

FCC ID: UTBHLC830W

# FCC ID TEST REPORT

According to

**FCC Part 15 Subpart C, Intentional Radiators**

**EUT Type WEB CAMERA**

**Transmitter (TX) 1) Model No.: HLC-830W**

**2) FCC ID: UTBHLC830W**

**Applicant Name: HUNT ELECTRONIC CO., LTD.**

**Address See the General Information for details.**

Test Date : 2006/9/12

Issued Date : JAN. 03, 2007

Test Engineer : JASON KUNG

NVLAP Signature : M. Y. Tsui

M. Y. Tsui / Director

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- The report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States government.
- This report is applicable only for EUT Model which described in page 4 .
- The testing result in this report are traceable to national or international standard .

**PEP TESTING LABORATORY**

*NO. 8, Huzi, Hubei Village, Linkou Shiang, Taipei Hsien, Taiwan 244, R. O. C.*

*TEL : 886-2-26021042*

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## 1. General Information

Measurement of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under FCC Part 2 and 15.

**Applicant Name/Address:** HUNT ELECTRONIC CO., LTD.  
6F., NO. 57-59, JIUN HSIEN RD., CHI TU DISTRICT,  
KEELUNG 20656, TAIWAN, R. O. C.

**Contact Person:** HARRY YEH / ENGINEER

**Phone No.:** 886-2-86927999 **Fax No.:** 886-2-86926778

**Manufacturer Name/Address:** HUNT ELECTRONIC CO., LTD.  
6F., NO. 57-59, JIUN HSIEN RD., CHI TU DISTRICT,  
KEELUNG 20656, TAIWAN, R. O. C.

✧ Regulation: FCC Part 2 and 15

✧ Limitation: Part 15, Section 15.249, 15.207 and 15.209

✧ Test Procedure: ANSI C63.4-2003

✧ Place of Test: PEP Testing Laboratory

NO. 8, Huzi, Hubei Village, Linkou Shiang, Taipei Hsien,  
Taiwan 244, R. O. C.

TEL : 886-2-26021042

FAX : 886-2-26021045

## 2. Product Information

- a. EUT Type: WEB CAMERA
- b. Transmitter Model: HLC-830
- c. TX FCC ID: UTBHLC830W
- d. TX Channel No. : 1-11
- e. TX Working Freq. : 2.412 –2.462 GHz
- f. TX Modulation : CCK, DSSS
- g. TX Crystal / Osc. : 32.768 KHz, 22.184 MHz, 30 MHz, 40 MHz
- h. TX Port(s) : Lan Port \* 1, Phone Jack \* 1, SD Interface Slot \* 1
- i. TX Transmitting Power : Adapter -----  
Manufacturer : MEAN WELL  
Model No: ES18U05-050  
Input : AC 100-240 50/60Hz 0.5A  
Output : DC 5V 3A
- k. TX Case : ABS
- l. EUT Condition : ☐ Prototype ☒ Engineering ☐ Production
- m. EUT Received Date : SEP. 12, 2006
- n. Date(s) of performance of test: SEP. 12, 2006 – DEC. 05, 2006

### **3. EUT Description and Test Methods**

The Equipment under test (EUT) is WEB CAMERA model HLC-830W. The EUT serves function of real-time video recording over Internet by wireless or Ethernet network connection. The EUT supports SD card as storage medium for local video recording. The working frequency for wireless connection is 2412-2462MHz. Power adaptor supplies EUT 5Vdc from ac mains. For more detail information about the EUT, please refer to the user's manual.

Setup Method: According to the major function designed, the EUT configuration was set up by the following steps:

- (A) Connect EUT RJ-45 port to PC LAN port.
- (B) Insert SD memory card into SD slot.
- (C) Install data cable on EUT audio jack.

All connections of corresponding peripheral devices to PC I/O ports and EUT were set to proceed with test. The test was carried out on EUT operational condition. The worst-case test result was recorded and provided in this report.

## **4. Modification(s):**

The applicant has been notified and agrees to incorporate the following modification(s) into all production units, please refer to the attached pages in this report.

- (1) Spray enclosure with conductive coat.
- (2) Replace RS10, RS13, RS14 and RS17 with 22 ohm resistors; replace RS11 and RS23 with 33 ohm resistor.
- (3) Replace C5, C6, C7, C8 and C9 with 47pF capacitors .
- (4) Mount one suppression core on adaptor power cord.

## **5. Test Software Used**

Web browser was used to monitor image recorded from EUT.

## 6. Support Equipment Used

### 1. Personal Computer (PC3)

**CPU :** Intel P4 Socket 478 1.6GHz  
**FCC ID :** Declaration of Conformity(DoC)  
**Manufacturer :** LEMEL  
**Model Number :** LMIH1A2  
**Power Supply :** Switching  
**Power Cord :** Non-Shielded, Detachable, 1.8m  
**Data Cable :** N/A

### 2. Keyboard (KBS1 PS/2)

**FCC ID :** E5XKB5121WTH0110  
**Manufacturer :** BTC  
**Model Number :** 5121W  
**Power Supply :** +5Vdc from PS2 of PC  
**Power Cord :** N/A  
**Data Cable :** 1 > Shielded , Non-detachable,1.6m  
2 > Back Shell : Metal

### 3. LCD (MON1 17")

**FCC ID :** Declaration of Conformity(DoC)  
**Manufacturer :** SAMSUNG  
**Model Number :** 740P  
**Power Supply :** Switching  
**Power Cord :** Non-Shielded, Detachable, 1.8m  
**Data Cable :** 1 > Shielded , Non-detachable,1.2m  
2 > Back Shell : Metal

### 4. Printer (PRN1)

**FCC ID :** B94C2642X  
**Manufacturer :** Hewlett-Packard  
**Model Number :** C2642E  
**Power Supply :** Linear, 30Vdc O/P  
**Power Cable :** Non-Shielded , Detachable,1.8m  
**Data Cable :** 1 > Shielded , Detachable,1.2m  
2 > Back Shell : Metal

**5. Modem (MOD1)**

**FCC ID :** IFAXDM1414

**Manufacturer :** ACEEX

**Model Number :** 1414

**Power Supply :** Linear, 9Vac O/P

**Power Cable :** Non-Shielded , Detachable,1.7m

**Data Cable :** 1 > Shielded , Detachable,1m

2 > Back Shell : Metal

**6. Mouse (MOUS/1 PS/2)**

**FCC ID :** DZL211106

**Manufacturer :** LOGITECH

**Model Number :** M-S43

**Power Supply :** +5Vdc from PS2 of PC

**Power Cord :** N/A

**Data Cable :** 1 > Shielded , Non-detachable,1.8m

2 > Back Shell : Metal

**7. Ear-phone (EAR3)**

**FCC ID :** N/A

**Manufacturer :** Emkey

**Model Number :** 5h98006

**Power Supply :** N/A

**Power Cord :** N/A

**Data Cable :** 1 > Non-Shielded , Non-detachable,1.2m

2 > Back Shell : N/A



## 7. Description Field Strength of Fundamental and Harmonics Test

### 7.1 Field Strength of Fundamental and Harmonics Test

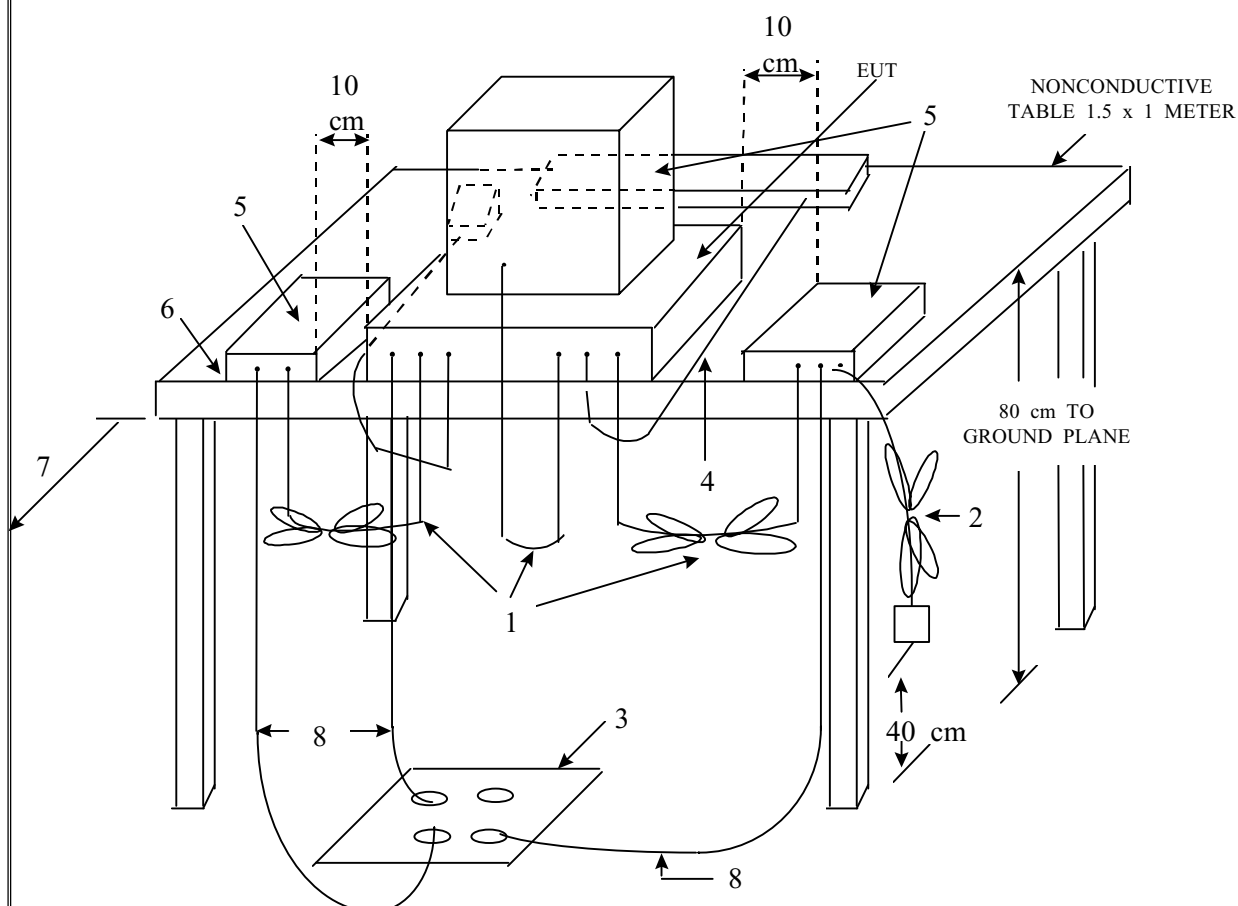
Field Strength of Fundamental and Harmonics Test were made outdoors at 3-meter test range using horn antenna. The test equipment was placed on a wooden bench situated on a 1.5x1 meter area adjacent to the measurement area. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The detector function was set to peak and average value, the bandwidth of the receiver was set to 1000MHz.

The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission.

### 7.2 Field Strength of Fundamental and Harmonics Limits

Fundamental Frequency	Fundamental		Harmonics	
	( mV/m )	( dB $\mu$ V/m )	( $\mu$ V/m )	( dB $\mu$ V/m )
902-928MHz	50	94	500	54
2400-2483.5MHz	50	94	500	54
5725-5875MHz	50	94	500	54
24.0-24.25GHz	250	108	2500	68

### **7.3 Test Configuration**



## 8. Description of Conducted Emissions Test

### 8.1 Conducted Emissions

A 1m x1.5m wooden table 80 cm high is placed 40cm away from the vertical wall. Two AMN are bonded to the grounding plane. The EUT is powered from the designated AMN and the support equipment is powered from another designated AMN. Powers to the AMN are filtered by a high-current high insertion loss power line filters. All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2". All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the AMN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

The spectrum was scanned from 150kHz to 30 MHz with 1.5 sec sweep time. The frequency producing the maximum level was re-examined using Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode. The bandwidth of the receiver was set to 10kHz. The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission.

### 8.2 Conducted Emissions Limits

Frequency	Maximum RF Line Voltage dB(uV)			
	Class A		Class B	
MHz	QUASI-PEAK	AVERAGE	QUASI-PEAK	AVERAGE
0.15 - 0.50	79	66	66-56	56-46
0.50 - 5.0	73	60	56	46
5.0 - 30	73	60	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

## 9. Description of Radiated Emissions Test

### 9.1 Radiated Emissions

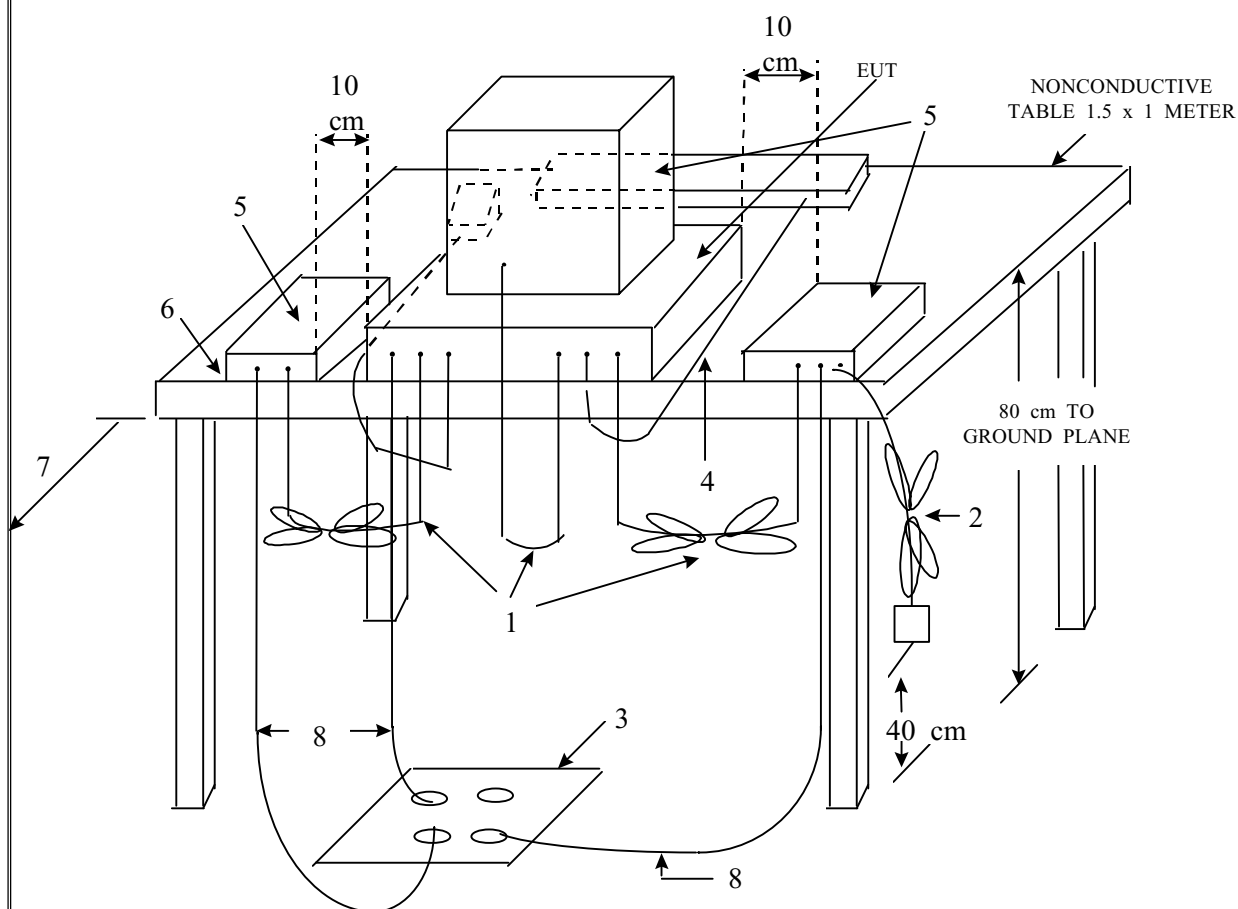
Preliminary measurements were made indoors chamber at 3 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 to 1000 MHz using logbicon antenna. Above 1GHz, linearly polarized double ridge horn antenna was used.

Final measurements were made outdoors at 3-meter test range using logbicon antenna and horn antenna. The test equipment was placed on a wooden bench situated on a 1.5x1 meter area adjacent to the measurement area. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using Quasi-Peak and Average Adapter. 30MHz-1GHz, the detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120kHz. Above 1GHz, the detector function was set to peak and average value, the bandwidth of the receiver was set to 1000MHz.

The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet , if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in radiated emission test photo.

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## 9.2 Test Configuration



### **9.3 Radiated Emission Limits**

Limits for radiated disturbance of  
 Class B ITE or Intentional Radiator  
 At a measuring distance of 3 m

Frequency MHz	Field Strength dB $\mu$ V/m or uV/m	
30 to 88	40	100
88 to 216	43.5	150
216 to 960	46	200
Above 960	56	500
NOTES 1 The lower limit shall apply at the transition frequency. 2 Additional provisions may be required for cases where interference occurs.		

## 10. Field Strength of Fundamental and Harmonics Test Setup Photos

< FRONT VIEW >



## 11. Field Strength of Fundamental and Harmonics Test Data

Model No. : HLC-830W  
 Temperature : 24° C Humidity : 55 %  
 Memo : CH LOW MODE (2.412GHz)

Antenna polarization : HORIZONTAL ; Test distance : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Detector	Remark
2411.950	113.49	- 0.51	114	Peak	Fundamental
2412.350	68.42	-25.58	94	Average	Fundamental
4824.000	60.14	-13.86	74	Park	Harmonic
4824.000	37.48	-16.52	54	Average	Harmonic
7235.800	46.59	-27.41	74	Peak	Harmonic
9647.900	42.43	-31.57	74	Peak	Harmonic

Antenna polarization : VERTICAL ; Test distance : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Detector	Remark
2411.750	104.95	- 9.05	114	Peak	Fundamental
2411.550	67.51	-26.49	94	Average	Fundamental
4823.800	54.37	-19.63	74	Park	Harmonic
4824.900	34.12	-19.88	54	Average	Harmonic
7236.400	40.61	-33.39	74	Peak	Harmonic
9647.200	36.73	-37.27	74	Peak	Harmonic



**Model No.** : HLC-830W  
**Temperature** : 24° C **Humidity** : 55 %  
**Memo** : CH MID MODE (2.437GHz)

**Antenna polarization** : HORIZONTAL ; **Test distance** : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Detector	Remark
2436.900	112.20	- 1.80	114	Peak	Fundamental
2437.150	66.77	-27.23	94	Average	Fundamental
4873.900	62.02	-13.38	74	Peak	Harmonic
4874.100	40.51	-13.49	54	Average	Harmonic
7310.900	47.64	-26.36	74	Peak	Harmonic
9747.900	46.02	-27.98	74	Peak	Harmonic

**Antenna polarization** : VERTICAL ; **Test distance** : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Detector	Remark
2436.900	105.44	- 8.56	114	Peak	Fundamental
2436.750	65.48	-28.52	94	Average	Fundamental
4873.800	55.64	-18.36	74	Peak	Harmonic
4874.300	36.13	-17.87	54	Average	Harmonic
7310.800	42.52	-11.48	74	Peak	Harmonic
9748.000	41.16	-12.84	74	Peak	Harmonic

**Model No.** : HLC-830W  
**Temperature** : 24° C **Humidity** : 55 %  
**Memo** : CH HIGH MODE (2.462GHz)

**Antenna polarization** : HORIZONTAL ; **Test distance** : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Detector	Remark
2461.950	112.69	- 1.31	114	Peak	Fundamental
2461.700	66.61	-27.39	94	Average	Fundamental
4924.000	54.48	-19.52	74	Peak	Harmonic
4923.700	36.77	-17.23	54	Average	Harmonic
7385.900	46.98	-27.02	74	Peak	Harmonic
9847.800	47.02	-26.98	74	Peak	Harmonic

**Antenna polarization** : VERTICAL ; **Test distance** : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Detector	Remark
2461.950	106.25	- 7.75	114	Peak	Fundamental
2461.700	67.53	-26.47	94	Average	Fundamental
4924.400	48.80	-25.20	74	Peak	Harmonic
7386.100	40.12	-33.88	74	Peak	Harmonic
9847.900	39.83	-34.17	74	Peak	Harmonic

## 12. Conducted Emissions Test Data

**Model No.** : HLC-830W  
**Frequency range** : 150KHz to 30MHz  
**Detector** : Quasi-peak Value  
**Temperature** : 27 °C  
**Humidity** : 43 %

**Test Data :** # 5 < LINE >  
# 10 < NEUTRAL >

- Note 1. Level = Read Level + Cable Loss + Probe (LISN)  
2. Over Limit = Level – Limit = Margin

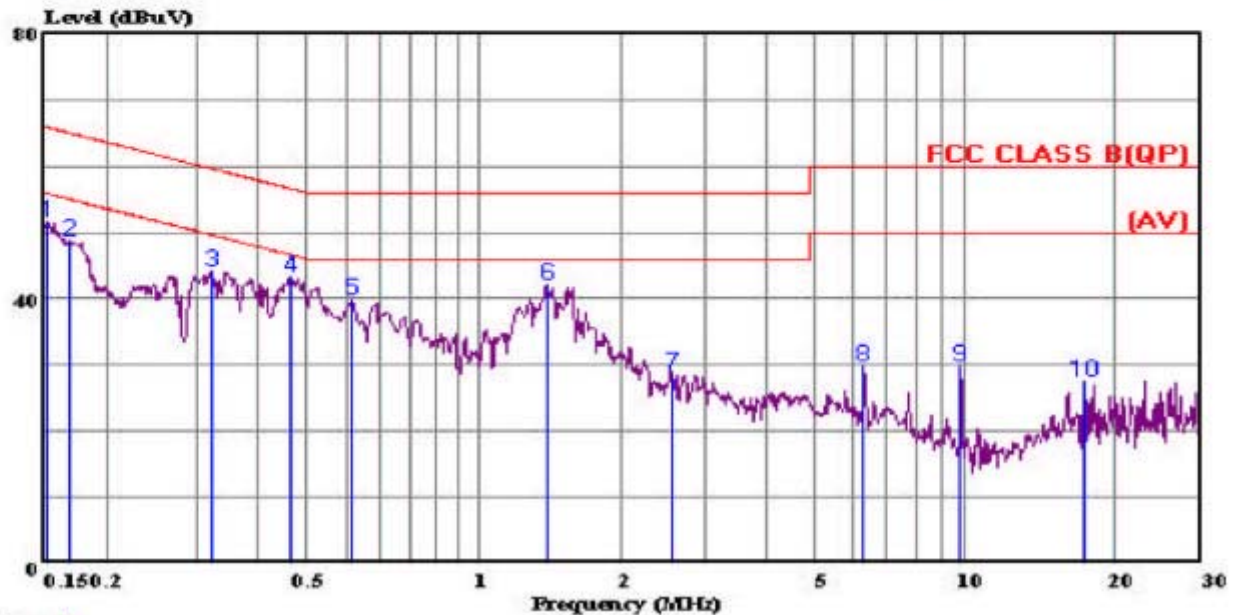


# 暉鑫科技股份有限公司

## PEP Testing Laboratory

Data#: 5 File#: FCC CLASS B(QP).EMI

Date: 2006-09-12 Time: 11:23:01



Trace: 4

Site : Shih-Chi : Conduction No.1(Sean)  
Condition: FCC CLASS B(QP) LISN.L(16A) LINE  
eut : E950418  
power : AC 120V 60Hz  
memo : Peak Value  
: Final Test

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	51.51	-14.40	65.91	51.31	0.10	0.10	
2	0.168	48.87	-16.21	65.08	48.67	0.10	0.10	
3	0.322	44.03	-15.63	59.66	43.83	0.10	0.10	
4	0.466	43.16	-13.42	56.58	42.93	0.10	0.13	
5	0.617	39.74	-16.26	56.00	39.54	0.10	0.10	
6	1.503	42.19	-13.81	56.00	41.89	0.10	0.20	
7	2.664	28.70	-27.30	56.00	28.40	0.10	0.20	
8	6.386	29.86	-30.14	60.00	29.42	0.20	0.24	
9	9.966	29.77	-30.23	60.00	29.17	0.30	0.30	
10	17.661	27.66	-32.34	60.00	26.80	0.56	0.30	

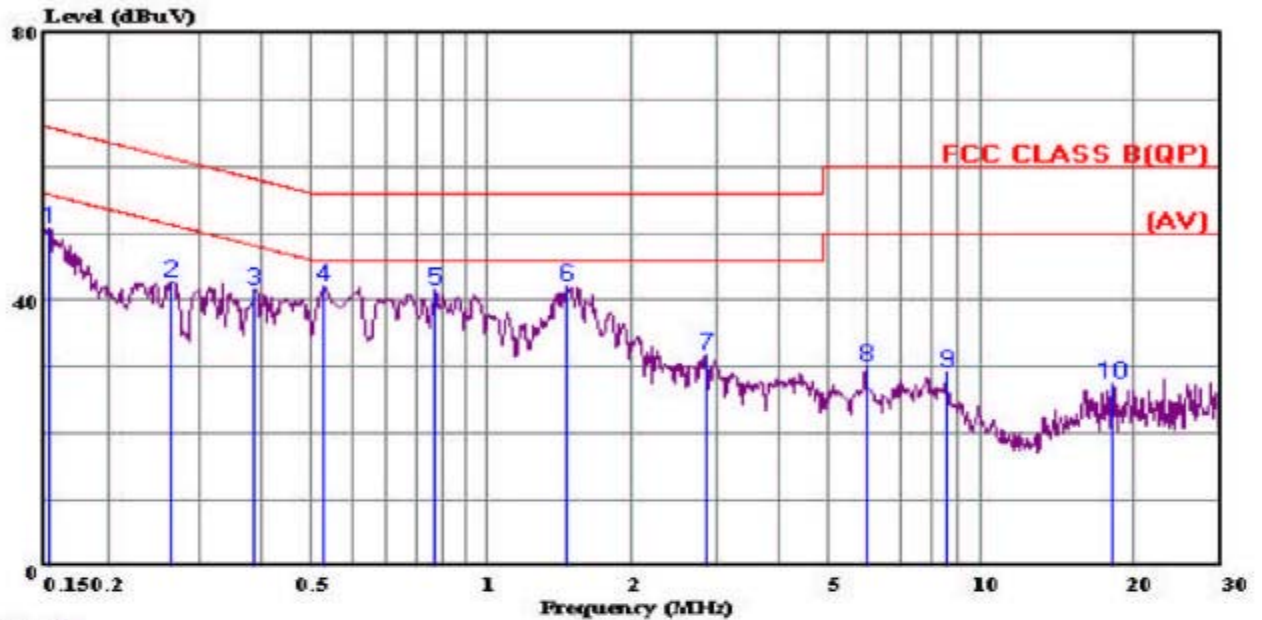


# 暉鑫科技股份有限公司

## PEP Testing Laboratory

Data#: 10 File#: FCC CLASS B(QP).EMI

Date: 2006-09-12 Time: 11:27:18



Trace: 9

Site : Shih-Chi : Conduction No.1(Sean)  
Condition: FCC CLASS B(QP) LISN.N(16A) NEUTRAL  
eut : E950418  
power : AC 120V 60Hz  
memo : Peak Value  
: Final Test

Page: 1

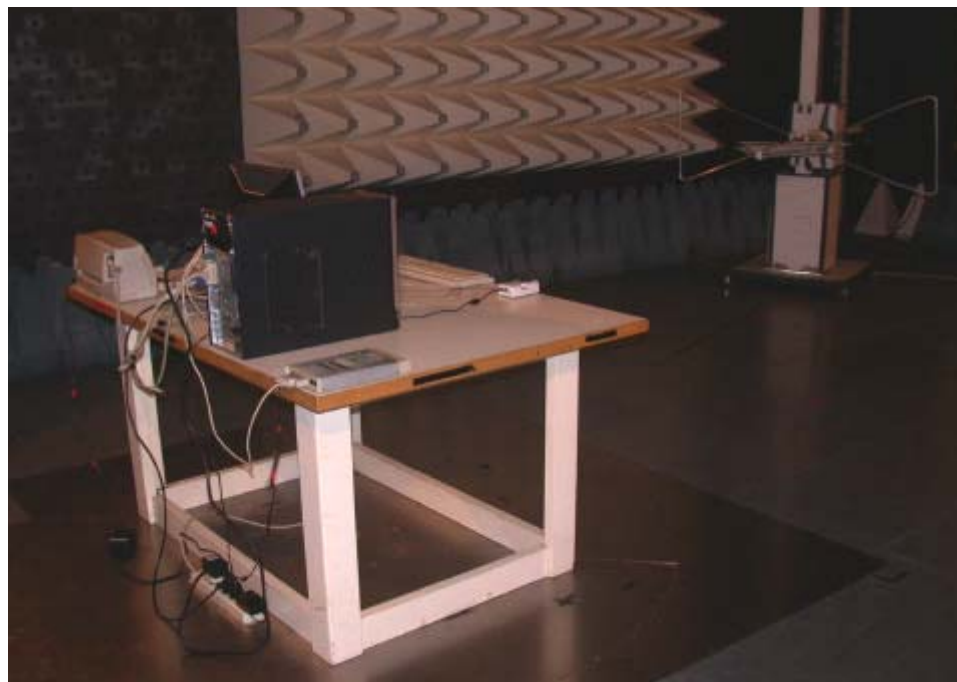
	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBUV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBUV	dB	dBUV	dBUV	dB	dB	
1	0.154	50.79	-14.99	65.78	50.59	0.10	0.10	
2	0.264	42.80	-18.49	61.29	42.53	0.10	0.17	
3	0.387	41.57	-16.55	58.12	41.37	0.10	0.10	
4	0.529	42.01	-13.99	56.00	41.74	0.10	0.17	
5	0.871	41.60	-14.40	56.00	41.33	0.10	0.17	
6	1.577	42.20	-13.80	56.00	41.90	0.10	0.20	
7	2.946	31.89	-24.11	56.00	31.59	0.10	0.20	
8	6.056	30.10	-29.90	60.00	29.71	0.19	0.20	
9	8.683	29.21	-30.79	60.00	28.64	0.27	0.30	
10	18.328	27.45	-32.55	60.00	26.65	0.47	0.33	

## 14. Radiated Emissions Test Setup Photos

< FRONT VIEW >



< REAR VIEW >



## 15. Radiated Emissions Test Data

**Model No. : HLC-830W****Frequency range : 30MHz to 1GHz****Detector : Quasi-Peak Value****Temperature : 28° C****Humidity : 55 %****Antenna polarization : HORIZONTAL ; Test distance : 3m ;**

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (°angle)	Antenna High(m)
121.180	33.58	- 9.92	43.50	39.94	12.43	0.77	19.56	105.0	4.0
242.430	37.31	- 8.69	46.00	44.27	11.51	0.79	19.26	185.0	4.0
277.350	45.49	- 0.51	46.00	49.85	14.12	0.78	19.26	186.0	4.0
312.270	40.95	- 5.05	46.00	44.74	14.55	1.05	19.39	203.0	3.5
607.150	39.78	- 6.22	46.00	35.80	20.67	2.17	18.86	96.0	3.1
851.590	36.14	- 9.86	46.00	30.56	22.17	2.13	18.72	133.0	3.2

**Note :**

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

**Model No. : HLC-830W**

**Frequency range : 30MHz to 1GHz**

**Detector : Quasi-Peak Value**

**Temperature : 28° C**

**Humidity : 55 %**

**Antenna polarization : VERTICAL ; Test distance : 3m ;**

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (° angle)	Antenna High(m)
121.180	35.57	- 7.93	43.50	41.93	12.43	0.77	19.56	125.0	1.5
295.780	39.62	- 6.38	46.00	43.76	14.35	0.86	19.35	136.0	1.5
365.620	37.62	- 8.38	46.00	40.24	14.83	1.80	19.25	123.0	1.0
381.140	35.96	-10.04	46.00	38.19	15.03	2.02	19.28	110.0	1.1
607.150	36.48	- 9.52	46.00	32.50	20.67	2.17	18.86	95.0	1.3
851.590	39.82	- 6.18	46.00	34.24	22.17	2.13	18.72	175.0	1.2

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line



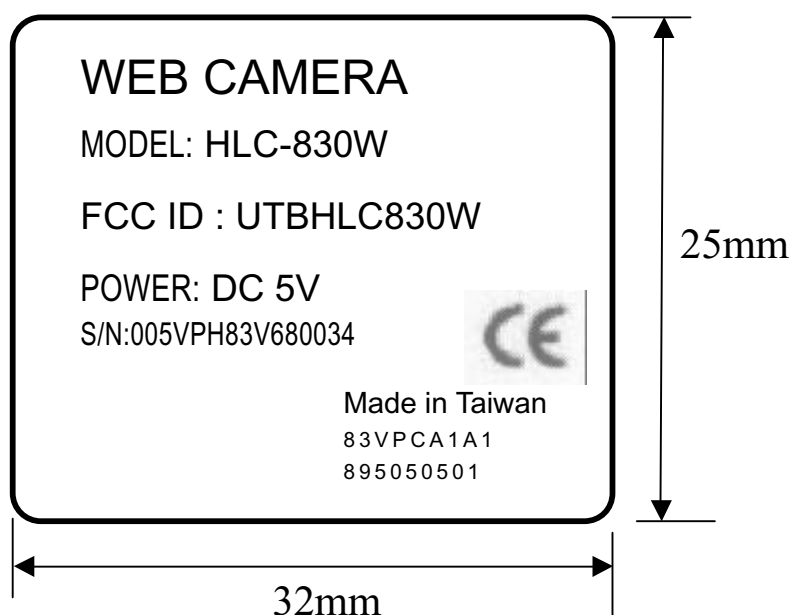
## 16. List of Measured Instruments

Test Site	Instrument	Model No.	S/N	Next Cal. Date	Cal. Interval
<b>Conduction (No.1)</b>	R & S Spectrum	FSP 3	833387/001	Aug. 14, 2007	1Year
	R & S Receiver	ESHS10	830223/008	Sep. 10, 2007	1Year
	R & S 16A LISN(EUT)	ESH3-Z5	100070	Sep. 14, 2007	1Year
	ROLF HEINE 63A LISN(EUT)	NNB-4/63TL	98008	Sep. 20, 2007	1Year
	RF Cable	No.4	N/A	Jan. 02, 2008	1Year
<b>Chamber (No. 3)</b>	R&S Spectrum Analyzer	FSP30	100157	Sep. 03, 2007	1Year
	Schaffner Pre-Amplifier	CPA-9232	1028	Jan. 02, 2008	1Year
	SCHWARZBECK Antenna	VULB9161	4078	July 23, 2007	1Year
	R & S Signal Generator	SMY02	830235/019	May 01, 2008	2Years
	30MHz~1GHz RF Cable	NO.3	N/A	Jan. 02, 2008	1Year
	COM POWER HORN ANTENNA	AH-118	10056	Oct. 01, 2008	2Years
	MITEQ Pre-Amplifier	JS4-00101800-2 8-5A	829013	Sep. 28, 2008	2Years
	1GHz~26.5GHz RF Cable	N/A	N/A	Sep. 28, 2008	2Years

## 17. FCC ID Label Sample

The sample label shown below shall be permanently affixed at a conspicuous location on the device, instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practicable, only the trade name, model number, and the FCC logo must be displayed on the device per Section §15.19 (b)(2).

### EUT Label



## 18. Information To The User

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

### Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver .
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected .
- Consult the dealer or an experienced radio / TV technician for help .

## 19. EUT External Photos

PHOTO. 1. EUT FRONT VIEW



PHOTO. 2. EUT REAR VIEW



## 20. EUT Internal Photos

MAIN

AUX

ML-3002-0C  
45-101-10081AC  
04-10-2005

SN: H010614007169  
MAC: 0011E2085AAF

0408 V0  
94V-0



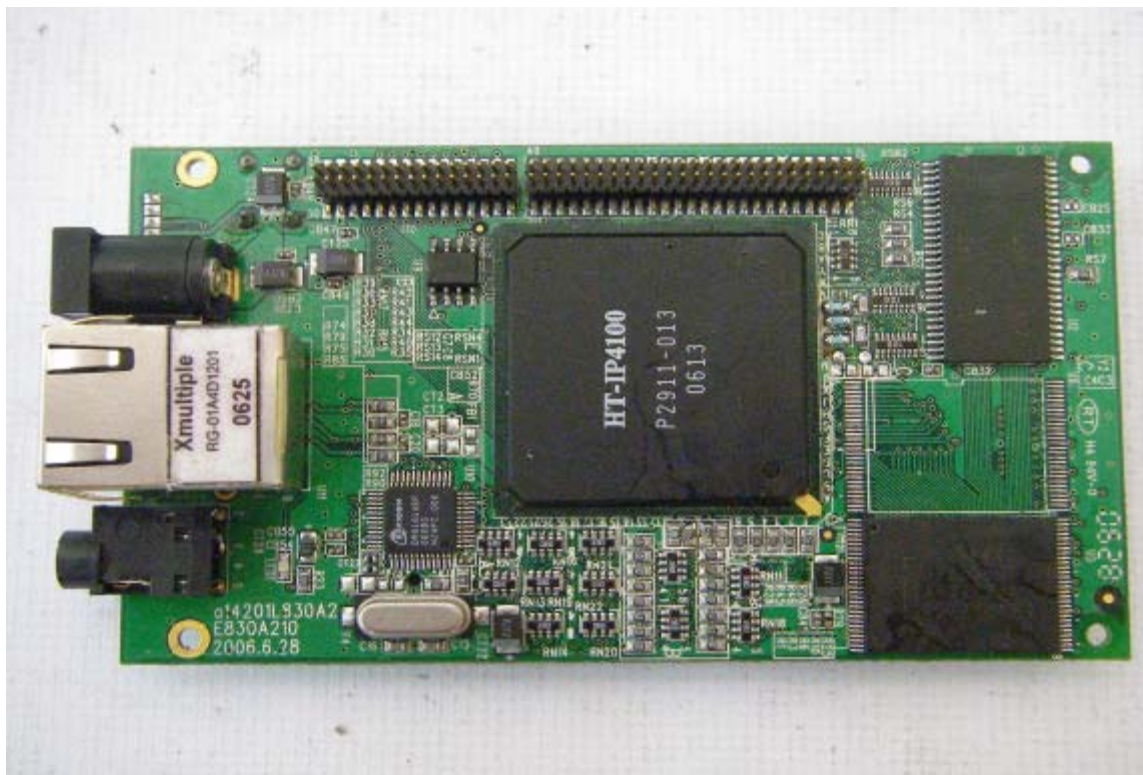
**PHOTO. 5. EUT SOLDERING SIDE VIEW**



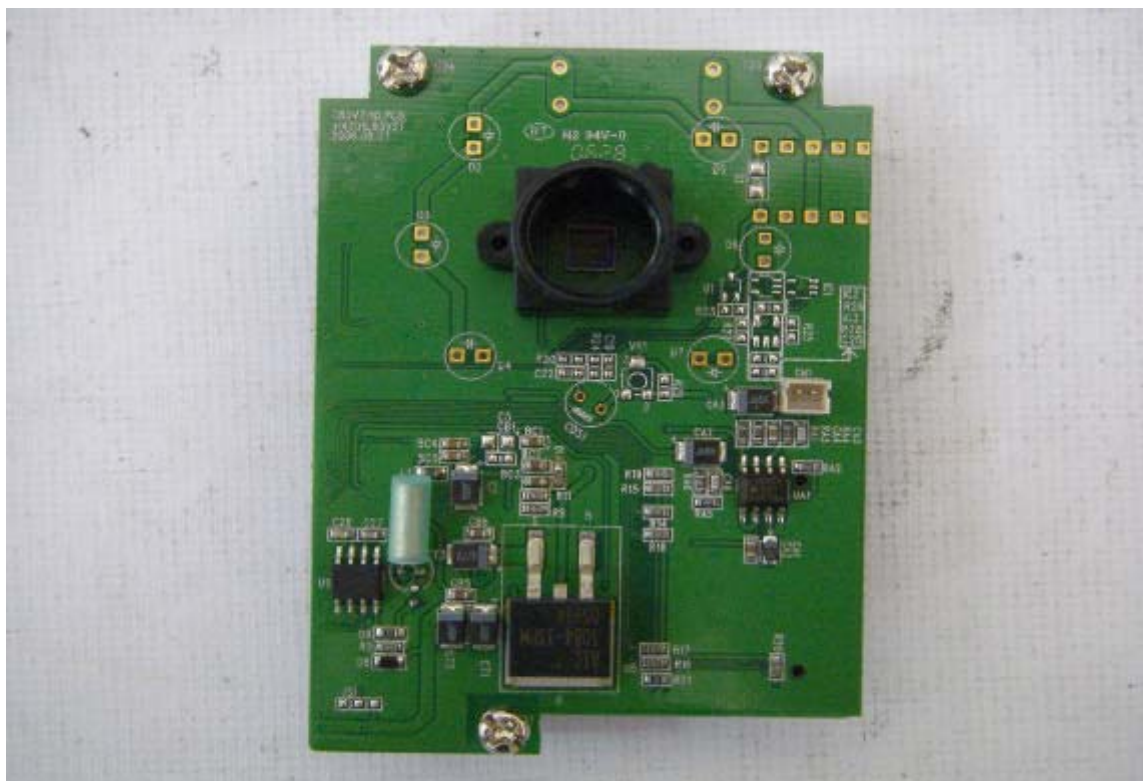
**PHOTO. 6. EUT COMPONENT SIDE VIEW**



**PHOTO. 7. EUT COMPONENT SIDE VIEW**

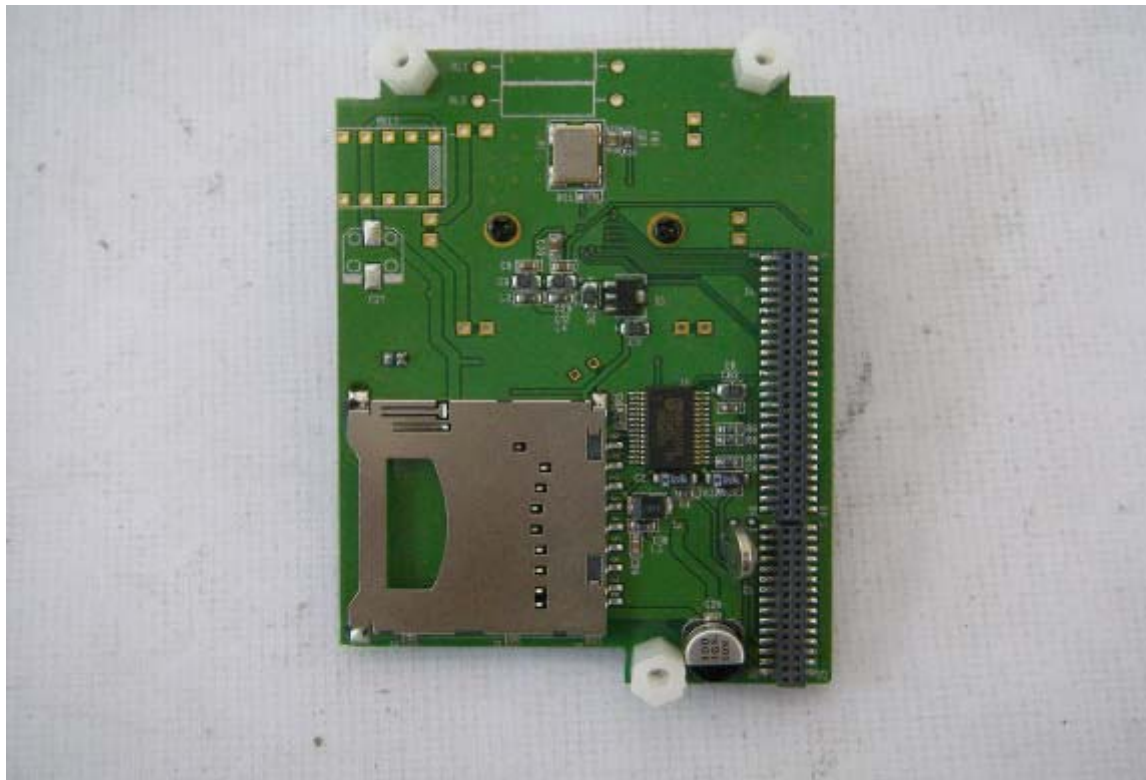


**PHOTO. 8. EUT SOLDERING SIDE VIEW**





**PHOTO. 9. EUT COMPONENT SIDE VIEW**



**PHOTO. 10. EUT SOLDERING SIDE VIEW**

