Engineer : Ichiro Isozaki

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.	4096.00	BB	42.2	35.4	31.6	34.1	5.4	0.7	45.8	39.0	54.0	8.2	15.0
2.	4884.00	BB	28.7	28.6	33.2	34.1	5.6	0.6	34.0	33.9	54.0	20.0	20.1
3.	7326.00	BB	29.4	29.4	37.8	34.2	6.6	0.5	40.1	40.1	54.0	13.9	13.9
4.	9768.00	BB	28.3	28.4	39.7	34.5	7.2	0.6	41.3	41.4	54.0	12.7	12.6
5.	12210.00	BB	28.4	28.5	41.4	34.0	8.1	0.4	44.3	44.4	54.0	9.7	9.6
6.	14652.00	BB	27.7	27.7	41.8	32.7	7.7	0.3	44.8	44.8	54.0	9.2	9.2
7.	17094.00	BB	27.2	27.3	40.7	33.1	8.7	0.6	44.1	44.2	54.0	9.9	9.8
8.	19536.00	BB	26.3	26.3	41.0	33.2	9.5	0.0	43.6	43.6	54.0	10.4	10.4
9.	21978.00	BB	28.3	28.3	41.5	33.0	10.2	0.0	47.0	47.0	54.0	7.0	7.0
10.	24420.00	BB	27.2	27.3	39.7	33.4	10.8	0.0	44.3	44.4	54.0	9.7	9.6

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D) 1-18GHz/KHA-04(3160-09) 18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant	: Sony Corporation
Kind of Equipment	: Wireless Camera Transmitter
Model No.	: WLL-CA55
Serial No.	: 1011
Power	: AC120V/60Hz
Mode	: Transmitting(2466MHz)
Remarks	: Low Power mode
Date	: 10/7/2003
Test Distance	: 3 m
Temperature	: 24 ℃
Humidity	: 67 %
Regulation	: FCC Part15C §15.209(AV Detection)

Engineer : Ichiro Isozaki

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.	2483.50	BB	30.5	30.5	29.3	34.7	4.1	10.0	39.2	39.2	54.0	14.8	14.8
2.	4143.98	BB	38.4	36.5	31.6	34.2	5.5	0.7	42.0	40.1	54.0	12.0	13.9
3.	4932.00	BB	28.6	28.6	33.4	34.0	5.6	0.5	34.1	34.1	54.0	19.9	19.9
4.	7398.00	BB	29.4	29.5	38.1	34.3	6.6	0.5	40.3	40.4	54.0	13.7	13.6
5.	9864.00	BB	28.3	28.3	39.7	34.5	7.2	0.7	41.4	41.4	54.0	12.6	12.6
6.	12330.00	BB	28.5	28.5	41.0	33.9	8.1	0.4	44.1	44.1	54.0	9.9	9.9
7.	14796.00	BB	27.7	27.8	41.9	32.9	8.2	0.5	45.4	45.5	54.0	8.6	8.5
8.	17262.00	BB	26.8	26.8	41.1	33.1	8.4	0.6	43.8	43.8	54.0	10.2	10.2
9.	19728.00	BB	26.7	26.7	41.2	33.4	9.6	0.0	44.1	44.1	54.0	9.9	9.9
10.	22194.00	BB	28.0	28.0	41.4	32.7	10.3	0.0	47.0	47.0	54.0	7.0	7.0
11.	24660.00	BB	27.1	27.1	39.7	33.4	10.9	0.0	44.3	44.3	54.0	9.7	9.7

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D)1-18GHz/KHA-04(3160-09)18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK- 1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2406MHz)
Remarks : Low Power mode
Date : 10/7/2003
Test Distance : 3 m
Temperature : 24 ℃
Humidity : 67 %
Regulation : FCC Part15C §15.209(PK Detection)

Engineer : Ichiro Isozaki

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.	2390.00	BB	42.0	41.6	29.0	34.7	4.1	10.0	50.4	50.0	74.0	23.6	24.0
2.	4024.00	BB	48.8	44.0	31.5	34.1	5.4	0.7	52.3	47.5	74.0	21.7	26.5
3.	4812.00	BB	40.2	41.2	32.9	34.1	5.6	0.6	45.2	46.2	74.0	28.8	27.8
4.	7218.00	BB	41.0	41.2	37.4	34.1	6.5	0.5	51.3	51.5	74.0	22.7	22.5
5.	9624.00	BB	39.5	39.9	39.6	34.4	7.2	0.5	52.4	52.8	74.0	21.6	21.2
6.	12030.00	BB	41.1	40.2	41.8	34.2	8.1	0.5	57.3	56.4	74.0	16.7	17.6
7.	14436.00	BB	39.7	40.0	41.4	32.4	7.4	0.2	56.3	56.6	74.0	17.7	17.4
8.	16842.00	BB	39.1	39.3	40.1	33.3	8.9	0.5	55.3	55.5	74.0	18.7	18.5
9.	19248.00	BB	38.8	38.7	41.4	33.0	9.4	0.0	56.6	56.5	74.0	17.4	17.5
10.	21654.00	BB	38.6	39.7	41.5	33.0	9.8	0.0	56.9	58.0	74.0	17.1	16.0
11.	24060.00	BB	39.3	37.6	39.4	32.2	10.9	0.0	57.4	55.7	74.0	16.6	18.3

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] − AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D)1-18GHz/KHA-04(3160-09)18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK-1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting (2442MHz)
Remarks : Low Power mode
Date : 10/7/2003
Test Distance : 3 m
Temperature : 24 ℃
Humidity : 67 %
Regulation : FCC Part15C §15.209 (PK Detection)

Engineer : Ichiro Isozaki

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.	4096.00	BB	48.1	45.7	31.6	34.1	5.4	0.7	51.7	49.3	74.0	22.3	24.7
2.	4884.00	BB	40.1	41.1	33.2	34.1	5.6	0.6	45.4	46.4	74.0	28.6	27.6
3.	7326.00	BB	42.2	40.5	37.8	34.2	6.6	0.5	52.9	51.2	74.0	21.1	22.8
4.	9768.00	BB	39.9	41.3	39.7	34.5	7.2	0.6	52.9	54.3	74.0	21.1	19.7
5.	12210.00	BB	40.6	40.7	41.4	34.0	8.1	0.4	56.5	56.6	74.0	17.5	17.4
6.	14652.00	BB	49.4	40.2	41.8	32.7	7.7	0.3	66.5	57.3	74.0	7.5	16.7
7.	17094.00	BB	39.4	39.8	40.7	33.1	8.7	0.6	56.3	56.7	74.0	17.7	17.3
8.	19536.00	BB	38.7	38.1	41.0	33.2	9.5	0.0	56.0	55.4	74.0	18.0	18.6
9.	21978.00	BB	40.4	39.3	41.5	33.0	10.2	0.0	59.1	58.0	74.0	14.9	16.0
10.	24420.00	BB	38.8	37.2	39.7	33.4	10.8	0.0	55.9	54.3	74.0	18.1	19.7

CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D) 1-18GHz/KHA-04(3160-09) 18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24BE0112-YK- 1

Applicant : Sony Corporation
Kind of Equipment : Wireless Camera Transmitter
Model No. : WLL-CA55
Serial No. : 1011
Power : AC120V/60Hz
Mode : Transmitting(2466MHz)
Remarks : Low Power mode
Date : 10/7/2003
Test Distance : 3 m
Temperature : 24 ℃
Humidity : 67 %
Regulation : FCC Part15C §15.209(PK Detection)

Engineer : Ichiro Isozaki

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.	2483.50	BB	42.4	42.7	29.3	34.7	4.1	10.0	51.1	51.4	74.0	22.9	22.6
2.	4143.98	BB	45.0	44.1	31.6	34.2	5.5	0.7	48.6	47.7	74.0	25.4	26.3
3.	4932.00	BB	40.6	41.2	33.4	34.0	5.6	0.5	46.1	46.7	74.0	27.9	27.3
4.	7398.00	BB	41.8	41.7	38.1	34.3	6.6	0.5	52.7	52.6	74.0	21.3	21.4
5.	9864.00	BB	39.3	40.8	39.7	34.5	7.2	0.7	52.4	53.9	74.0	21.6	20.1
6.	12330.00	BB	40.5	40.5	41.0	33.9	8.1	0.4	56.1	56.1	74.0	17.9	17.9
7.	14796.00	BB	39.8	40.2	41.9	32.9	8.2	0.5	57.5	57.9	74.0	16.5	16.1
8.	17262.00	BB	38.4	40.0	41.1	33.1	8.4	0.6	55.4	57.0	74.0	18.6	17.0
9.	19728.00	BB	37.3	37.9	41.2	33.4	9.6	0.0	54.7	55.3	74.0	19.3	18.7
10.	22194.00	BB	39.4	39.7	41.4	32.7	10.3	0.0	58.4	58.7	74.0	15.6	15.3
11.	24660.00	BB	38.2	38.0	39.7	33.4	10.9	0.0	55.4	55.2	74.0	18.6	18.8

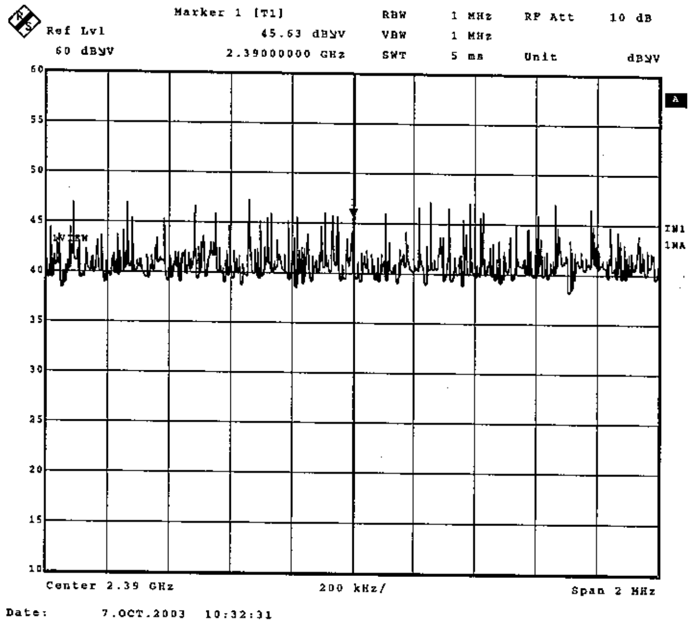
CALCULATION: READING[dBμV] + ANT.FACTOR[dB/m] + CABLE LOSS[dB] - AMP.GAIN[dB] + ATTEN[dB].

■ANTENNA:KHA-02(BBHA9120D)1-18GHz/KHA-04(3160-09)18-26GHz
■AMP:KAF-04(8449B) ■RECEIVER:KTR-01(ESI40) ■CABLE:KCC-D3/D7

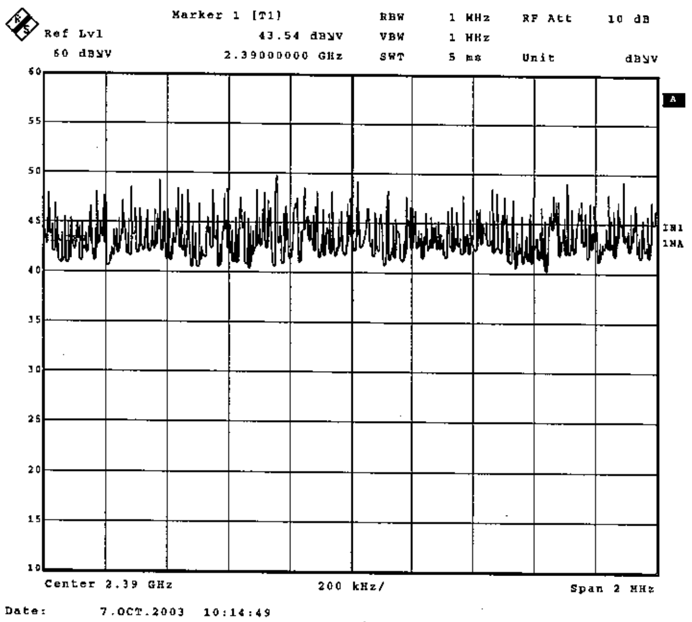
Restricted band edges: FCC 15.247(c)

High Power mode
2.39GHz (Ch 1:2406MHz)

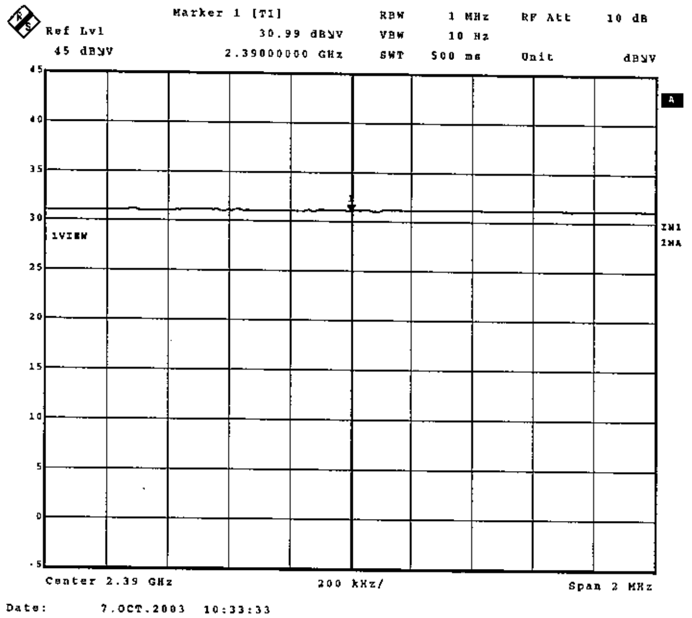
1. Horizontal/ PK



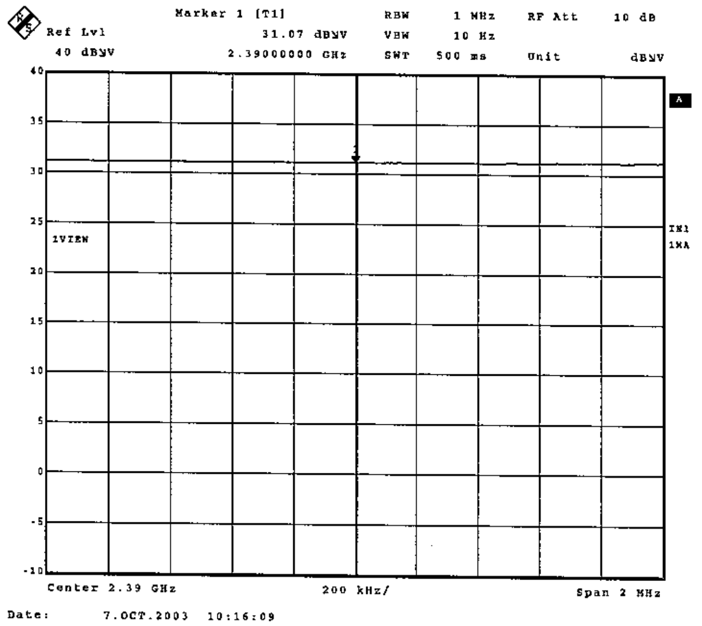
2. Vertical/ PK



3. **Horizontal/ AV**



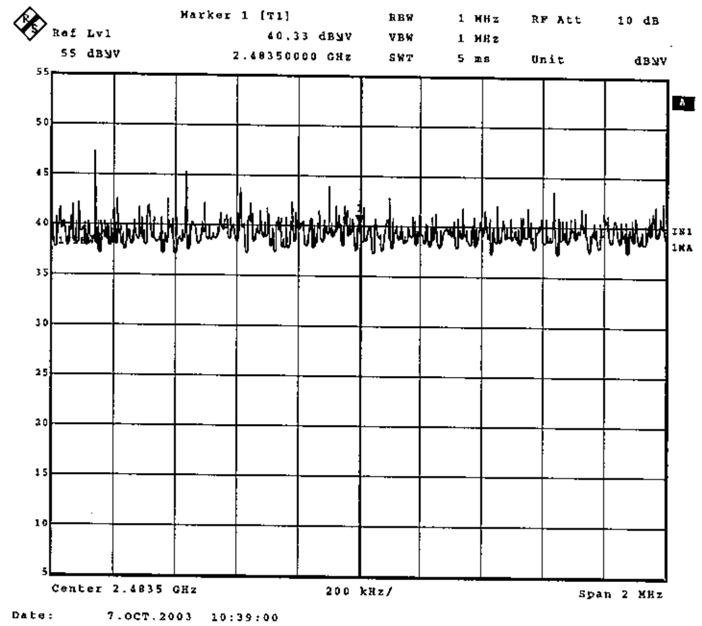
4. **Vertical/ AV**



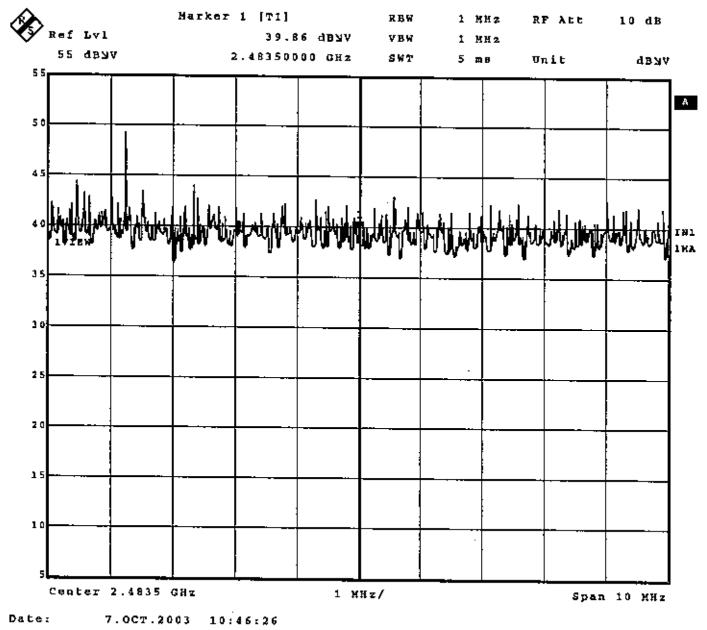
Restricted band edges: FCC 15.247(c)

2.4835GHz (Ch 6:2466MHz)

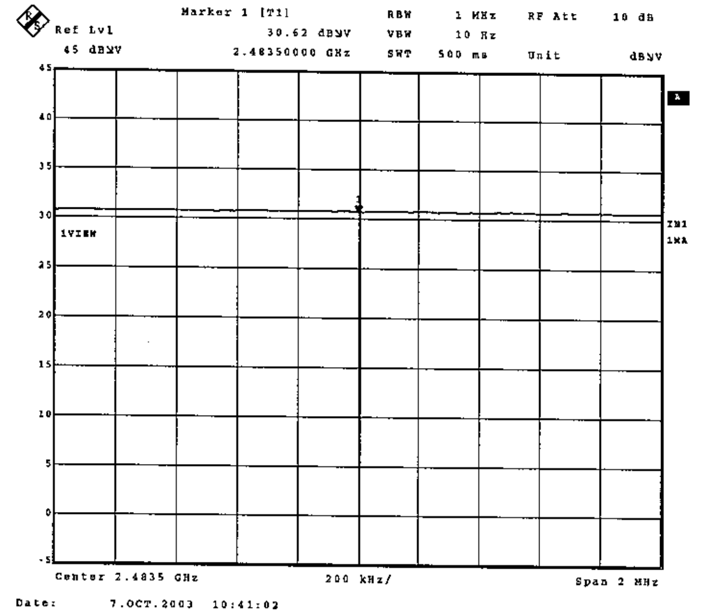
1. **Horizontal/ PK**



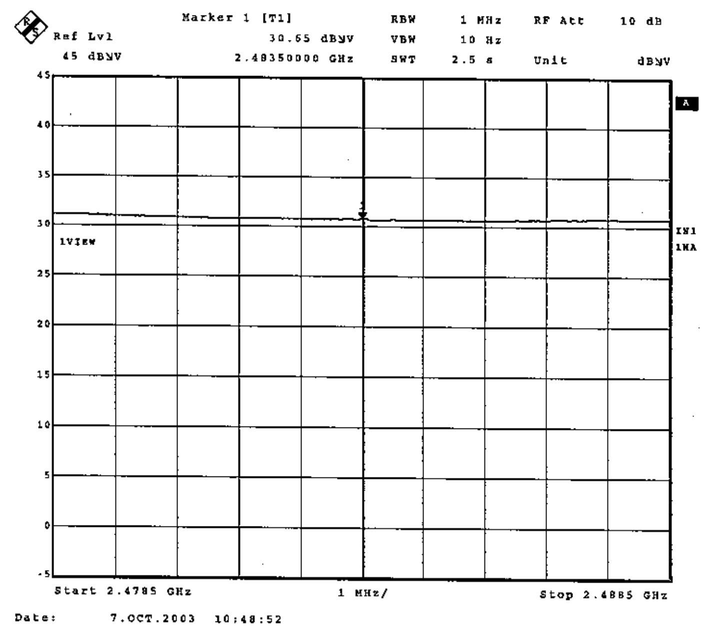
2. **Vertical/ PK**



3. **Horizontal/ AV**



4. **Vertical/ AV**

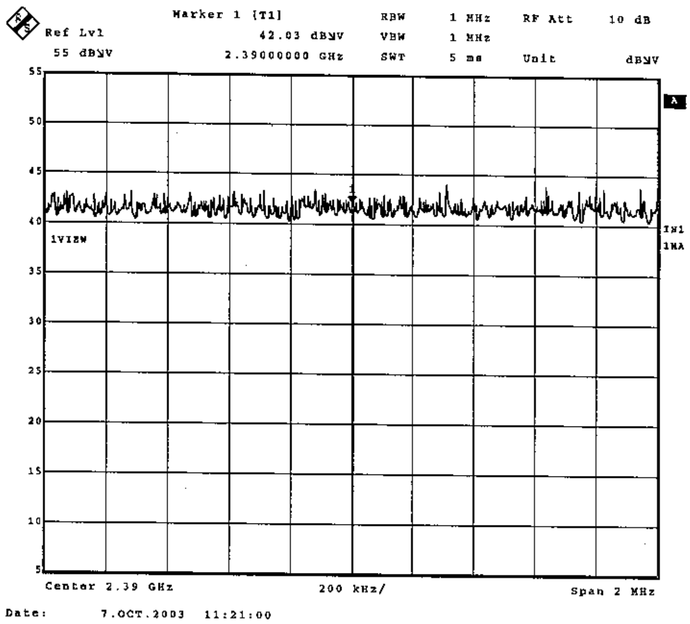


Restricted band edges: FCC 15.247(c)

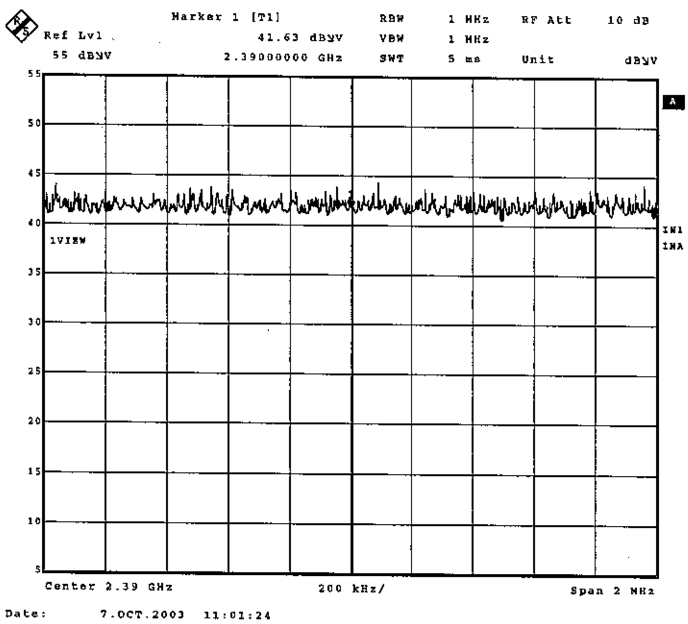
FCC ID: AK8WLLCA55
Job No: 24BE0112-YK-1

Low Power mode
2.39GHz (Ch 1:2406MHz)

1. **Horizontal/ PK**

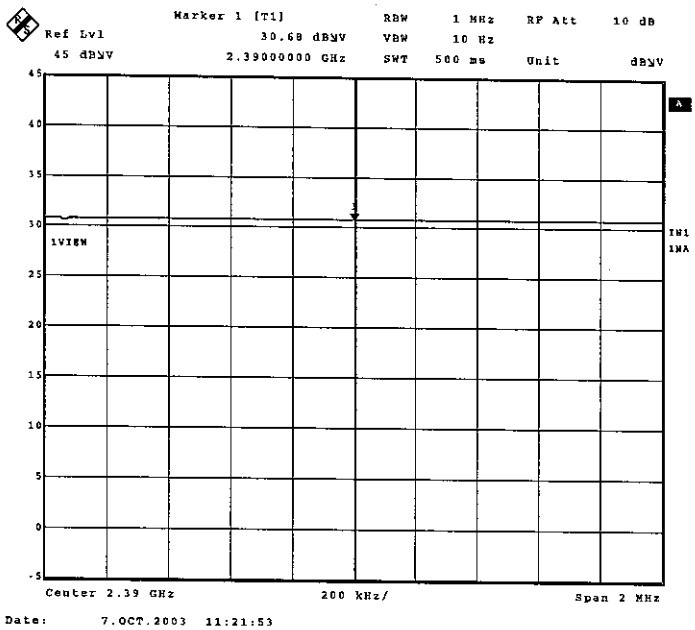


2. **Vertical/ PK**

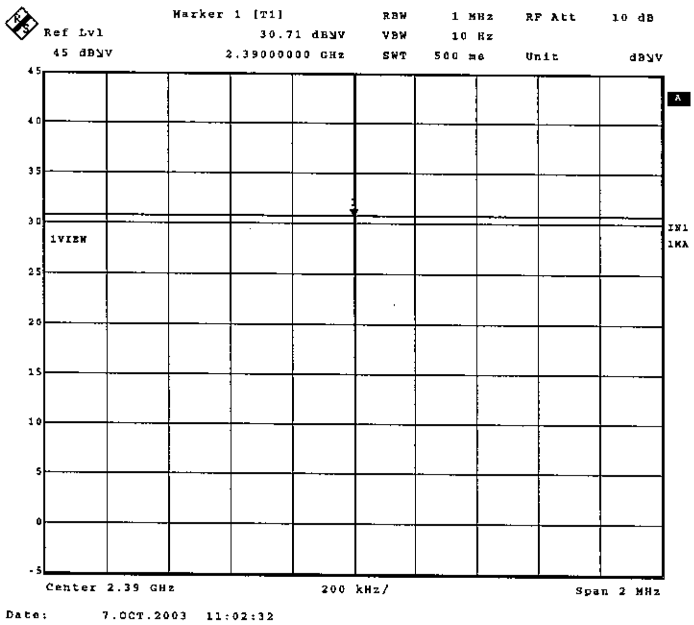


I. Iwazaki

3. Horizontal/ AV



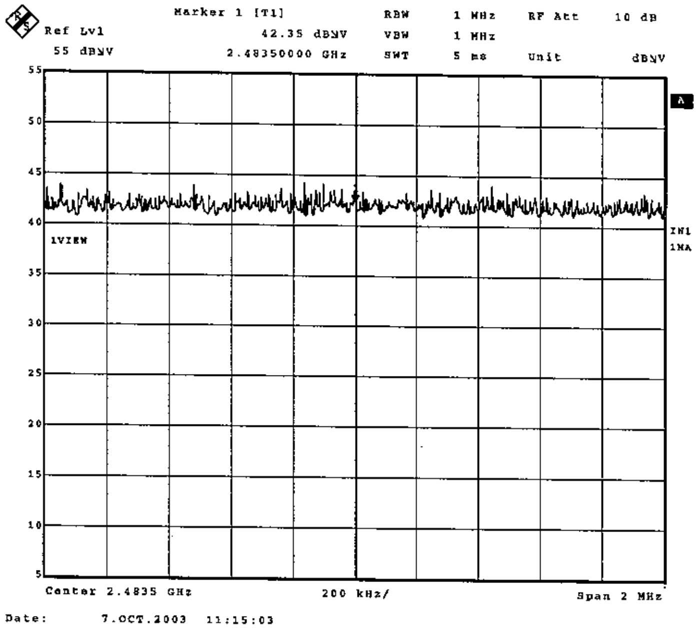
5. Vertical/ AV



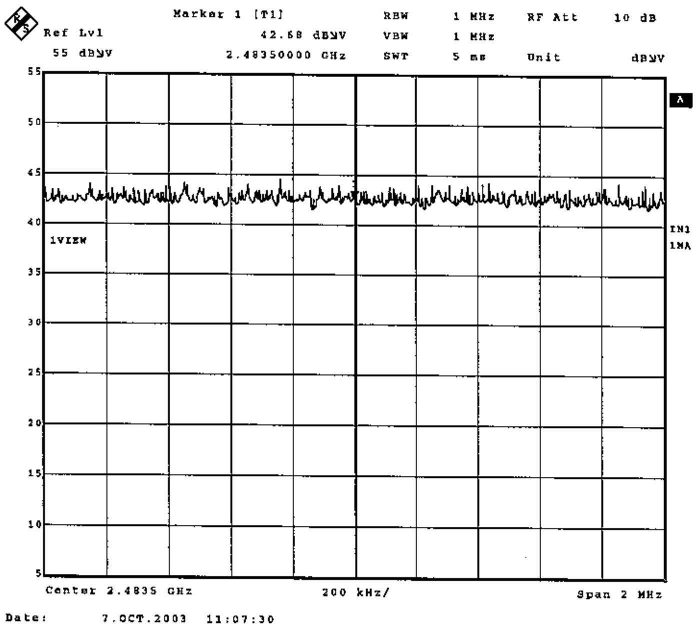
Restricted band edges: FCC 15.247(c)

<u>**2.4835GHz (Ch 6:2466MHz)**</u>

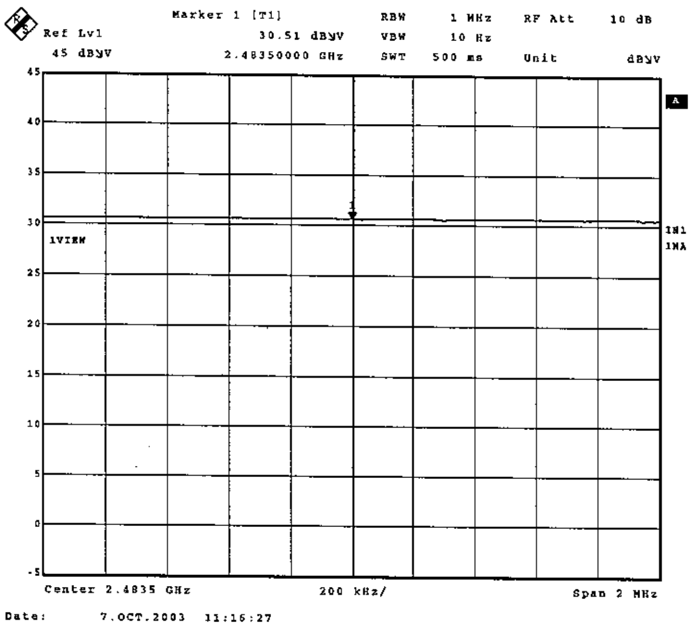
1. **Horizontal/ PK**



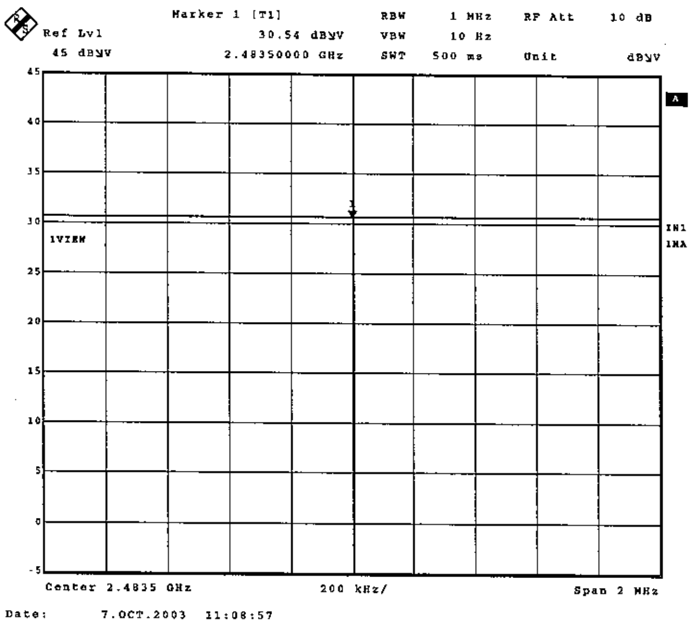
2. **Vertical/ PK**



3. **Horizontal/ AV**



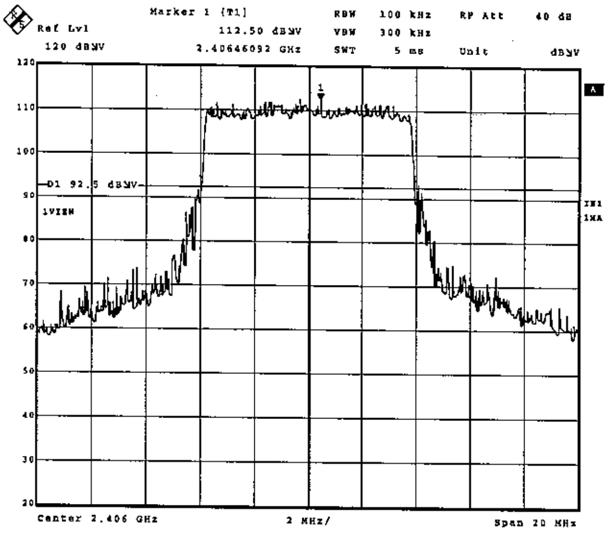
4. **Vertical/ AV**



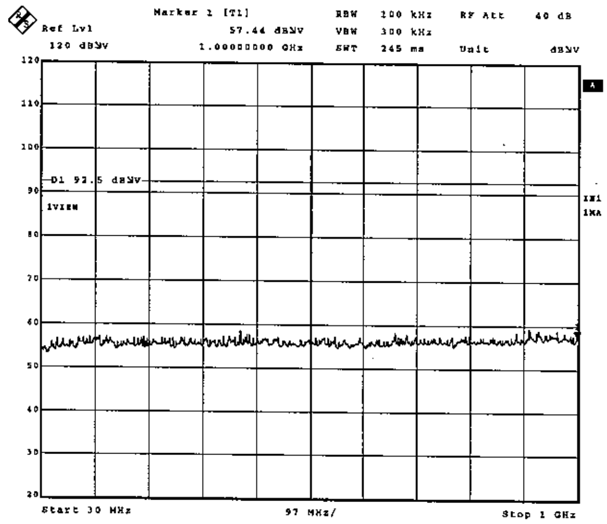
Out of Band Emissions (Conducted): FCC 15.247(c)

High Power mode
Ch 1: 2406MHz

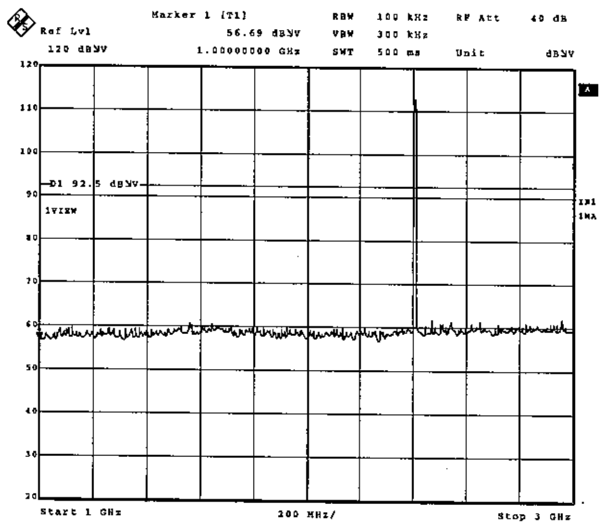
1.



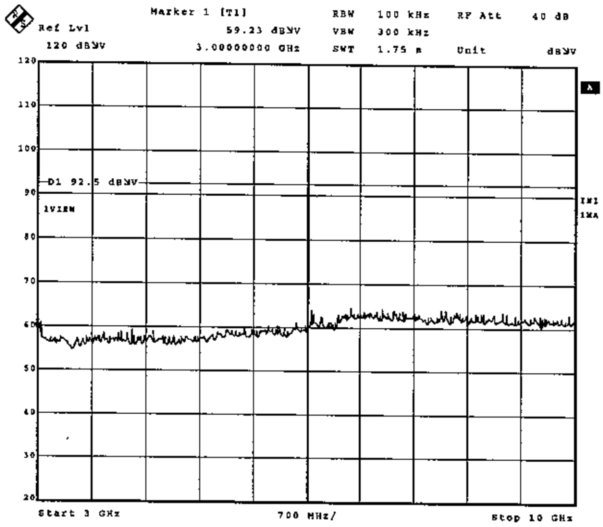
2.



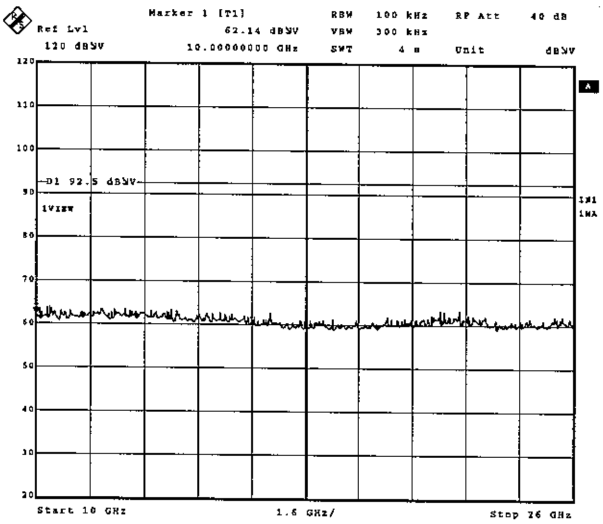
3.



4.


Marker 1 [T1]
59.23 dBµV
3.00000000 GHz
Ref Lvl
120 dBµV
RBW 100 kHz
VBW 300 kHz
SWT 1.75 s
RF Att 40 dB
Unit dBµV
D1 92.5 dBµV
1VIEW
1SA
1MA
Start 3 GHz
700 MHz/
Stop 10 GHz

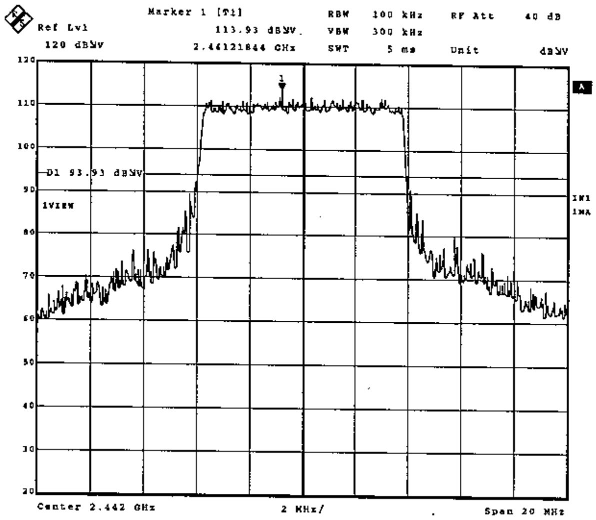
5.


Marker 1 [T1]
62.14 dBµV
10.00000000 GHz
Ref Lvl
120 dBµV
RBW 100 kHz
VBW 300 kHz
SWT 4 s
RF Att 40 dB
Unit dBµV
D1 92.5 dBµV
1VIEW
1SA
1MA
Start 10 GHz
1.6 GHz/
Stop 26 GHz

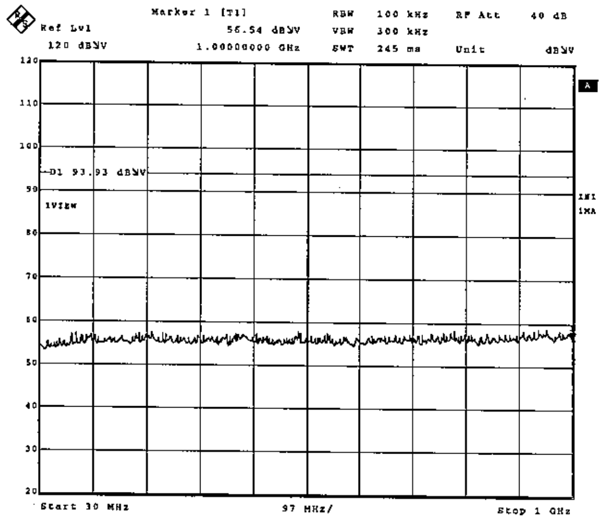
Out of Band Emissions (Conducted): FCC 15.247(c)

Ch 4: 2442MHz

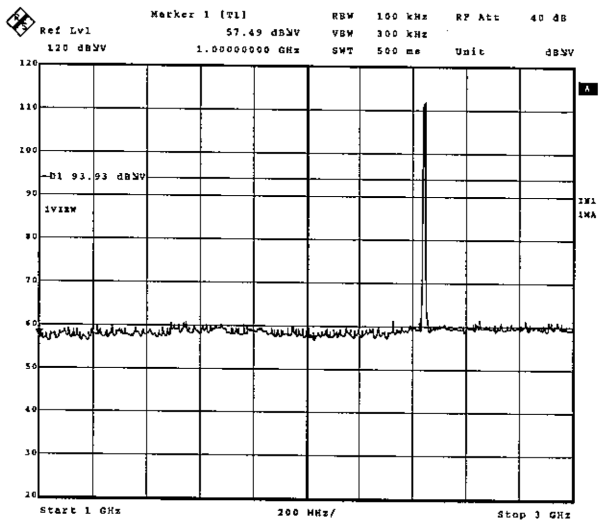
1.



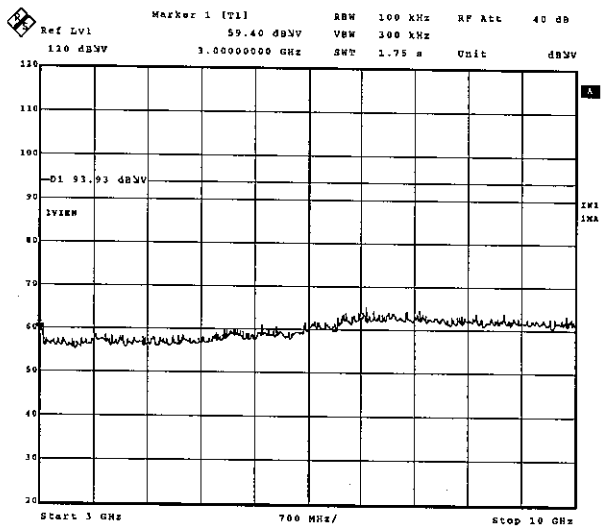
2.



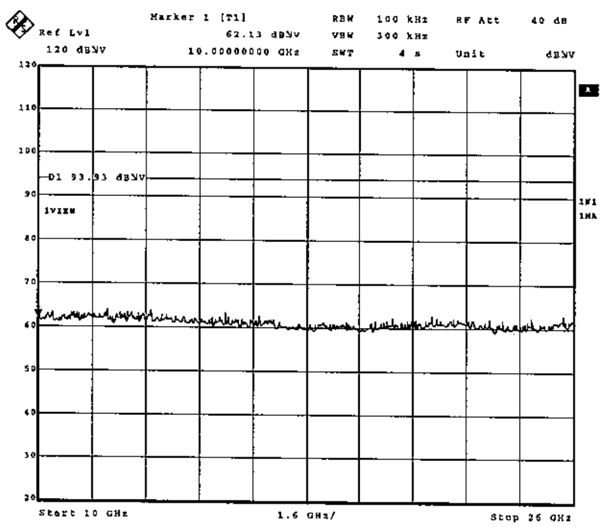
3.



4.


Marker 1 [T1]
59.40 dBµV
3.00000000 GHz
Ref Lvl
120 dBµV
RBW 100 kHz
VBW 300 kHz
SWT 1.75 s
RF Att 40 dB
Unit dBµV
D1 93.93 dBµV
Start 3 GHz
700 MHz/
Stop 10 GHz

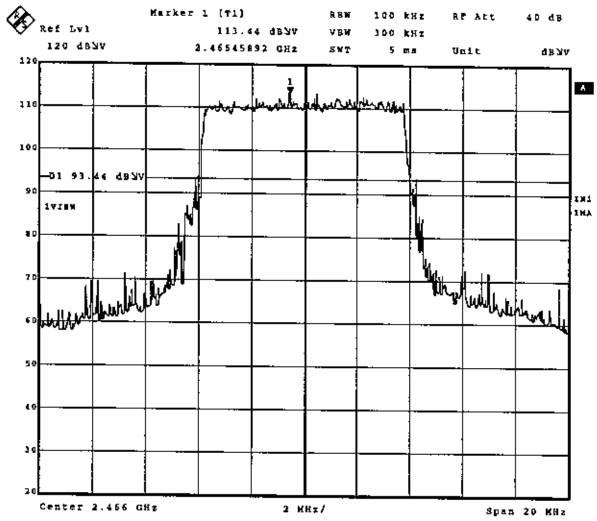
5.


Marker 1 [T1]
62.13 dBµV
10.00000000 GHz
Ref Lvl
120 dBµV
RBW 100 kHz
VBW 300 kHz
SWT 4 s
RF Att 40 dB
Unit dBµV
D1 93.93 dBµV
Start 10 GHz
1.6 GHz/
Stop 26 GHz

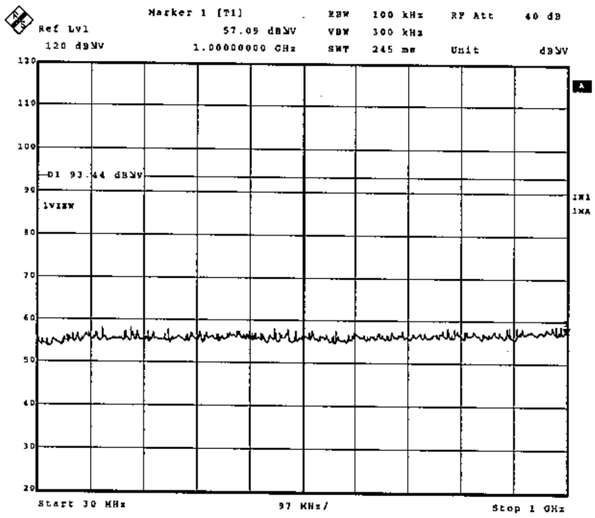
Out of Band Emissions (Conducted): FCC 15.247(c)

Ch 6: 2466MHz

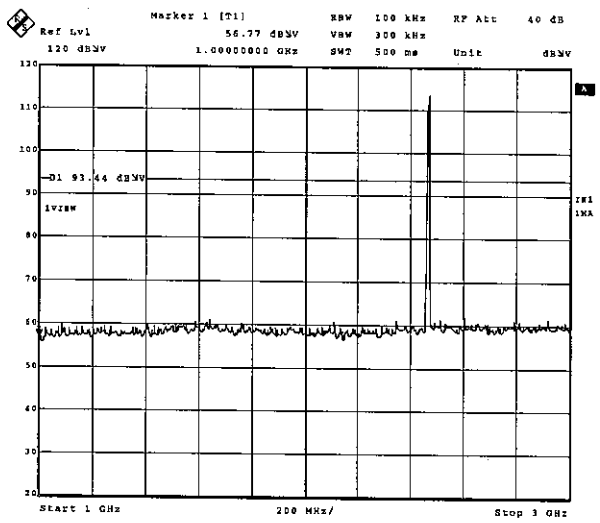
1.



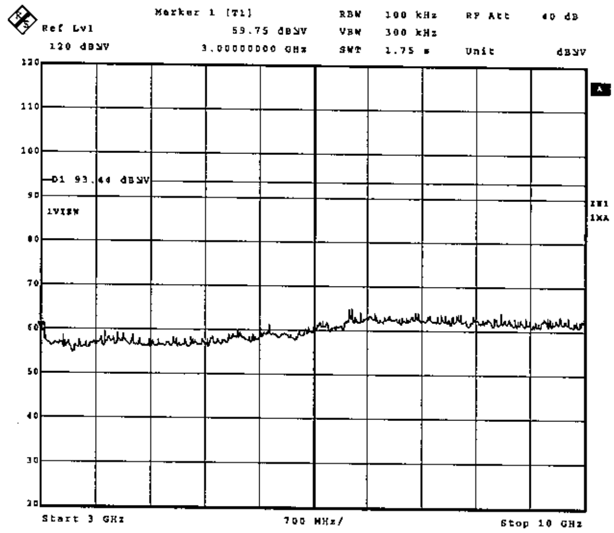
2.



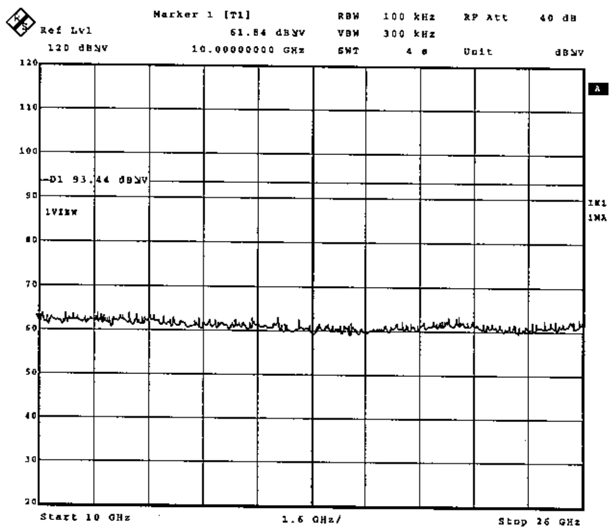
3.



4.


Ref Lvl
120 dBµV
Marker 1 [T1]
59.75 dBµV
3.00000000 GHz
RBW 100 kHz
VBW 300 kHz
SWT 1.75 s
RF Att 40 dB
Unit dBµV
D1 93.44 dBµV
1VIEW
Start 3 GHz
700 MHz/
Stop 10 GHz

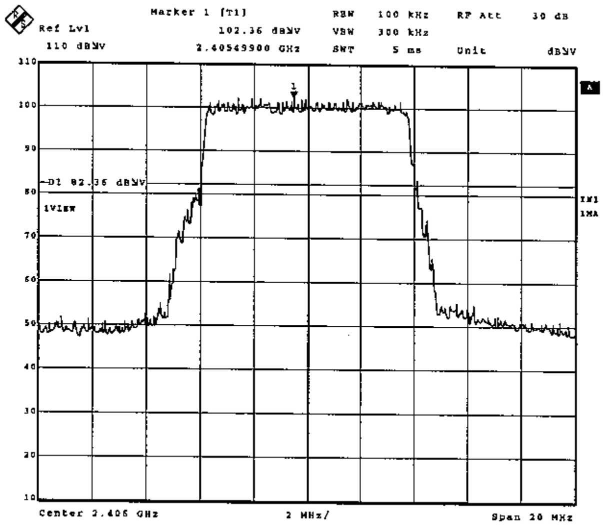
5.


Ref Lvl
120 dBµV
Marker 1 [T1]
61.84 dBµV
10.00000000 GHz
RBW 100 kHz
VBW 300 kHz
SWT 4 s
RF Att 40 dB
Unit dBµV
D1 93.44 dBµV
1VIEW
Start 10 GHz
1.6 GHz/
Stop 26 GHz

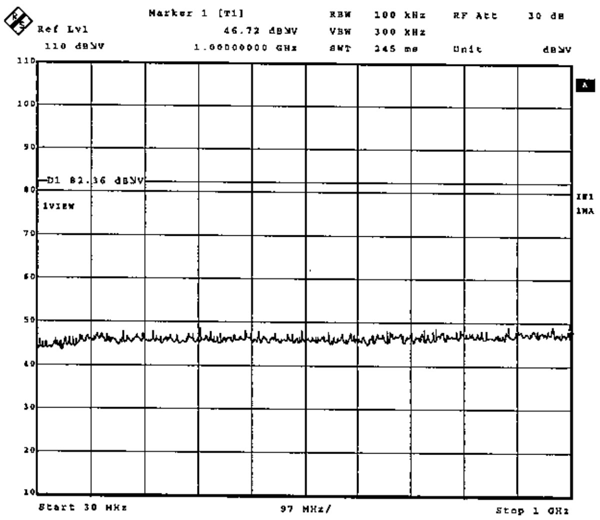
Out of Band Emissions (Conducted): FCC 15.247(c)

Low Power mode
Ch 1: 2406MHz

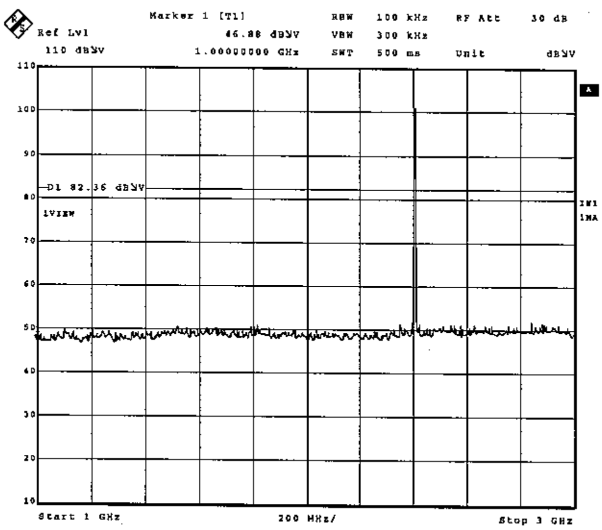
1.



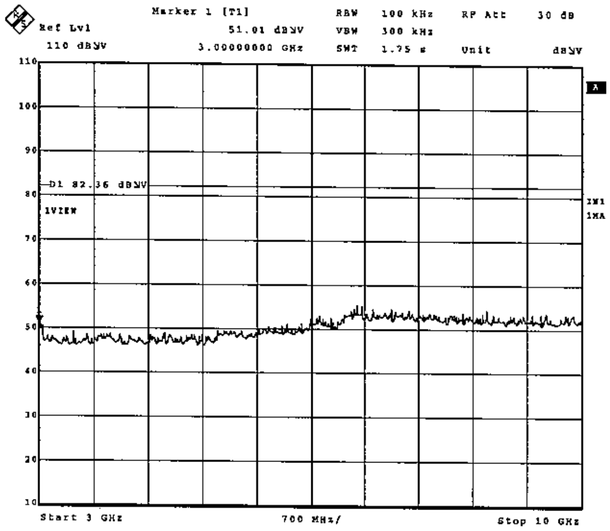
2.



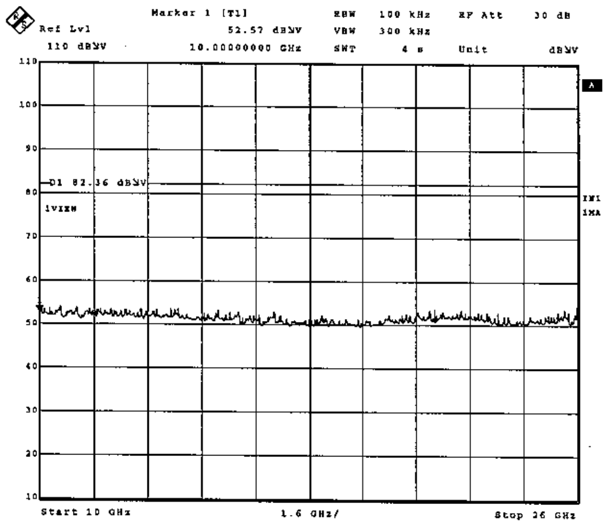
3.



4.


Marker 1 [T1]
51.01 dBµV
3.00000000 GHz
RBW 100 kHz
VBW 300 kHz
SWT 1.75 s
RF Att 30 dB
Unit dBµV
Ref Lvl
110 dBµV
D1 82.36 dBµV
1VIEW
Start 3 GHz
700 MHz/
Stop 10 GHz

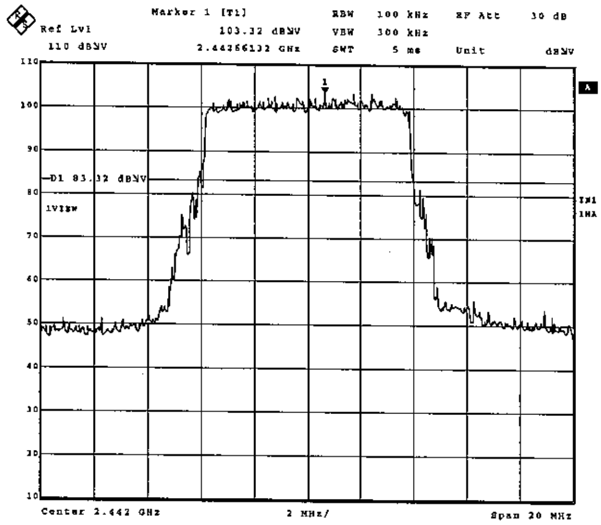
5.


Marker 1 [T1]
52.57 dBµV
10.00000000 GHz
RBW 100 kHz
VBW 300 kHz
SWT 4 s
RF Att 30 dB
Unit dBµV
Ref Lvl
110 dBµV
D1 82.36 dBµV
1VIEW
Start 10 GHz
1.6 GHz/
Stop 26 GHz

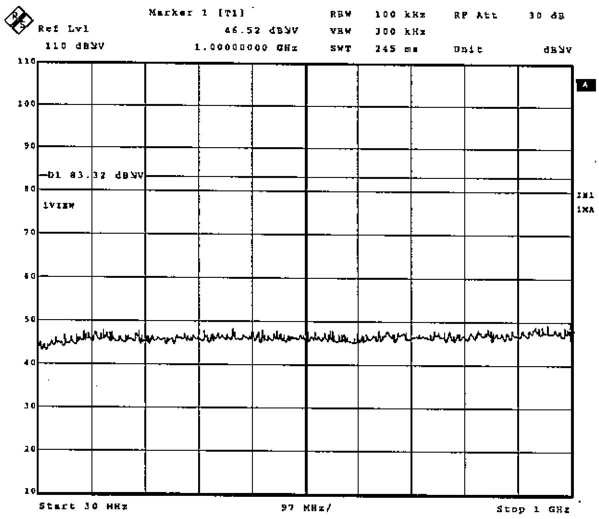
Out of Band Emissions (Conducted): FCC 15.247(c)

Ch 4: 2442MHz

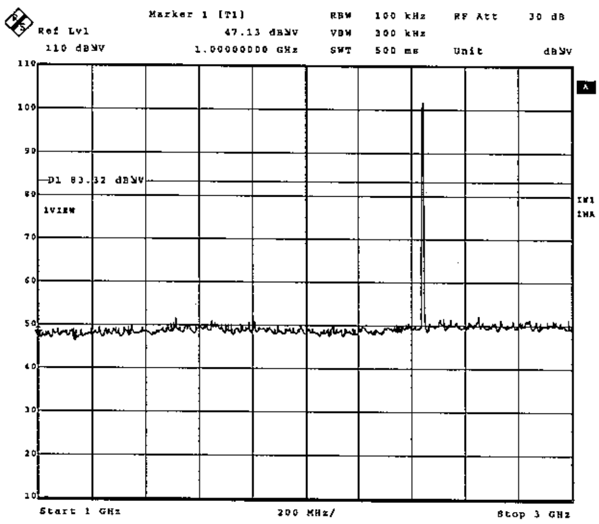
1.



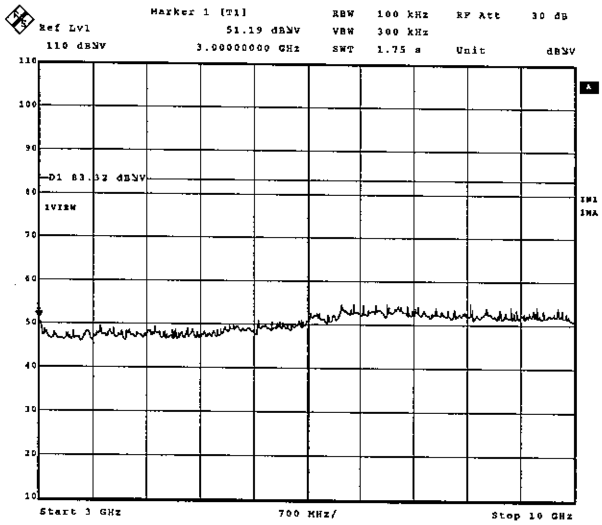
2.



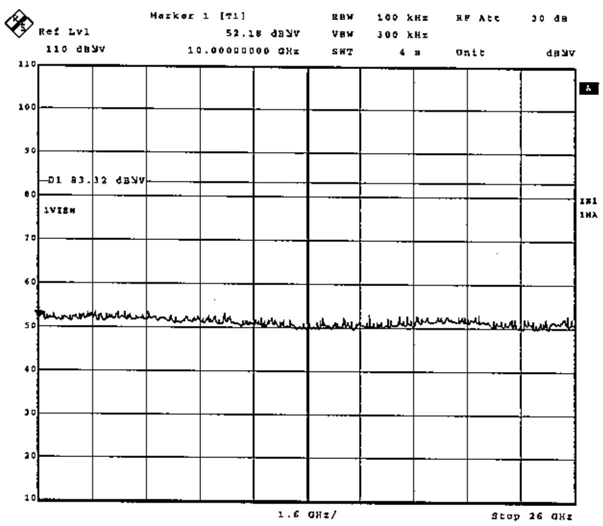
3.



4.


Ref Lvl
110 dBµV
Marker 1 [T1]
51.19 dBµV
3.00000000 GHz
RBW 100 kHz
VBW 300 kHz
SWT 1.75 s
RF Att 30 dB
Unit dBµV
D1 83.32 dBµV
1VIEW
Start 3 GHz
700 MHz/
Stop 10 GHz

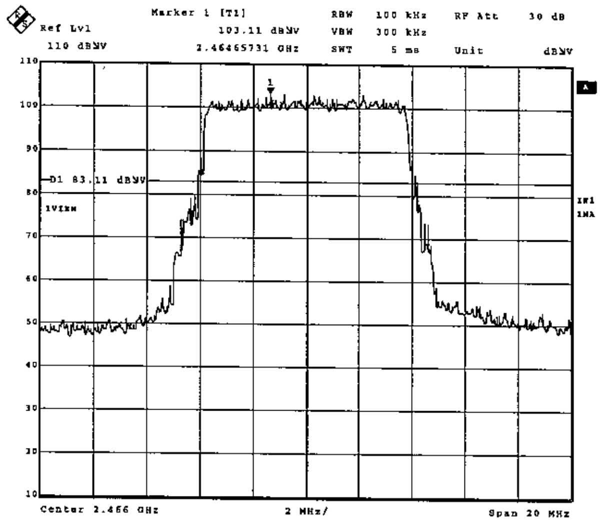
5.


Ref Lvl
110 dBµV
Marker 1 [T1]
52.18 dBµV
10.00000000 GHz
RBW 100 kHz
VBW 300 kHz
SWT 4 s
RF Att 30 dB
Unit dBµV
D1 83.32 dBµV
1VIEW
1.6 GHz/
Stop 26 GHz

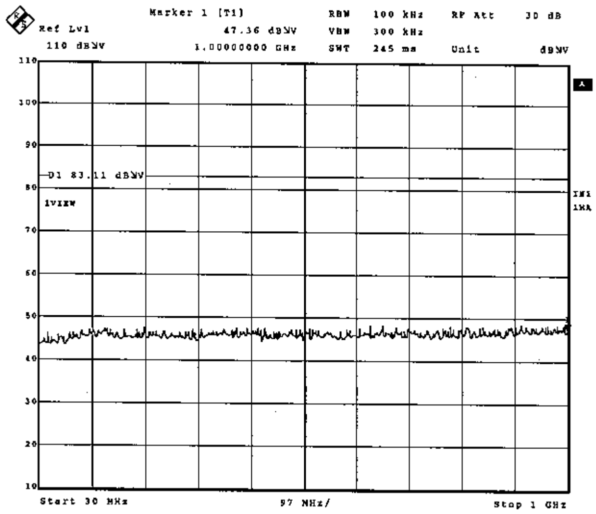
Out of Band Emissions (Conducted): FCC 15.247(c)

Ch 6: 2466MHz

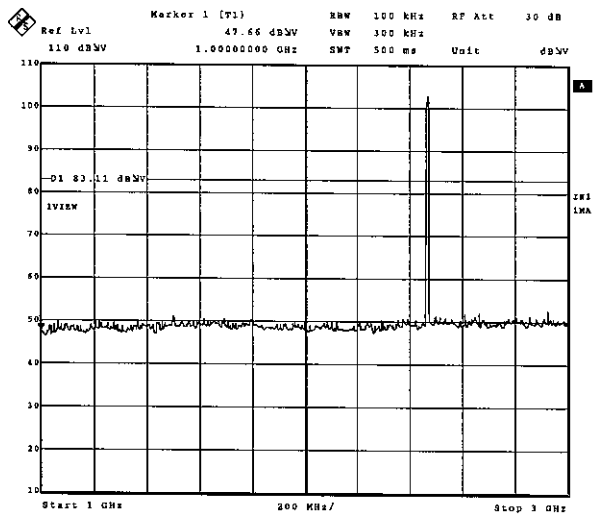
1.



2.

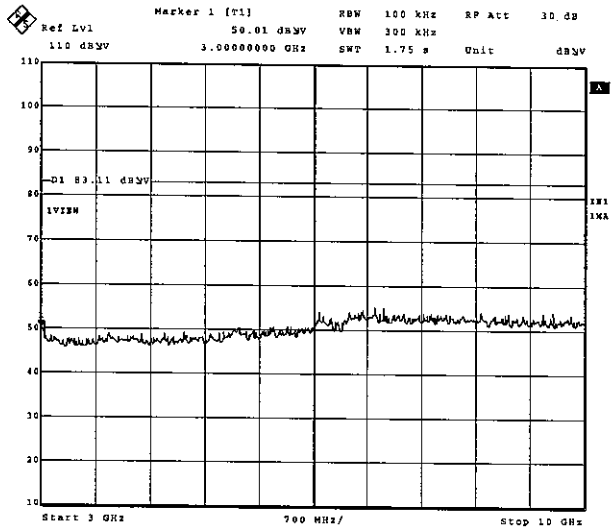


3.

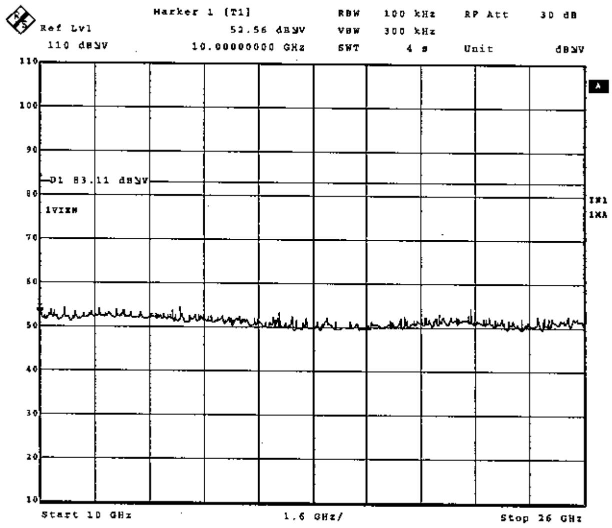


I. Isozaki

4.


Marker 1 [T1]
Ref Lvl
110 dBµV
50.01 dBµV
3.00000000 GHz
RBW 100 kHz
VBW 300 kHz
SWT 1.75 s
RF Att 30 dB
Unit dBµV
D1 83.11 dBµV
1VIEW
Start 3 GHz
700 MHz/
Stop 10 GHz

5.


Marker 1 [T1]
Ref Lvl
110 dBµV
52.56 dBµV
10.00000000 GHz
RBW 100 kHz
VBW 300 kHz
SWT 4 s
RF Att 30 dB
Unit dBµV
D1 83.11 dBµV
1VIEW
Start 10 GHz
1.6 GHz/
Stop 26 GHz

Power Density(Conducted)

UL Apex Co., Ltd.
YAMAKITA EMC No.4 Shielded Room

COMPANY : Sony Coroporation
EQUIPMENT : Wireless Camera Transmitter
MODEL : WLL-CA55
FCC ID : AK8WLLCA55
POWER : AC120V/60Hz
Mode : Transmitting

REPORT NO : 24BE0112-YK-1
REGULATION : Fcc Part15SubpartC 247(d)
DATE : 2003/ 10/06
Temp./Humi. : 23℃/56%

ENGINEER : Ichiro Isozaki

1.High Power Mode

CH	FREQ [GHz]	S/A Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit [dBm]	MARGIN [dB]
Low	2.405739	-9.47	0.7	-8.77	8.0	16.8
Mid	2.440830	-8.93	0.7	-8.23	8.0	16.2
High	2.465384	-9.10	0.7	-8.4	8.0	16.4

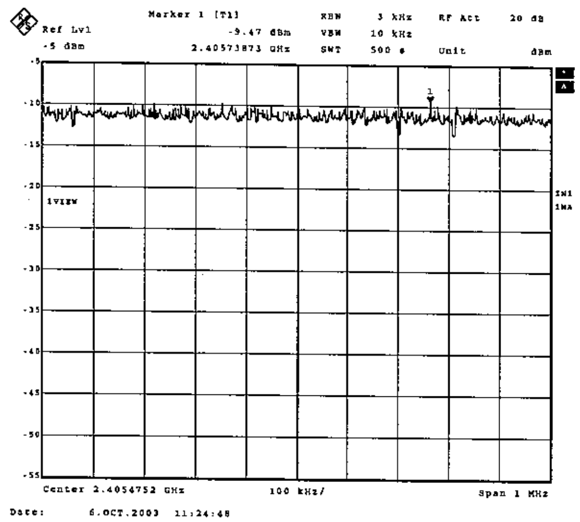
2.Low Power Mode

CH	FREQ [GHz]	S/A Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit [dBm]	MARGIN [dB]
Low	2.406611	-20.04	0.7	-19.34	8.0	27.3
Mid	2.441272	-20.18	0.7	-19.48	8.0	27.5
High	2.467387	-19.41	0.7	-18.71	8.0	26.7

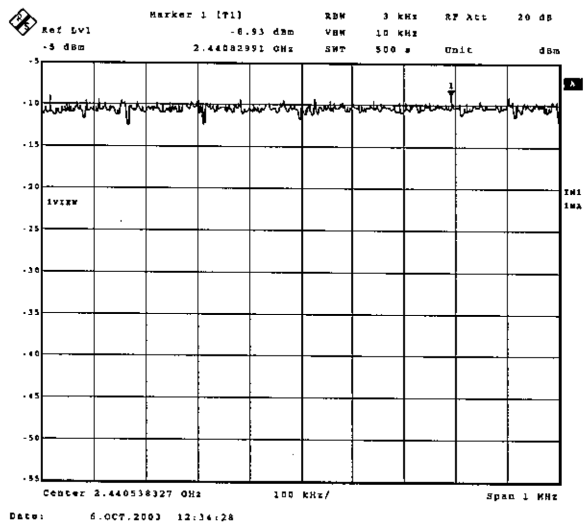
Power Density: FCC 15.247(d)

High Power mode

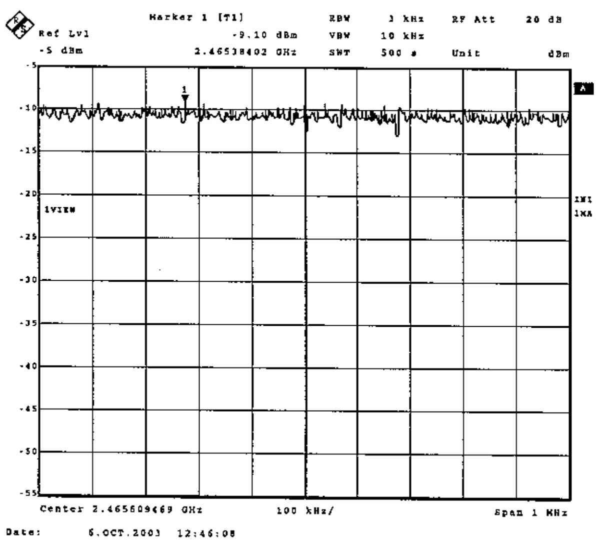
1. **ch 1: 2406MHz**



2. **ch 4: 2442MHz**

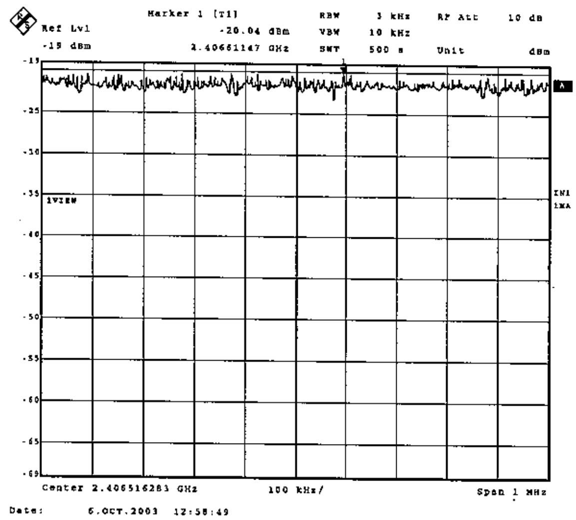


3. **ch 6: 2466MHz**

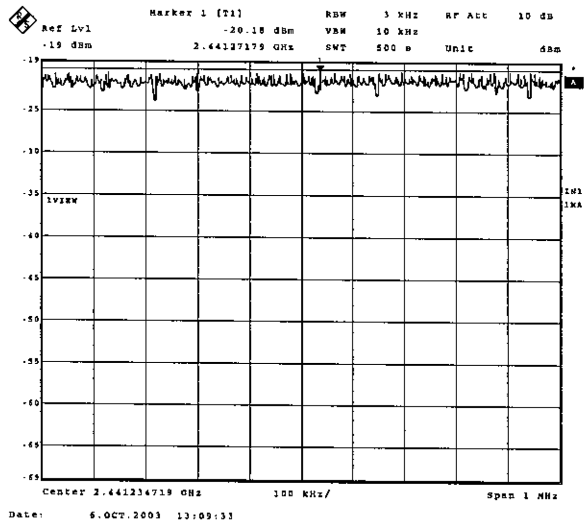


Power Density: FCC 15.247(d)

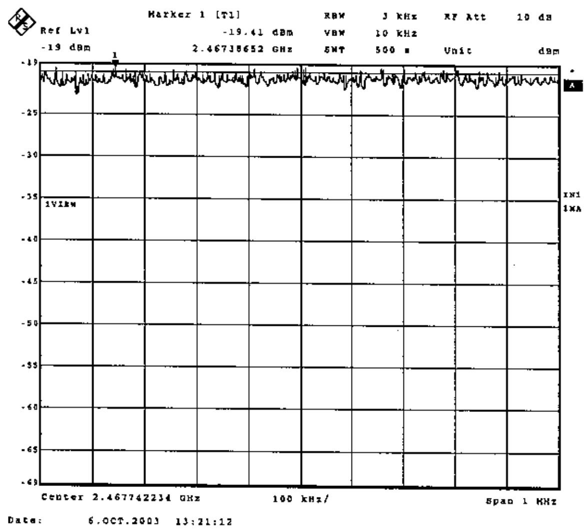
1. **ch 1: 2406MHz**



2. **ch 4: 2442MHz**



3. **ch 6: 2466MHz**



Test Report No :24BE0112-YK-1

APPENDIX 3
Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
KAF-03	Pre Amplifier	Hewlett Packard	8447D	RE	2003/09/17 * 12
KAF-04	Pre Amplifier	Agilent	8449B	RE	2003/05/08 * 12
KAT10-S1	Attenuator	Agilent	8449D 010	RE/AT	2003/04/18 * 12
KAT6-03	Attenuator	INMET	18N-6dB	RE	2003/05/12 * 12
KBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2003/08/11 * 12
KCC-20/21/22/23/29	Coaxial Cable	Fujikura/Suhner	8D-2W/12D-SFA/S04272B/S04272B	RE	2003/09/19 * 12
KCC-24/25/26/28	Coaxial Cable	Fujikura/Suhner	5D-2W/5D-2W/S04272B/S04272B	CE	2003/09/19 * 12
KCC-D3/D7	Coaxial Cable	Rosenberger/Advantest	2201/JUN-08-01-061	RE	2003/04/18 * 12
KFL-01	Highpass Filter	Hewlett Packard	84300 80038	RE	2003/04/18 * 12
KHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2003/08/11 * 12
KHA-04	Horn Antenna	EMCO	3160-09	RE	2003/04/23 * 12
KLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2003/08/11 * 12
KLS-05	LISN(AMN)	Schwarzbeck	NSLK8126	CE	2003/09/19 * 12
KOTS-02	Open Test Site	JSE	10m	RE	2003/08/12 * 12
KPM-05	Power meter	Agilent	E4417A	AT	2003/02/17 * 12
KPSS-01	Power sensor	Agilent	E9327A	AT	2003/02/21 * 12
KSA-02	Spectrum Analyzer	Advantest	R3265A	CE/RE	2002/11/29 * 12
KTR-01	Test Receiver	Rohde & Schwarz	ESI40	CE/RE/AT	2003/07/25 * 12
KTR-03	Test Receiver	Rohde & Schwarz	ESHS10	CE	2003/05/15 * 12
KCC-D7	Coaxial Cable	Advantest	A01002	AT	2003/01/07 * 12

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

Test Item:

CE: Conducted emission test,
RE: Radiated emission test,
AT: Antenna terminal conducted test