

VCCI CLASS B COMPLIANCE REPORT

Test Report No. : EM/2009/50058
Applicant : VIVOTEK INC.
Address of Applicant : 6F, No. 192, Lien-Cheng Rd., Chung-Ho City, Taipei County, Taiwan, R.O.C.
Manufacturer : VIVOTEK INC.
Address of Manufacturer : 5F, No.168, Lien-Cheng Rd., Chung-Ho City, Taipei County, Taiwan, R.O.C.

Equipment Under Test (EUT) :

Name : 2 Mega-pixel Day and Night Network Camera(2 Mega-pixel Network Camera)
Brand Name : VIVOTEK
Model No. : IP7161
Added Model(s) : IP7160

Standard : V-3/2007.04 : Technical Requirements

V-4/2007.04 : Instruction For Test Conditions For Equipment Under Test

Date of Receipt : Mar. 06, 2009

Date of Test : Mar. 06 ~ May 21, 2009

Date of Issue : Jun. 05, 2009

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Test By: Wisely Huang **Date** Jun. 05, 2009
Wisely Huang(Engineer)

Prepared By: Jessie Li **Date** Jun. 05, 2009
Jessie Li(Clerk)

Approved By Victor Wen **Date** Jun. 05, 2009
Victor Wen(Assistant Manager)

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TWA 0465578

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1. Product Labeling And User Information

1.1 Class Definition

Class A ITE is equipment designed to be used in an industrial or commercial area.

Note : The limits regarding radio interference generated by Class A ITE are based on the assumption that the ITE is located thirty meters from the equipment, it may be potentially disturbed.

Therefore, there is a possibility that disturbance may occur from the operating of this type of equipment, when it is used in a residential area. "Commercial and industrial areas" refer to commercial districts, industrial districts including semi-industrial districts and exclusive industrial districts which come under the provisions established by the City Planning Law and other eligible districts.

Class B ITE is equipment designed and/or intended to be used in residential area and their Vicinities.

Note : The limits regarding radio interference generated by Class B ITE are based on the assumption that the ITE is located ten meters from the equipment it may be potentially disturbed. "residential area" refers to residential districts, including Type 1 Exclusive Residential Districts and Type 2 Exclusive Residential Districts which come under the provisions established by the City Planning Law, and other eligible residential districts.

1.2 Labeling Requirement

1. Class A ITE

Class A ITE shall have the following message on a visible location on each product.
In the event that direct marking is difficult, a tag may be used.

<p>この装置は、クラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。</p> <p style="text-align: right;">VCCI-A</p>
--

Translation:

This is a Class A product.

In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Note 1 : The size of characters shall not be less than 2 mm in height. If no adequate space is available, the statement may be condensed to the size in which characters are readable.

Note 2 : VCCI-A means that the equipment is an equipment satisfying the limits of interference for Class A ITE.

2. Class B ITE

Class B ITE shall have the following label on a visible location of each product.



1.3 Information To Be Given In Instruction Manuals

1. Class A ITE

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Translation:

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

2. Class B ITE

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス B 情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

Translation:

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

2.General Information

2.1 Client Information

Applicant : VIVOTEK INC.

Address of Applicant : 6F, No. 192, Lien-Cheng Rd., Chung-Ho City, Taipei County, Taiwan, R.O.C.

Manufacturer : VIVOTEK INC.

Address of Manufacturer : 5F, No.168, Lien-Cheng Rd., Chung-Ho City, Taipei County, Taiwan, R.O.C.

2.2 General Description of EUT

Name of EUT	: 2 Mega-pixel Day and Night Network Camera (2 Mega-pixel Network Camera)
Brand Name	: VIVOTEK
Model No.	: IP7161
Added Model(s)	: IP7160
Variant Description:	Focal Length; F value; IR-Cut filter; Day & Night; Interface; Power Requirement; Adjustment ring are different

2.3 Details of EUT

Power Supply	: Model : 1. 3A-181WP12 ; 2. AH1812-S. Input : AC 100~240V/50~60Hz Output from adaptor : DC 12V/1.5A
Power Cord	: Unshielded
Modes/Function	: 1. EUT+ENG Adapter.2. ENT+JENTEC Adapter. 3. ENG Adapter+Lan.4. POE.
Worse case	: ENT+JENTEC Adapter.

2.4 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Notebook	IBM	T43	L3LKVL9
Printer	HP	DJ3820	CN34L181B1
USB Mouse	IBM	MO28UO	23-454022
DVD Player	PHILIPS	DVP5986K/96	AT2B0733215515
Speaker	Multimedia	N/A	N/A

Cable list

Cable Type	Length	Shield
Earphone cable	1.85m	Non-shielding
JENTEC Adapter cable	1.85m	Non-shielding
ENG Adapter cable	1.72m	Non-shielding
ENG Adapter(core near power out)	1.8m	Non-shielding

2.5 Test Methodology And Configuration

Both conducted and radiated testing were performed according to the procedures in V-3/2007.04 & V-4/2007.04 ,Class B of VCCI Regulations ,Radiated testing was performed at an antenna to EUT distance of 10m on an open area test site.

2.6 Standards Applicable for Testing

Table of tests to be carried out under V-3/2007.04 & V-4/2007.04 of VCCI Regulations

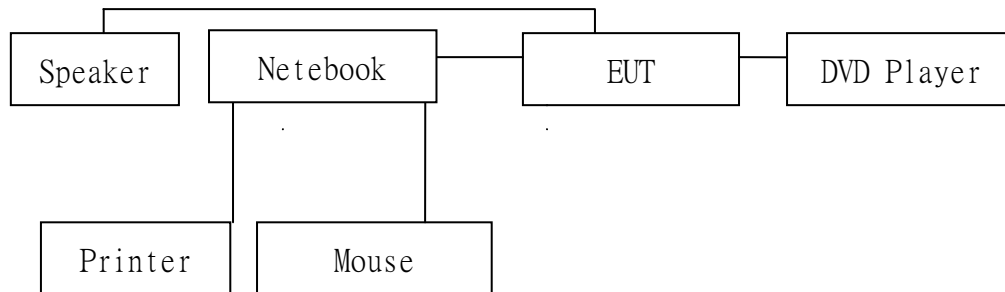
Test Standards	Statue
V-3/2007.04 & V-4/2007.04	<input checked="" type="checkbox"/>

- Indicates that the test is not applicable
- Indicates that the test is applicable

2.7 Devation from the Standards

No deviation.

2.8 Test Set-Up Configuration



2.9 Test Procedure

1. Set down EUT with support units and turn on the power of all equipment.
2. Pre-test the EUT in all modes by each model, then figure the worst case out.
3. Tests under the normal operation pattern.

3. Radio Disturbance

3.1 Limits Of Conducted And Radiated Emission

3.1.1 Limit Of Radiated Emission Of V-3/2007.04 & V-4/2007.04

FREQUENCY (MHz)	Class A (at 10m)*	Class B (at 10m)*
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

* Detector Function : Quasi - Peak

3.1.2 Limit Of Radiated Emission Of V-3/2007.04 & V-4/2007.04, CLASS B For Frequency Above 1000 MHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80.0	60.0	74.0	54.0

Note : (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.3 Limit Of Conducted Emission Of V-3/2007.04 & V-4/2007.04

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

**Maximum permissible level of Common Mode Conducted Emission
(Telecommunication Ports)**

CLASS A

FREQUENCY (MHz)	Voltage Limit(dBuV)		Current Limit(dBuA)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	97 - 87	84 - 74	53 - 43	40 - 30
0.5 - 30.0	87	74	43	30

CLASS B

FREQUENCY (MHz)	Voltage Limit(dBuV)		Current Limit(dBuA)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	84 - 74	74 - 64	40 - 30	30 - 20
0.5 - 30.0	74	64	30	20

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2 Test Results

Conducted Emission	PASS
Radiated Emission	PASS

3.3 Frequency Range

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : 30 MHz - 1000 MHz

3.4. Test of Conducted Emission

3.4.1 Test Instruments

Description	Manufacturer	Model No.	Serial No.	Date of Calibration
EMI Test Receiver	ROHDE&SCHWARZ	ESCS 30	828985/004	Sep. 16, 2008
Coaxial Cables	N/A	WK CE Cable	N/A	Nov. 29, 2008
L.I.S.N	Rolf-Heine	NNB-2/16Z	99012	Feb. 02, 2009
L.I.S.N	FCC	FCC-LISN-50/250-25-2-01	04034	Feb. 02, 2009

3.4.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory
No.134, Wu Kung Road. Wuku Industrial Zone, Taipei County 248, Taiwan (R.O.C.)

3.4.3 Operation of EUT

Environment :

Temperature	Humidity	Atmospheric Pressure
24 °C	61 %RH	1007 mbar

Test setup : Please refer to photo of CE testing set-up

3.4.4 Measurement Data

ENG Adaptor Mode

L:

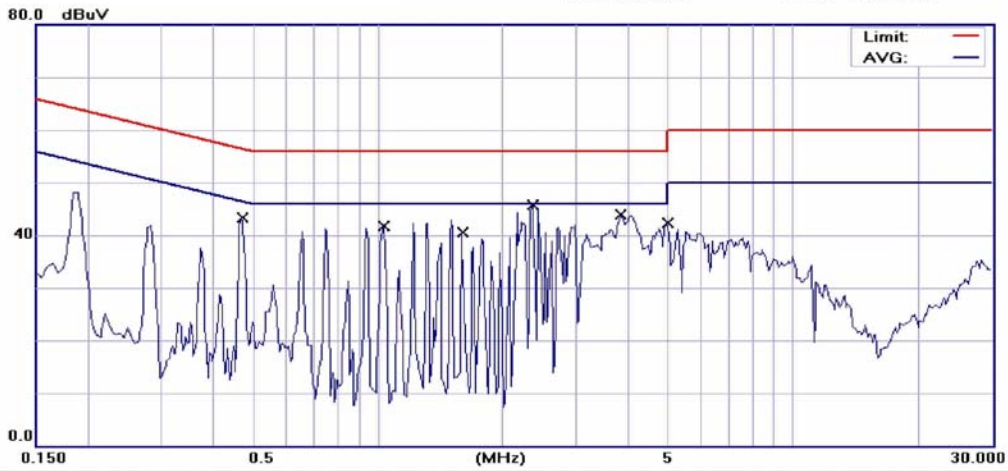


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 台北縣五股工業區五工路134號
 電話：(02) 22993279 傳真：(02) 22982698

Conducted Emission Measurement

Date: 2009/5/20

Time: 下午 03:03:40



Site: SGS CONDUCTED #1 Phase: L1 Temperature: 24 °C
 Limit: VCCI Class B Conduction(QP) Power: AC 100V/50Hz Humidity: 61 %
 EUT: 2 Mega-pixel day and Night Network Camera
 M/N: IP7161
 Note: Full System mode (ENG ADAPTER)

No.	Mk.	Freq. MHz	Reading Level		Factor	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
			dBuV	dB						
1		0.4700	43.31	0.07	43.38	56.51	-13.13	QP		
2		1.0300	41.59	0.09	41.68	56.00	-14.32	QP		
3		1.6000	40.46	0.11	40.57	56.00	-15.43	QP		
4	*	2.3600	45.52	0.13	45.65	56.00	-10.35	QP		
5		3.8600	43.81	0.15	43.96	56.00	-12.04	QP		
6		5.0000	42.18	0.16	42.34	56.00	-13.66	QP		

N:

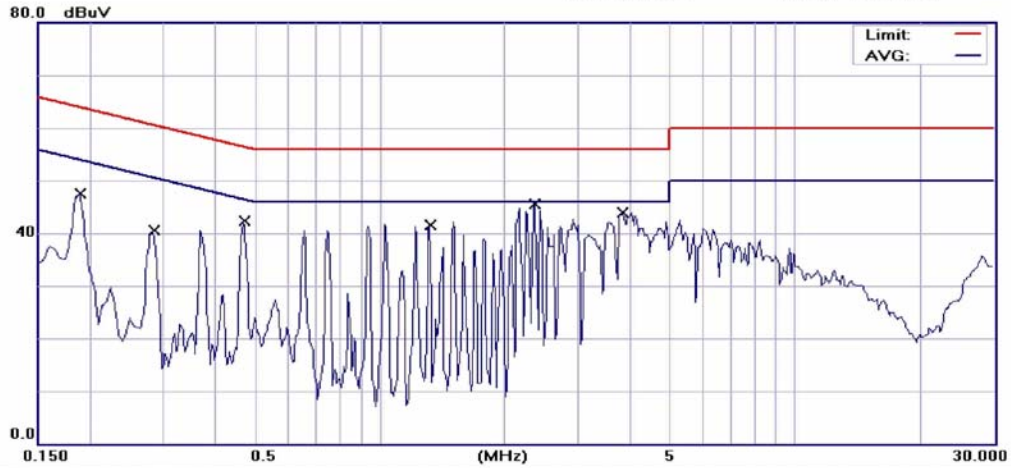


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 台北縣五股工業區五工路134號
 電話：(02) 22993279 傳真：(02) 22982698

Conducted Emission Measurement

Date: 2009/5/20

Time: 下午 03:01:29



Site SGS CONDUCTED #1 Phase: **N** Temperature: 24 °C
 Limit: VCCI Class B Conduction(QP) Power: AC 100V/50Hz Humidity: 61 %
 EUT: 2 Mega-pixel day and Night Network Camera
 M/N: IP7161
 Note: Full System mode (ENG ADAPTER)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1900	47.37	0.15	47.52	64.04	-16.52	QP	
2		0.2850	40.34	0.13	40.47	60.67	-20.20	QP	
3		0.4700	42.15	0.10	42.25	56.51	-14.26	QP	
4		1.3200	41.35	0.13	41.48	56.00	-14.52	QP	
5	*	2.3600	45.28	0.15	45.43	56.00	-10.57	QP	
6		3.8600	43.68	0.17	43.85	56.00	-12.15	QP	

JENTEC Adaptor Mode

L:

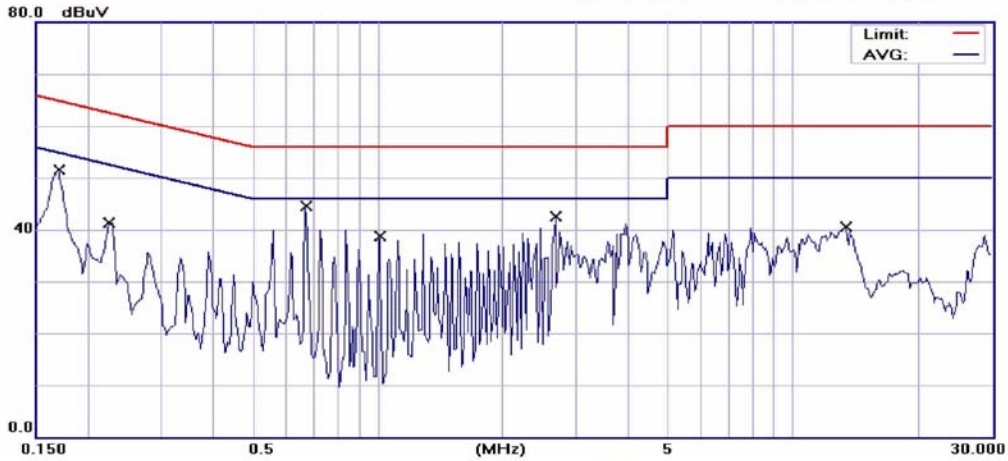


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 電話：(02) 22993279 傳真：(02) 22982698

Conducted Emission Measurement

Date: 2009/5/20

Time: 下午 03:17:50



Site SGS CONDUCTED #1 Phase: N Temperature: 24 °C
 Limit: VCCI Class B Conduction(QP) Power: AC 100V/50Hz Humidity: 61 %
 EUT: 2 Mega-pixel day and Night Network Camera
 M/N: IP7161
 Note: Full System mode (JENTEC ADAPTER)

No.	Mk.	Reading		Factor	Measure- ment	Limit		Over	Detector	Comment
		Freq.	Level			dB	dBuV			
1		0.1700	51.36	0.17	51.53	64.96	-13.43	QP		
2		0.2250	41.21	0.14	41.35	62.63	-21.28	QP		
3	*	0.6700	44.45	0.11	44.56	56.00	-11.44	QP		
4		1.0100	38.61	0.12	38.73	56.00	-17.27	QP		
5		2.6900	42.25	0.16	42.41	56.00	-13.59	QP		
6		13.4600	40.09	0.43	40.52	60.00	-19.48	QP		

N:

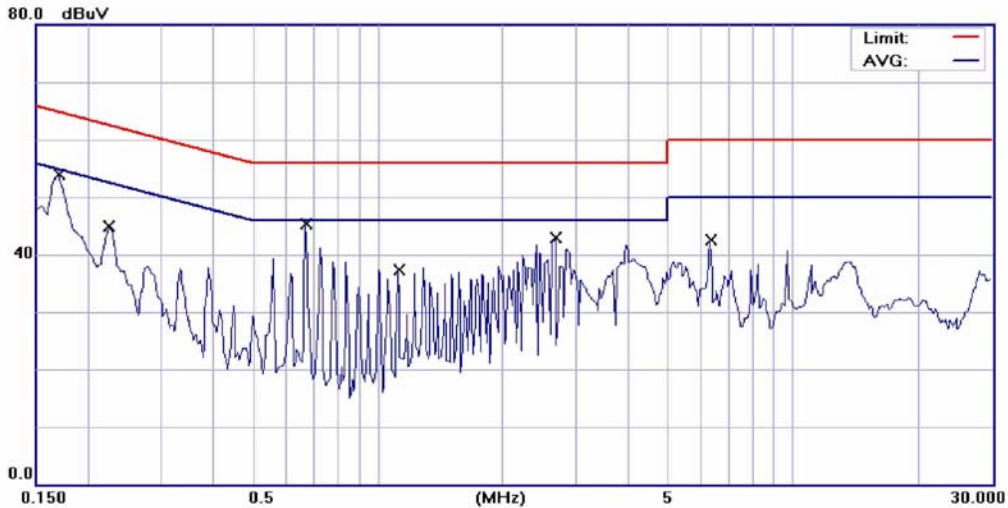


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 台北縣五股工業區五工路134號
 電話：(02) 22993279 傳真：(02) 22982698

Conducted Emission Measurement

Date: 2009/5/20

Time: 下午 03:15:21



Site SGS CONDUCTED #1 Phase: **L1** Temperature: 24 °C
 Limit: VCCI Class B Conduction(QP) Power: AC 100V/50Hz Humidity: 61 %
 EUT: 2 Mega-pixel day and Night Network Camera
 M/N: IP7161
 Note: Full System mode (JENTEC ADAPTER)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	53.71	0.15	53.86	64.96	-11.10	QP	
2		0.2250	44.80	0.12	44.92	62.63	-17.71	QP	
3	*	0.6700	45.15	0.08	45.23	56.00	-10.77	QP	
4		1.1200	37.23	0.09	37.32	56.00	-18.68	QP	
5		2.6900	42.78	0.14	42.92	56.00	-13.08	QP	
6		6.3200	42.31	0.22	42.53	60.00	-17.47	QP	

3.5 Test of Radiated Emission

3.5.1 Test Instruments

Description	Manufacturer	Model No.	Serial No.	Date of Calibration
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100335	Feb. 05, 2009
RF-Amplifier	Agilent	8447D	2944A09469	Nov. 29, 2008
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	Mar. 03, 2009
Coaxial Cables	N/A	OS RE Cable	N/A	Nov. 29, 2008
Antenna Master	HD GmbH	MA 240	240/515	N/A
Turn Table	HD GmbH	DT420	420/542	N/A
Controller	HD GmbH	HD 100	100/589	N/A

3.5.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory
 No. 29, Pau-Tou-Tsuo Valley, Chia-Pau Tsuen, Linkou Hsiang, Taipei County 244,
 Taiwan (R.O.C.)

3.5.3 Operation of EUT

Environment :

Temperature	Humidity	Atmospheric Pressure
22 °C	59 %RH	1006 mbar

Test setup :Please refer to photo of RE testing set-up

3.5.4 Measurement Data

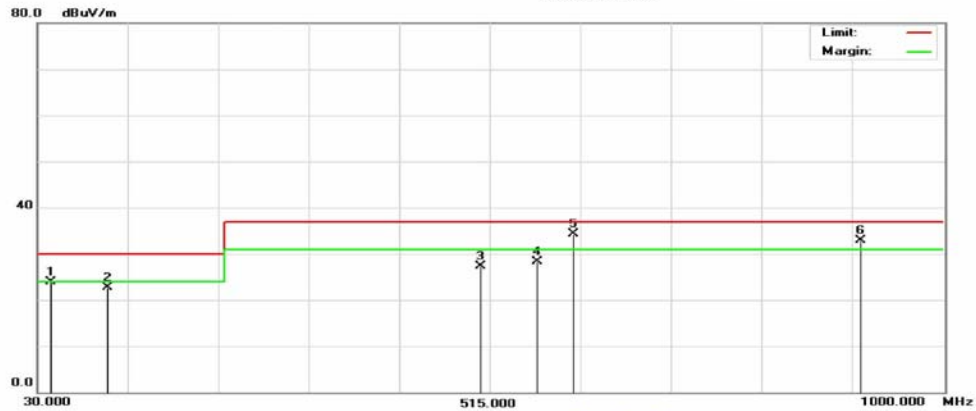
ENG Adaptor Mode Horizontal polarization



臺灣檢驗科技股份有限公司 -電子暨通訊實驗室
Address :台北縣五股工業區五工路 134 號
Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement

Date: 2009/5/12



Site : 10M Open Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: CISPR22 Class B 10M Radiation

Power: AC 120V/60Hz

Humidity: 59%

EUT: 2 Mega-pixel day and Night Network Camera

M/N: IP7161

Note: Full System Operation (ENG Adaptor)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		42.2500	41.24	-17.42	23.82	30.00	-6.18	QP	
2		103.7500	41.13	-18.40	22.73	30.00	-7.27	QP	
3		503.4500	35.36	-7.96	27.40	37.00	-9.60	QP	
4		565.0750	34.86	-6.62	28.24	37.00	-8.76	QP	
5	*	603.3300	39.63	-5.28	34.35	37.00	-2.65	QP	
6	!	910.5750	32.15	0.78	32.93	37.00	-4.07	QP	

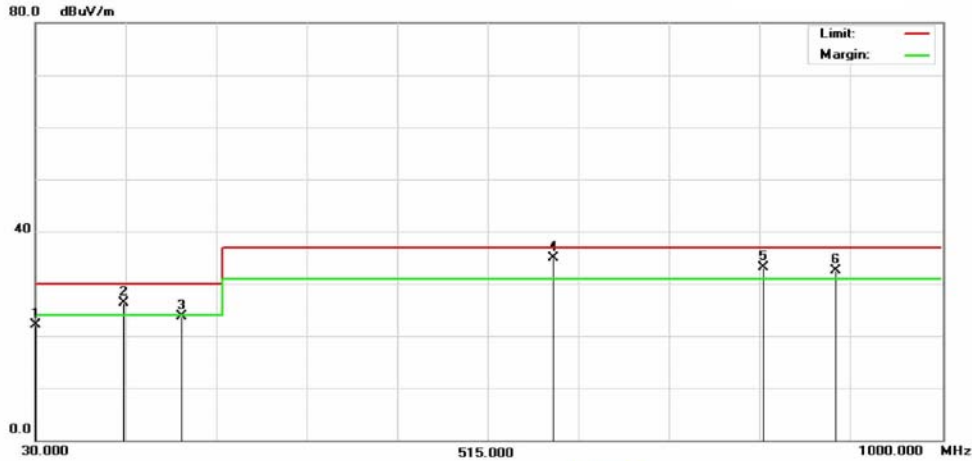
Vertical polarization



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 Address :台北縣五股工業區五工路 134 號
 Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement

Date: 2009/5/12



Site : 10M Open Site Polarization: **Vertical** Temperature: 22 °C
 Limit: CISPR22 Class B 10M Radiation Power: AC 120V/60Hz Humidity: 59%
 EUT: 2 Mega-pixel day and Night Network Camera
 M/N: IP7161
 Note: Full System Operation (ENC Adapter)

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		30.6250	39.69	-17.60	22.09	30.00	-7.91	QP	
2	!	123.5200	42.53	-16.17	26.36	30.00	-3.64	QP	
3		185.3620	39.88	-16.26	23.62	30.00	-6.38	QP	
4	*	583.8750	40.77	-5.93	34.84	37.00	-2.16	QP	
5	!	810.1500	34.33	-1.22	33.11	37.00	-3.89	QP	
6	!	886.1750	32.24	0.25	32.49	37.00	-4.51	QP	

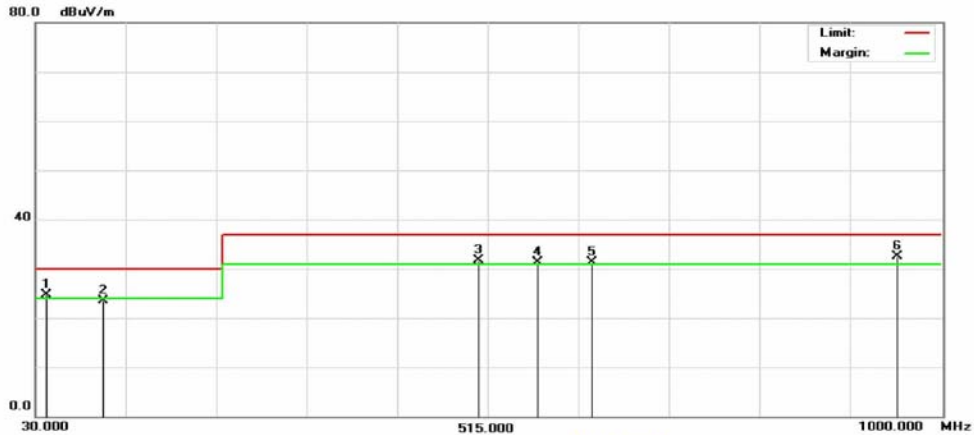
JENTEC Adaptor Mode
Horizontal polarization



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Address :台北縣五股工業區五工路 134 號
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Radiated Emission Measurement

Date: 2009/5/12



Site : 10M Open Site Polarization: **Horizontal** Temperature: 22 °C
Limit: CISPR22 Class B 10M Radiation Power: AC 120V/60Hz Humidity: 59%
EUT: 2 Mega-pixel day and Night Network Camera
M/N: IP7161
Note: Full System Operation (JENTEC Adapter)

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	!	41.1250	42.36	-17.57	24.79	30.00	-5.21	QP	
2		101.3260	42.36	-18.95	23.41	30.00	-6.59	QP	
3	!	503.4500	39.65	-7.96	31.69	37.00	-5.31	QP	
4	!	566.0750	37.89	-6.58	31.31	37.00	-5.69	QP	
5	!	625.3000	36.15	-4.90	31.25	37.00	-5.75	QP	
6	*	953.5750	30.77	1.65	32.42	37.00	-4.58	QP	

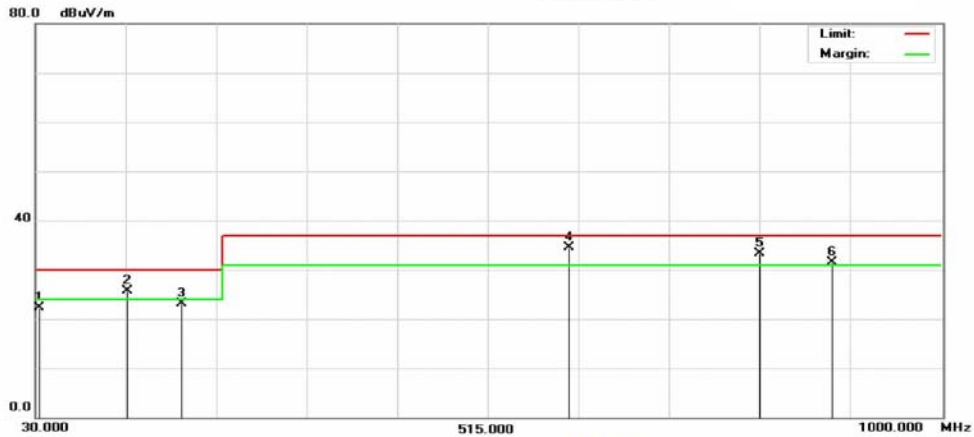
Vertical polarization



臺灣檢驗科技股份有限公司 -電子暨通訊實驗室
 Address :台北縣五股工業區五工路 134 號
 Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement

Date: 2009/5/12



Site : 10M Open Site Polarization: **Vertical** Temperature: 22 °C
 Limit: CISPR22 Class B 10M Radiation Power: AC 100V/50Hz Humidity: 59%
 EUT: 2 Mega-pixel day and Night Network Camera
 M/N: IP7161
 Note: Full System Operation (JENTEC Adapter)

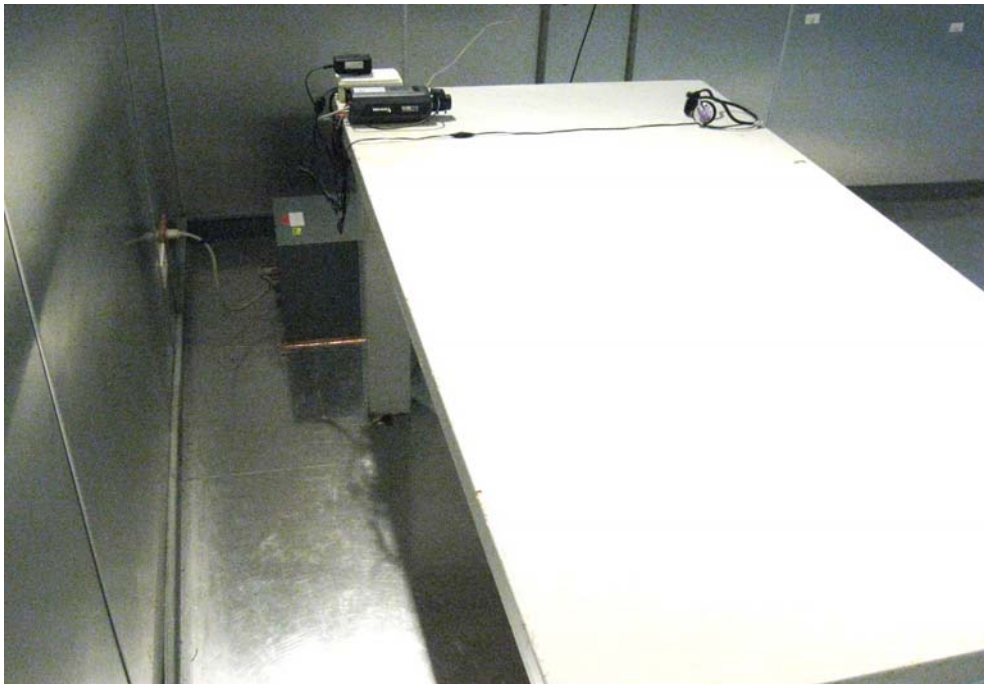
No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		34.6250	40.13	-17.91	22.22	30.00	-7.78	QP	
2	!	127.5000	41.52	-15.80	25.72	30.00	-4.28	QP	
3		186.6250	39.63	-16.45	23.18	30.00	-6.82	QP	
4	*	600.8750	39.87	-5.32	34.55	37.00	-2.45	QP	
5	!	805.3500	34.53	-1.30	33.23	37.00	-3.77	QP	
6	!	881.6400	31.26	0.15	31.41	37.00	-5.59	QP	

APPENDIX - Constructional Details

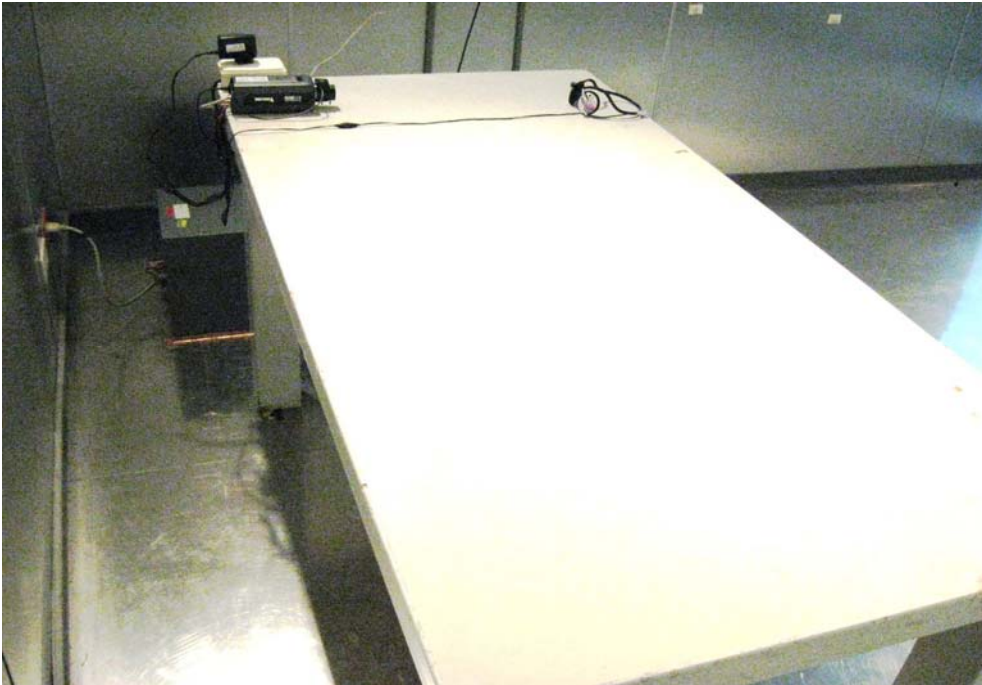
Testing Photographs.....	23-26
Photographs of Product.....	27-42

Testing Photographs

CE Testing Set-up
ENG Adaptor Mode



JENTEC Adaptor Mode



**RE Testing Set-up
ENG Adaptor Mode**



JENTEC Adaptor Mode



Photographs of Product

Exterior:

Model No. : IP7161













Added Model(s) : IP7160

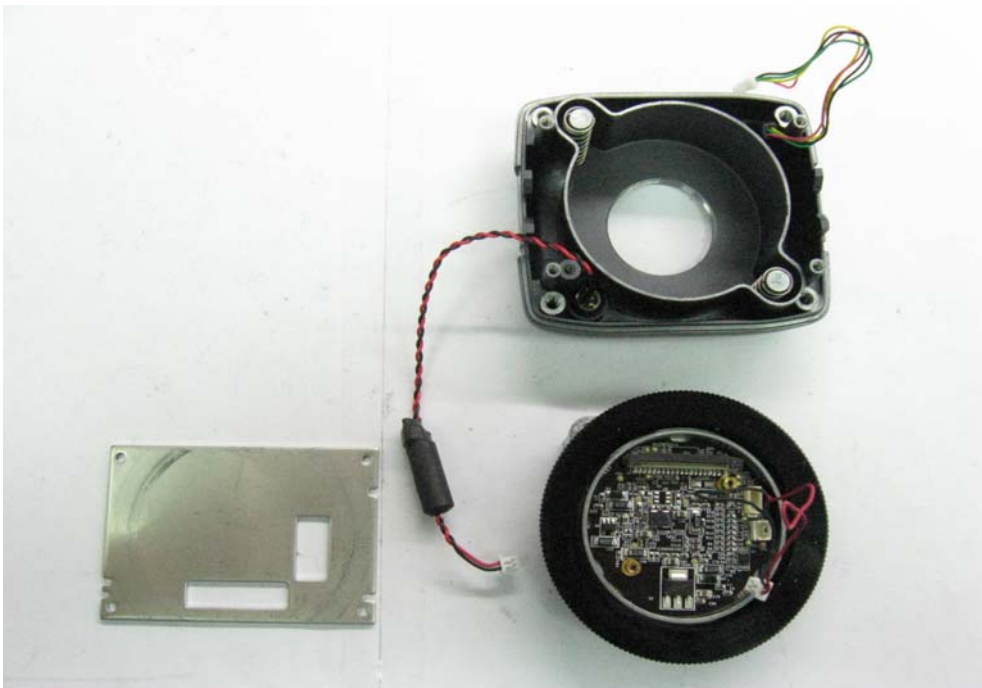
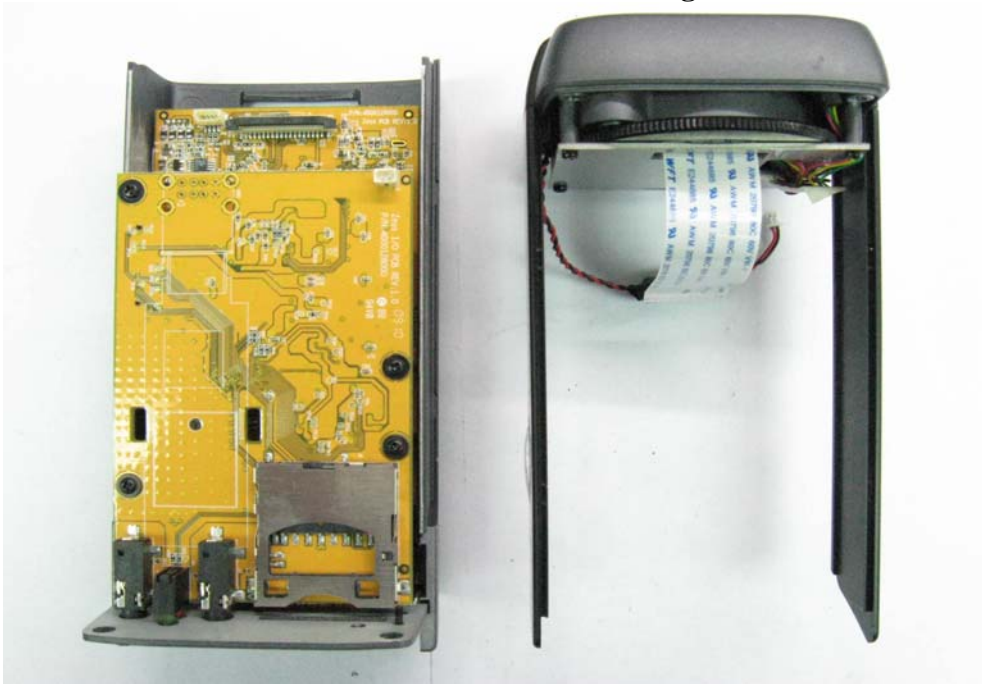




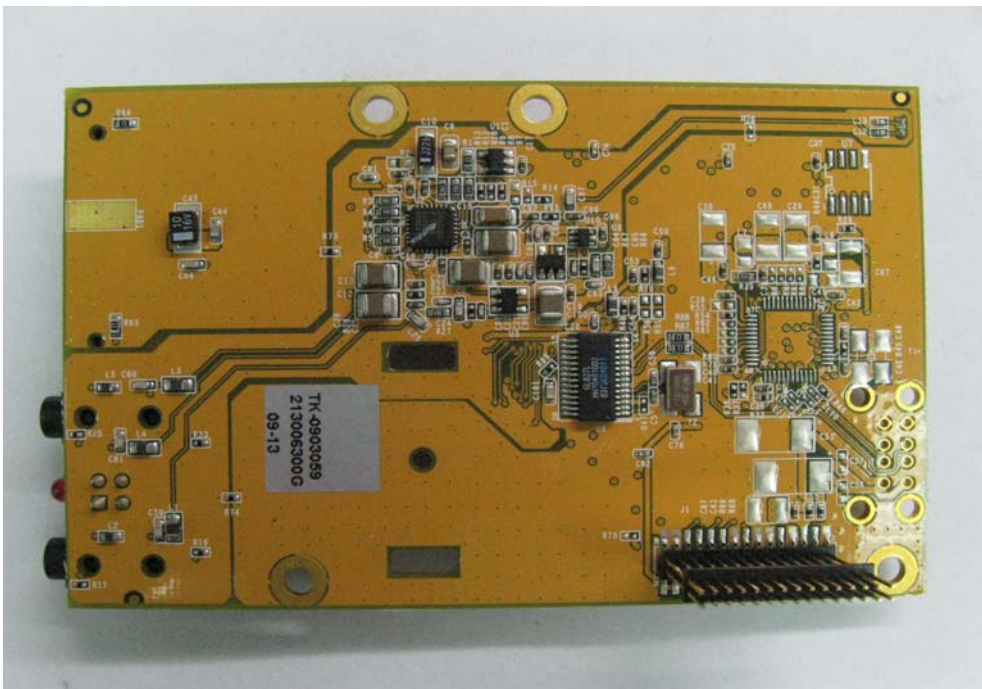
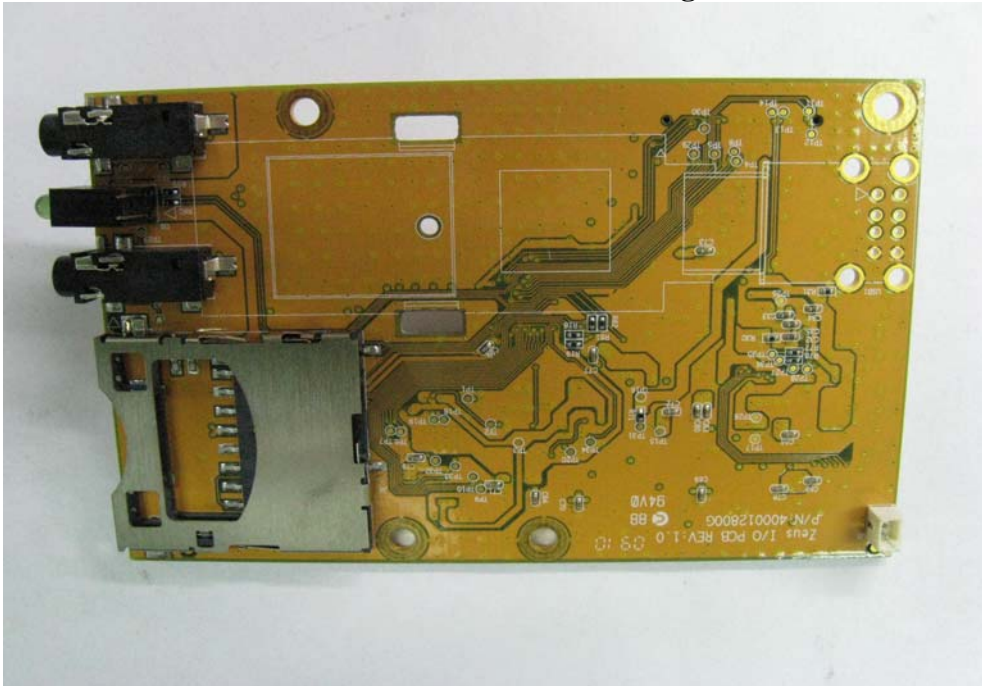


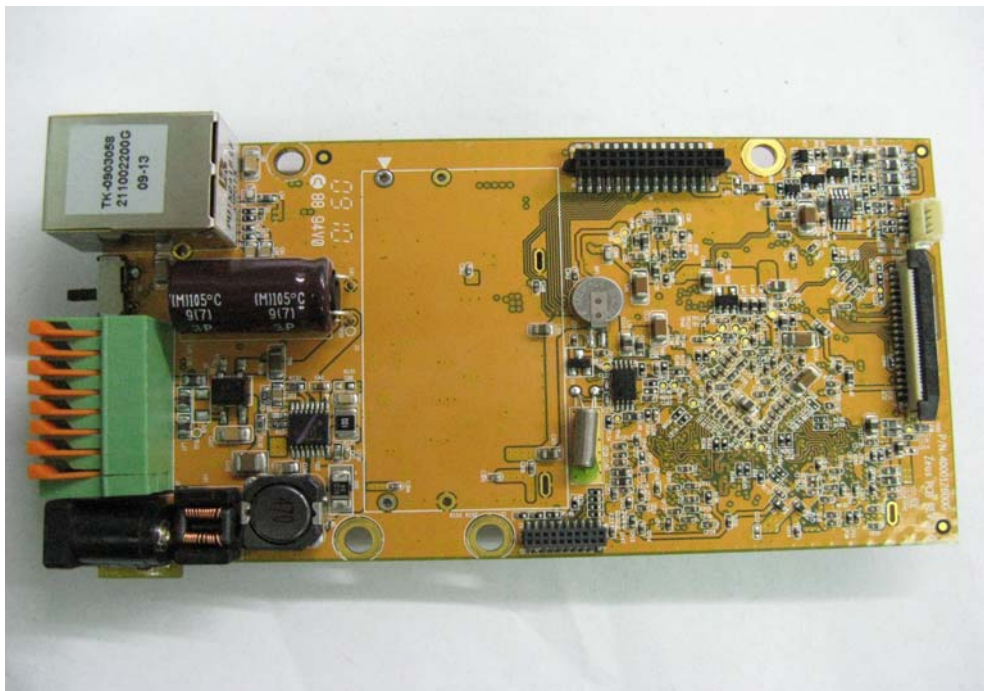
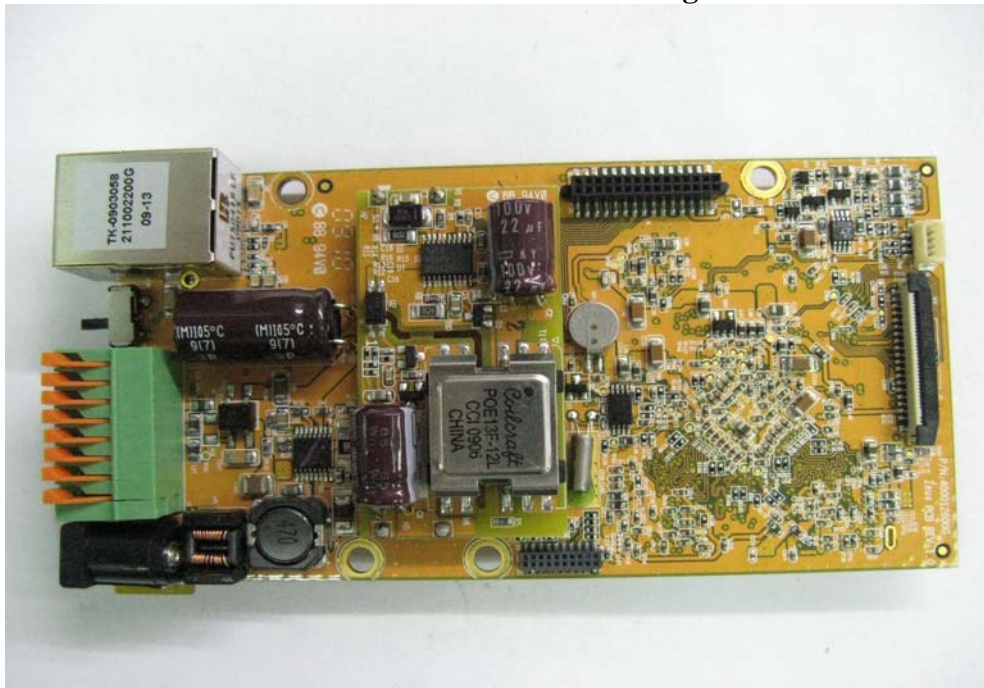
Interior:

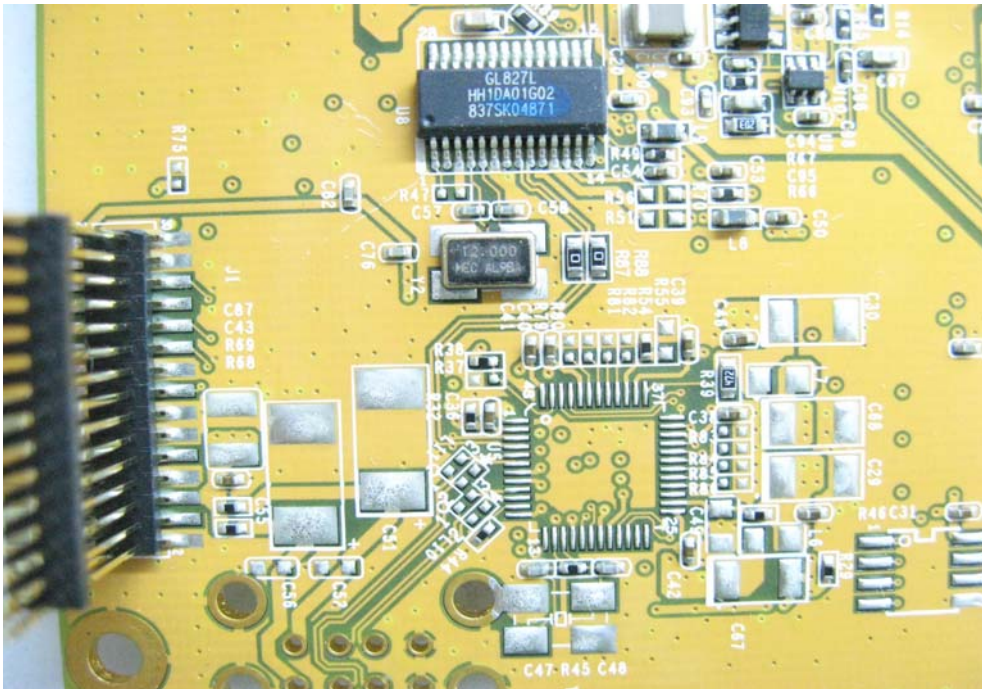
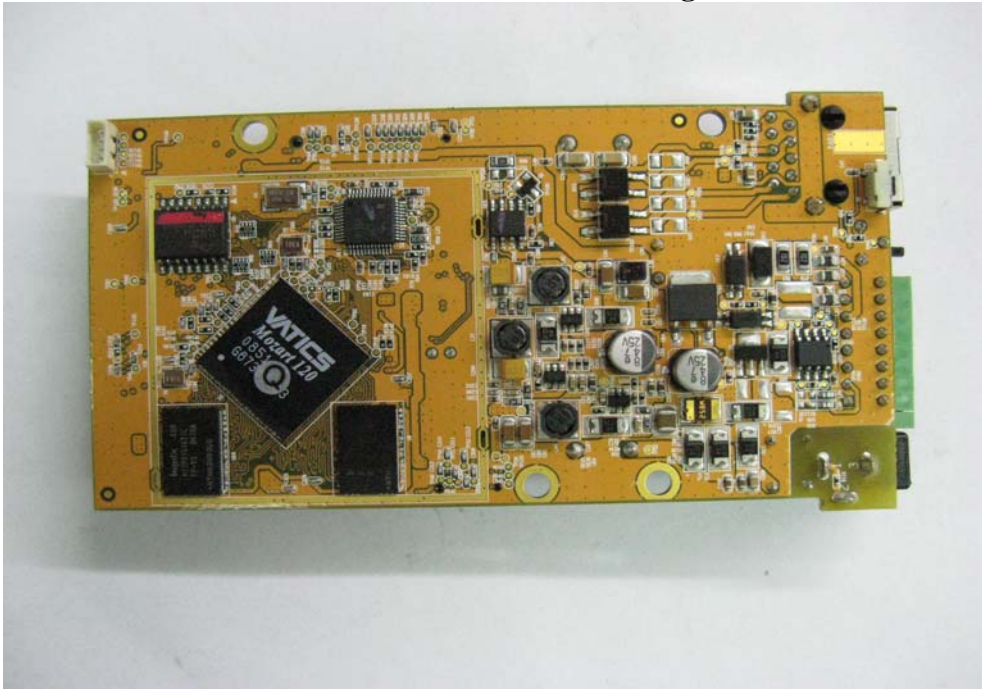


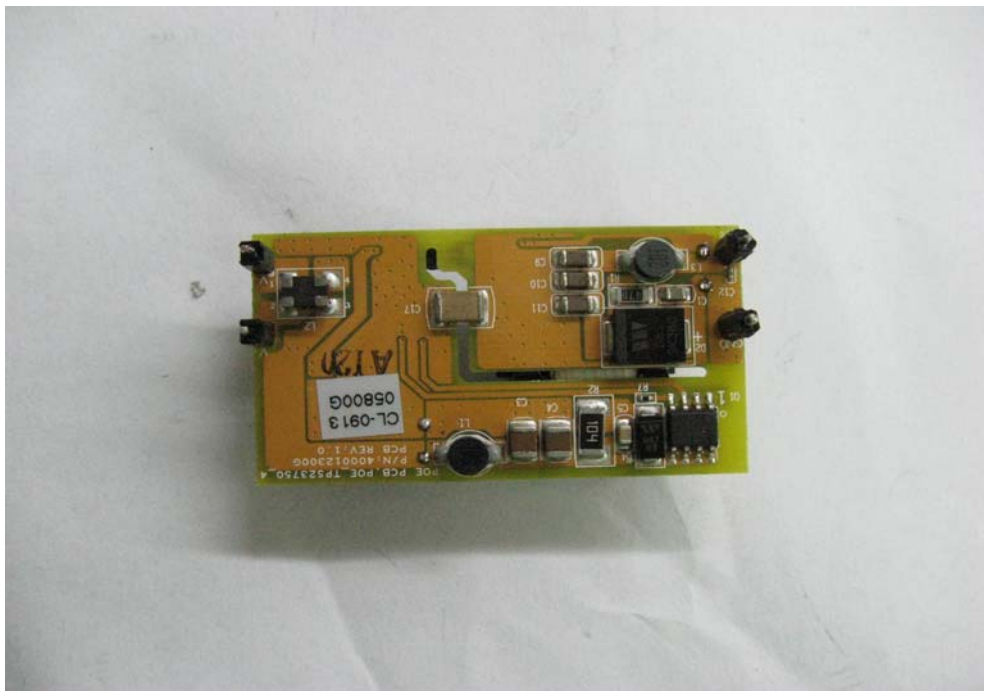
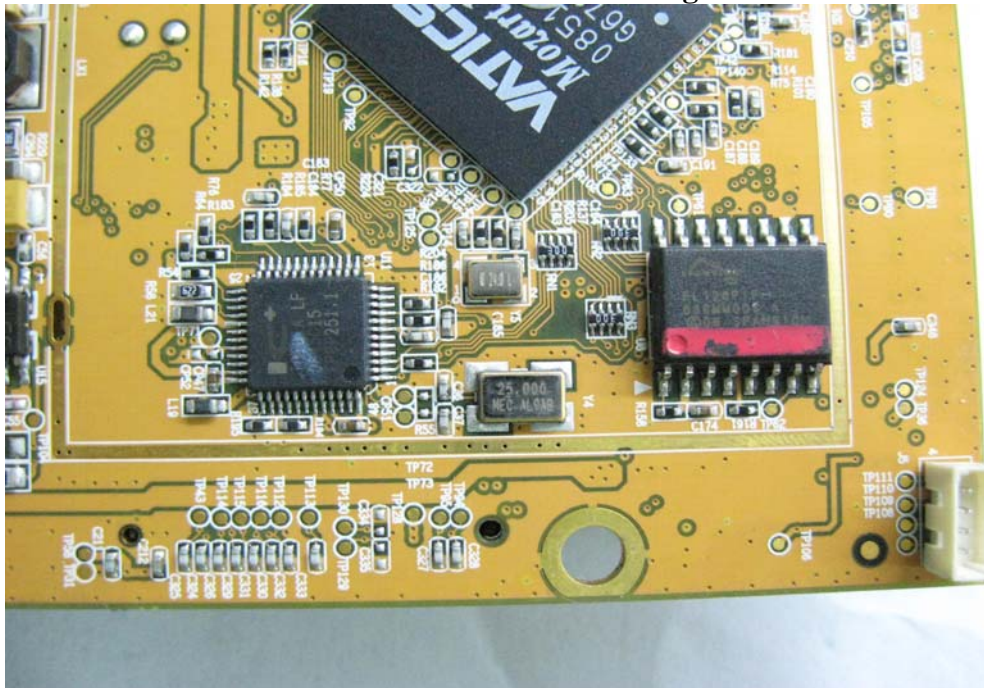


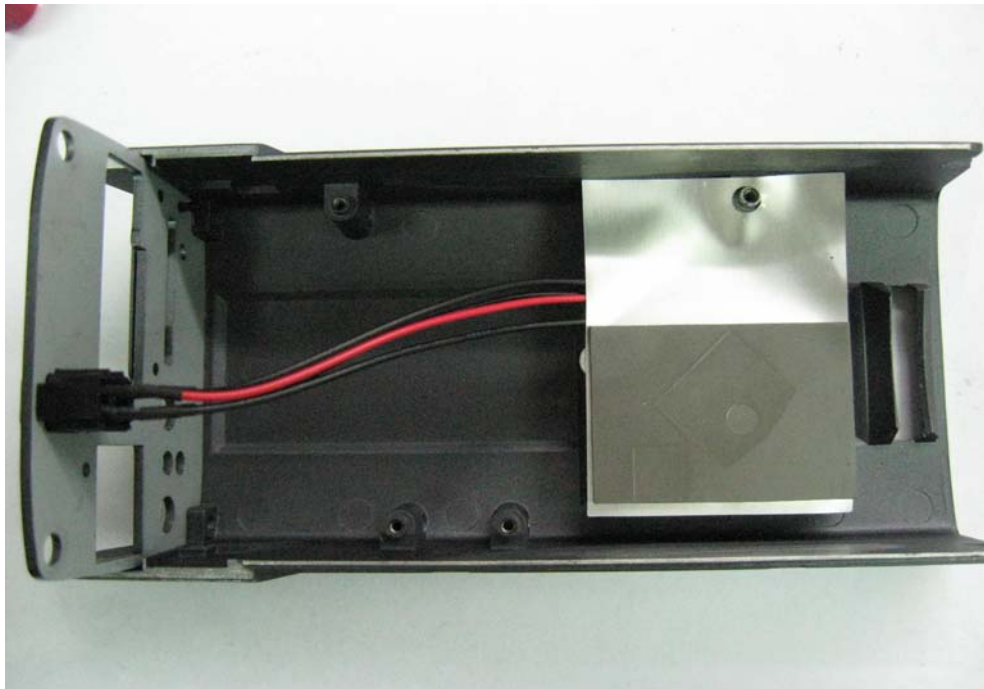












** End of Report **