

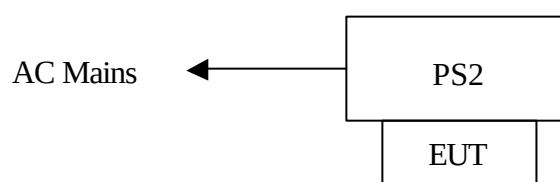
5. BAND EDGES MEASUREMENT

5.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 24,04	1 Year
2.	Amp	HP	8449B	3008A00863	May 24,04	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jun. 15, 04	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 24,04	1 Year

5.2. Block Diagram of Test Setup



(EUT: PS2 2.4G RF Wireless Controller (Transmit + Receiver))

5.3. Specification Limits (§15.247(c))

The highest level should be at least 20 dB below that in the 100kHz bandwidth.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT as shown in Section 5.2..

5.4.2. Let the EUT work in test mode (CH 1/CH 79) and test it.

5.5. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Horn antenna is used as receiving antenna.

Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.

5.6. Test Results

PASSED.

The testing data was attached in the next pages.

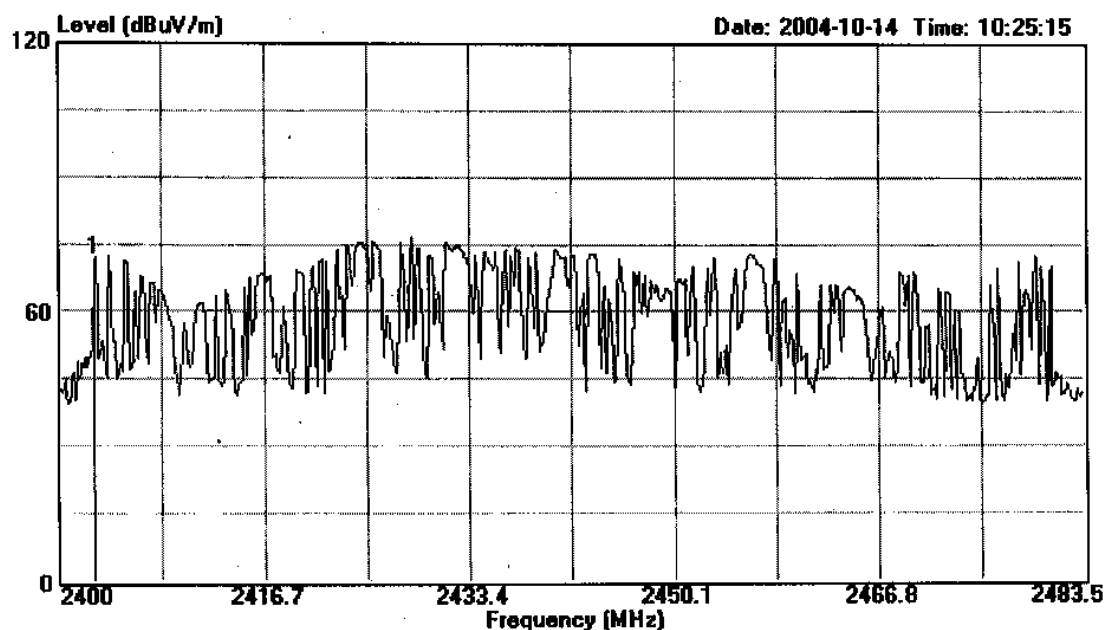


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Data#: 50 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With xbox AC Input 120V/60Hz
Test Mode : Band Edge Plots:Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

Freq	Level	Over Limit		Read Level	Probe Factor	Cable Loss	Remark
		Limit	Line				
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1 2402.040	71.91	-----	-----	71.91	0.00	0.00	Peak

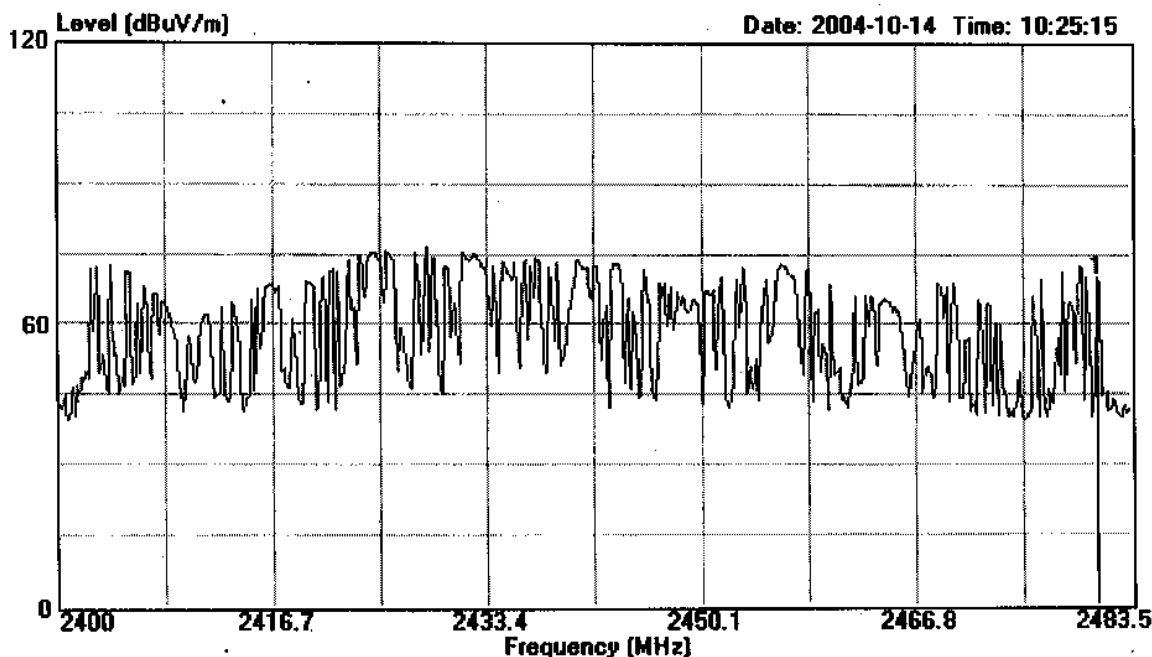


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Data#: 49 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With xbox AC Input 120V/60Hz
Test Mode : Band Edge Plots:Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2480.910	70.08	-----	-----	70.08	0.00	0.00	Peak