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Project: 11CA07637  
File: TC8352  
Report: 11CA07637-FCC  
Date: June 14, 2011  
Model: 240-030-960

## **FCC Certification Report**

**For**

**240-030-960  
26" LCD Monitor**

**ADVAN Int'l Corp.  
47817 Fremont Blvd. Fremont CA 94538, Fremont, California, U.S.A**

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Project Number: 11CA07637  
Model Number: 240-030-960  
Client Name: ADVAN Int'l Corp.

File Number TC8352

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### **Summary of Test Results:**

The following tests were performed on a sample submitted for evaluation of compliance with 47 CFR Part 15.107 (a) / 47 CFR Part 15.109 (g) Class B.				
Test #	Test Name Test Requirement/Specification	Compliant	Not Compliant	See Remark
1	AC Power line Conducted Emission Test	X	-	-
2	Radiated Emission Test	X	-	-

### **Conclusion:**

The tests listed in the Summary of Testing section of this report have been performed as a witness testing and the results recorded by UL Korea Ltd. in accordance with the procedures stated in each test requirement and specification. The test list was determined by the Applicant as being applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

The equipment under test has

- ☒ Met the technical requirements  
☐ Not met the technical requirements



Tested by  
Sung Hoon Baek, Project Engineer  
Conformity Assessment Services – 3014ASEO  
UL Korea Ltd.  
June 3, 2011



Reviewed by  
Kyungyong, Kim, EMC Section Manager  
Conformity Assessment Services – 3014ASEO  
UL Korea Ltd.  
June 14, 2011

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Model Number: 240-030-960  
Client Name: ADVAN Int'l Corp.

### **Test Report Details**

Test Report No: 11CA07637-FCC  
File No TC8352  
Tests Performed By: UL Korea Ltd.  
33<sup>rd</sup> FL. GFC Bldg. 737 Yeoksam-dong, Kangnam-ku, Seoul, 135-984, Korea  
Test Site: CHUNGBUK TECHNOPARK  
685-3 Yangcheong-ri, Ochang-eub, Cheongwon-kun, Chungbuk-province, Republic of Korea  
The test facility was deemed to have the environment and capabilities necessary to perform the tests included in the test package.  
Applicant: ADVAN Int'l Corp.  
47817 Fremont Blvd. Fremont CA 94538, Fremont, California, U.S.A  
Manufacturer: ADVAN Int'l Corp.  
47817 Fremont Blvd. Fremont CA 94538, Fremont, California, U.S.A  
Factory D&T Inc.  
59-9 JANG-DONG YUSEONG-GU DAEJEON 305-343 KOREA  
Trademark: N/A

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Model Number: 240-030-960  
Client Name: ADVAN Int'l Corp.

Applicant Contact: Jun Ho Jang  
Title: Regulatory Manager  
Phone: 82-2-783-5197  
E-mail: andyjang@advancorp.com  
Product Type: 26" LCD Monitor  
Model Number: 240-030-960  
FCC ID: QVXAMM260WTDS  
Model Number multiple listing: Vision Elect HDTV, 0240030960  
The manufacturer has declared to all the multiple Model names into the basic Model without any further evaluation by UL.  
Product standards: 47 CFR Part 15.107 (a) / 47 CFR Part 15.109 (g) Class B.  
Test Procedure: ANSI C63.4:2003  
Sample Serial Number: N/A  
Sample Receive Date: May 12, 2011  
Testing Start Date: May 12, 2011  
Date Testing Complete: May 30, 2011  
Test Report Date: June 3, 2011  
**Overall Results: Pass**

UL Korea Ltd. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this Model are manufactured with identical electrical and mechanical components. UL Korea Ltd. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL Korea Ltd. issued reports.

## REPORT DIRECTORY

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## 1. General product description

### 1.1 Equipment Description

Description:
The 240-030-960 (Vision Elect HDTV, 0240030960) LCD Monitor intended for use in endoscopic surgical applications.

### 1.2 Details of Test Equipment (EUT)

Equipment Configuration:				
No.	Product Type	Manufacturer	Model	Comments
1	26" LCD Monitor	ADVAN Int'l Corp.	240-030-960 (Vision Elect HDTV, 0240030960)	-
2	AC/DC Adapter	Bridge Power Corp.	JMW1150KA2400F**	Connected With 26" LCD Monitor
3	Extension Cable	-	1501047001	75ft DC extension cable, Stryker P/N 240-030-952
4	Extension Cable	-	1501047	15ft DC extension cable, Stryker P/N 240-030-951
5	Extension Cable	-	1501047002	5ft DC extension cable
6	DVI cable	-	-	-
7	VGA HDDB15 cable	-	-	-
8	BNC cable	-	-	-
9	S-Video cable	-	-	-
10	Hospital-grade AC power cord	-	-	-

### 1.3 Technical Data:

Specification	
LCD Display Panel	25.54 inches (a-Si TFT Active matrix LCD)
Synchronization	2.5 - 5.0 Vpp separated sync
Pixel Pitch	0.2865(W) × 0.2865(H)
Display Colors	16 million colors
Input Signal	1 × DVI
	1 × VGA
	1 × HD/SD-SDI
	1 × C-Video/SOG
	1 × S-Video
	1 × Component (Y/G, Pb/B, Pr/R, H/CS, VS)

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 Client Name: ADVAN Int'l Corp.

	1 × Optical (optional)
Maximum Pixel Clock	170MHz
Electrical	
Power Adapter	AC 100-240V; DC 24V
Power Consumption	150W (max)
Current	Direct
Dimensions	
Dimensions (W × H × D)	616.4 × 428.8 × 121.2mm (24.27 × 16.88 × 4.77 inches)
Weight	19.62lbs







#### 1.4 EUT Internal operating frequency

Frequency (MHz)	Description	Frequency (MHz)	Description
154MHz	Display clock	Pixel Clock	154MHz
192MHz	Memory clock	-	-

#### 1.5 Technical descriptions and documents:

No.	Document Title and Description
1	240-030-960 (Vision Elect HDTV) User Guide
*Note: The manufacturer provided the following document.	

#### 1.6 Equipment Marking Plate:

Produced for / 产品商标 <b>stryker</b> <sup>®</sup> Stryker Endoscopy 5900 Optical Court, San Jose, CA 95138 USA (408) 754-2000 (800) 624-4422 www.stryker.com		    	
REF / 产品型号: 240-030-960 产品名称 / 液晶彩色显示器 <b>26" VISION ELECT HDTV SURGICAL VIEWING MONITOR</b> DC 24V 6.25A <b>SN</b>		Stryker European Rep - RA/QA Manager ZAC Satolas Green Pusignan Ave, De Satolas Green 69881 MEYZIEU Cedex, France	
AC/DC Adapter Manufacturer: JEC Korea Model: JMW1150KA2400F07 <b>CAUTION - See accompanying documents 注意事项请参阅随机文件</b> <b>CAUTION - ELECTRIC SHOCK 注意触电危险</b> "To avoid electric shock, do not open the cabinet. Refer servicing to qualified personnel only." "请不要打开机箱, 以防触电. 维修需通过专业人员进行."		CLASSIFIED  51 LJ Medical Equipment E215822 UL 60601-1 CAN/CSA C 22.2 NO.601.1 <b>FCC ID: QVXAMM260WTDS</b> This device is compliance 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. <b>Made in Korea ID: D&amp;T 03</b> 韩国制造 生产厂: D&T Inc.	

## 2. Test condition

### 2.1 Equipment Used During Test:

Use*	Product Type	Manufacturer	Model	Comments
EUT	26" LCD Monitor	ADVAN Int'l Corp.	240-030-960 (Vision Elect HDTV, 0240030960)	-
EUT	AC/DC adapter	Bridge Power Corp.	JMW1150KA2400F**	Connected With WiSe™ HDTV Receiver and LCD Monitor
EUT	Power Adapter, 24V/5V	Stryker	0240030980	DC/DC splitter
AE	WiSe™ HDTV Receiver	Stryker	0240030972	FCC ID: VQSAMN12100R44
AE	PC	DELL	OPTIPLEX 760	Used for DVI, D-sub
AE	USB mouse	DELL	M-UAR DEL7	-
AE	USB Keyboard	DELL	SK8175	-
AE	Headset	PILLAR	CH-1700	-
AE	Printer	SAMSUNG	ML-2250G	-
AE	HD & SD Test Generator	Doremi	HDG-20	Used for SDI Mode
AE	Pattern generator	Chroma	22291	Used for Wireless RGB, C-video, S-Video and Component Mode
AE	LCD Color Display	ADVAN Int'l Corp.	240-030-960 (Vision Elect HDTV)	Used for SDI out function
AE	AC/DC adapter	Bridge Power Corp.	JMW1150KA2400F**	Connected to LCD monitor
AE	WiSe™ HDTV Transmitter	Stryker	240-030-971	Used for Wireless RGB
AE	Extension Cable	-	1501047001	75ft DC extension cable, Stryker P/N 240-030-952
AE	Extension Cable	-	1501047	15ft DC extension cable, Stryker P/N 240-030-951
AE	Extension Cable	-	1501047002	5ft DC extension cable
* <b>Note:</b> EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, SIM - Simulator (Not Subjected to Test)				



## 2.2 Input/output Ports:

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Mains	AC	1.8 m	Unshielded	Hospital-grade AC Power cord
2	DVI In	I/O	1.8 m	Shielded	29 pin DVI-I
3	VGA In	I/O	1.8 m	Shielded	15 pin D-Sub
4	SDI In, Out	I/O	2 m	Shielded	BNC
5	S-Video In	I/O	1.8 m	Shielded	S-Video
6	C-Video In	I/O	2 m	Shielded	BNC
7	Component (Y/Pb/Pr) In	I/O	2 m	Shielded	5 Port BNC

\* **Note:** \*AC= AC Power Port, DC = DC Power Port , N/E = Non-Electrical, I/O = Signal Input or Output Port (Not Involved in Process Control), TP = Telecommunication Ports

\* RS-232 port is used for service purpose only. No user interface port.

## 2.3 Power Interface:

Mode #	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Comments
Rated	100-240Vac	-	150W (Max)	50-60	Rated of AC to DC Adapter
1	120 Vac	-	-	60	-

## 2.4 EUT Operation Modes:

Mode #	Mode	Comments
1	DVI Mode	-
2	VGA Mode	-
3	SDI In/Out Mode	-
4	S-VIDEO Mode	-
5	C-Video / SOG Mode	-
6	Component (Y/Pb/Pr) Mode/ Analog RGBS Mode	-
7	Wireless RGB	Worst case condition

**\* Note:**

1. All the configuration described above has been investigated during the preliminary testing and selected one case as worst-case condition for final measurements.
2. EUT have been performed under continuous displaying "H" Patten for configuration Modes of 1 to 2
3. EUT has been performed under continuous displaying "Color Bar" Patten for configuration Modes of 3, 4, 5, 6 and 7.

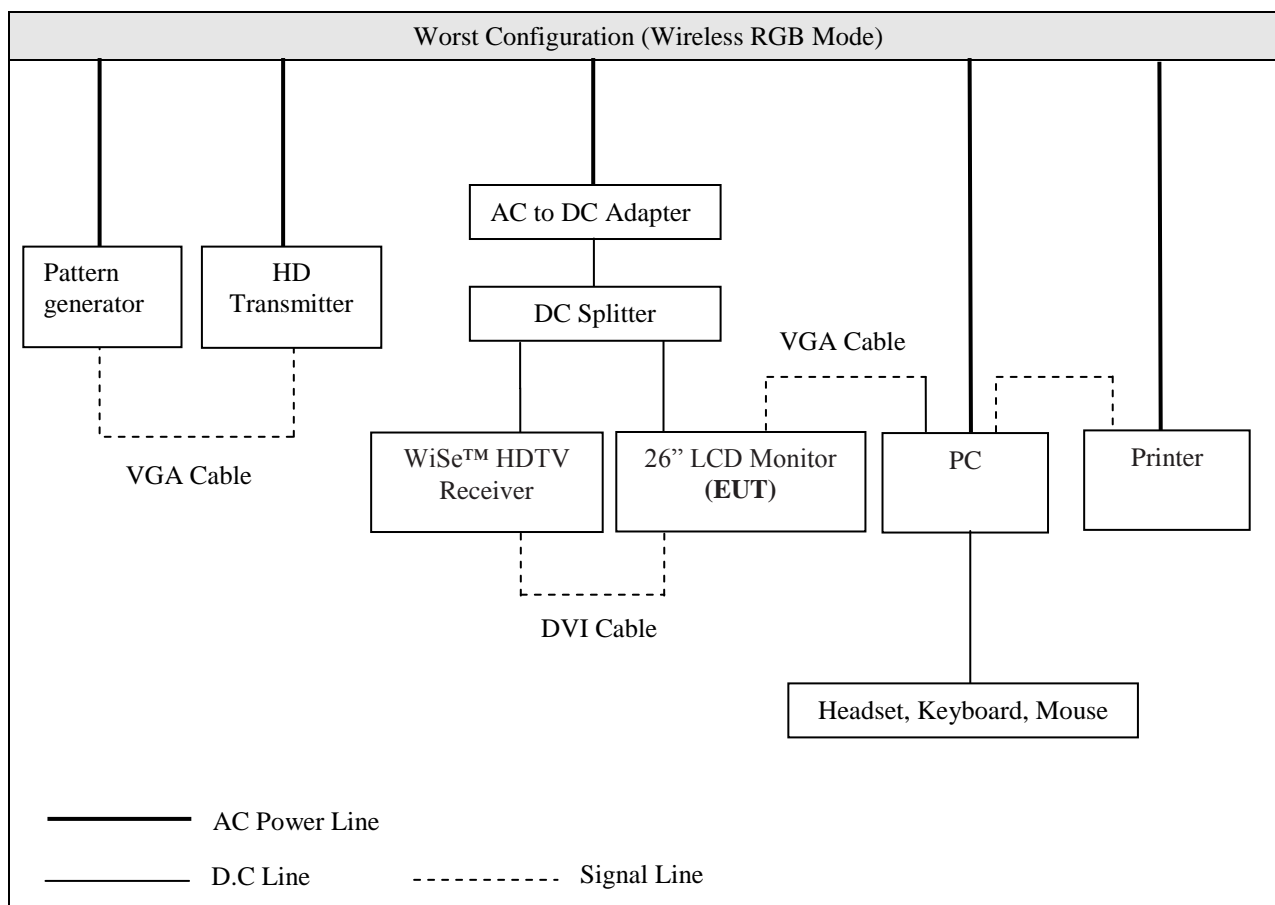
## 2.5 Modes of Video resolution

Mode #		Resolution	Comments
1	Wireless RGB Mode	800 * 600 @ 60Hz	-
2		1024 * 768 @ 60Hz	-
3		1920 * 1200 @ 60Hz	Worst case condition
* <b>Note:</b> Video resolution where it refers from above is representative worst case.			

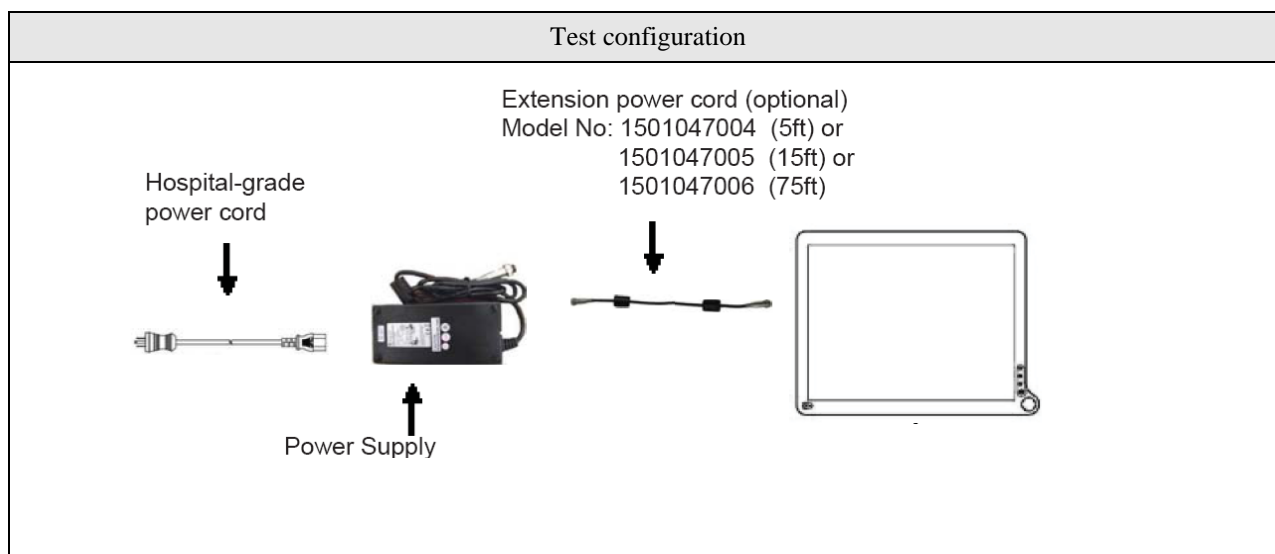
## 2.6 Used D.C. Extension Cable for EMC Test:

No.	Cable Length	Preliminary Test	Comment
1	5ft	Wireless RGB Mode	-
2	15ft		Worst case condition
3	75ft		-
* <b>Note:</b> Radiated emission and conducted emission test were performed for all extension power cable during the preliminary testing and selected worst-case condition (75ft) for final measurements.			

## 2.7 Test Configuration:



## 2.8 Extension cable of Adapter to EUT Test Configuration:



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### 3. RESULT OF TESTING:

No	Test requirements	Standard	Results	Verdict
1	AC Power line Conducted Emission Test	47 CFR Part 15.107 (a) / 47 CFR Part 15.109 (g) Class B	Met limit Class B	<b>Complied</b>
2	Radiated Emission Test		Met limit Class B	<b>Complied</b>
* <b>Note:</b> This product has been tested in accordance with the measurement procedures specified 47 CFR Part 15.107 (a) / 47 CFR Part 15.109 (g) Class B at the CBTP EMC Laboratory and the test results has been shown to be complied with the EMC requirements specified in the standard above.				

## 4. TEST CONDITION AND RESULTS

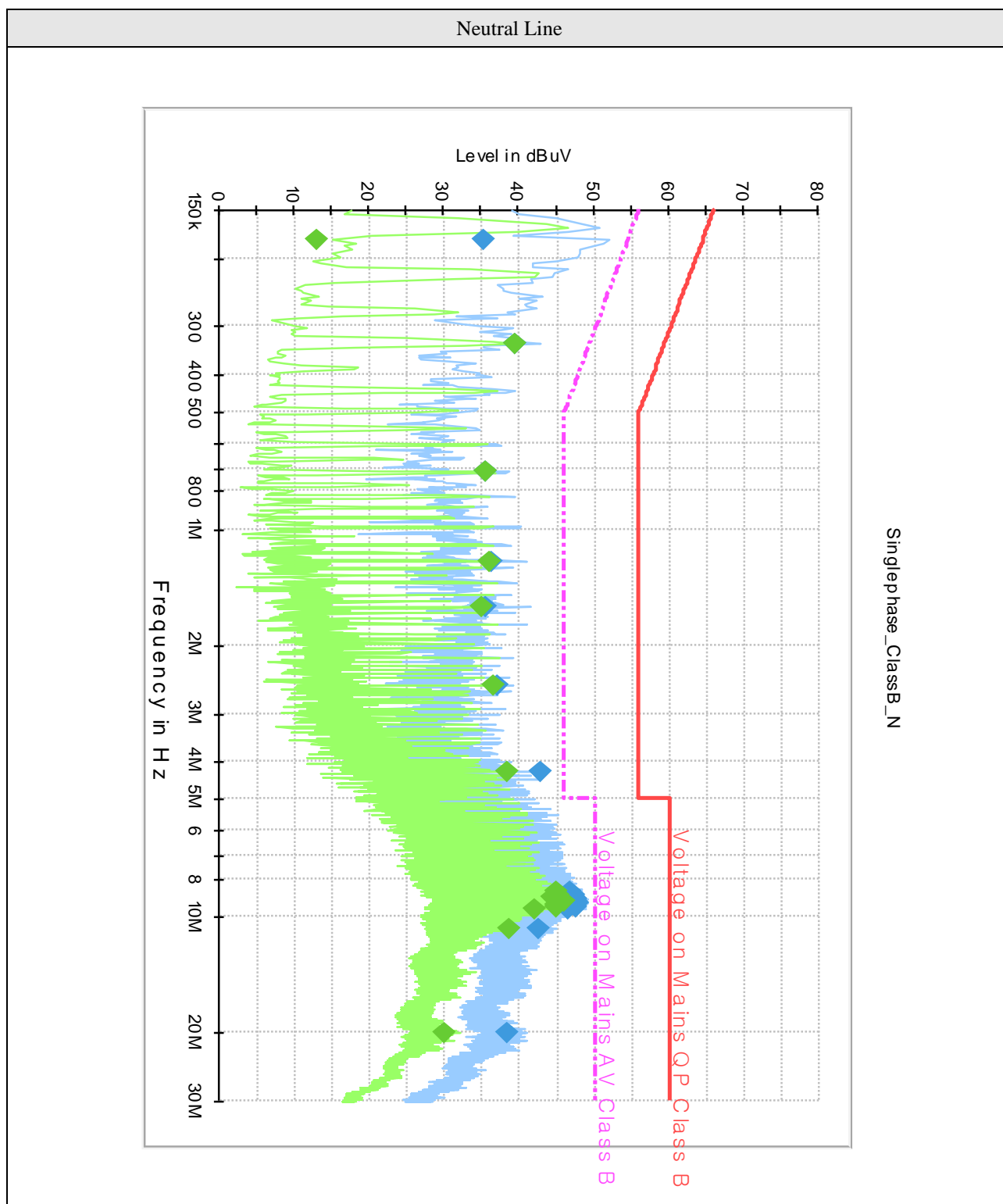
### 4.1 MAINS TERMINAL DISTURBANCE VOLTAGE TEST

TEST: Limits of mains terminal disturbance voltage				
Method	Measurements were made on a ground plane that extends 1-meter minimum beyond all sides of the system under test. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.			
Parameters recorded during the test		Laboratory Ambient Temperature		25.7°C
		Relative Humidity		37.4%
-		Frequency range on each side of line		Measurement Point
Fully configured sample scanned over the following frequency range		0.15 MHz to 30 MHz		AC input port of Adapter
Limits - Class B				
Frequency (MHz)	Limit (dBμV)			
	Quasi-Peak	Result	Average	Result
0.15 to 0.50	66 to 56	Pass	56 to 46	Pass
0.50 to 5	56	Pass	46	Pass
5 to 30	60	Pass	50	Pass
EUT Configuration Settings:				
Power Interface Mode # (See Section 2.3)		EUT Operation Mode # (See 2.4)		EUT Configurations Mode # (See Section 2.7)
1		7		1
Conducted Emissions Test Equipment used:				
Description	Manufacturer	Model	Identifier	Cal. Due
Test Receiver	Rohde & Schwarz	ESPI	101088	2011.06.17
LISN	Rohde & Schwarz	ESH2-Z5	100146	2011.06.18
LISN	Schwarzbeck	NNLK8129	8129162	2011.06.18
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	3057.8810.54	2011.06.18

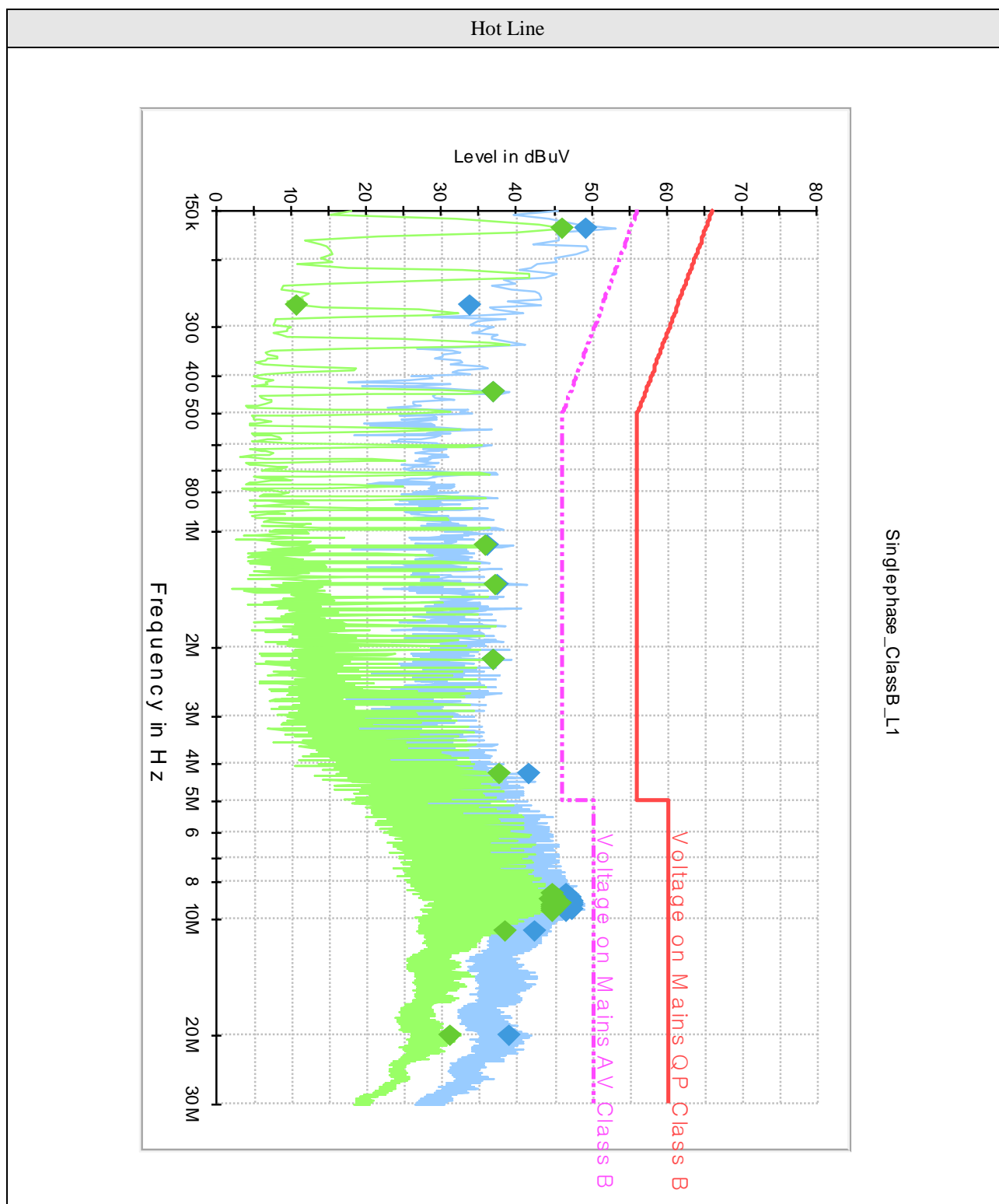
**Figure 1. Conducted Emission Test Setup for Wireless RGB Mode:**



**Figure 2. Graphical representation for Wireless RGB Mode:**



**Figure 3. Graphical representation for Wireless RGB Mode:**





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**Table 1. Test data of Wireless RGB Mode:**

Test Frequency (MHz)	Correction Factor (dB)		Reading value (dBuV)		Line	Level (dBuV)		Limit (dBuV)		Margin (dB)	
	Cable	LISN	QP	AV		QP	AV	QP	AV	QP	AV
0.166	15.98	0.12	33.00	29.80	L	49.10	45.90	65.00	55.00	15.90	9.10
4.222	14.23	0.27	27.00	22.90	L	41.50	37.40	56.00	46.00	14.50	8.60
8.606	13.18	0.42	32.80	30.90	L	46.40	44.50	60.00	50.00	13.60	5.50
8.770	12.68	0.42	33.80	31.90	L	46.90	45.00	60.00	50.00	13.10	5.00
8.878	12.28	0.42	34.60	31.60	N	47.30	44.30	60.00	50.00	12.70	5.70
8.990	12.08	0.42	35.00	32.90	N	47.50	45.40	60.00	50.00	12.50	4.60
9.046	12.18	0.42	34.80	32.60	N	47.40	45.20	60.00	50.00	12.60	4.80
9.154	12.07	0.43	35.00	33.40	N	47.50	45.90	60.00	50.00	12.50	4.10
9.266	11.97	0.43	35.20	32.60	N	47.60	45.00	60.00	50.00	12.40	5.00
9.374	12.87	0.43	33.40	31.30	L	46.70	44.60	60.00	50.00	13.30	5.40
9.430	12.17	0.43	34.80	32.30	N	47.40	44.90	60.00	50.00	12.60	5.10
9.538	13.17	0.43	32.80	31.10	L	46.40	44.70	60.00	50.00	13.60	5.30

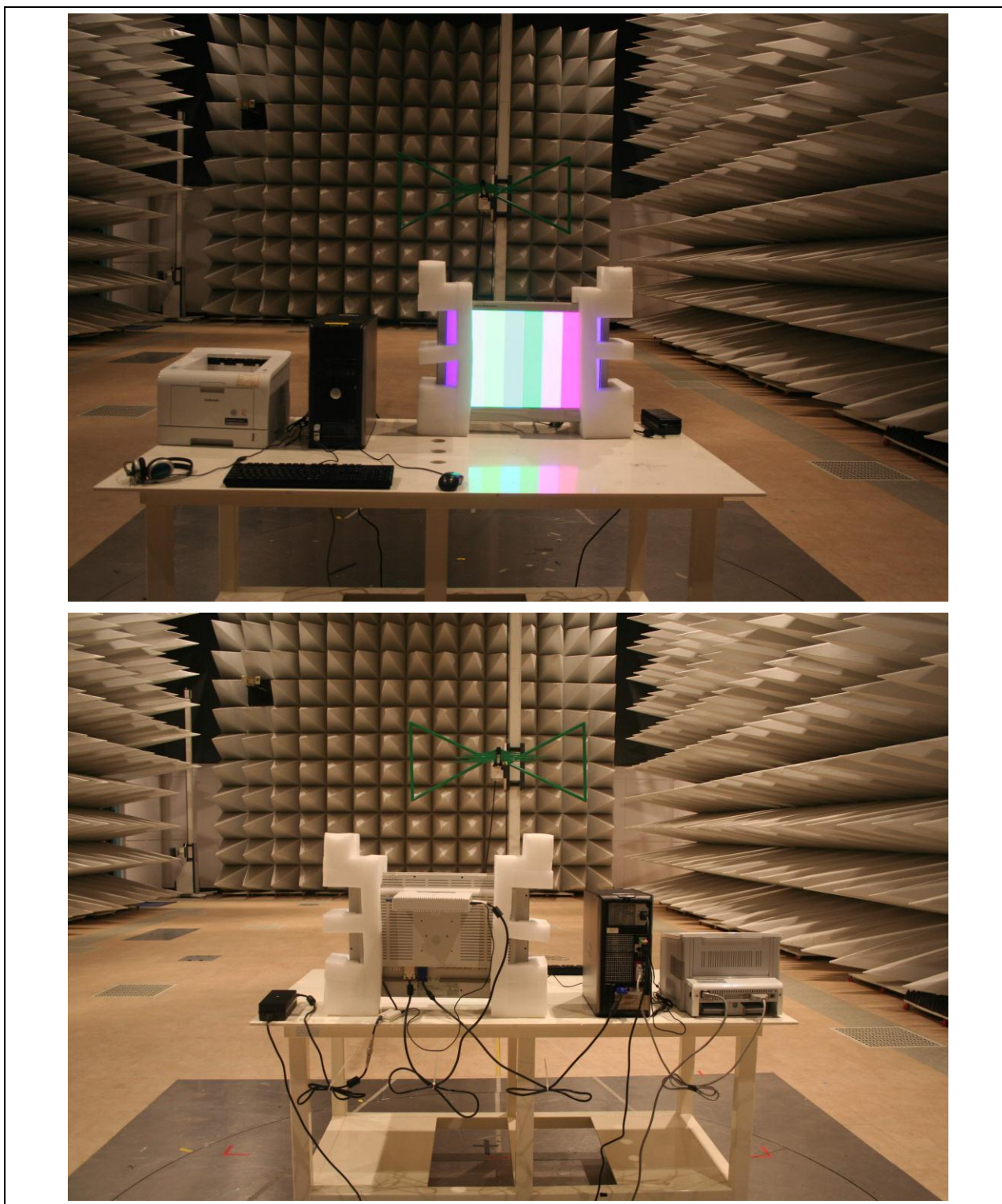
**\* Note:**

1. Margin (dB)= Limit (dBuV) - Level (dBuV)
2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

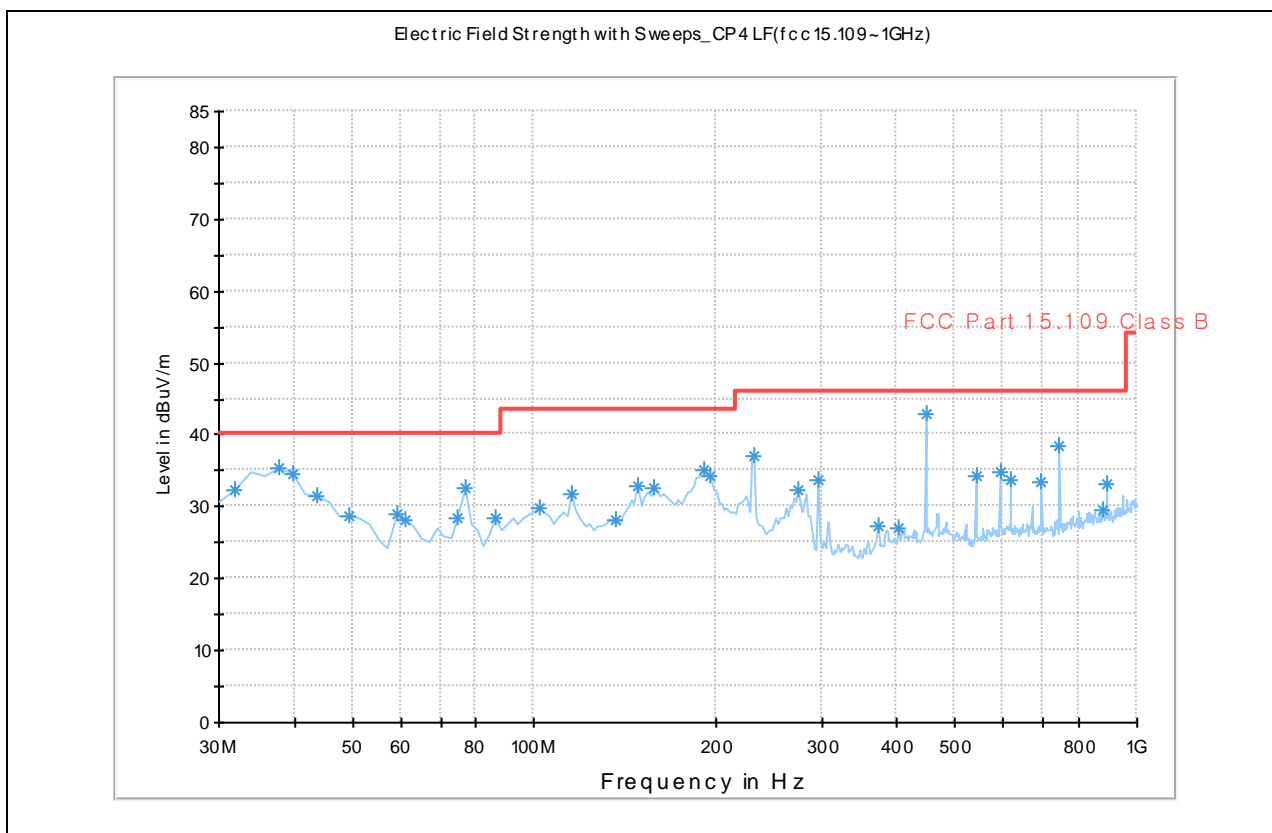
## 4.2 RADIATED DISTURBANCE

TEST: Limits for radiated disturbance					
Method	A pretest was performed at 3m distances in an anechoic screened enclosure, scanning the frequency range, and locating any frequencies at the which EUT radiated. Frequency scans were conducted with a peak detector with horizontal and vertical polarization of the antenna. Measurements were done in the frequency range 30-1000 MHz. The main test was then conducted by measurements at each frequency found in the pretest. These measurements were done at an open area test site at 10m distances, with a quasi-peak detector. EUT was positioned on a wooden table 0.8m above the floor, at the edge of the turntable. Cables connected to EUT were fixed to cause maximum emission. A maximum emitting point for each frequency was found by turning EUT 0-360 degrees, and adjust the antenna height between 1-4m. A quasi-peak detector measurement was then done at the maximum emitting point.				
Parameters recorded during the test		Laboratory Ambient Temperature		23.5 °C	
		Relative Humidity		43.7 %	
-		Frequency range		Measurement Point	
Fully configured sample scanned over the following frequency range		30 MHz to 2.0 GHz		3 meter measurement distance	
Limits – Class B					
Frequency (MHz)		Limit (dBµV/m)			
		Quasi-Peak		Results	
30 to 88		40.00		Pass	
88 to 216		43.52		Pass	
216 to 960		46.02		Pass	
960 to 1000		53.97		Pass	
EUT Configuration Settings:					
Power Interface Mode # (See Section 2.3)		EUT Operation Mode # (See 2.4)		EUT Configurations Mode # (See Section 2.7)	
1		7		1	
Radiated Emissions Test Equipment:					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Test Receiver	Rohde & Schwarz	ESIB26	100359	2010.06.17	2011.06.17
BICONILOG ANT	Schaffner	CBL6112D	22022	2009.10.08	2011.10.08
HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-539	2010.10.04	2012.10.04

**Figure 7. Photo of Radiated emission test setup for Wireless RGB Mode:**



**Figure 8. Graphical representation, 30 MHz to 1000 MHz**



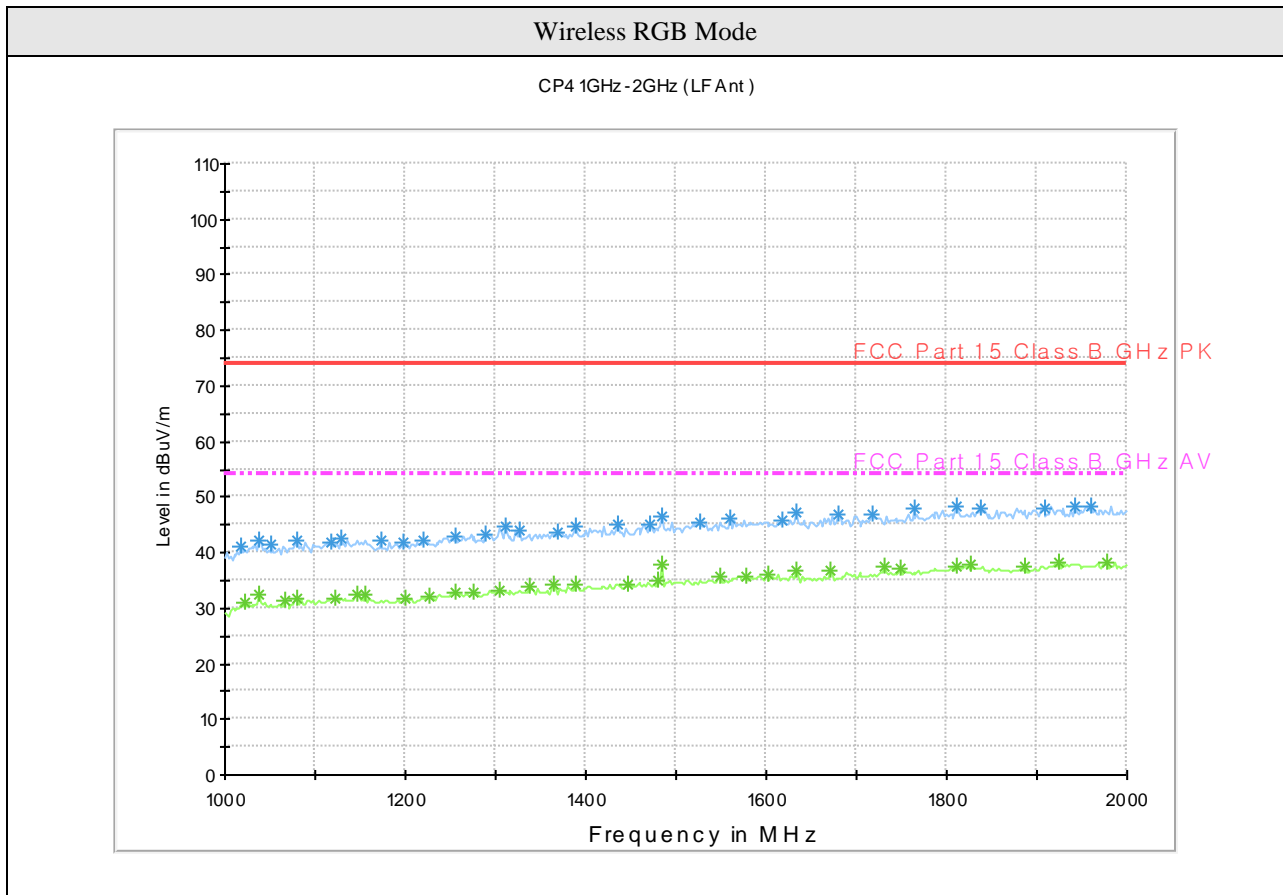
**Table 3. Radiated emission Test data for Wireless RGB Mode, 30 to 1000MHz:**

Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (m)	Cable Loss Factor (dB)	Antenna Factor (dB/m)	Level dBuV/m	Limit dBuV/m	Margin (dB)
39.47	17.53	QP	V	116.00	1.00	0.94	12.96	31.43	40.00	8.57
77.15	22.97	QP	V	1.00	1.00	1.37	6.93	31.27	40.00	8.73
191.80	19.99	QP	H	0.00	2.00	2.28	10.32	32.59	43.50	10.91
231.44	21.57	QP	H	226.00	1.00	2.72	12.18	36.47	46.00	9.53
445.53	24.12	QP	H	192.00	2.00	3.69	16.41	44.22	46.00	1.78
742.52	15.78	QP	H	152.00	2.00	4.77	18.33	38.88	46.00	7.12

**\* Note:**

1. Margin (dB)= Limit (dBuV) - Level (dBuV)
2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

**Figure 9. Graphical representation, 1.0 GHz to 2.0 GHz**



**Table 4. Radiated emission Test QP data, Wireless RGB Mode, 1.0 GHz to 2.0 GHz**

Frequency (GHz)	Correction Factor			Antenna Height (m)	Peak				
	Antenna (dB/m)	Amp (dB)	Cable (dB)		Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1.39	25.48	4.42	2.00	V	73.97	14.90	44.80	29.17	14.27
1.56	25.68	5.42	1.50	H	73.97	15.00	46.10	27.87	12.87
1.63	25.76	5.64	1.50	V	73.97	15.90	47.30	26.67	10.77
1.72	25.86	5.94	2.00	V	73.97	15.20	47.00	26.97	11.77
1.81	25.97	6.63	2.00	V	73.97	15.60	48.20	25.77	10.17

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**Table 5. Radiated emission Test AV data, Wireless RGB Mode, 1.0 GHz to 2.0 GHz**

Frequency (GHz)	Correction Factor			Antenna Height (m)	Average				
	Antenna (dB/m)	Amp (dB)	Cable (dB)		Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1.39	25.48	4.42	2.00	V	53.97	4.10	34.00	19.97	19.10
1.56	25.68	5.42	1.50	H	53.97	3.30	34.40	19.57	17.00
1.63	25.76	5.64	1.50	V	53.97	5.40	36.80	17.17	22.30
1.72	25.86	5.94	2.00	V	53.97	3.60	35.40	18.57	17.00
1.81	25.97	6.63	2.00	V	53.97	5.00	37.60	16.37	18.70

## Appendix A: Test Facility



MIC: Designated as a testing laboratory by Radio Research Laboratory in accordance with the Regulation on Designation of Testing Laboratory for Information and Communication Equipment. Registration No. : KR0017



KOLAS: Accredited by Korea Laboratory Accreditation Scheme (KOLAS) as Testing Laboratory in accordance with the provisions of Article 23 of the National Standards Act. These criteria encompass the requirements of ISO/IEC 17025:2000. For a scope listing search at [http://kolas.kats.go.kr/02\\_english/m02\\_01\\_s01.asp?OlapCode=KOLU19](http://kolas.kats.go.kr/02_english/m02_01_s01.asp?OlapCode=KOLU19)



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland and accepted in a letter dated July 17, 2005 (Reg. No. 553281). As a Conformity Assessment Body (CAB), our organization is designated to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules in a letter dated July 14, 2005.



VCCI: Accepted as an Associate Member to the VCCI. The measurement facilities detailed in this test report have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. Registration Nos.: (Radiated Emissions) R-2414, (Conducted Emissions) C-2641.

## Appendix B: Measurement Uncertainties

Test	Uncertainty
Radiated Emissions	$U = k * U_c(x_i) = 4.70 \text{ dB}$
Conducted Emissions	$U = k * U_c(x_i) = 3.34 \text{ dB}$



## Appendix C: EUT Photos





Project Number: 11CA07637  
Model Number: 240-030-960  
Client Name: ADVAN Int'l Corp.

File Number TC8352

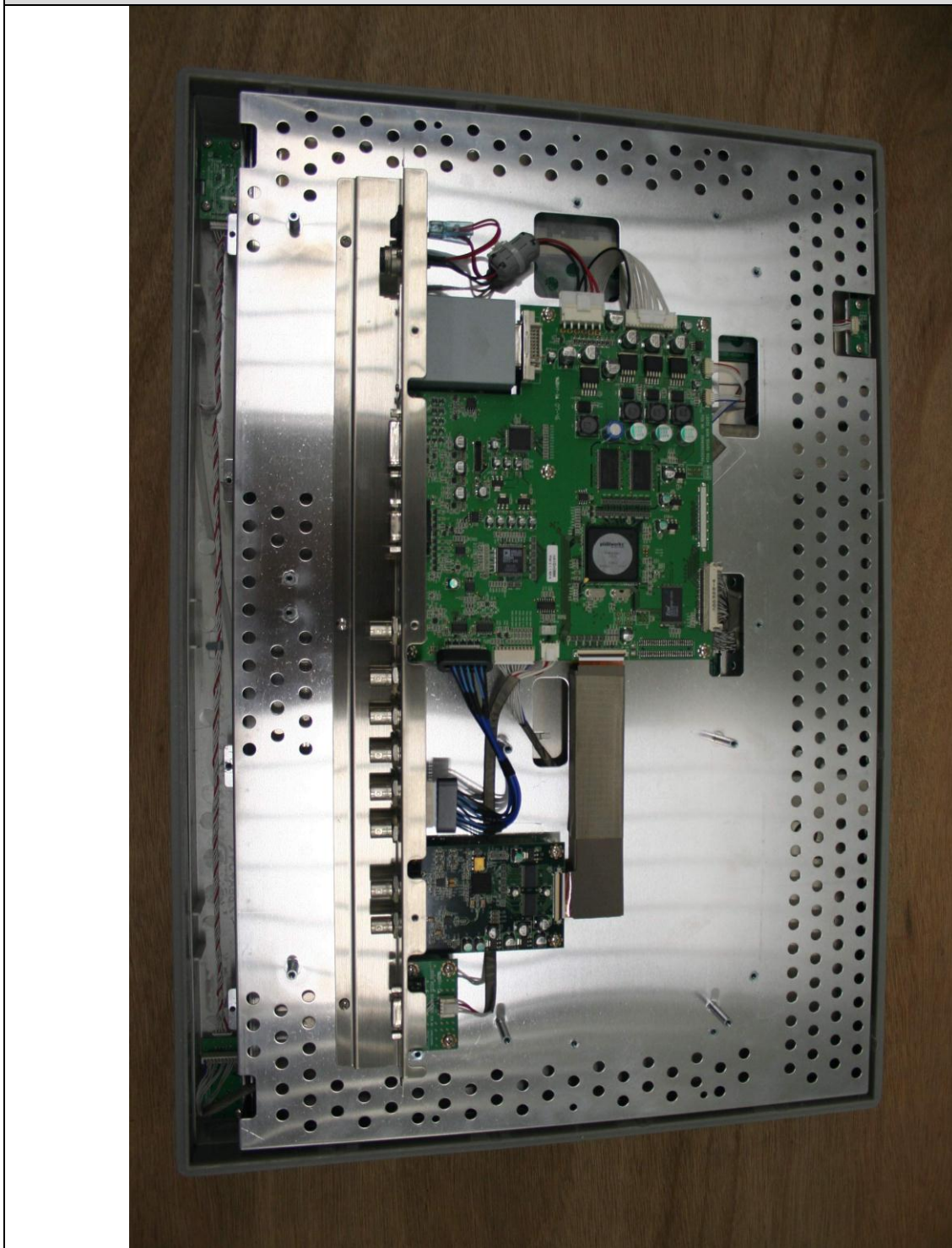
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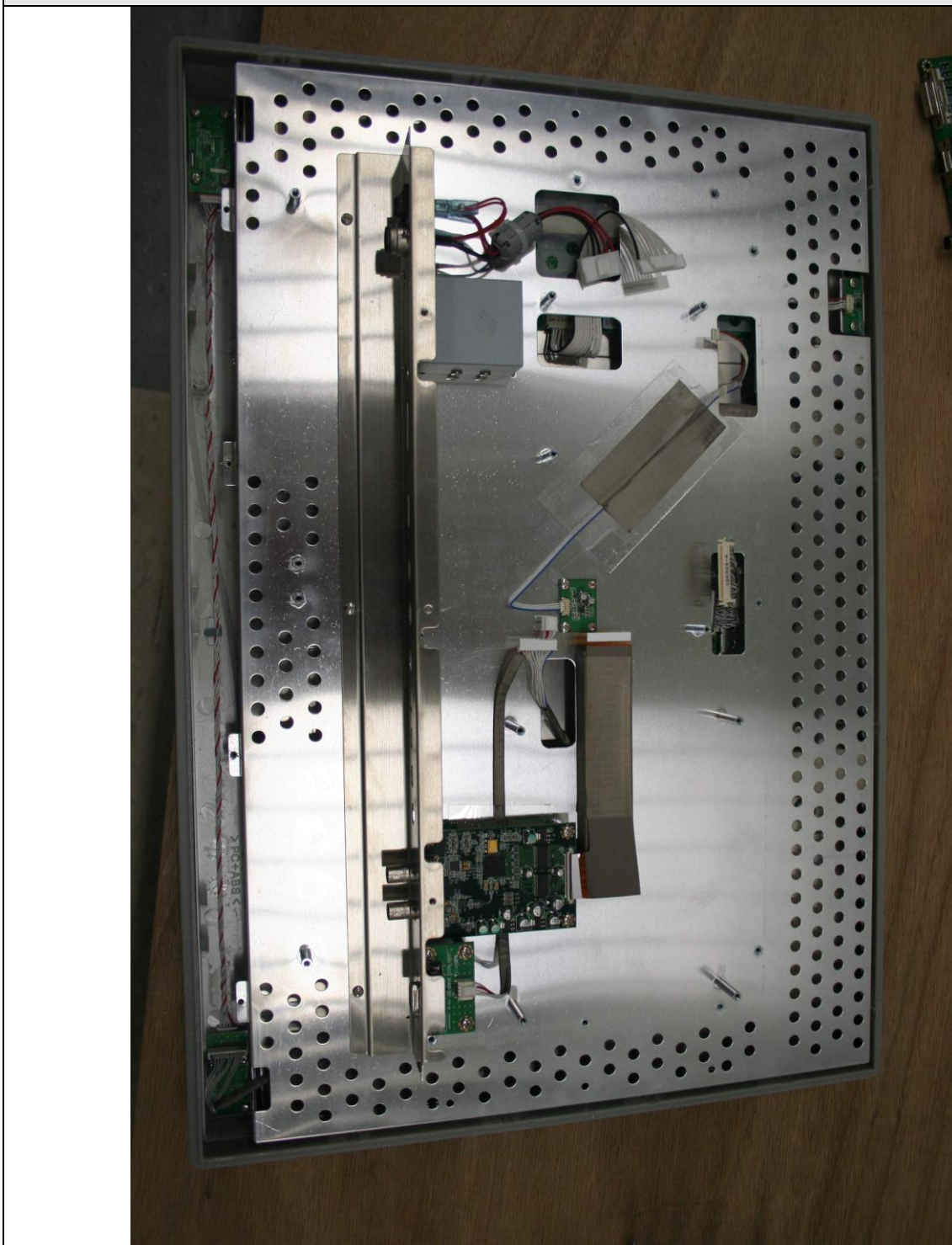
### Rear View



Inside View



Inside View





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Client Name: ADVAN Int'l Corp.

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#### Adaptor Label



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AC/DC Adaptor



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LCD Panel Front View





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# LCD Panel Rear View

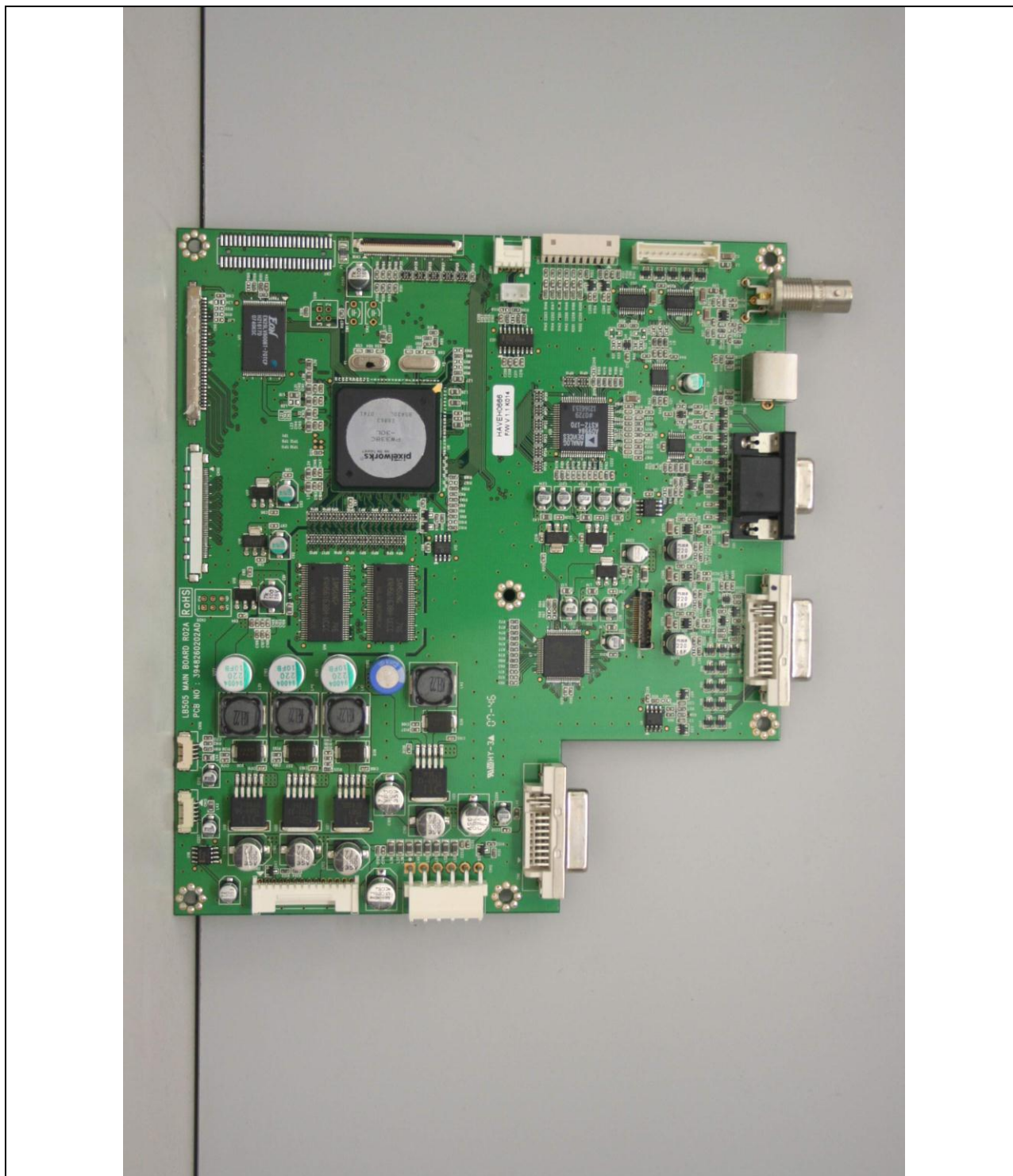


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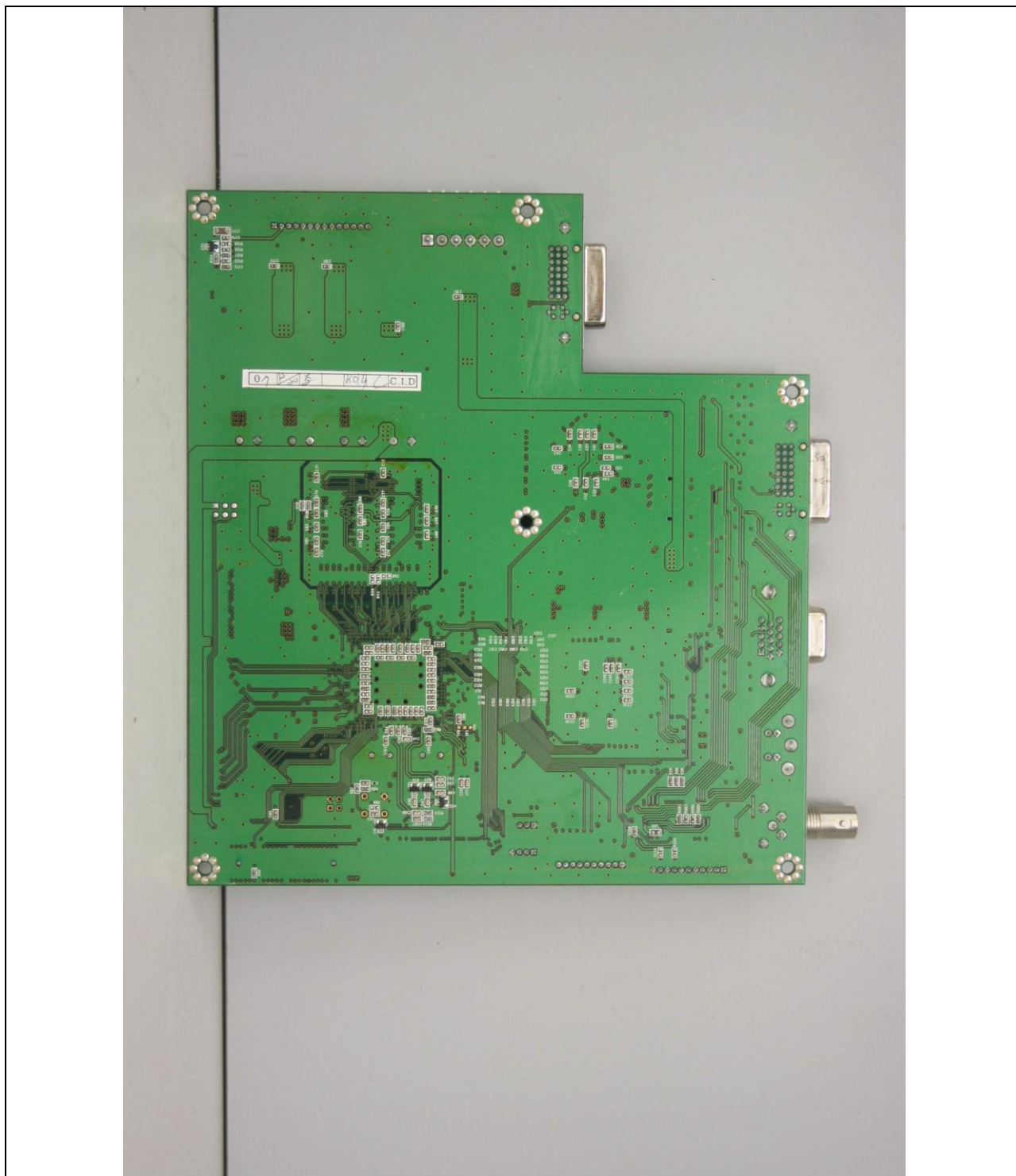


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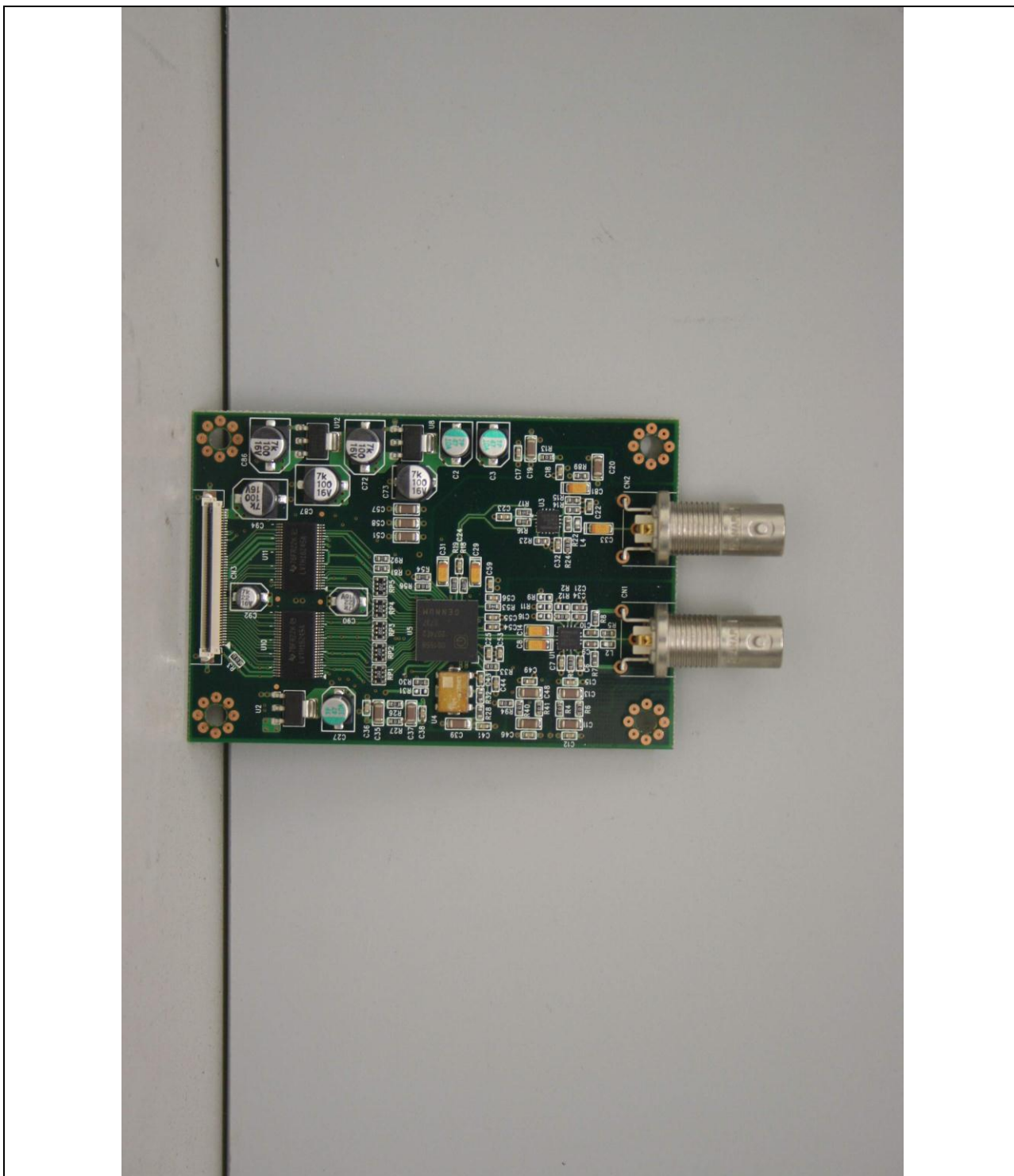


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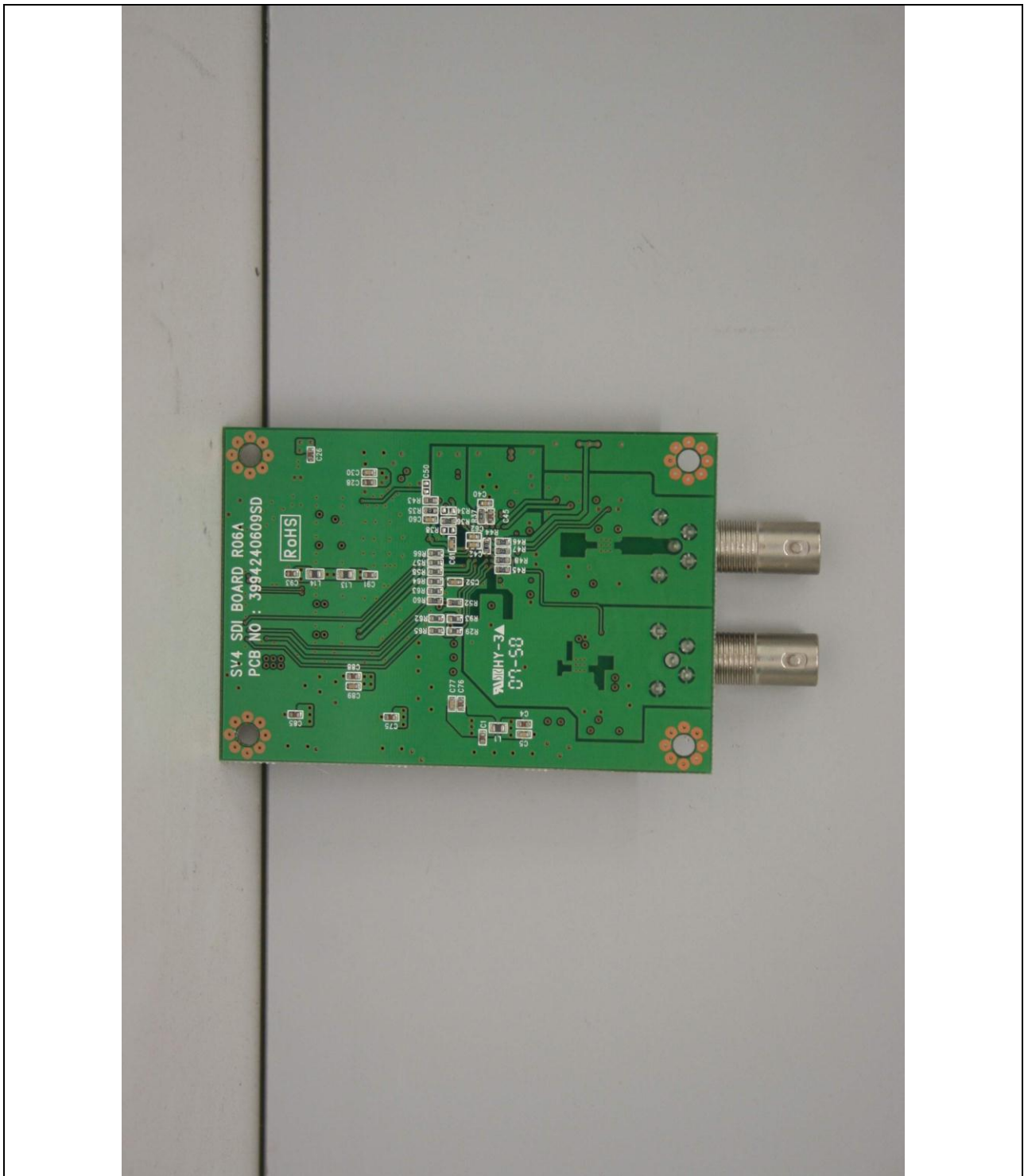


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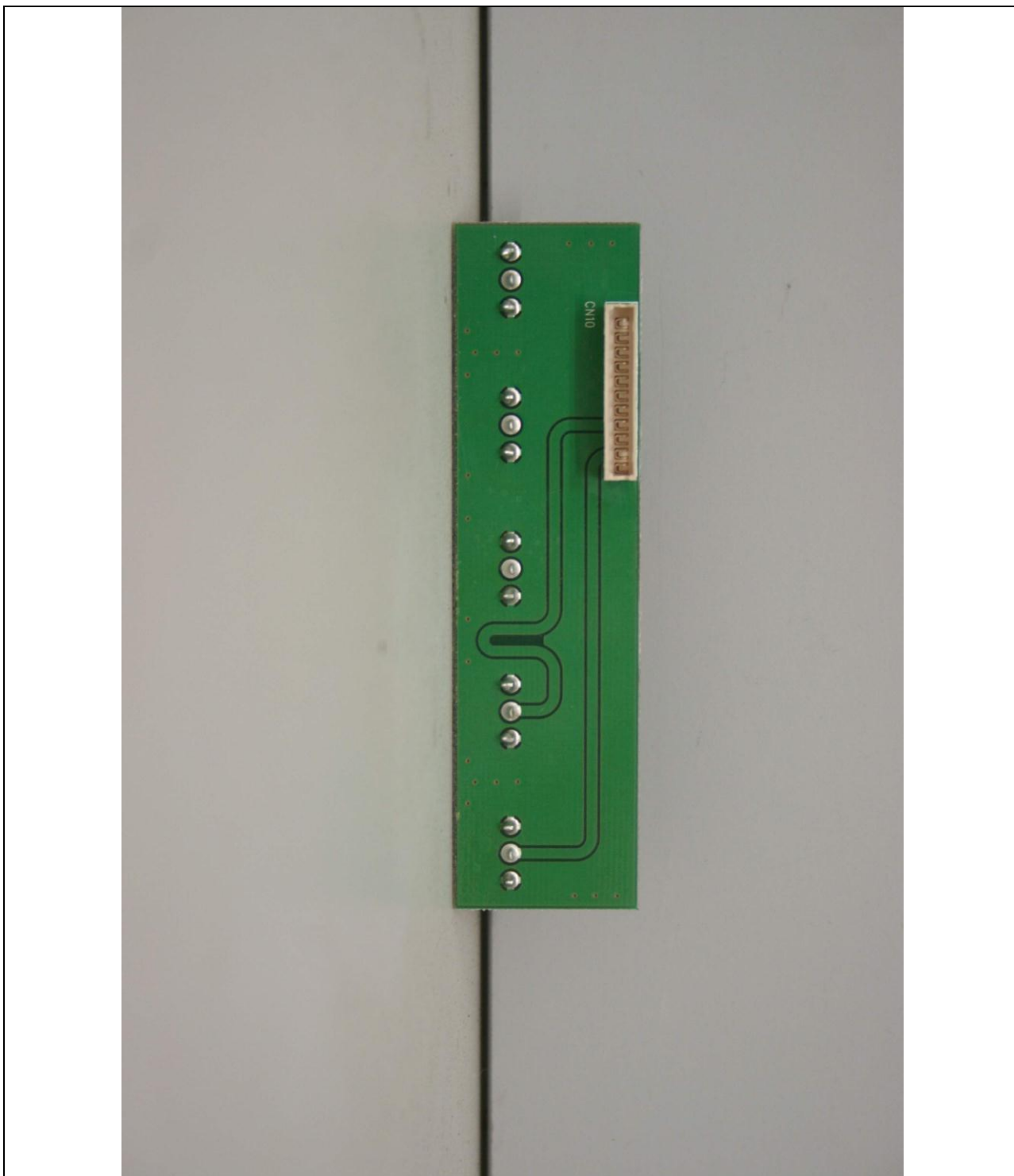


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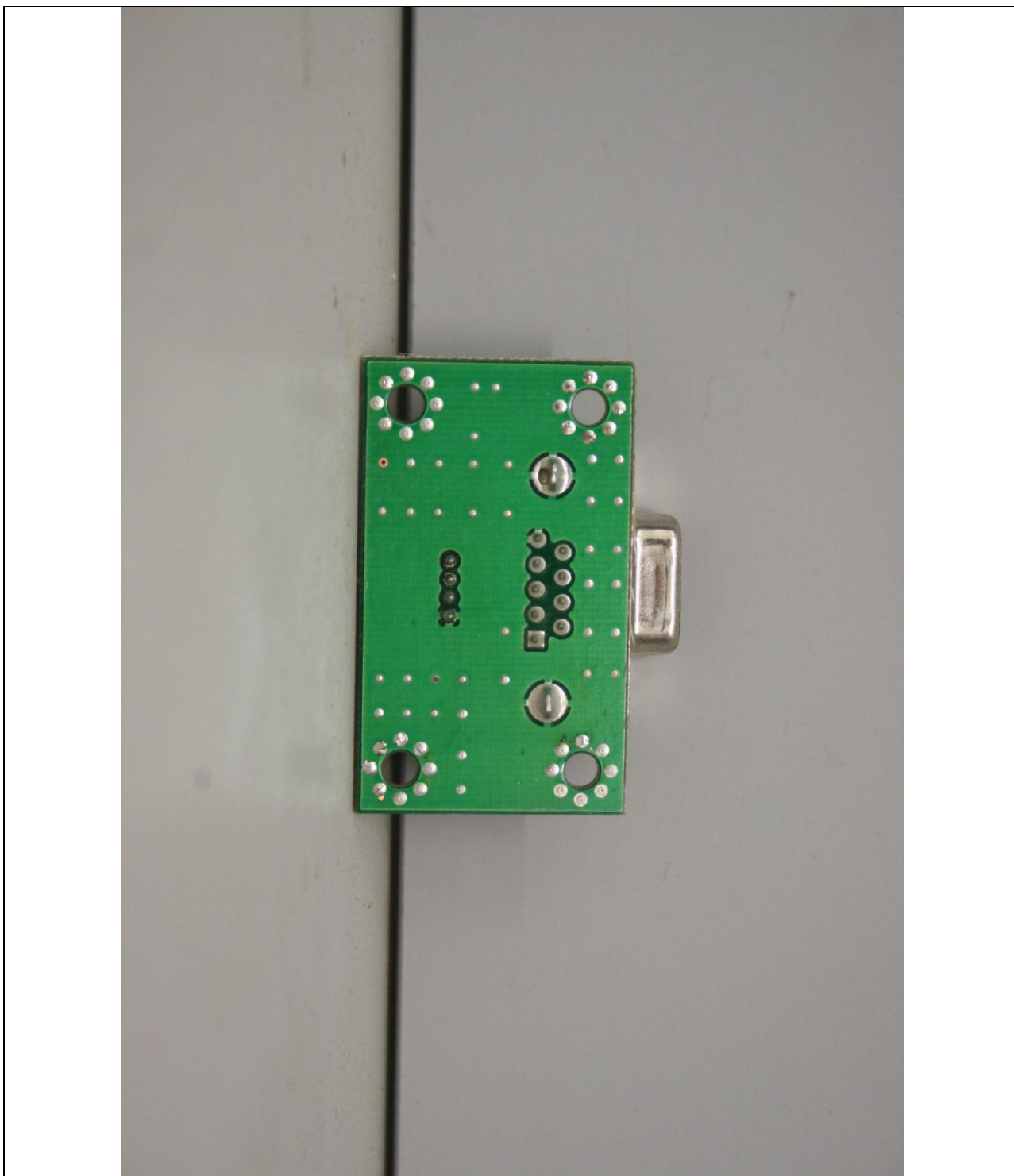


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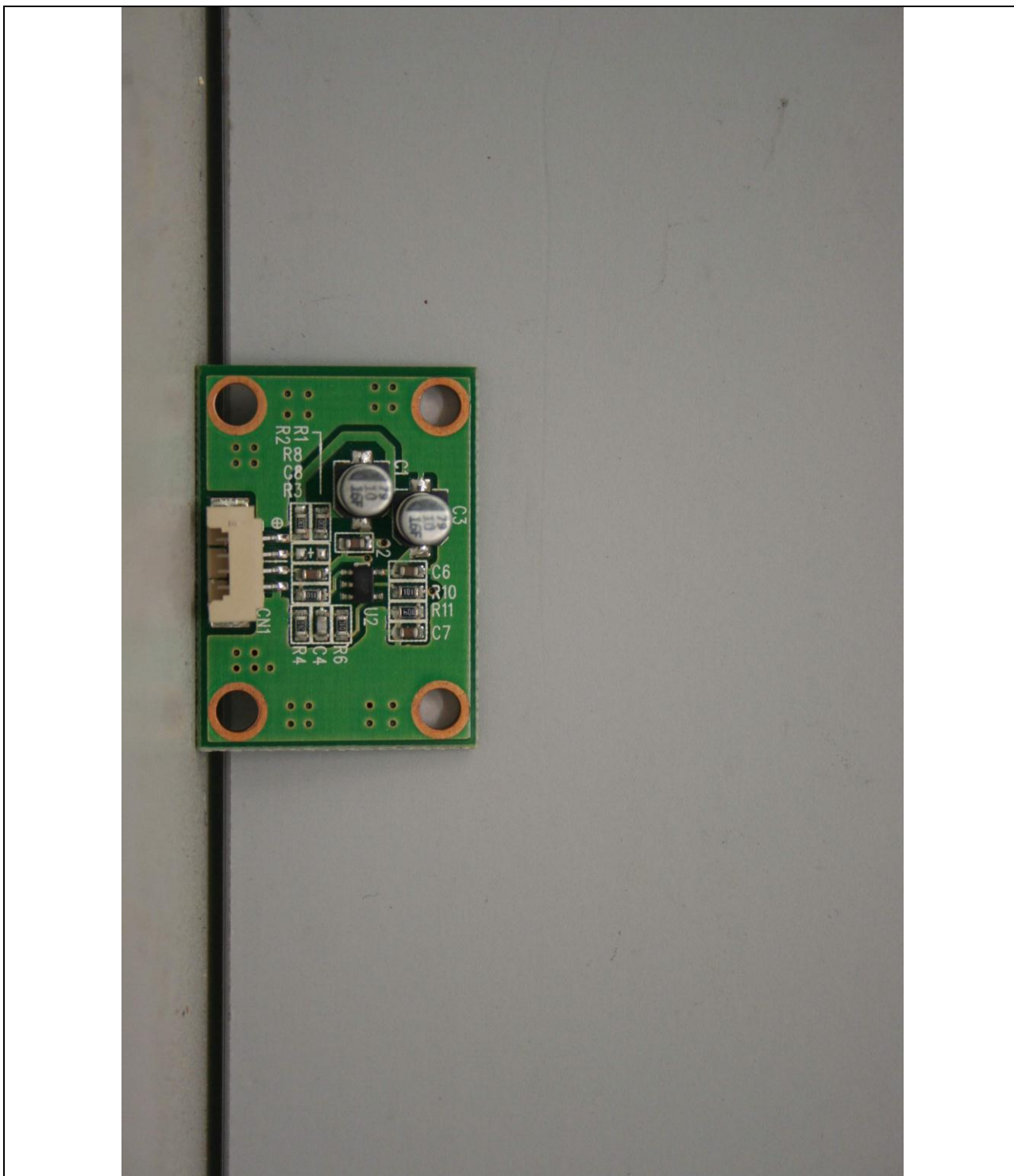


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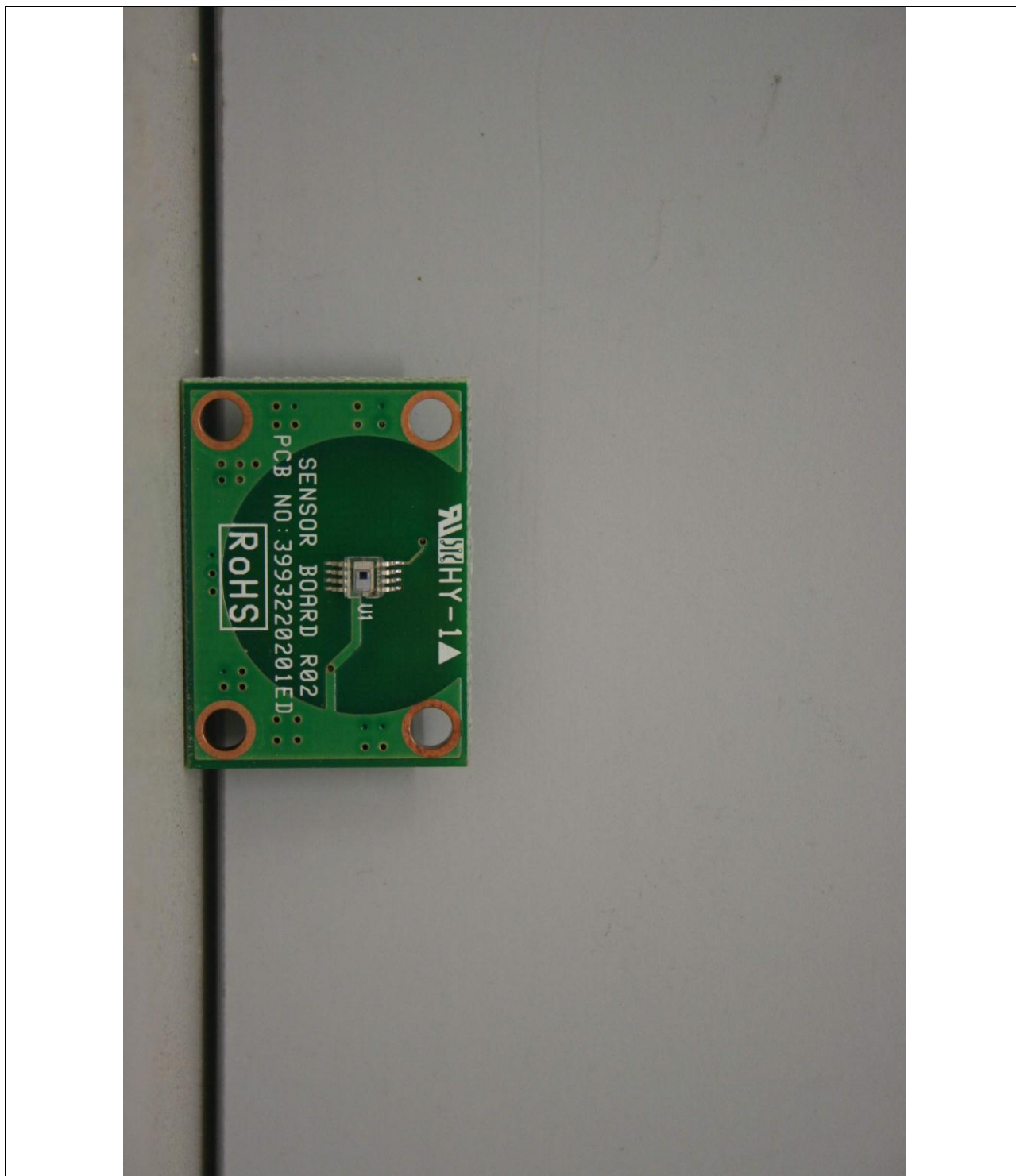


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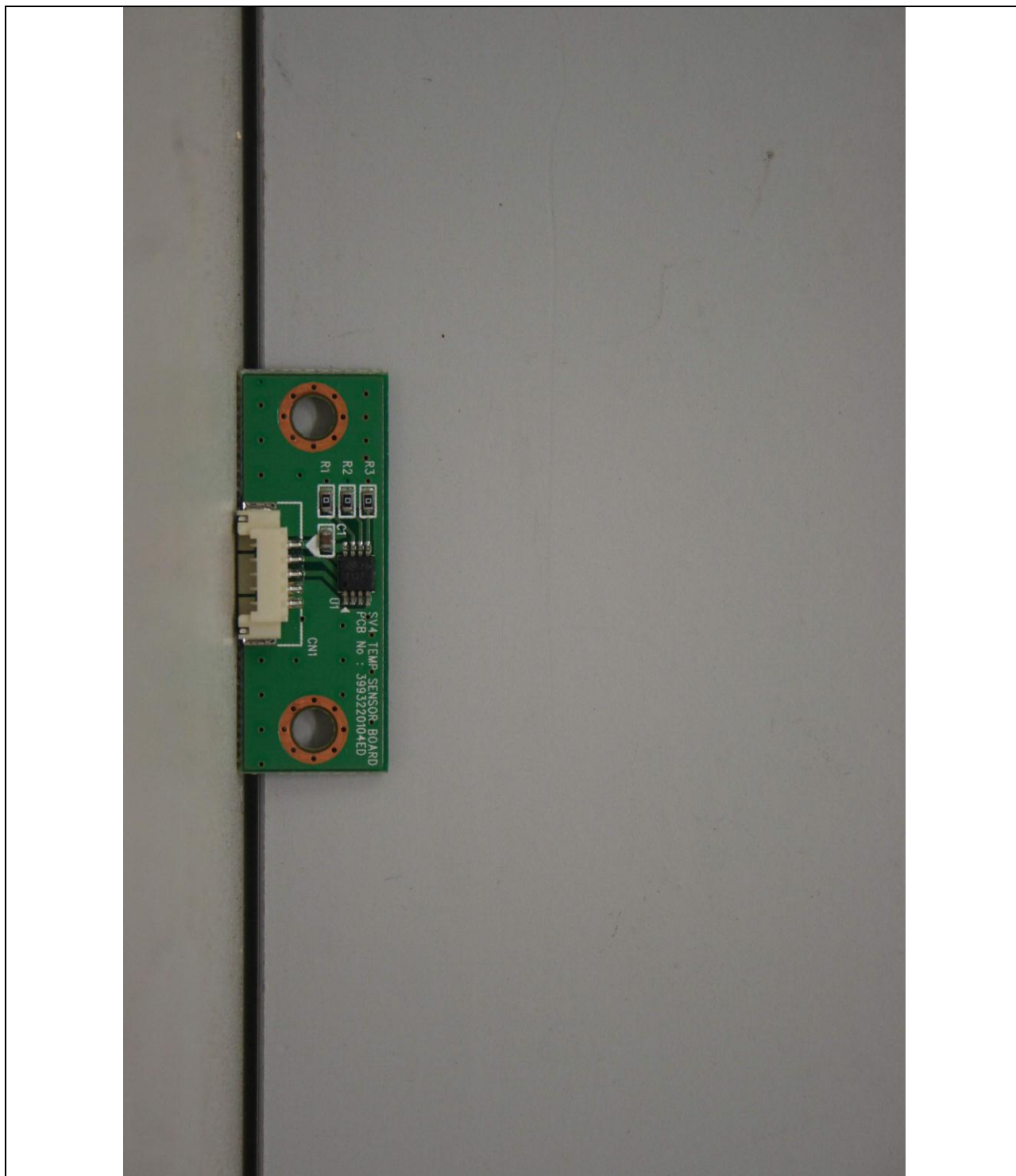


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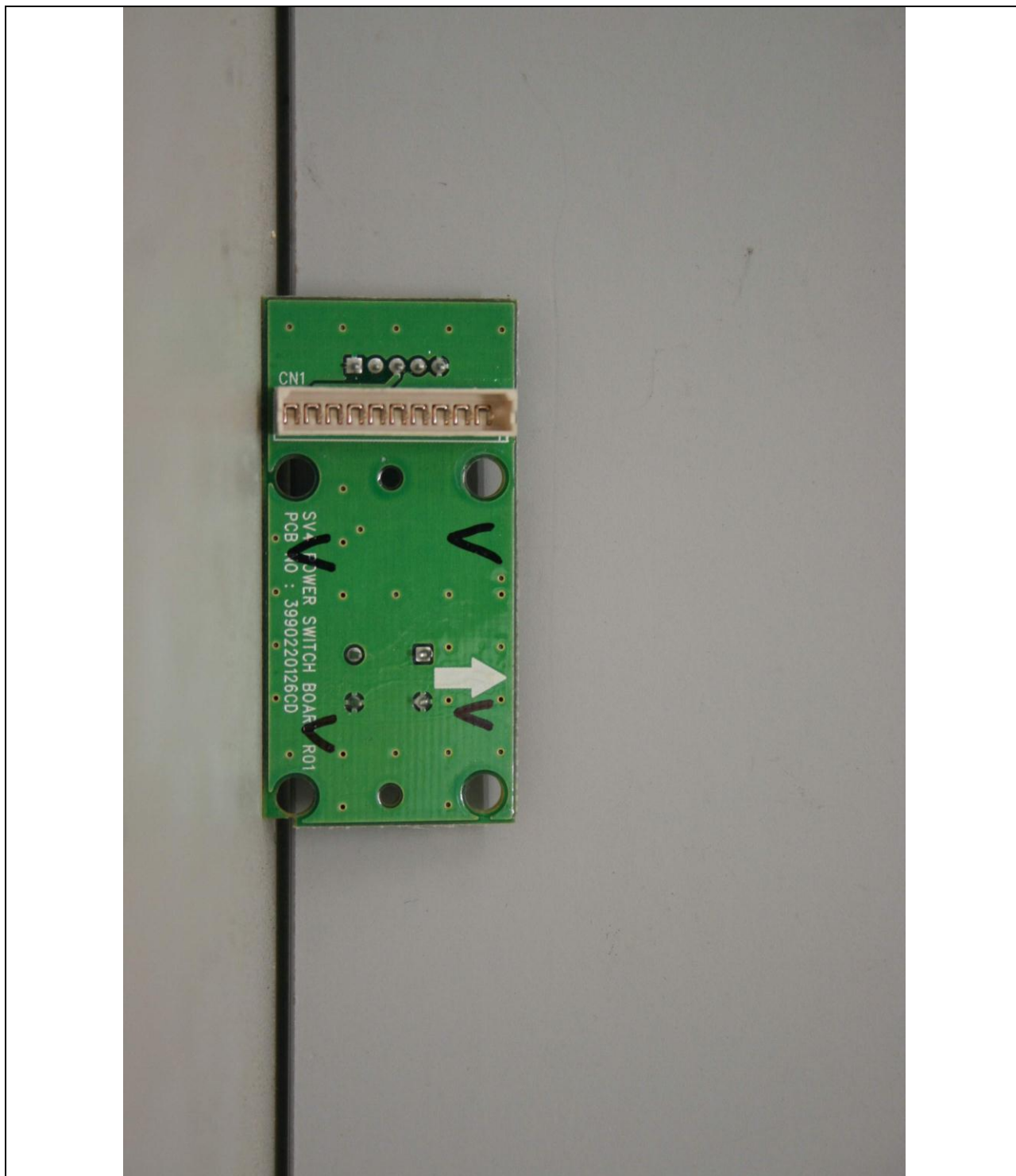


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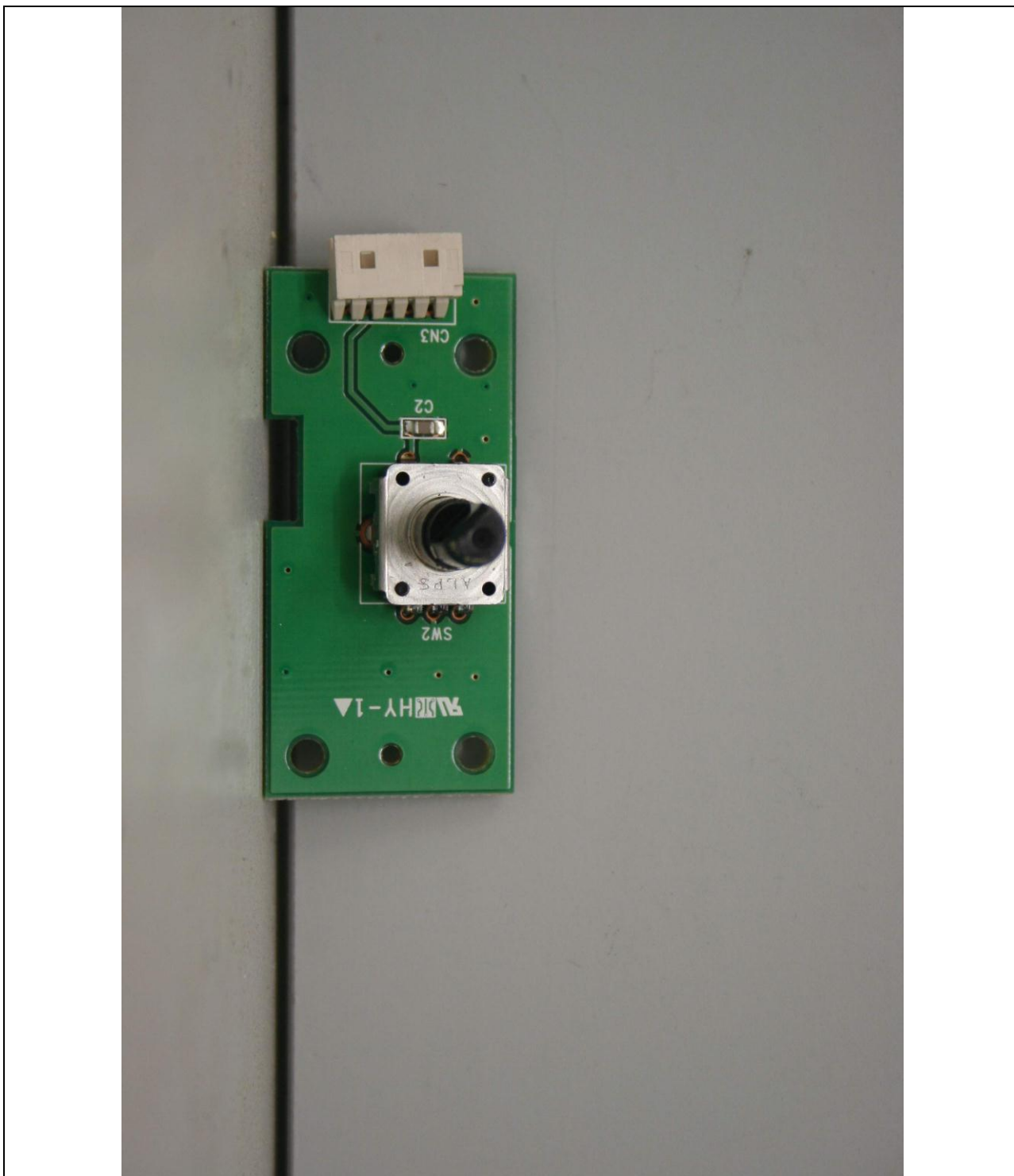


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