




VCCI TEST REPORT

According to

VCCI: 2015-04 Class B

Applicant	: Channel Well Technology Co., Ltd.
Address	: No.222, Sec.2, Nankan Rd., Lujhu Township, Taoyuan Hsien, 33855 Taiwan
Manufacturer(1)	: Ningbo Iso Electronic Co., Ltd.
Address(1)	: 10, Chuange-ye Rd., The West of Ningbo Free Trade Zone Ningbo, Zhejiang P.R. China
Manufacturer(2)	: Channel Well Technology (Guangzhou) Co., Ltd.
Address(2)	: Bld. B, Eastern Hi-tech Industrial Base, Zengjiang Street, Zengcheng, Guangzhou, Guangdong Province China.
Equipment	: Power Supply
Model No.	: KPL-xy,x=048,066,y=F KPL-xy-VI (x represents the output wattage; x = 040, 048, 050, 060, 065, 066. y represents the output voltage; y = F, G, V, H, I, W, J, K, L, N, Q, R, M, S)
Trade Mark	: 

I HEREBY CERTIFY THAT :

The sample was received on Aug. 05, 2015 and the testing was carried out on Aug. 12, 2015 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:



Miro Chueh
EMC/RF B.U. Manager



VCCI TEST REPORT

Issued by:

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The test record, data evaluation & Equipment. Under Test configurations represented herein are true and accurate accounts of the measurements of the samples EMC characteristics under the conditions specified in this report.

Laboratory Accreditation:

☐ CerpPASS Technology Corporation Test Laboratory

NVLAP LAB Code:	200954-0
TAF LAB Code:	1439

☒ CerpPASS Technology(SuZhou) Co., Ltd.

NVLAP LAB Code:	200814-0
CNAS LAB Code:	L5515



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History of this test report

■ ORIGINAL.

☐ Additional attachment as following record:

Report No	Version	Date	Description
SEJV1507023	Rev 01	Aug 13,2015	Initial Issue



1. Summary of Test Procedure and Test Results

1.1.Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in **Implementation Regulation for the VOLUNTARY CONTROL of RADIO INTERFERENCE by DATA PROCESSING EQUIPMENT and ELECTRONIC OFFICE MACHINES.**

The energy emitted by this equipment was ***passed*** both Radiated and Conducted Emissions **Class B** limits.

Test Item	Normative References	Test Result	Remarks
Conducted Emission (Mains Ports)	VCCI-Technical Requirement (V-3/2015.04) , CISPR22 : 2008	PASS	Meets Class B Limit Minimum passing margin(AV) is -15.45dB at 25.2580 MHz
Conducted Emission (Telecommunication Ports)	VCCI-Technical Requirement (V-3/2015.04) , CISPR22 : 2008	N/A	N/A
Radiated Emission	VCCI-Technical Requirement (V-3/2015.04) , CISPR22 : 2008	PASS	Meets Class B Limit Minimum passing margin(QP) is -6.65dB at 30.0000MHz



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Product Name:	Power Supply	
Model Name:	KPL-xy,x=048,066,y=F KPL-xy-VI (x represents the output wattage; x = 040, 048, 050, 060, 065, 066. y represents the output voltage; y = F, G, V, H, I, W, J, K, L, N, Q, R, M, S)	
Model Discrepancy:	Product output voltage, output current and the two side of the parts are rated different.	
Housing material:	Plastic case	
Power Supply 1:	Model No:	KPL-060I-VI
	Input AC	100 - 240V~ 50-60Hz 1.7A
	Output DC	+16 .0V – 3.75A 60W
Power Supply 2:	Model No:	KPL-066F-VI
	Input AC	100 - 240V~ 50-60Hz 1.7A
	Output DC	+12 .0V – 5050A 66W
Power Supply 3:	Model No:	KPL-065J-VI
	Input AC	100 - 240V~ 50-60Hz 1.7A
	Output DC	+18 .0V – 3.61A 65W
Power Supply 4:	Model No:	KPL-065M-VI
	Input AC	100 - 240V~ 50-60Hz 1.7A
	Output DC	+24 .0V – 2.71A 65W
Power Supply 5:	Model No:	KPL-065S-VI
	Input AC	100 - 240V~ 50-60Hz 1.7A
	Output DC	+48 .0V – 1.35A 65W
DC Power Cable	Non-shielded, 1.2m	



2.2. Test Manner

- a. During testing, the interface cables and equipment positions were varied according to VCCI-Technical Requirement.
- b. During the test, connect the Load, Meter and EUT, make the EUT at the test mode.
- c. The test modes as follow:

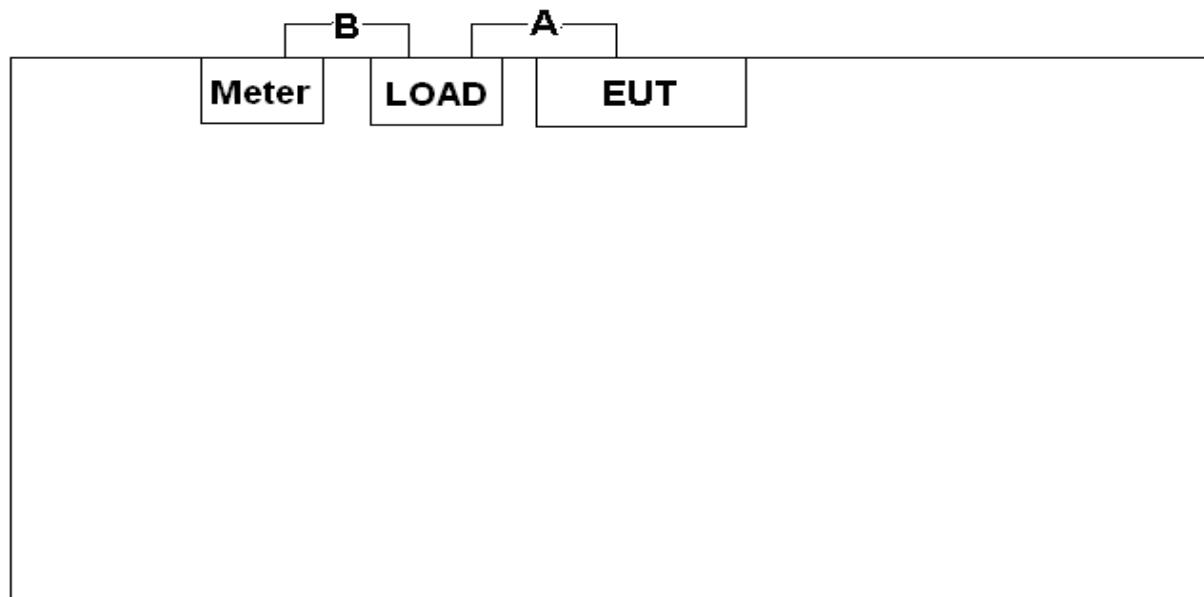
Pre-Test Mode
Mode 1: Full Load for KPL-060I-VI
Mode 2: Full Load for KPL-066F-VI
Mode 3: Full Load for KPL-065J-VI
Mode 4: Full Load for KPL-065M-VI
Mode 5: Full Load for KPL-065S-VI
Mode 6: Half Load for KPL-060I-VI
The worse case was selected as the final test mode and record in the report
Mode 1: Full Load for KPL-060I-VI
Mode 6: Half Load for KPL-060I-VI

2.3. Description of Support Unit

No	Device	Manufacturer	Model No.	Description
1	Load	N/A	N/A	N/A
2	Meter	FLUKE	N/A	N/A



2.4. Connection Diagram of Test System



Use Cable

Item	Cable	Quantity	Description
A	DC Cable	1	Non-shielded, 1.2m
B	Meter Cable	2	Non-shielded, 1.2m



2.5. General Information of Test

<input type="checkbox"/>	Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582
	FCC	TW1079, TW1061, 390316, 228391, 641184
	IC	4934B-1, 4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-3428, R-4218 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz
<input checked="" type="checkbox"/>	Test Site	Cerpass Technology (Suzhou) Co.,Ltd Address: No.66, Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China Tel: +86-512-6917-5888 Fax: +86-512-6917-5666
	FCC	331395
	IC	7290A-1, 7290A-2
	VCCI	T-1945 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test G-227 for radiated disturbance above 1GHz
Frequency Range Investigated:		Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 100MHz
Test Distance :		The test distance of radiated emission below 1GHz from antenna to EUT is 10 M. The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.



2.6. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Test results and Measurement uncertainty without any relationship in the test report.

Measurement	Frequency	Uncertainty
Conducted emissions(LINE)	9KHz-30MHz	+/- 0.6888 dB
Conducted emissions(NEUTRAL)	9KHz-30MHz	+/- 0.7002 dB

Measurement	Polarity	Frequency	Uncertainty
Radiated emissions (below 1GHz)	H	30MHz ~ 200MHz	+/- 4.0677dB
		200MHz ~1000MHz	+/- 3.9131dB
	V	30MHz ~ 200MHz	+/- 4.0678dB
		200MHz ~1000MHz	+/- 3.9142dB
Radiated emissions (above 1GHz)	H	1000MHz ~18000MHz	+/- 3.8904 dB
		18000MHz ~40000MHz	+/-3.9356dB
	V	1000MHz ~18000MHz	+/- 3.8896dB
		18000MHz ~40000MHz	+/- 3.8766dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2008, clause 11, Measurement Uncertainty) determining compliance with the limits shall be based on the results of the compliance measurement. Consequently the measured emissions being less than the maximum allowed emission result in this being a compliant test or passing test.



3. Test of Conducted Emission

3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz on the 100V AC power and return leads of the EUT according to the methods defined in Implementation Regulation for the Voluntary Control of Radio Interference by Data Processing Equipment and Electronic Office Machines, Section 4.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 4.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position producing maximum conducted emissions.

Table 1 Conducted Emission Limits (dB μ V):

Frequency range (MHz)	Class A Equipment		Class B Equipment	
	Quasi Peak	Average	Quasi Peak	Average
0.15 to 0.50	79	66	66 to 56	56 to 46
0.50 to 5	73	60	56	46
5. to 30.	73	60	60	50
Note 1: The lower limits shall apply at the transition frequencies.				
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.				

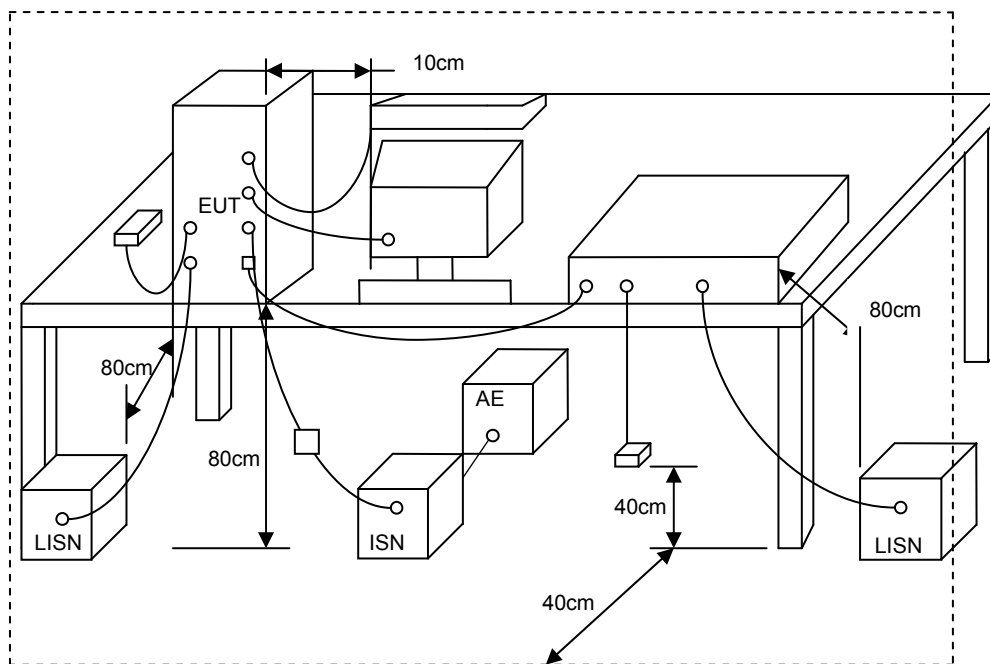
Table 2 - Limits of conducted common mode (asymmetric mode) disturbance at telecommunication ports in the frequency range 0.15 MHz to 30 MHz(dB(μ V)).

Frequency range (MHz)	Class A Equipment				Class B Equipment			
	Voltage		Current		Voltage		Current	
	Quasi Peak	Avg.	Quasi Peak	Avg.	Quasi Peak	Avg.	Quasi Peak	Avg.
0.15 to 0.5	97~ 87	84~74	53~43	40~30	84~74	74~64	40~30	30~20
0.5 to 5	87	74	43	30	30	20	30	20
5 to 30	87	74	43	30	30	20	30	20
Note 1: The limits decrease linearly with the logarithm of the frequency in the range 0.15 to 0.5 MHz.								
Note 2 : The current and voltage disturbance limits are derived for use with an impedance stabilization network (ISN) which presents a common mode (asymmetric mode) impedance of 150 Ω to the telecommunication under test (conversion factor is 20 log ₁₀ 150/1 = 44dB).								

3.2. Test Procedures

- a. The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The CISPR states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

3.3. Typical Test Setup



**3.4. Measurement Equipment**

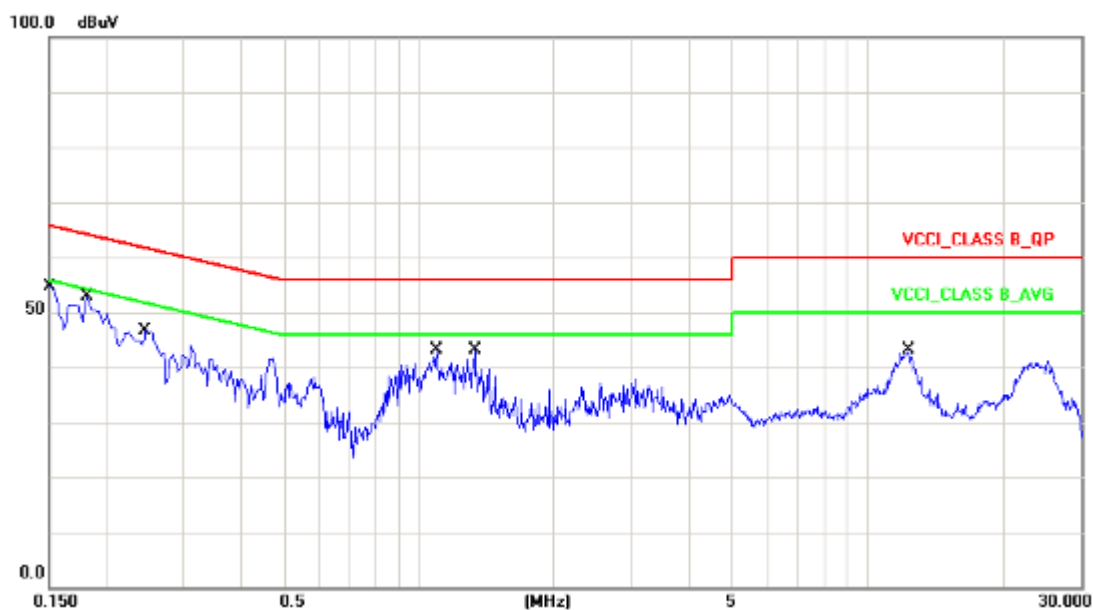
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Test Receiver	R&S	ESCI	100565	2015.03.29	2016.03.28
AMN	R&S	ESH2-Z5	100182	2014.09.04	2015.09.03
Two-Line V-Network	R&S	ENV216	100325	/	/
ISN	FCC	FCC-TLISN-T 2-02	20379	2015.03.29	2016.03.28
ISN	FCC	FCC-TLISN-T 4-02	20380	2015.03.29	2016.03.28
ISN	FCC	FCC-TLISN-T 8-02	20381	2015.03.29	2016.03.28
ISN	TESEQ	ISN ST08	30175	2015.03.29	2016.03.28
Current Probe	R&S	EZ-17	100303	2015.03.29	2016.03.28
Passive Voltage Probe	R&S	ESH2-Z3	100026	2015.03.29	2016.03.28
Pulse Limiter	R&S	ESH3-Z2	100529	2015.03.29	2016.03.28
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2015.04.02	2016.04.01
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



3.5. Test Result and Data

3.5.1 Conducted Emission for Power Port Test Data

Test Mode :	Mode 1: Full Load for KPL-060I-VI		
AC Power :	AC 100V/50Hz	Phase :	LINE
Temperature :	22°C	Humidity :	50%
Pressure(mbar) :	1002	Date:	2015/08/12

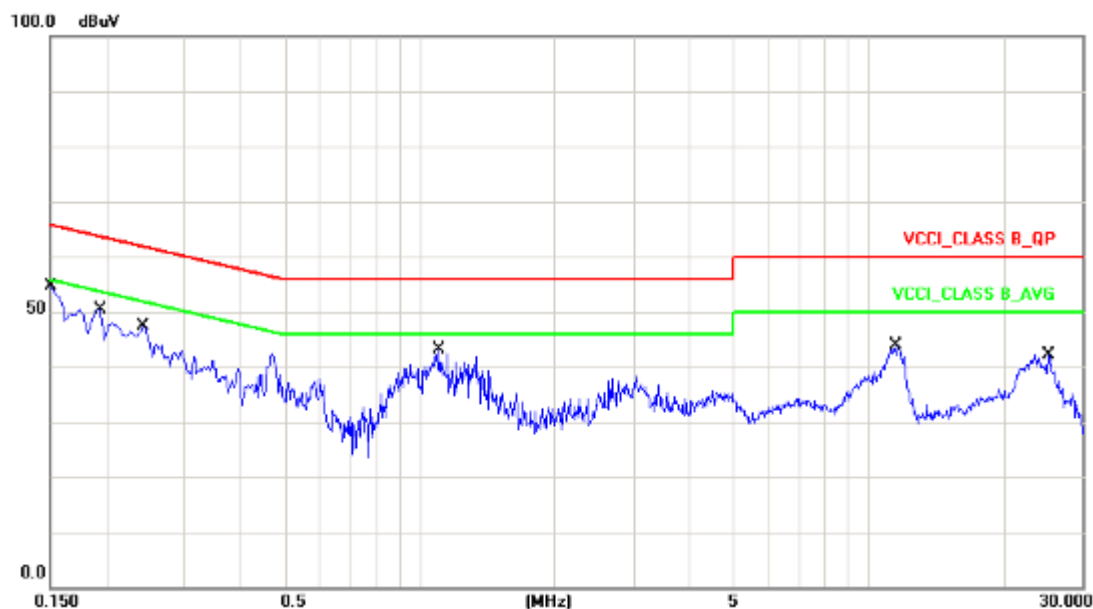


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1516	10.13	40.19	50.32	65.91	-15.59	QP
2	0.1516	10.13	28.87	39.00	55.91	-16.91	AVG
3	0.1819	10.12	36.85	46.97	64.39	-17.42	QP
4	0.1819	10.12	23.21	33.33	54.39	-21.06	AVG
5	0.2460	10.12	32.58	42.70	61.89	-19.19	QP
6	0.2460	10.12	20.14	30.26	51.89	-21.63	AVG
7	1.0940	10.16	26.62	36.78	56.00	-19.22	QP
8	1.0940	10.16	19.99	30.15	46.00	-15.85	AVG
9	1.3340	10.16	25.49	35.65	56.00	-20.35	QP
10	1.3340	10.16	14.01	24.17	46.00	-21.83	AVG
11	12.4220	10.38	26.14	36.52	60.00	-23.48	QP
12	12.4220	10.38	16.74	27.12	50.00	-22.88	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Full Load for KPL-060I-VI		
AC Power :	AC 100V/50Hz	Phase :	NEUTRAL
Temperature :	22 °C	Humidity :	50%
Pressure(mbar) :	1002	Date:	2015/08/12

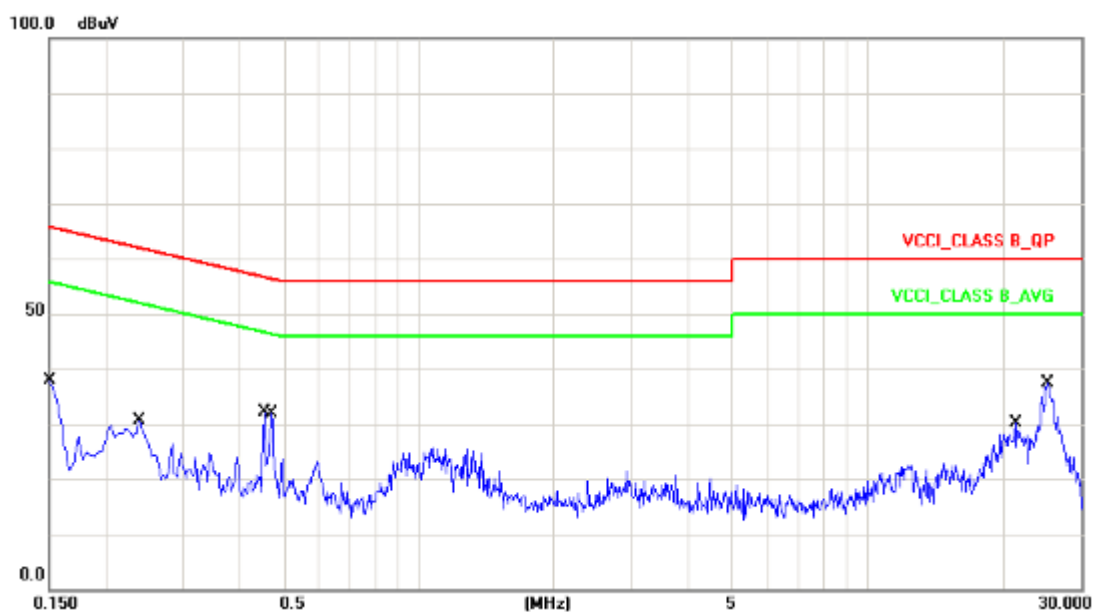


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	40.22	50.35	65.99	-15.64	QP
2	0.1500	10.13	28.54	38.67	55.99	-17.32	AVG
3	0.1940	10.13	33.51	43.64	63.86	-20.22	QP
4	0.1940	10.13	21.00	31.13	53.86	-22.73	AVG
5	0.2420	10.13	30.91	41.04	62.02	-20.98	QP
6	0.2420	10.13	18.08	28.21	52.02	-23.81	AVG
7	1.1100	10.18	25.69	35.87	56.00	-20.13	QP
8	1.1100	10.18	18.01	28.19	46.00	-17.81	AVG
9	11.5060	10.34	28.08	38.42	60.00	-21.58	QP
10	11.5060	10.34	19.14	29.48	50.00	-20.52	AVG
11	25.2580	10.35	27.54	37.89	60.00	-22.11	QP
12	25.2580	10.35	24.20	34.55	50.00	-15.45	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 6: Half Load for KPL-060I-VI		
AC Power :	AC 100V/50Hz	Phase :	LINE
Temperature :	22 °C	Humidity :	50%
Pressure(mbar) :	1002	Date:	2015/08/12

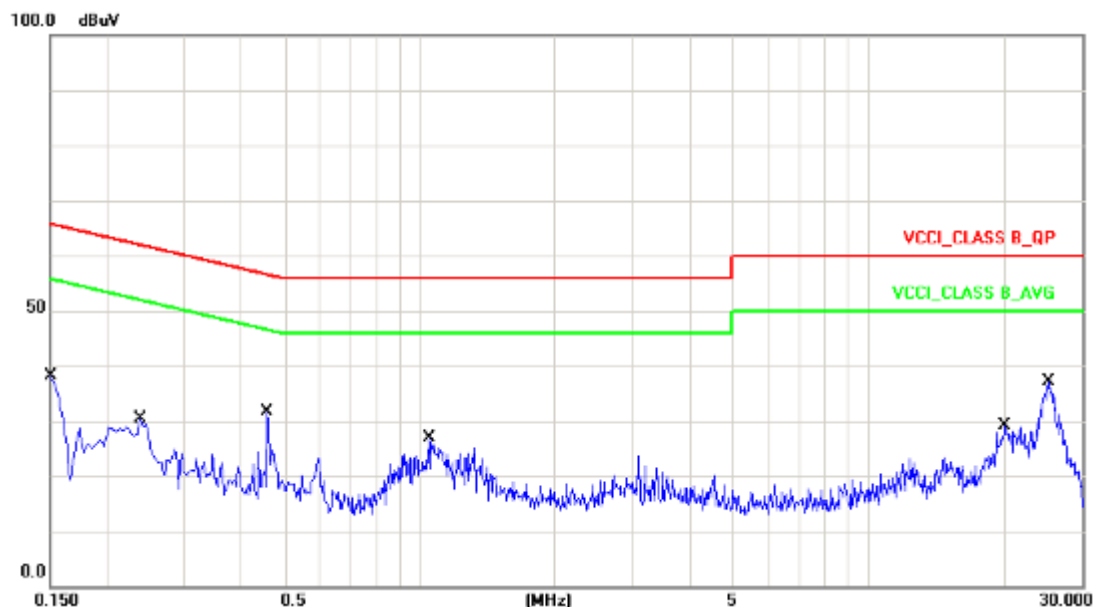


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	23.42	33.55	65.99	-32.44	QP
2	0.1500	10.13	12.10	22.23	55.99	-33.76	AVG
3	0.2380	10.12	13.52	23.64	62.16	-38.52	QP
4	0.2380	10.12	1.25	11.37	52.16	-40.79	AVG
5	0.4540	10.16	12.68	22.84	56.80	-33.96	QP
6	0.4540	10.16	-0.37	9.79	46.80	-37.01	AVG
7	0.4700	10.16	14.43	24.59	56.51	-31.92	QP
8	0.4700	10.16	2.82	12.98	46.51	-33.53	AVG
9	21.4140	10.37	6.15	16.52	60.00	-43.48	QP
10	21.4140	10.37	-4.68	5.69	50.00	-44.31	AVG
11	25.2500	10.43	24.87	35.30	60.00	-24.70	QP
12	25.2500	10.43	22.05	32.48	50.00	-17.52	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 6: Half Load for KPL-060I-VI		
AC Power :	AC 100V/50Hz	Phase :	NEUTRAL
Temperature :	22°C	Humidity :	50%
Pressure(mbar) :	1002	Date:	2015/08/12



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	23.11	33.24	65.99	-32.75	QP
2	0.1500	10.13	11.95	22.08	55.99	-33.91	AVG
3	0.2380	10.13	12.22	22.35	62.16	-39.81	QP
4	0.2380	10.13	1.15	11.28	52.16	-40.88	AVG
5	0.4580	10.15	13.77	23.92	56.73	-32.81	QP
6	0.4580	10.15	2.07	12.22	46.73	-34.51	AVG
7	1.0500	10.18	8.91	19.09	56.00	-36.91	QP
8	1.0500	10.18	2.23	12.41	46.00	-33.59	AVG
9	20.1860	10.44	6.89	17.33	60.00	-42.67	QP
10	20.1860	10.44	-5.62	4.82	50.00	-45.18	AVG
11	25.2540	10.35	25.20	35.55	60.00	-24.45	QP
12	25.2540	10.35	23.01	33.36	50.00	-16.64	AVG

Note: Measurement Level = Reading Level + Correct Factor

Test engineer: 



3.5.2 Conducted Emission for Telecommunication Port Test Data

Note: The EUT doesn't have the telecommunication port.

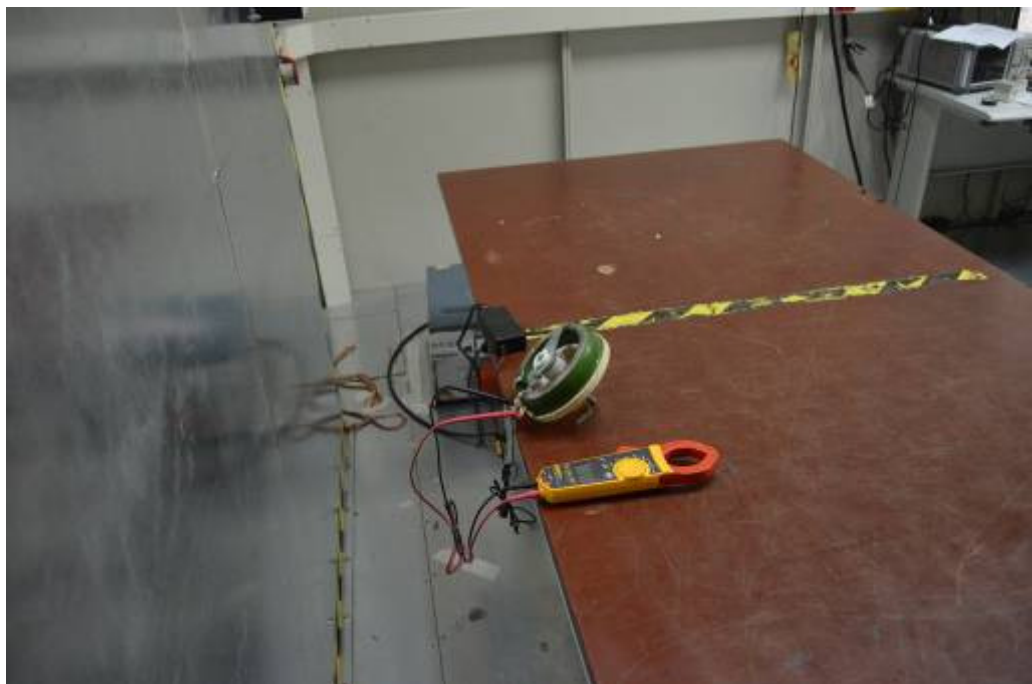


3.6. Test Photographs of Power Port

Front View



Rear View





4. Test of Radiated Emission

4.1. Test Limit

Radiated emissions from 30 MHz to 6000 MHz were measured with a bandwidth of 120 kHz according to the methods defines in implementation Regulation for the Voluntary Control of Radio Interference by Data Processing Equipment and Electronic Office Machines. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 5.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

Table 1 – Limits for radiated disturbance at a measuring distance of 10 m (dB(μV/m))

Frequency range(MHz)	Class A Equipment	Class B Equipment
	Quasi-peak	Quasi-peak
30 to 230	40	30
230 to 1000	47	37
NOTE 1 The lower limit shall apply at the transition frequency.		
NOTE 2 Additional provisions may be required for cases where interference occurs.		

The EUT shall meet the limits of below Table when measured in accordance with the method described in European Standard EN 55022 Clause 10 and the conditional testing procedure described below.

Table 2 – Limits for radiated disturbance at a measuring distance of 3 m (dB (μV/m))

Frequency range (GHz)	Class A Equipment		Class B Equipment	
	Avg.	Peak	Avg.	Peak
1 to 3	56	76	50	70
3 to 6	60	80	54	74
NOTE The lower limit applies at the transition frequency.				

• Conditional testing procedure:

The highest internal source of an EUT is defined as the highest frequency generated or used within the EUT or on which the EUT operates or tunes.

If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz.

If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz.

If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz.

If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 6 GHz, whichever is less.

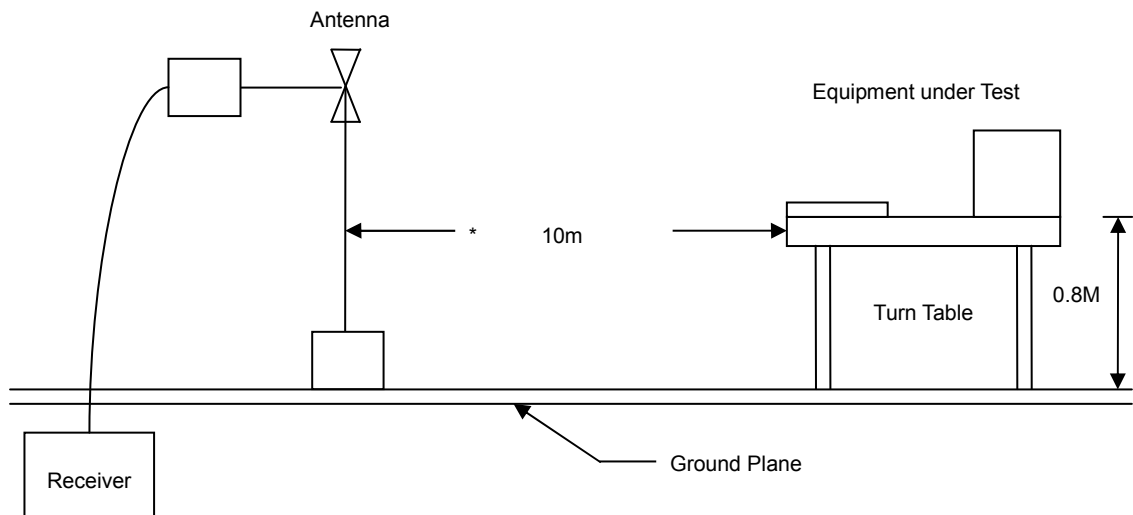


4.2. Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

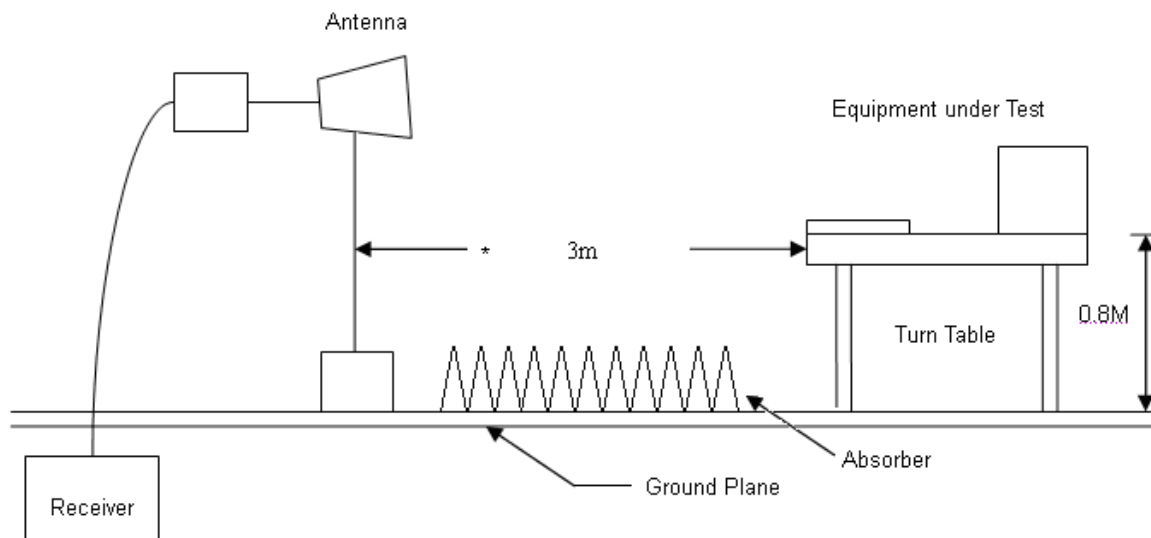
4.3. Typical Test Setup

Below 1GHz Test Setup





Above 1GHz Test Setup



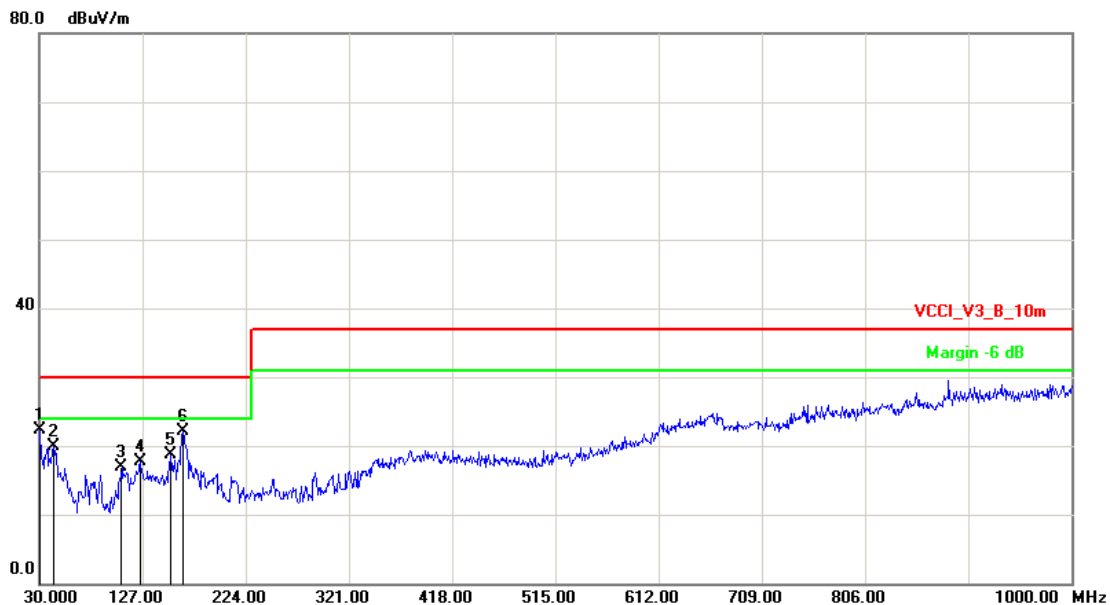
4.4. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESCI7	100968	2015.03.29	2016.03.28
Preamplifier	Agilent	87405B	My39500554	2015.03.29	2016.03.28
Preamplifier	Agilent	8449B	3008A02342	2015.03.29	2016.03.28
Bilog Antenna	Sunol Science	JB1	A072414-1	2015.04.22	2016.04.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2015.04.20	2016.04.19
Spectrum Analyzer	R&S	FSP40	100324	2015.03.29	2016.03.28
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-001	2015.04.02	2016.04.01
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



4.5. Test Result and Data (30MHz ~ 1GHz)

Test Mode :	Mode 1: Full Load for KPL-060I-VI		
AC Power :	AC 100V/50Hz	Ant. Polarization:	Horizontal
Temp :	23°C	Humidity :	52%
Pressure(mbar) :	1002	Date :	2015/08/12

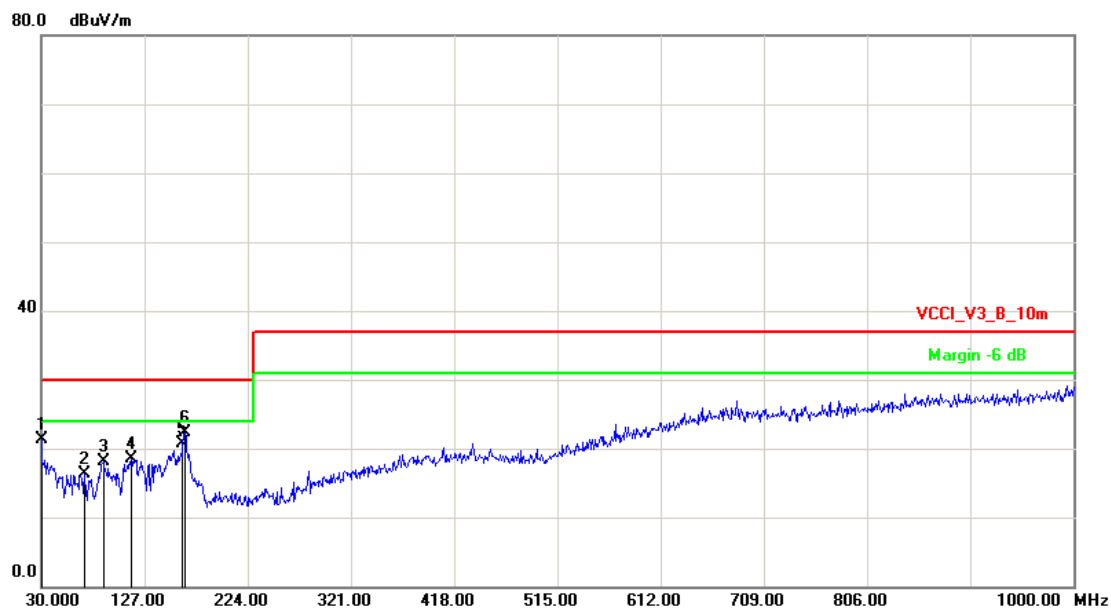


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9697	-5.75	27.98	22.23	30.00	-7.77	peak	400	55
2	43.5799	-9.23	29.09	19.86	30.00	-10.14	peak	100	215
3	107.5999	-11.66	28.61	16.95	30.00	-13.05	peak	400	220
4	125.0600	-9.82	27.49	17.67	30.00	-12.33	peak	300	156
5	153.1896	-10.92	29.56	18.64	30.00	-11.36	peak	400	227
6	164.8300	-11.76	33.86	22.10	30.00	-7.90	peak	400	36

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Full Load for KPL-060I-VI		
AC Power :	AC 100V/50Hz	Ant. Polarization:	Vertical
Temp :	23°C	Humidity :	52%
Pressure(mbar) :	1002	Date :	2015/08/12

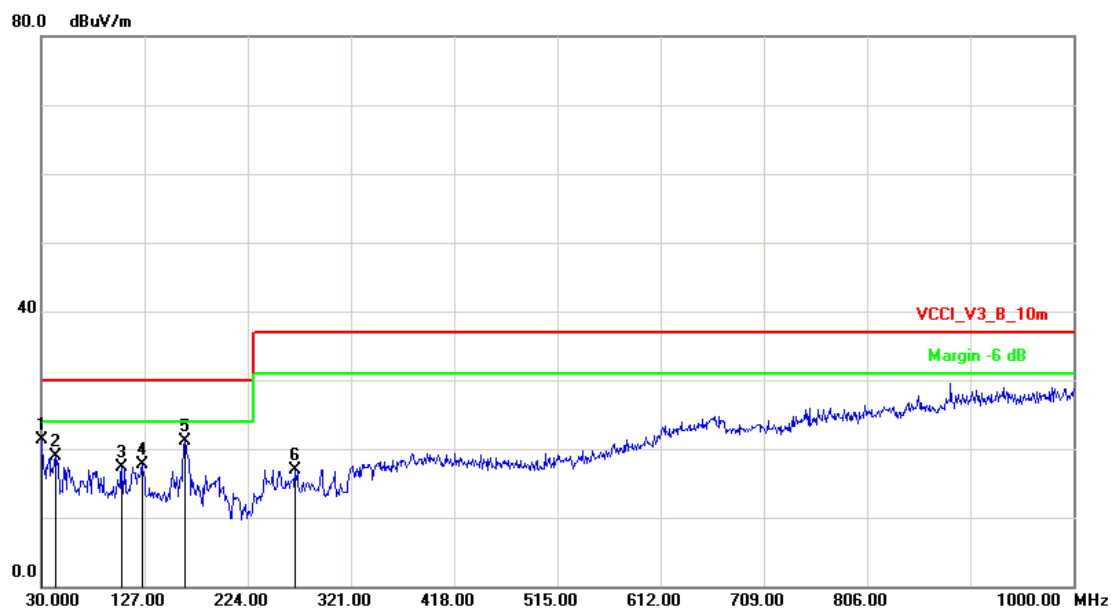


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-5.48	26.83	21.35	30.00	-8.65	peak	100	55
2	70.7399	-15.68	31.90	16.22	30.00	-13.78	peak	100	156
3	88.2000	-15.37	33.54	18.17	30.00	-11.83	peak	400	221
4	114.3900	-10.65	29.21	18.56	30.00	-11.44	peak	200	258
5	162.8899	-11.65	32.31	20.66	30.00	-9.34	peak	100	41
6	164.8300	-11.76	33.97	22.21	30.00	-7.79	peak	100	22

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 6: Half Load for KPL-060I-VI		
AC Power :	AC 100V/50Hz	Ant. Polarization:	Horizontal
Temp :	23°C	Humidity :	52%
Pressure(mbar) :	1002	Date :	2015/08/12

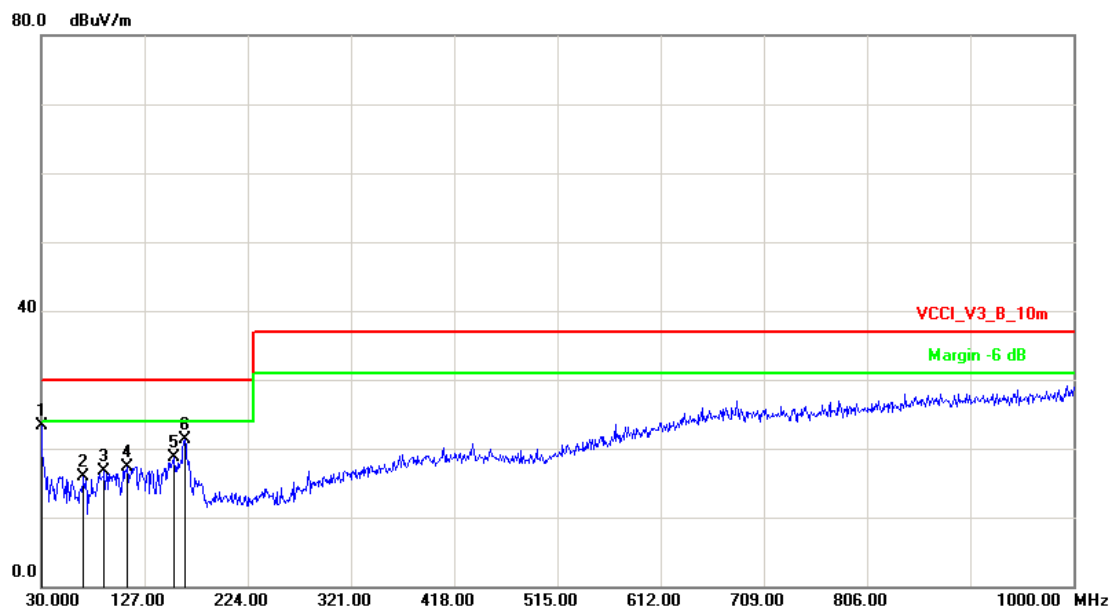


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9696	-5.75	26.98	21.23	30.00	-8.77	peak	400	33
2	43.5799	-9.23	28.09	18.86	30.00	-11.14	peak	100	229
3	105.6598	-11.95	29.33	17.38	30.00	-12.62	peak	400	254
4	125.0600	-9.82	27.49	17.67	30.00	-12.33	peak	400	15
5	164.8300	-11.76	32.86	21.10	30.00	-8.90	peak	100	126
6	268.6200	-11.20	28.07	16.87	37.00	-20.13	peak	400	212

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 6: Half Load for KPL-060I-VI		
AC Power :	AC 100V/50Hz	Ant. Polarization:	Vertical
Temp :	23°C	Humidity :	52%
Pressure(mbar) :	1002	Date :	2015/08/12



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-5.48	28.83	23.35	30.00	-6.65	peak	400	5
2	69.7699	-15.58	31.54	15.96	30.00	-14.04	peak	100	212
3	89.1700	-15.29	32.00	16.71	30.00	-13.29	peak	200	330
4	110.5100	-11.23	28.48	17.25	30.00	-12.75	peak	100	285
5	155.1297	-11.08	29.78	18.70	30.00	-11.30	peak	100	229
6	164.8300	-11.76	32.97	21.21	30.00	-8.79	peak	100	61

Note: Measurement Level = Reading Level + Correct Factor



4.6. Test Photographs (30MHz~1GHz)

Front View



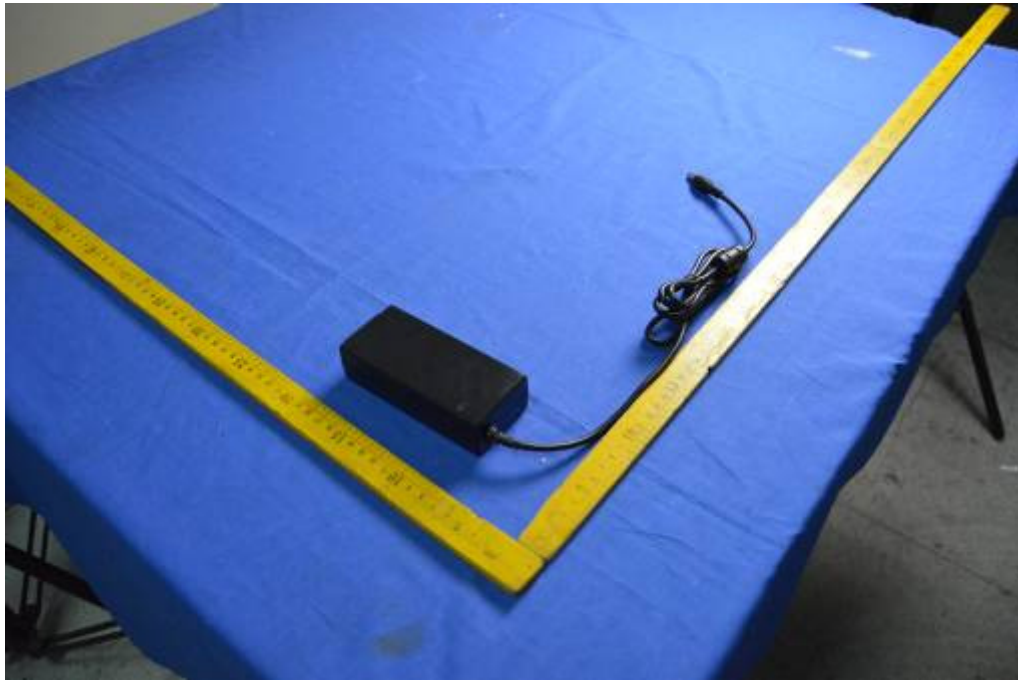
Rear View



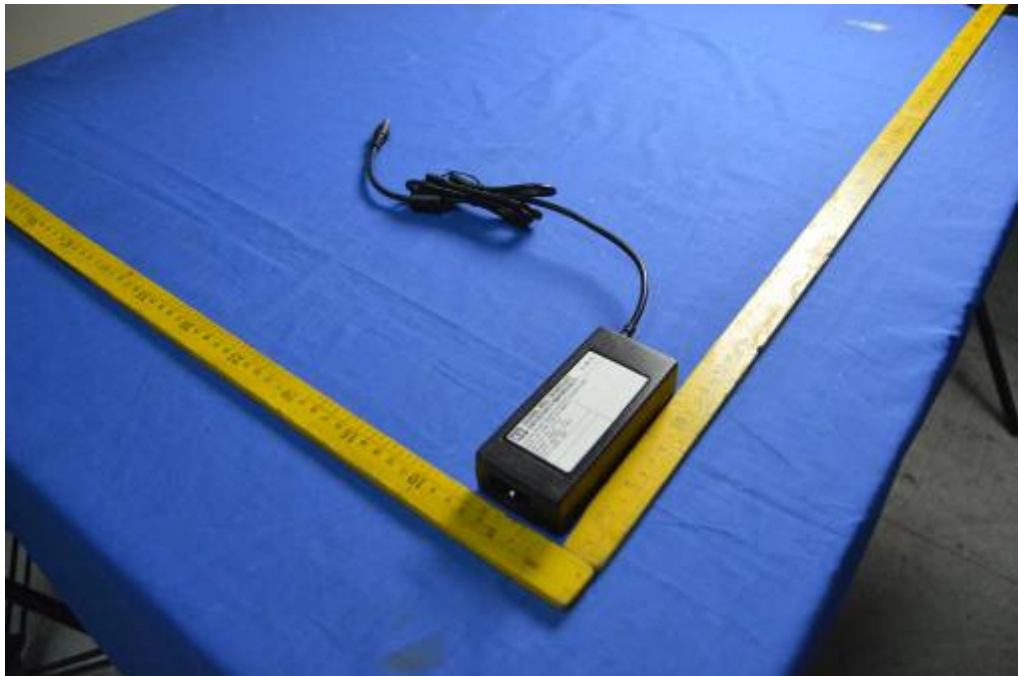


5. Photographs of EUT

1) EUT Photo(KPL-060I-VI)

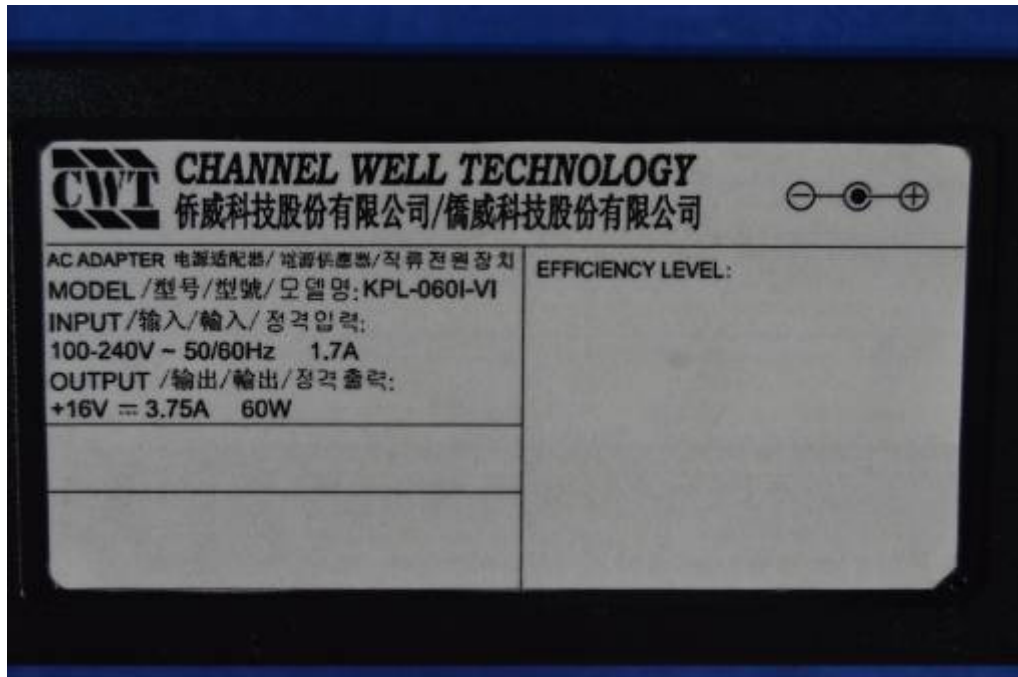


2) EUT Photo





3) EUT Photo



4) EUT Photo





5) EUT Photo



6) EUT Photo





7) EUT Photo

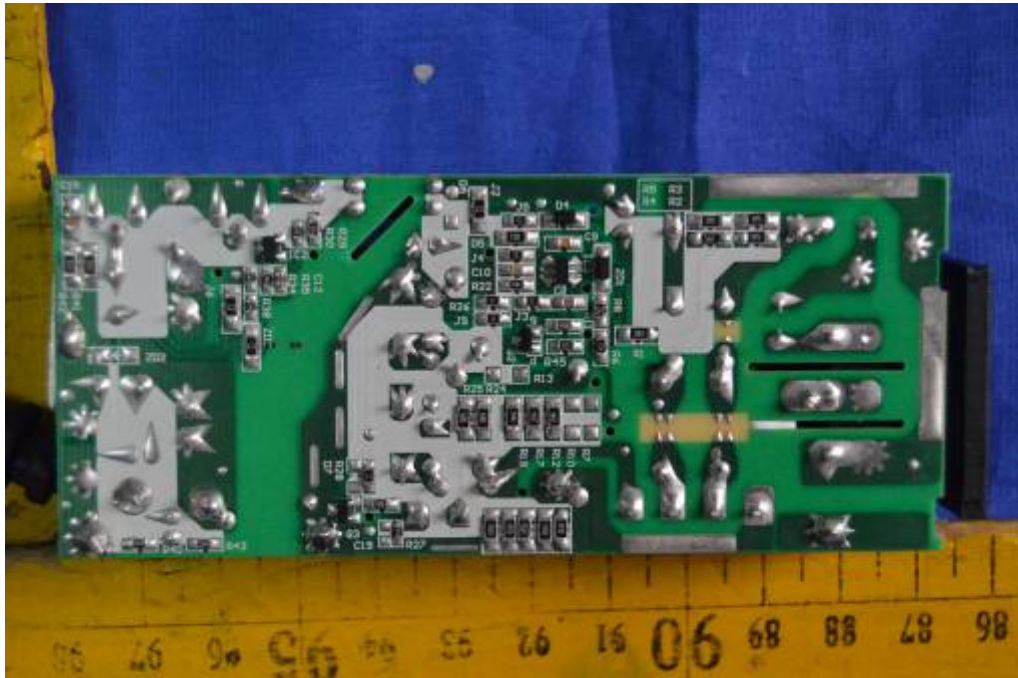


8) EUT Photo





9) EUT Photo



10) EUT Photo(KPL-066F-VI)

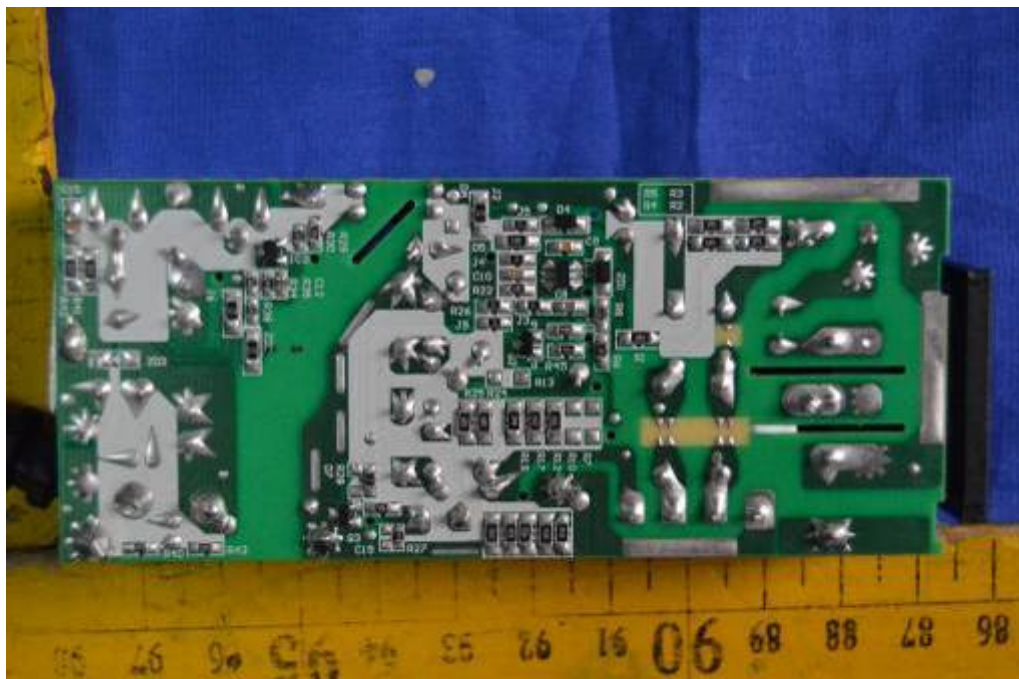




11) EUT Photo(KPL-066F-VI)



12) EUT Photo(KPL-066F-VI)





13) EUT Photo(KPL-065J-VI)

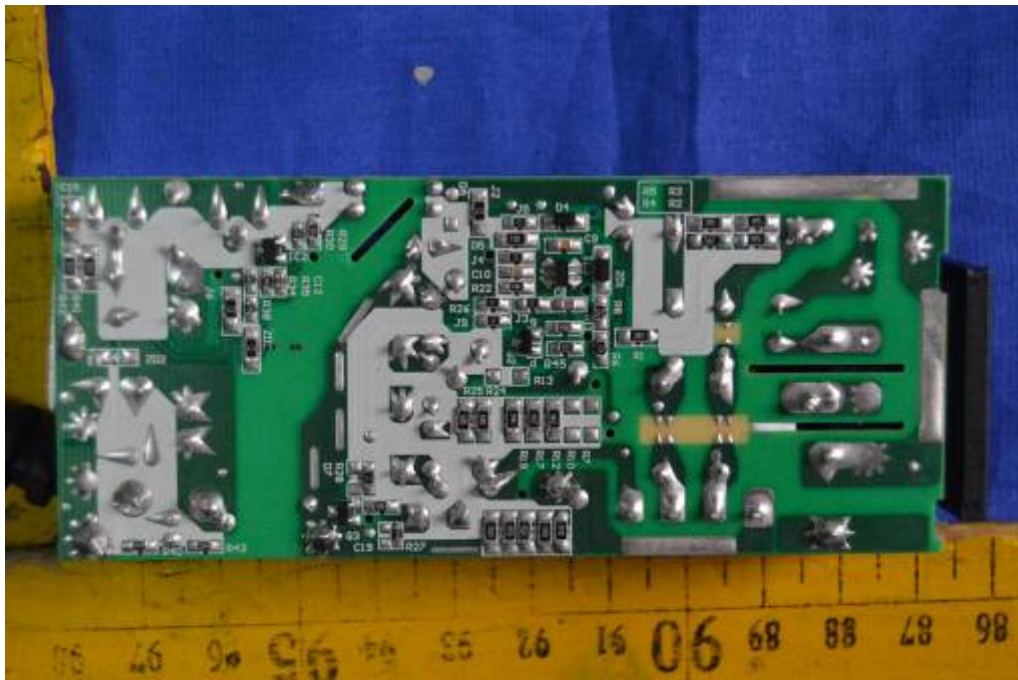


14) EUT Photo

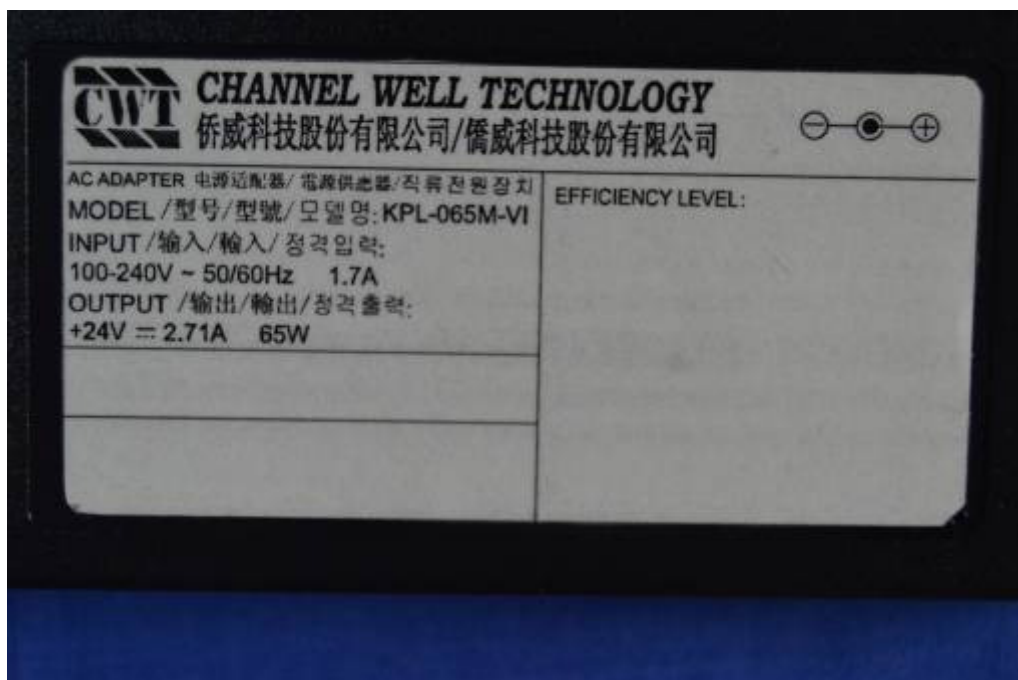




15) EUT Photo



16) EUT Photo(KPL-065M-VI)

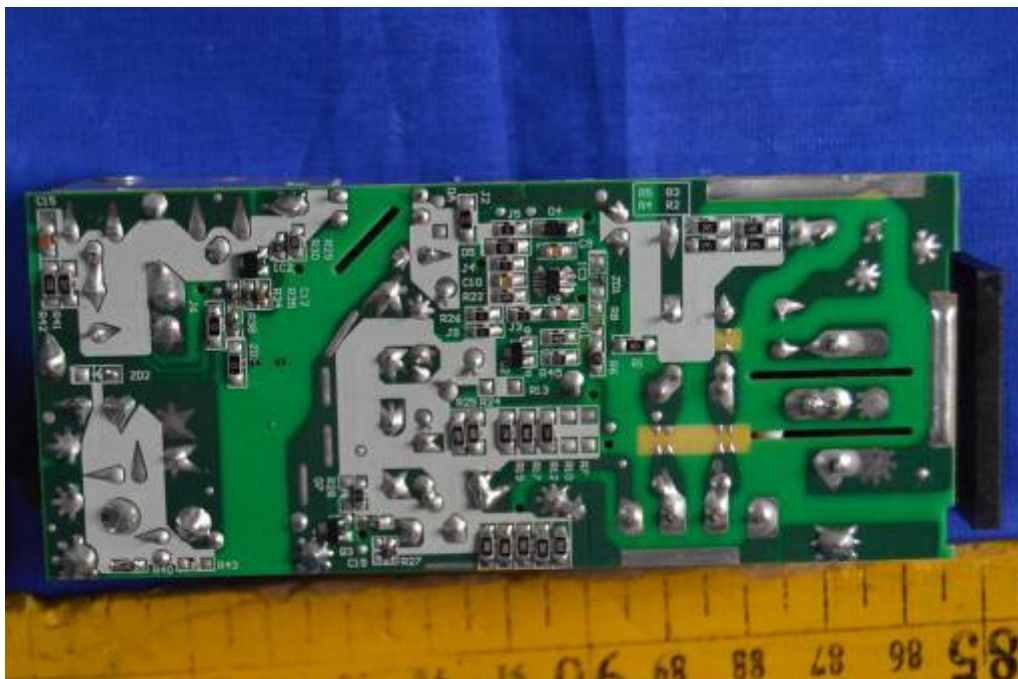




17) EUT Photo



18) EUT Photo





19) EUT Photo(KPL-065S-VI)



20) EUT Photo





21) EUT Photo

