

***FCC Part 15 Subpart C***  
***EMI TEST REPORT***  
*of*

E.U.T. : 2.4GHz Wireless Video Camera

FCC ID. : PE8-YK24G-01

MODEL : YK-2xxW/YK-5xxW

Working Frequency : 2400MHz ~ 2483.5MHz

*for*

APPLICANT : YOKO Technology Corp.

ADDRESS : 6FL, NO.10, LANE 16, SEC 2, SZE CHUAN RD.  
PANCHIAO CITY, TAIPEI HSIEN, TAIWAN,  
R.O.C.

Test Performed by

**ELECTRONICS TESTING CENTER, TAIWAN**  
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Report Number : ET89S-08-204-01

## TEST REPORT CERTIFICATION

Applicant : YOKO Technology Corp.  
6FL, NO.10, LANE 16, SEC 2, SZE CHUAN RD. PANCHIAO CITY,  
TAIPEI HSIEN, TAIWAN, R.O.C.

Manufacturer : YOKO Technology Corp.  
6FL, NO.10, LANE 16, SEC 2, SZE CHUAN RD. PANCHIAO CITY,  
TAIPEI HSIEN, TAIWAN, R.O.C.

Description of EUT :

a) Type of EUT : 2.4GHz Wireless Video Camera  
b) Trade Name : YOKO  
c) Model No. : YK-2xxW/YK-5xxW  
d) FCC ID : PE8-YK24G-01  
e) Working Frequency : 2400MHz~2483.5MHz  
f) Power Supply : Adapter I/P AC 120V/60Hz, O/P DC 12V

Regulation Applied : FCC Rules and Regulations Part 15 Subpart C (1999)

I HEREBY CERTIFY THAT; The data shown in this report were made in accordance with the procedures given in ANSI C63.4 and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note : 1. The results of the testing report relate only to the items tested.  
2. The testing report shall not be reproduced except in full, without the written approval of ETC.

Test Date : Sep. 22, 2000

Test Engineer : Rick Hu

Approve & Authorized  
Signer :

Win-Po Tsai

Win-Po Tsai, Supervisor, NVLAP Signatory  
EMC Dept. of ELECTRONICS  
TESTING CENTER, TAIWAN

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## 1. GENERAL INFORMATION

### 1.1 Product Description

a) Type of EUT	: 2.4GHz Wireless Video Camera
b) Trade Name	: YOKO
c) Model No.	: YK-2xxW/YK-5xxW
d) FCC ID	: PE8-YK24G-01
e) Working Frequency	: 2400MHz~2483.5MHz
f) Power Supply	: Adapter I/P AC 120V/60Hz, O/P DC 12V

### 1.2 Characteristics of Device:

Transmitter: Ch1:2.413GHz, Ch2:2.432GHz, Ch3:2.451GHz, Ch4:2.470GHz

Tuning: Phase Lock Loop

A bright Power ON LED indicator lights and means that the unit is operating. The channel could be changed by selecting the Channel Selector Slide Switch on the front panel of PATCH antenna. Direct the PATCH antenna to the Receiver's point of area where the choices of location user wish to put.

Adapter: ELEC/YAD1200400CR, I/P 120VAC 60Hz, O/P 12VDC 400mA

### 1.3 Test Methodology

Radiated testing were performed according to the procedures in chapter 13 of ANSI C63.4. The 2.4GHz Wireless Video Camera under test was operated continuously in its normal operating mode for the purpose of the measurements.

The receiving antenna was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the field strength meter or on the display of the spectrum analyzer. And also, each emission was to be maximized by changing the orientation of the 2.4GHz Wireless Video Camera under test.

### 1.4 Test Facility

The semi-anechoic chamber and conducted measurement facility used to collect the radiated and conducted data are located inside the Building at No.8, Lane 29, Wen-ming Road, Lo-shan Tsun, Kweishan Hsiang, Taoyuan, Taiwan, R.O.C.  
This site has been accreditation as a FCC filing site.

## 2. DEFINITION AND LIMITS

### 2.1 Definition

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

### 2.2 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.25
0.495 - 0.505 **	16.69475 - 16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425 - 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475 - 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3360-4400	Above 38.6
13.36-13.41			

Remark “\*\*”: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

### 2.3 Limitation

#### (1) Conducted Emission Limits :

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the conducted limit is the following:

Frequency ( MHz )	Emission ( $\mu$ V )	Emission ( dB $\mu$ V )
0.45 - 30.0	250	48.0

**(2) Radiated Emission Limits :**

According to 15.249(a), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Frequency Band (MHz)	Field strength of Fundamental (mV/m)	Field strength of harmonics (mV/m)
2400 – 2483.5	50 (= 94.0dBuV/m)	500 (= 114dBuV/m)

\*Average detector

According to 15.249(c), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limites in 15.209 (as following table), whichever is the lesser attenuation.

Other Frequencies (MHz)	Field Strength of Fundamental	
	$\mu\text{V}/\text{meter}$	$\text{dB}\mu\text{V}/\text{meter}$
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

## **2.4 Labeling Requirement**

The device shall bear the following statement in a conspicuous location on the device :

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## **2.5 User Information**

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **3. RADIATED EMISSION MEASUREMENT**

#### **3.1 Applicable Standard**

According to 15.249(a) and (c).

#### **3.2 Measurement Procedure**

1. Setup the configuration per figure 1 and 2 for frequencies measured below and above 1 GHz respectively. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a semi-anechoic chamber to determine the accurate frequencies of higher emissions and then each selected frequency is precisely measured. As the same purpose, for emission measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.
7. Check the three frequencies of highest emission with varying the placement of cables (if any) associated with EUT to obtain the worse case and record the result.



Figure 1 : Frequencies measured below 1 GHz configuration

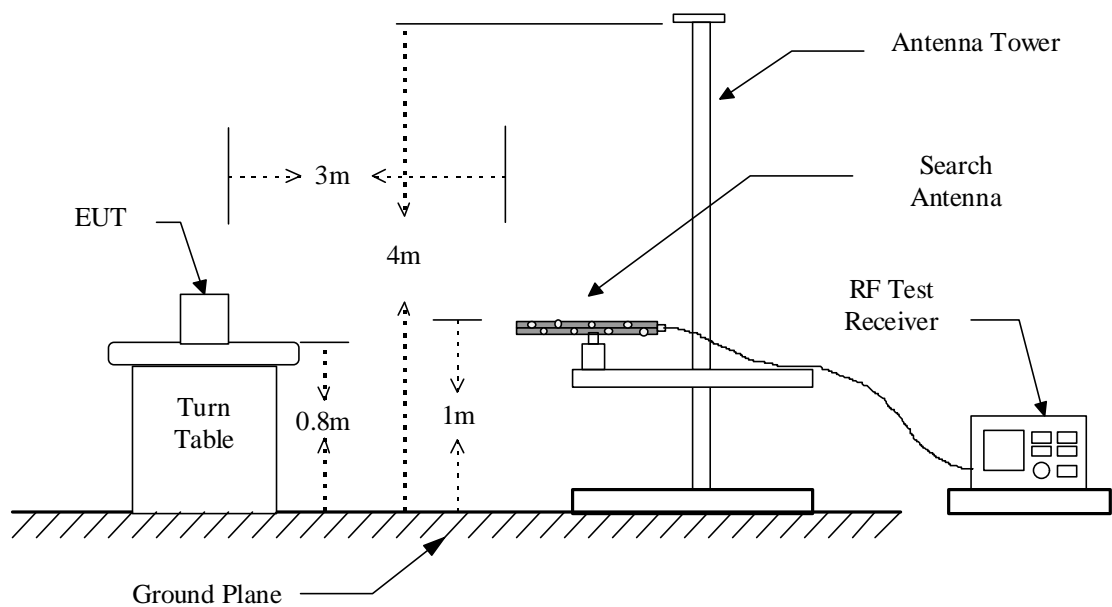
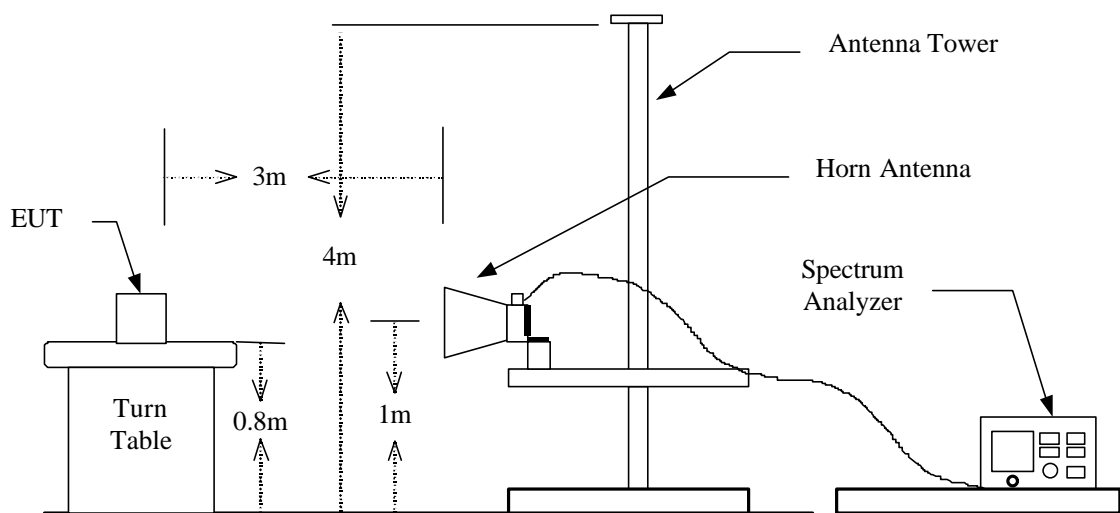


Figure 2 : Frequencies measured above 1 GHz configuration



### 3.3 Test Data

#### 3.3.1 fundamental & harmonics

Temperature : 20  
 Humidity : 62 %  
 Operated mode : Transmitting  
 Test Date : Sep. 14, 2000

	Frequency (GHz)	Ant Pol H/V	Reading (dBuV/m)		Correct Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (m)
			Peak	AV		Peak	AV	Peak	AV			
CH1	2.413521	H	57.7	50.7	31.6	89.3	82.3	114.0	94.0	-11.7	80	1.2
	2.413521	V	58.3	52.6	31.6	89.9	84.2	114.0	94.0	-9.8	220	1.0
CH2	2.432420	H	57.7	50.9	31.6	89.3	82.5	114.0	94.0	-11.5	75	1.2
	2.432420	V	58.4	52.3	31.6	90.0	83.9	114.0	94.0	-10.1	220	1.0
CH3	2.451290	H	57.8	51.2	31.6	89.4	82.8	114.0	94.0	-11.2	80	1.2
	2.451290	V	58.2	52.5	31.6	89.8	84.1	114.0	94.0	-9.9	220	1.0
CH4	2.470320	H	57.2	51.0	31.6	88.8	82.6	114.0	94.0	-11.4	90	1.2
	2.470320	V	57.9	51.9	31.6	89.5	83.5	114.0	94.0	-10.5	220	1.0

**Note :**

1. The noise of harmonics is too low to be measured.
2. If the measured frequencies fall in the restricted frequency band, the limit employed is § 15.209 general requirement when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function, no duty factor applied.

### 3.3 Test Data

#### 3.3.2 Spurious

Temperature : 20  
 Humidity : 62 %  
 Operated mode : Transmitting  
 Test Date : Sep. 14, 2000

	Frequency (MHz)	Ant Pol H/V	Reading (dBuV/m)	Correct Factor (dB)	Result @3m (dBuV/m) QP	Limit @3m (dBuV/m) QP	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
CH1	72.296	V	11.6	9.2	20.8	40.0	-19.2	40	1.0
	95.367	H	11.6	9.6	21.2	43.5	-22.3	40	1.7
	95.367	V	19.7	9.6	29.3	43.5	-14.2	240	1.0
	114.438	V	15.1	9.1	24.2	43.5	-19.3	170	1.0
CH2	72.296	V	12.6	9.2	21.8	43.5	-21.7	45	1.0
	95.367	H	11.3	9.6	20.9	43.5	-22.6	40	1.7
	95.367	V	19.4	9.6	29.0	43.5	-14.5	240	1.0
	114.438	V	14.9	9.1	24.0	43.5	-19.5	170	1.0
CH3	72.296	V	12.4	9.2	21.6	40.0	-18.4	40	1.0
	95.367	H	11.5	9.6	21.1	43.5	-22.4	40	1.7
	95.367	V	19.6	9.6	29.2	43.5	-14.3	240	1.0
	114.438	V	15.2	9.1	24.3	43.5	-19.2	170	1.0
CH4	72.296	V	11.4	9.2	20.6	40.0	-19.4	40	1.0
	95.367	H	10.6	9.6	20.2	43.5	-23.3	40	1.7
	95.367	V	19.5	9.6	29.1	43.5	-14.4	250	1.0
	114.438	V	15.1	9.1	24.2	43.5	-19.3	170	1.0

**Note :**

*If the measured frequencies fall in the restricted frequency band, the limit employed is § 15.209 general requirement when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function, no duty factor applied.*

### 3.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\text{RESULT} = \text{READING} + \text{CORR. FACTOR}$$

where CORR. FACTOR = Antenna FACTOR + Cable FACTOR

Assume a receiver reading of 22.5 dB  $\mu$  V is obtained. The Antenna Factor of 14.5 and a Cable Factor of 1.5 is added . The total of field strength is 38.5 dB  $\mu$  V/m.

$$\text{RESULT} = 22.5 + 14.5 + 1.5 = 38.5 \text{ dB } \mu \text{ V/m}$$

$$\begin{aligned} \text{Level in } \mu \text{ V/m} &= \text{Common Antilogarithm}[(38.5 \text{ dB } \mu \text{ V/m})/20] \\ &= 84.14 \mu \text{ V/m} \end{aligned}$$

### 3.5 Radiated Test Equipment

The following instrument are used for radiated emissions measurement :

Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
EMI Test Receiver	Hewlett-Packard	8546A	13054404-001	Jan. 31, 2001
Horn Antenna	EMCO	3115	9107-3729	May 16, 2000
BiconiLog Antenna	EMCO	3142	13057503-001	Jul. 03, 2001

Note: The standards used to perform this calibration are traceable to NML/ROC, NIST/USA and NPL.

Measuring instrument setup in measured frequency band when specified detector function is used :

Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	RF Test Receiver	Quasi-Peak	120 kHz	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	Auto

### 3.6 Radiated Measurement Photos

Please see Test Setup Photos files : RE01.jpg and RE02.jpg

## 4. CONDUCTED EMISSION MEASUREMENT

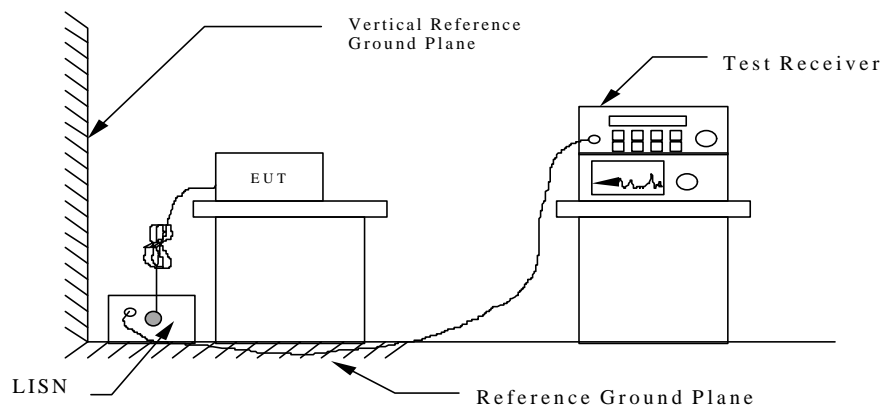
### 4.1 Applicable Standard

For unintentional digital devices, Line Conducted Emission Limits are in accordance to 15.107(a).

### 4.2 Measurement Procedure

1. Setup the configuration per figure 2.
2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
3. Record the 4 to 8 highest emissions relative to the limit.
4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then record the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
5. Confirm the highest emissions with variation of the EUT cable configuration and record the final data.
6. Repeat all above procedures on measuring each operation mode of EUT.

Figure 2 : Conducted emissions measurement configuration



**4.3 Conducted Emission Data**

Temperature : 22  
 Humidity : 70 %  
 Operated mode : Transmitting  
 Test Date : Sep. 14, 2000

<b>Emission Frequency</b> ( MHz )	<b>Meter Reading</b> ( dBuV )		<b>CORR'd Factor</b> ( dB )	<b>Results</b> ( dBuV )		<b>Limit</b> ( dBuV )	<b>Margins</b> ( dB )
	L1	L2		L1	L2		
0.450	36.9	***	0.1	37.0	***	48.0	-11.0
0.493	40.2	***	0.1	40.3	***	48.0	-7.7
0.536	***	43.7	0.1	***	43.8	48.0	-4.2
0.555	41.2	***	0.1	41.3	***	48.0	-6.7
0.591	***	33.4	0.1	***	33.5	48.0	-14.5
0.700	***	34.5	0.1	***	34.6	48.0	-13.4
0.833	39.4	30.7	0.1	39.5	30.8	48.0	-8.5
0.989	***	32.6	0.1	***	32.7	48.0	-15.3
1.251	31.9	***	0.2	32.1	***	48.0	-15.9
1.341	34.9	30.4	0.2	35.1	30.6	48.0	-12.9

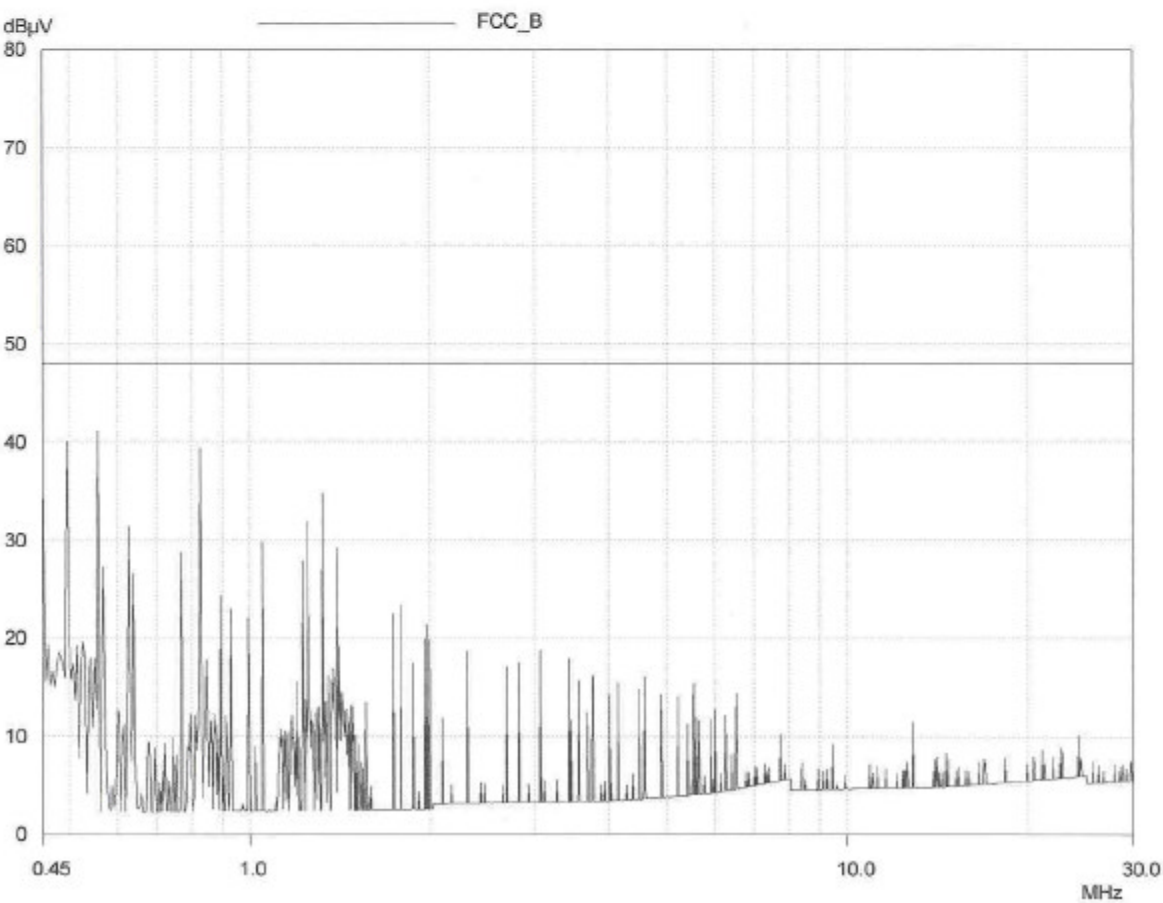
Note :

1. The full frequency range scanning test data is shown in next two pages.
2. “\*\*\*” means the noise is too low to be measured.
3. The system amplitude accuracy of the measurement made during the radiated emission tests was  $\pm 3\text{dB}$ .

Conducted Emission

ELUT: CCD Camera  
Manuf:  
Op Cond:  
Operator: Rick Hu  
Test Spec: FCC Part 15 Class B  
Comment: L1

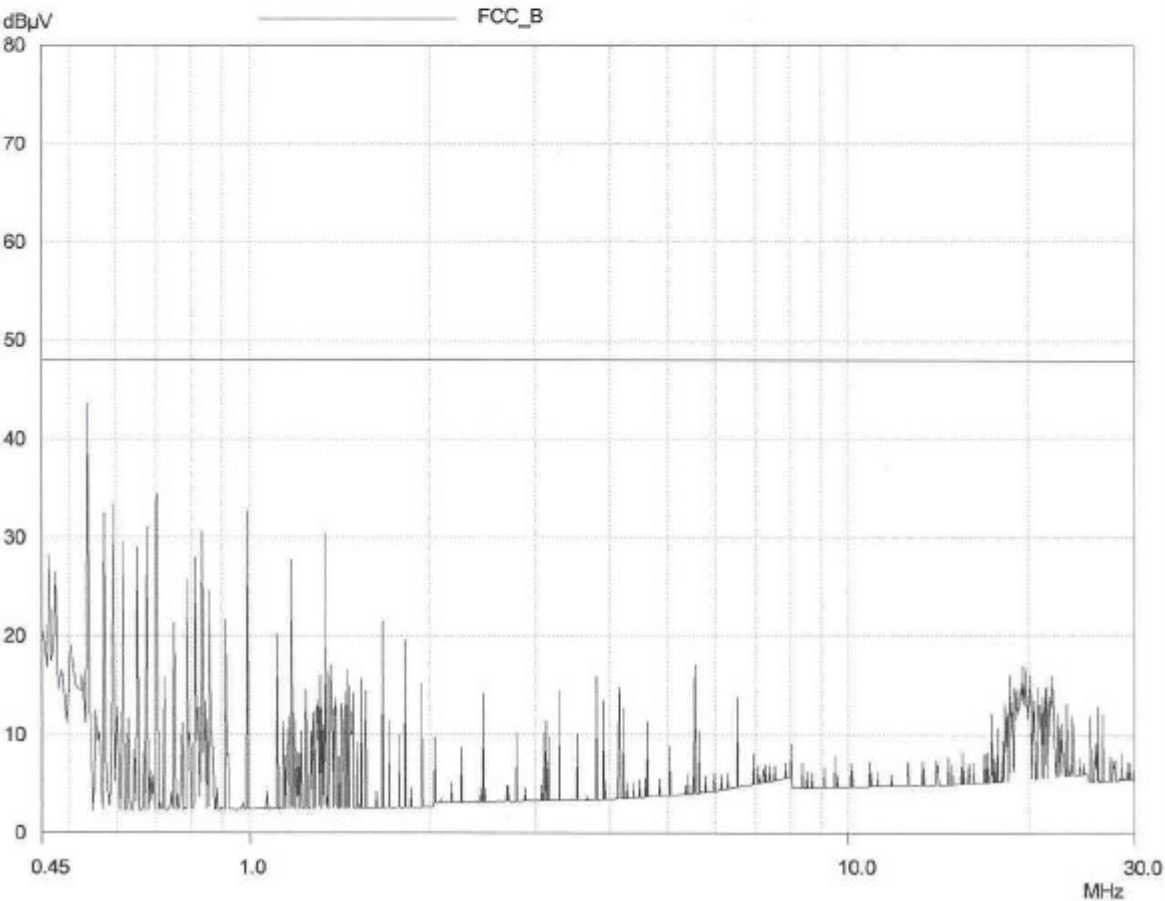
Final Measurement: Detector: X QP  
                          Meas Time: 1sec  
                          Peaks: 8  
                          Acc Margin: 25 dB



Conducted Emission

EUT: CCD Camera  
Manuf:  
Op Cond:  
Operator: Rick Hu  
Test Spec: FCC Part 15 Class B  
Comment: L2

Final Measurement:      Detector: X QP  
                                 Meas Time: 1sec  
                                 Peaks: 8  
                                 Acc Margin: 25 dB





#### 4.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

$$\text{RESULT} = \text{READING} + \text{LISN FACTOR}$$

Assume a receiver reading of 22.5 dB  $\mu$  V is obtained, and LISN Factor is 0.1 dB, then the total of field strength is 22.6 dB  $\mu$  V.

$$\text{RESULT} = 22.5 + 0.1 = 22.6 \text{ dB } \mu \text{ V}$$

$$\begin{aligned} \text{Level in } \mu \text{ V} &= \text{Common Antilogarithm}[(22.6 \text{ dB } \mu \text{ V})/20] \\ &= 13.48 \mu \text{ V} \end{aligned}$$

#### 4.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test .

Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
EMI Test Receiver	Rohde and Schwarz	ESCS30	13054409-001	Jun. 28, 2001
Line Impedance Stabilization network	EMCO	3825/2	13057704-001	Oct. 27, 2001
Plotter	Hewlett-Packard	7470A	----	N/A

Note: The standards used to perform this calibration are traceable to NML/ROC and NIST/USA.

#### 4.6 Conducted Measurement Photos

Please see Test Setup Photos files : CE01.jpg and CE02.jpg

## Additional Test Data for Harmonic Emissions

**1. Test Data**

1.1 harmonics

Temperature : 22Humidity : 61 %Operated mode : TransmittingTest Date : Mar. 19, 2001

	Frequency (GHz)	Ant Pol H/V	Reading (dBuV/m)		Correct Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (m)
			Peak	AV		Peak	AV	Peak	AV			
CH1	4.827042	H	7.8	2.2	2.5	10.3	4.7	74.0	54.0	-49.3	81	1.0
	4.827042	V	8.5	2.4	2.5	11.0	4.9	74.0	54.0	-49.1	220	1.0
	7.240563	H	--	--	5.9	--	--	74.0	54.0	--	--	--
	7.240563	V	--	--	5.9	--	--	74.0	54.0	--	--	--
CH2	4.864840	H	6.2	0.8	2.5	8.7	3.3	74.0	54.0	-50.7	75	1.1
	4.864840	V	7.5	1.4	2.5	10.0	3.9	74.0	54.0	-50.1	213	1.0
	7.297260	H	--	--	5.9	--	--	74.0	54.0	--	--	--
	7.297260	V	--	--	5.9	--	--	74.0	54.0	--	--	--
CH3	4.902580	H	6.5	0.9	2.5	9.0	3.4	74.0	54.0	-50.6	80	1.1
	4.902580	V	6.8	1.0	2.5	9.3	3.5	74.0	54.0	-50.5	220	1.0
	7.353870	H	--	--	5.9	--	--	74.0	54.0	--	--	--
	7.353870	V	--	--	5.9	--	--	74.0	54.0	--	--	--
CH4	4.940640	H	6.8	1.1	2.5	9.4	3.6	74.0	54.0	-50.4	90	1.1
	4.940640	V	7.1	1.0	2.5	9.6	3.5	74.0	54.0	-50.5	217	1.0
	7.410960	H	--	--	5.9	--	--	74.0	54.0	--	--	--
	7.410960	V	--	--	5.9	--	--	74.0	54.0	--	--	--

**Note :**

1. “—” means the noise is too low to be measured.
2. The noise of above 3rd harmonics is too low to be measured.
3. If the measured frequencies fall in the restricted frequency band, the limit employed is § 15.209 general requirement when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function, no duty factor applied.

## 2 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$RESULT = READING + CORR. FACTOR$$

where CORR. FACTOR = Antenna FACTOR + Cable FACTOR – Amplifier Gain

## 3 Radiated Test Equipment

The following instrument are used for radiated emissions measurement (Above 1 GHz):

Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
Spectrum Analyzer	Hewlett-Packard	8564E	00760	Apr. 18, 2001
Amplifier	Hewlett-Packard	8449B	3008400936	May 09, 2001
Horn Antenna	EMCO	3142	9804-5454	May 09, 2001

Note: The standards used to perform this calibration are traceable to NML/ROC, NIST/USA and NPL.

Measuring instrument setup in measured frequency band when specified detector function is used :

Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	RF Test Receiver	Quasi-Peak	120 kHz	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	Auto