APPLICATION OF CERTIFICATION For

TTE Technology Inc.

LCD TV

Brand Name	Model Number
RCA	L42FHD37R

FCC ID: W8UL42FHD37R

Prepared for: TTE Technology Inc.

101 West 103rd Street, Indianapolis, IN 46290, United States

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496 Fax: (0755) 26632877

Report Number : ACS-F09056

Date of Test : Feb.02~ 20, 2009

Date of Report : Apr.03, 2009

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TEST REPORT CERTIFICATION

Applicant

TTE Technology Inc.

Manufacturer #1

TCL King Electrical Appliances (Huizhou) Co., Ltd.

Manufacturer #2

Manufacturas Avanzadas S A

EUT Description

LCD TV

FCC ID

W8UL42FHD37R

(A) MODEL NO.&

Brand Name

Model Number Brand Name L42FHD37R RCA

(B) SERIAL NO.

: N/A

(C) TEST VOLTAGE : AC 120V/60Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2008, ANSI C63.4-2003

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits for radiated and conducted emissions. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of tests. Also, this report shows that EUT is technically compliant with FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test:

Feb.02 20, 2009

Prepared by:

Daisy te

Daisy Ye / Assistant

Reviewer:

Richzhy Zhong / Assistant Manager

信事科技(深圳)有限公司 Audix Technology (Shenzhen) Co., Lul.

EMIC部門報告專用章

Stamp only for EMC Dept Report

Signature:

Approved & Authorized Signer:

Ken Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION					
Description of Test Item	Limits	Results			
Power Line Conducted Emission Test	FCC Part 15: 2008 ANSI C63.4: 2003	Class B	PASS		
Radiated Emission Test	FCC Part 15: 2008 ANSI C63.4: 2003	Class B	PASS		

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Description : LCD TV

Model Number : Brand Name | Model Number

RCA L42FHD37R

Chassis : RS95

Power : PWL37C-02B

FCC ID : W8UL42FHD37R

Applicant : TTE Technology Inc.

101 West 103rd Street, Indianapolis, IN 46290, United States

Manufacturer #1: TCL King Electrical Appliances (Huizhou) Co., Ltd.

Section 19, Zhongkai Development Zone for New and High Level

TECH Industries, Huizhou, Guangdong 516006, China

Manufacturer #2: Manufacturas Avanzadas S A

Parque Industrial Salvarcar, Blvd Independencia 2151,

CD Juarez, Chih, Mexico

Power Cord : Unshielded, Detachable, 1.5m

Date of Test : Feb.02~ 20, 2009

Date of Receipt : Feb.02, 2009

Sample Type : Prototype production

2.2.Tested Supporting System Details

2.2.1.PC

EMC CODE : Test PC L

M/N : CR6

S/N : L38N404 Manufacturer : Lenovo

Power cord : Unshielded, Detachabled, 1.8m

FCC ID : By DoC BSMI ID : R33B65

2.2.2. USB Keyboard

EMC CODE : ACS-EMC-K07R

M/N : KU-0225 SN : 0019402 Manufacturer : Lenovo

Data Cable : Shielded, Undetachabled, 1.5m

FCC ID : By DoC BSMI ID : R31310

2.2.3. PRINTER

EMC CODE : ACS-EMC-PT03

M/N : EN8060A S/N : 908A1001201 Manufacturer : OKIPAGE

Data Cable : Shielded, Detachabled, 1.5m

Power Cord : Unshielded, Detachabled, 1.8m

FCC ID : By DoC BSMI ID : 3882A463

2.2.4. USB MOUSE

EMC CODE : ACS-EMC-M01R

M/N : M056UO S/N : 512022645

Manufacturer : Dell

Data Cable : Shielded, Undetachabled, 1.8m

FCC ID : By DoC BSMI ID : R41108

2.2.5. HDD

EMC CODE : ACS-EMC-HDD01

M/N: F12-UF

S/N : A0100215-5390031

Manufacturer : Terasys

Data Cable : Shielded, Detachabled, 1.8m

FCC ID : By DoC BSMI ID : 4912A022

2.2.6. HEADPHONE

EMC CODE : ACS-EMC-EP01

M/N : OV880V Manufacturer : OVANN

Data Cable : Shielded, Undetachabled, 4.0m

2.2.7. Cables

Audio Cable : Shielded, Detachabled, 1.8m

(Dummy Load $10k\Omega$)

VGA Cable : Shielded, Detachabled, 1.8m

(With two cores)

2.3.Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block, Shenzhen

Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

3m Anechoic Chamber : Mar. 31, 2009 File on Federal

Communication Commission Registration Number: 90454

3m & 10m Anechoic Chamber : Jan. 31, 2007 File on Federal

Communication Commission Registration Number: 794232

EMC Lab. : Accredited by DATech, German

Registration Number: DAT-P-091/99-01

Feb. 02, 2009

Accredited by NVLAP, USA NVLAP Code: 200372-0

Apr. 01, 2009

2.4. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty	Memo
Uncertainty for Conduction emission test in No. 1 Conduction	2.88dB	
Uncertainty for Radiation Emission test in	3.86 dB	Polarize: V
3m chamber	4.3 dB	Polarize: H
Uncertainty for Radiation Emission test in	3.82 dB	Distance: 3m Polarize: V
10m chamber	3.80 dB	Distance: 3m Polarize: H
Uncertainty for test site temperature and	0.1℃	
humidity	1%	

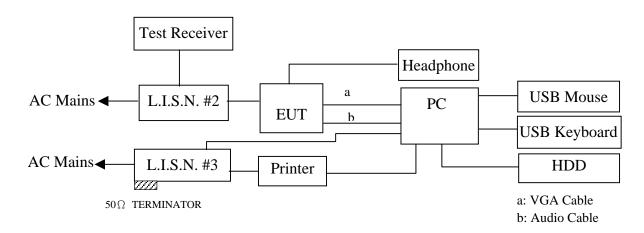
3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI	100843	Oct.24, 08	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 10,08	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May 10,08	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May 10,08	1 Year
5.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	Nov.10, 08	1/2 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	Nov.10, 08	1/2 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	Nov.10, 08	1/2 Year

3.2.Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



(EUT: LCD TV)

3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	$dB(\mu V)$	$dB(\mu V)$		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes: 1. * Decreasing linearly with logarithm of frequency.

^{2.} The lower limit shall apply at the transition frequencies.

3.4.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1.LCD TV (EUT)

Model Number : L42FHD37R

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Detail, in Section 2.2.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. Let the EUT work in test mode (Running "H" Pattern and Playing Music 640*480 60Hz / Running "H" Pattern and Playing Music 800*600 60Hz / Running "H" Pattern and Playing Music 1024*768 60Hz) and measure it.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 2#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESCI) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.7. Conducted Disturbance at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes was tested and selected (mode 3) to read Q.P values and Average values, all the test results are listed in next pages.

EUT: LCD TV Model No.: L42FHD37R

Test Date: Feb.02~06, 2009 Temperature: 23°C Humidity: 54%

The details of test modes are as follows:

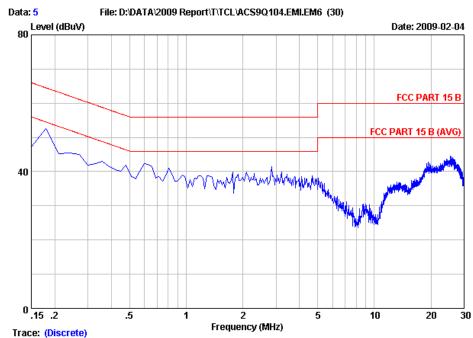
NO.	Test Mode	Resolution &	Reference T	est Data No.
NO.	Test Mode	Frequency	VA	VB
1.		640*480 60Hz	#5	#6
2.	Running "H" Pattern and Playing Music	800*600 60Hz	#3	#4
3.	1 my mg 11 more	1024*768 60Hz	#1	#2

(* Worst test mode)



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Postcode:518057



Site no :Audix No.1 Conduction Data no

:** KNW407 1# Dis./Ant. :FCC PART 15 B Limit

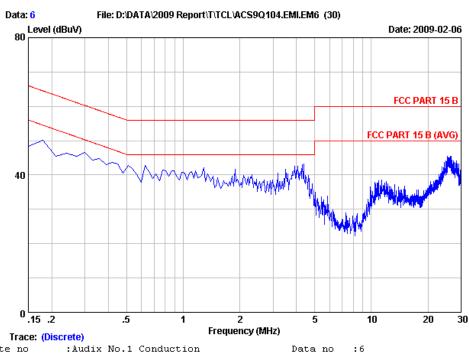
Env./Ins. :Temp:23'C Humi:54% Engineer :Leo

EUT :LCD TV M/N:L42FHD37R

Power Rating :AC 120V/60Hz

:Running "H" Pattern and Playing Music Test Mode

:640*480@60Hz



Site no

Dis./Ant. :** KNW407 1# :FCC PART 15 B Limit

Env./Ins. :Temp:23'C Humi:54% Engineer :Leo

:LCD TV M/N:L42FHD37R

Power Rating :AC 120V/60Hz

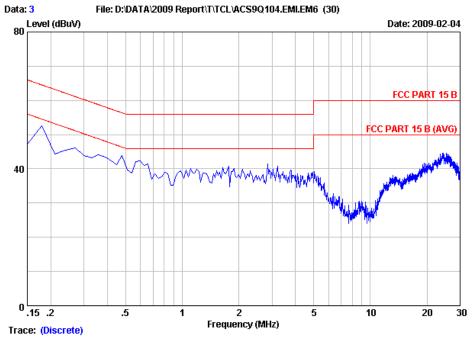
:Running "H" Pattern and Playing Music Test Mode

:640*480@60Hz



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Site no :Audix No.1 Conduction Data no :3

Dis./Ant. :** KNW407 1# VA Limit :FCC PART 15 B

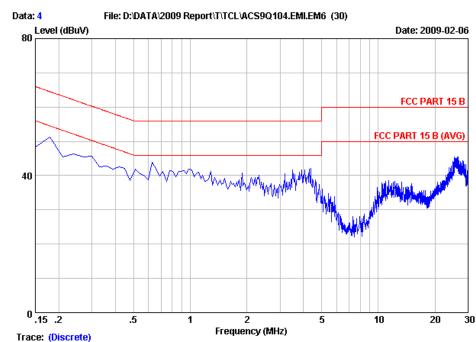
Env./Ins. :Temp:23'C Humi:54% Engineer :Leo

EUT :LCD TV M/N:L42FHD37R

Power Rating :AC 120V/60Hz

Test Mode :Running "H" Pattern and Playing Music

:800*600@60Hz



Site no : Audix No.1 Conduction Data no :4

Dis./Ant. :** KNW407 1# Limit :FCC PART 15 B

Env./Ins. :Temp:23'C Humi:54% Engineer :Leo

EUT :LCD TV M/N:L42FHD37R

Power Rating :AC 120V/60Hz

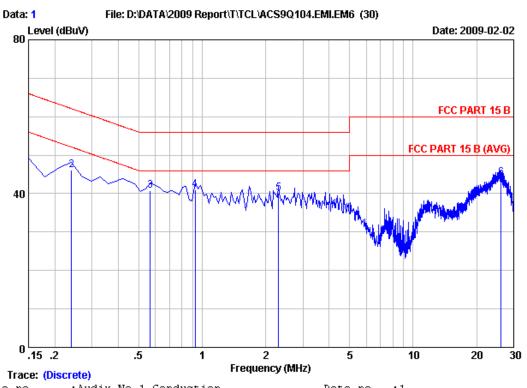
Test Mode : Running "H" Pattern and Playing Music

:800*600@60Hz



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Site no :Audix No.1 Conduction Data no :1

:** KNW407 1# Dis./Ant.

:FCC PART 15 B Limit

:Temp:23'C Humi:54% Env./Ins. Engineer :Leo

:LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz

:Running "H" Pattern and Playing Music Test Mode

:1024*768@60Hz

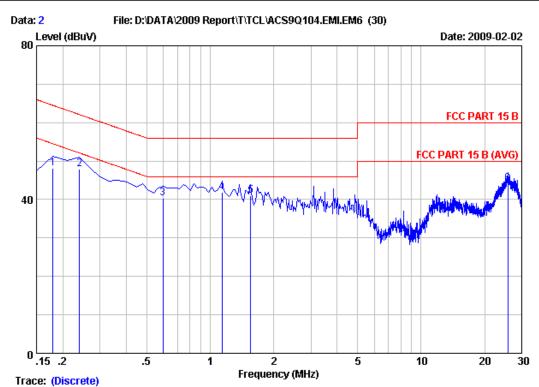
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emissior Level (dBuV)	n Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.26	9.67	37.27	47.20	66.00	18.80	QP
2	0.23955	0.28	9.90	35.85	46.03	62.11	16.08	QP
3	0.56790	0.20	9.87	30.77	40.84	56.00	15.16	QP
4	0.92610	0.12	9.89	30.95	40.96	56.00	15.04	QP
5	2.299	0.10	9.90	30.18	40.18	56.00	15.82	QP
6	26.090	0.69	10.13	33.22	44.04	60.00	15.96	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading 2.If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site no :Audix No.1 Conduction Data no :2

Dis./Ant. :** KNW407 1#

:FCC PART 15 B Limit

Env./Ins.

:Temp:23'C Humi:54% Engineer :Leo

:LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz

:Running "H" Pattern and Playing Music Test Mode

:1024*768@60Hz

:

Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
0.17985	0.15	9.82	38.21	48.18	64.49	16.31	QP
0.23955	0.12	9.90	37.94	47.96	62.11	14.15	QP
0.59775	0.15	9.87	30.36	40.38	56.00	15.62	QP
1.135	0.09	9.89	31.87	41.85	56.00	14.15	QP
1.553	0.06	9.90	31.00	40.96	56.00	15.04	QP
25.761	0.56	10.13	33.35	44.04	60.00	15.96	QP
	(MHz) 0.17985 0.23955 0.59775 1.135 1.553	Freq Factor (MHz) (dB) 0.17985 0.15 0.23955 0.12 0.59775 0.15 1.135 0.09 1.553 0.06	Freq Factor Loss (MHz) (dB) (dB) 0.17985	Freq Factor Loss Reading (MHz) (dB) (dB) (dBuV) 0.17985	Freq Factor Loss Reading Level (MHz) (dB) (dB) (dBuV) (dBuV) 0.17985	Freq Factor Loss Reading Level Limits (MHz) (dB) (dB) (dBuV) (dBuV) (dBuV) 0.17985	Freq Factor Loss Reading Level Limits Margin (MHz) (dB) (dB) (dBuV) (dBuV) (dBuV) (dBuV) (dB) 0.17985

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading

2.If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1.Test Equipment

For frequency range 30MHz~1000MHz (At Anechoic Chamber)

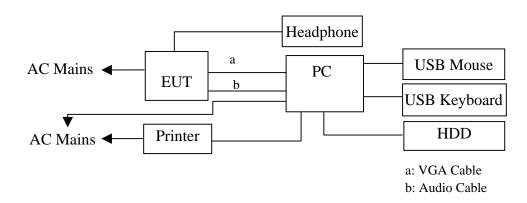
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05,08	1/2 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May 10, 08	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May 10, 08	1 Year
4	Amplifier	HP	8447D	2648A04738	Nov.04, 08	1/2 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Nov.10, 08	1 Year
6	RF Cable	JINGCHENG	JBY400	3# Chamber No.1	Nov.01, 08	1/2 Year
7	RF Cable	JINGCHENG	JBY400	3# Chamber No.2	Nov.01, 08	1/2 Year
8	RF Cable	JINGCHENG	JBY400	3# Chamber No.3	Nov.01, 08	1/2 Year
9	RF Cable	JINGCHENG	JBY400	3# Chamber No.4	Nov.01, 08	1/2 Year
10	Coaxial Switch	Anritsu	MP59B	M73989	Nov.01, 08	1/2 Year

For frequency range: Above 1000MHz (At Anechoic Chamber)

		.0				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.10, 08	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May.27, 08	1.5 Year
3	Amplifier	Agilent	8449B	3008A02495	Nov.24,08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.28, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	271471/4	May.28, 08	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	29086/2	May.28, 08	1 Year

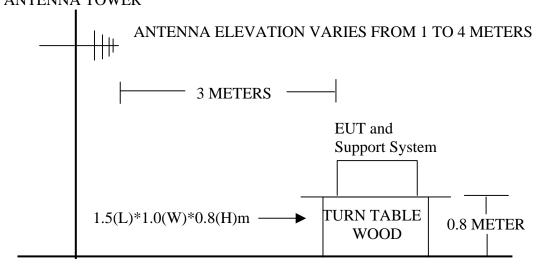
4.2.Block Diagram of Test Setup

4.2.1. Block diagram of connection between the EUT and simulators



(EUT: LCD TV)

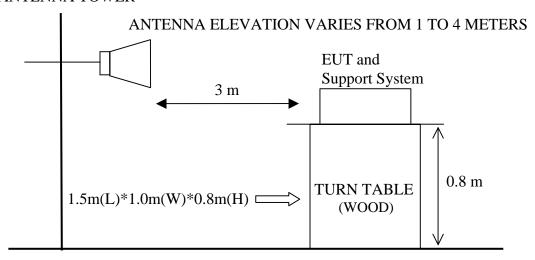
4.2.2. In Anechoic (3m) Chamber Test Setup Diagram for 30MHz~1000MHz ANTENNA TOWER



GROUND PLANE

4.2.3.In Anechoic (10m) Chamber Test Setup Diagram for 1-2GHz

ANTENNA TOWER



GROUND PLANE

4.3. Radiated Emission Limit

Frequency	Distance	Field Strengths Limits
MHz	(Meters)	dB(μV)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
Above 1000	3	74.0 dB(μV)/m (Peak)
		54.0 dB(μV)/m (Average)

Remark : (1) Emission level $dB\mu V = 20 \log$ Emission level $\mu V/m$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) The emissions above 1GHz should comply with average limit and peak limit.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

4.4.1.LCD TV (EUT)

Model Number : L42FHD37R

Serial Number : N/A

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown in Section 4.2.
- 4.5.2. Turn on the power of all equipment.
- 4.5.3. Let the EUT work in test mode (Running "H" Pattern and Playing Music 640*480 60Hz / Running "H" Pattern and Playing Music 800*600 60Hz / Running "H" Pattern and Playing Music 1024*768 60Hz) and test it.

4.6.Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on Radiated Emission test.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESVS10) is 120 kHz.

The resolution bandwidth of the Agilent Spectrum Analyzer E4446A was set at 1MHz. (For above 1GHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

The frequency range from 1GHz to 2GHz was checked with peak and average detector, measurement distance is 3m in 10m chamber.

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.7.

4.7. Radiated Disturbance Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

For frequency range 30MHz~1000MHz

The EUT with the following test modes was tested and selected (mode 3) to read Q.P values, all the test results are listed in next pages.

EUT: LCD TV Model No.: L42FHD37R

Test Date: Feb.20, 2009 Temperature: 24°C Humidity: 47%

The details of test modes are as follows:

NO.	Test Mode	Resolution &	Reference T	Reference Test Data No.		
	Test Mode	Frequency	Horizontal	Vertical		
1.		640*480 60Hz		#5		
2.	Running "H" Pattern and Playing Music	800*600 60Hz	#3	#4		
3. 💥	Traying maste	1024*768 60Hz	#2	#1		

^{(*} Worst test mode)

For frequency range 1GHz~2GHz

The EUT with below test mode 1~3 was measured within Anechoic Chamber and the test results listed in next pages.

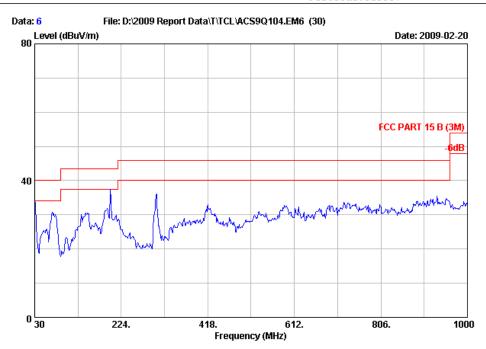
All the PK emissions were comply with average limit, So the average level were deemed to comply with average limit

Test Date: Feb.20, 2009 Temperature: 23°C Humidity: 54%

NO.	Test Mode	Resolution &	Reference T	Reference Test Data No.		
	Test Wiode	Frequency	Horizontal	Vertical		
1.		640*480 60Hz	#1	#2		
2.	Running "H" Pattern and Playing Music	800*600 60Hz	#4	#3		
3.	Traying maste	1024*768 60Hz	#5	#6		



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Site no. : 3m Chamber

Data no. : 6 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m CBL6111C

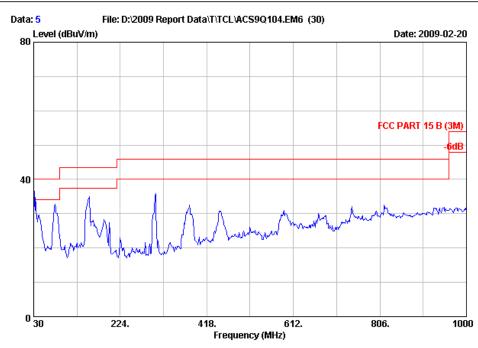
: FCC PART 15 B (3M) Limit

Env. / Ins. : 24*C/47% Engineer : Cain : LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz

: Running "H" Pattern And Playing Music Test Mode

640*480@60Hz



Site no. Data no. : 5 Ant. pol. : VERTICAL : 3m Chamber

Dis. / Ant. : 3m CBL6111C Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/47% Engineer : Cain

: LCD TV M/N:L42FHD37R EUT

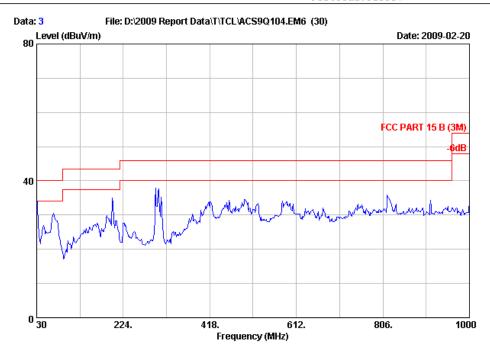
Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And Playing Music

640*480@60Hz



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: 3m Chamber Site no.

Data no. : 3 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m CBL6111C

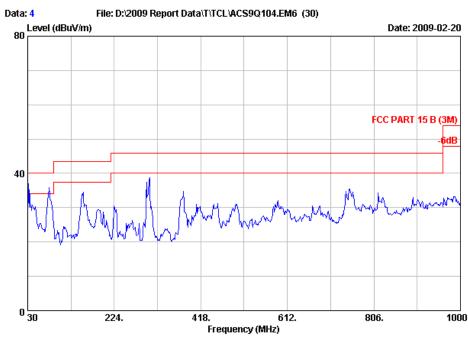
: FCC PART 15 B (3M) Limit

Env. / Ins. : 24*C/47% Engineer : Cain M/N:L42FHD37R EUT : LCD TV

Power Rating : AC 120V/60Hz

: Running "H" Pattern And Playing Music Test Mode

800 * 600@ 60Hz



Site no. : 3m Chamber Data no. : 4 Ant. pol. : VERTICAL Dis. / Ant. : 3m CBL6111C : FCC PART 15 B (3M) Limit

Env. / Ins. : 24*C/47% Engineer : Cain

: LCD TV M/N:L42FHD37R Power Rating : AC 120V/60Hz

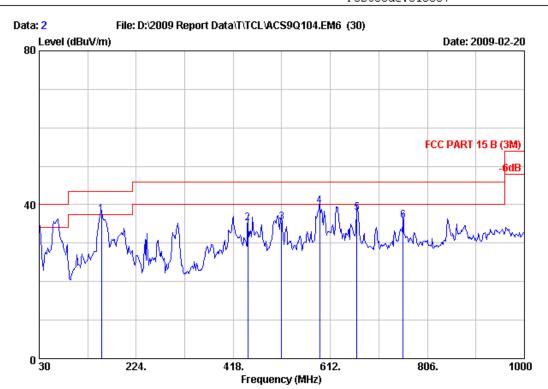
: Running "H" Pattern And Playing Music Test Mode

800 * 600@ 60Hz



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Fax:+86-755-26632877 Postcode:518057



Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m CBL6111C Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/47% Engineer : Cain

EUT : LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And Playing Music

1024*768@60Hz

_		Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	1	154.160	11.29	1.19	25.04	37.52	43.50	5.98	QP
	2	447.100	17.01	2.35	15.95	35.31	46.00	10.69	QP
	3	515.000	18.21	2.57	14.71	35.49	46.00	10.51	QP
	4	590.660	19.45	2.86	17.30	39.61	46.00	6.39	QP
	5	665.350	20.09	3.18	14.58	37.85	46.00	8.15	QP
	6	757.500	21.56	3.44	10.85	35.85	46.00	10.15	QP

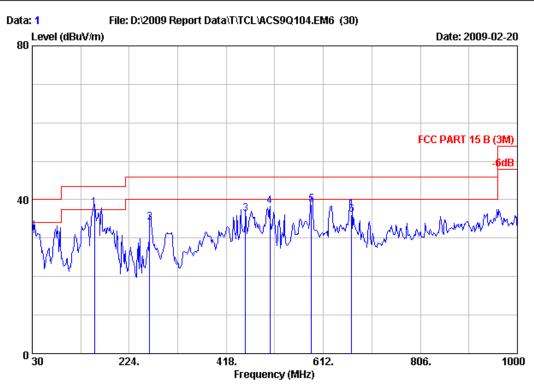
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. The worst emission was detected at 154.160MHz with corrected signal level of 37.52dB μ V/m (Limit is 43.50dB μ V/m) when the antenna was at horizontal polarization and at 2.0m high and the turn table was at 55°.
- 4.0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



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Site no. : 3m Chamber Data no. : 1

Dis. / Ant. : 3m CBL6111C Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/47% Engineer : Cain

EUT : LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And Playing Music

1024*768@60Hz

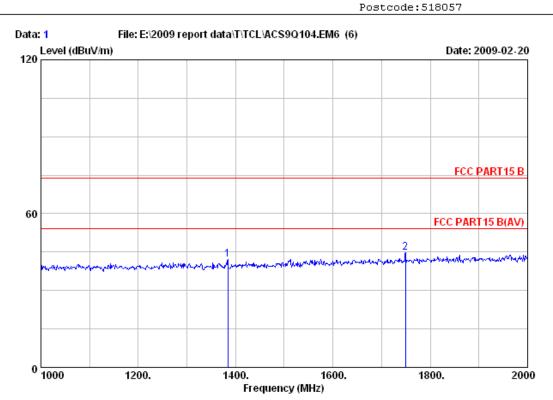
_		Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	1	154.160	11.29	1.19	25.36	37.84	43.50	5.66	QP
	2	264.740	13.71	1.67	18.68	34.06	46.00	11.94	QP
	3	456.800	17.23	2.38	16.79	36.40	46.00	9.60	QP
	4	505.300	18.10	2.54	17.67	38.31	46.00	7.69	QP
	5	587.750	19.44	2.85	16.39	38.68	46.00	7.32	QP
	6	668.260	20.13	3.20	12.74	36.07	46.00	9.93	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. The worst emission was detected at1 54.160MHz with corrected signal level of 37.84dB μ V/m (Limit is 43.50dB μ V/m) when the antenna was at vertical polarization and at 2.0m high and the turn table was at 310°.
- 4.0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



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Site no. : 3m Chamber

Data no. : 1 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 3115

: FCC PART15 B Limit

Env. / Ins. : 23*C/54% Engineer : Victory

: LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz Test mode : 640*480@60Hz

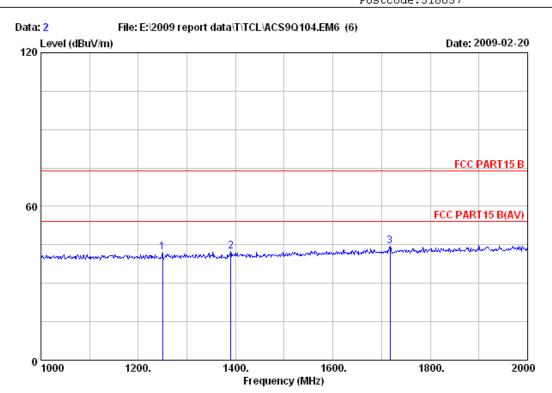
Running"H"Pattern And Playing Music

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1384.000	25.76	5.05	35.88	47.12	42.05	74.00	31.95	Peak
2	1749.000	26.90	5.74	35.48	47.50	44.66	74.00	29.34	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL

Limit : FCC PART15 B

Env. / Ins. : 23*C/54% Engineer : Victory

EUT : LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz Test mode : 640*480@60Hz

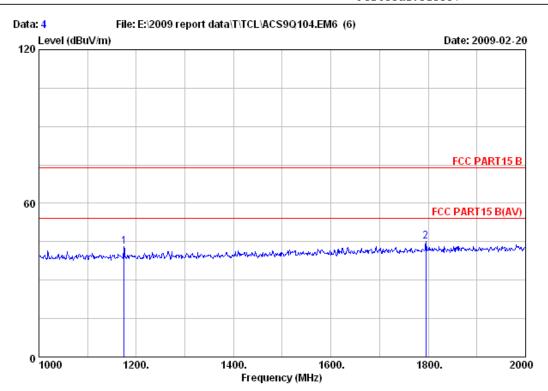
Running"H"Pattern And Playing Music

		Ant.	Cable	Amp		Emission	L		
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1250.000	25.56	4.85	36.02	47.72	42.11	74.00	31.89	Peak
2	1390.000	25.76	5.08	35.88	47.65	42.61	74.00	31.39	Peak
3	1717.000	26.77	5.67	35.51	47.59	44.52	74.00	29.48	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3m Chamber Data no. : 4

Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL

Limit : FCC PART15 B

Env. / Ins. : 23 *C/54% Engineer : Victory

EUT : LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz Test mode : 800*600@60Hz

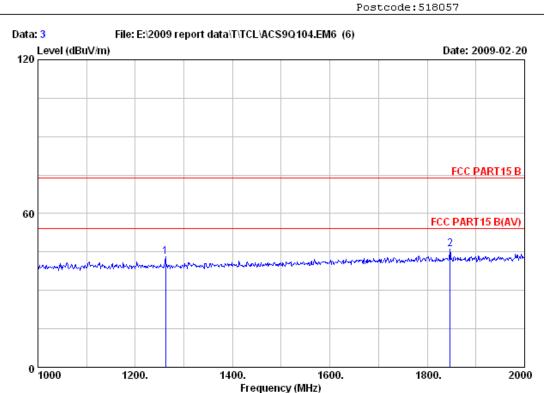
Running"H"Pattern And Playing Music

		Ant.	Cable	Amp		Emission			
	Freq.	Factor (dB/m)	Loss (dB)	Factor (dB)	_		Limits (dBuV/m)	_	Remark
1	1175.000 1795.000	25.44 27.10		36.10 35.43	49.12 47.55	43.17 45.03	74.00 74.00	30.83 28.97	Peak Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3m Chamber Data no. : 3

Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL

Limit : FCC PART15 B

Env. / Ins. : 23*C/54% Engineer : Victory

EUT : LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz Test mode : 800*600@60Hz

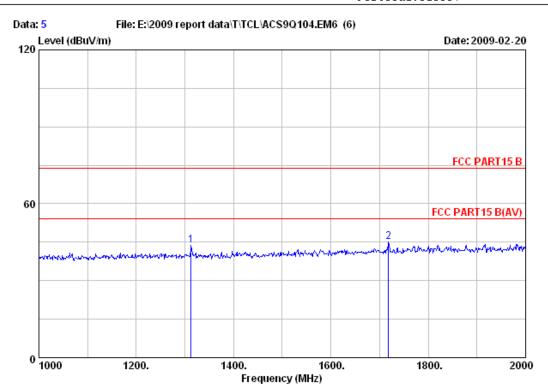
Running"H"Pattern And Playing Music

	Ant. Cable Amp					Emission				
	Freq. (MHz)		Loss (dB)		_	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	1262.000	25.56	4.88	36.02	48.60	43.02	74.00	30.98	Peak	
2	1847.000	27.30	5.89	35.37	48.33	46.15	74.00	27.85	Peak	
-	101000	200	0.05		10.00	10.10		200	LCan	

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3m Chamber

Data no. : 5 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 3115

: FCC PART15 B Limit

Env. / Ins. : 23*C/54% Engineer : Victory

: LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz Test mode : 1024*768@60Hz

Running"H"Pattern And Playing Music

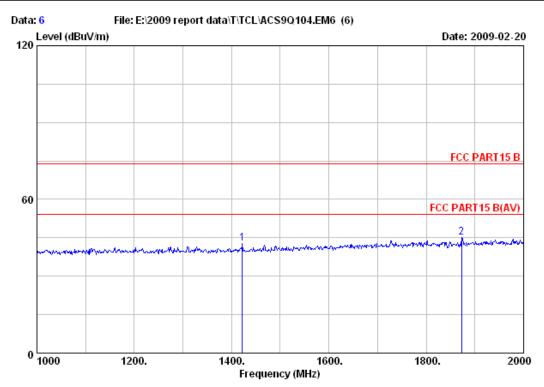
	Freq. (MHz)		•	Reading		Limits (dBuV/m)	_	Remark
1 2	1313.000 1718.000	25.63 26.77	 	49.04 48.36	43.69 45.29	74.00 74.00	30.31 28.71	Peak Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3m Chamber Data no. : 6

Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL

Limit : FCC PART15 B

Env. / Ins. : 23*C/54% Engineer : Victory

EUT : LCD TV M/N:L42FHD37R

Power Rating : AC 120V/60Hz Test mode : 1024*768@60Hz

Running"H"Pattern And Playing Music

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1422.000	25.80	5.12	35.82	47.75	42.85	74.00	31.15	Peak
2	1873.000	27.37	5.92	35.34	47.18	45.13	74.00	28.87	Peak

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

5. DEVIATION TO TEST SPECIFICATIONS

[NONE]

6. PHOTOGRAPH

6.1.Photos of Power Line Conducted Emission Test





6.2. Photos of Radiated Emission Test (In Anechoic Chamber)





7. PHOTOS OF THE EUT

Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT







Figure 4
General Appearance of the EUT







Figure 6 General Appearance of the EUT



Figure 7
Inside of the EUT



Figure 8
Inside of the EUT



Figure 9
Inside of the EUT

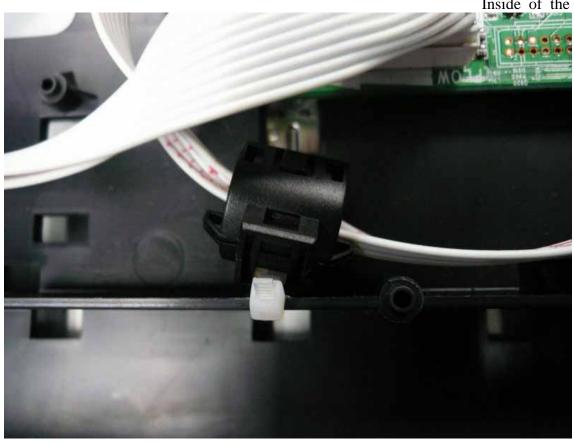


Figure 10
Inside of the EUT



Figure 11
Inside of the EUT



Figure 12
Inside of the EUT



Figure 13
Inside of the EUT

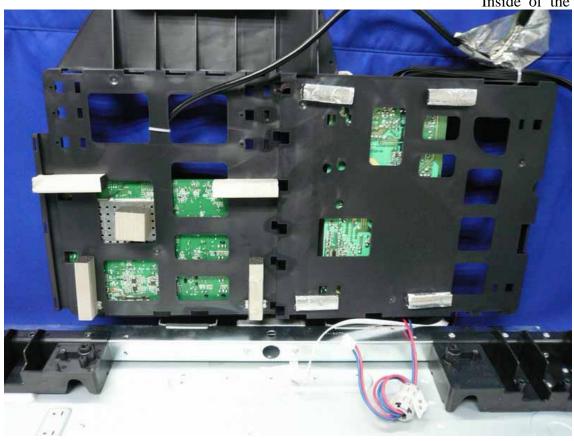


Figure 14
Inside of the EUT



Figure 15 Inside of the EUT



Figure 16 Label of the EUT

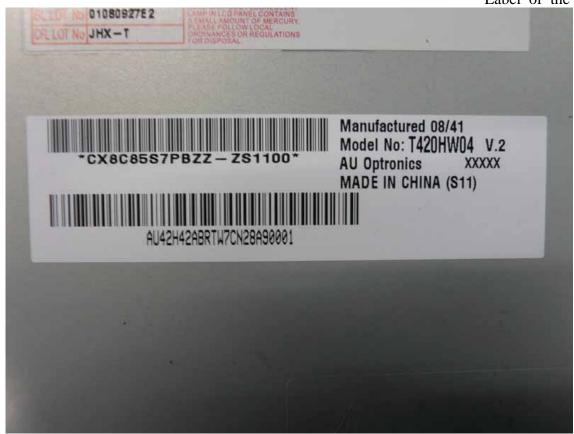






Figure 18 Component side of the PCB

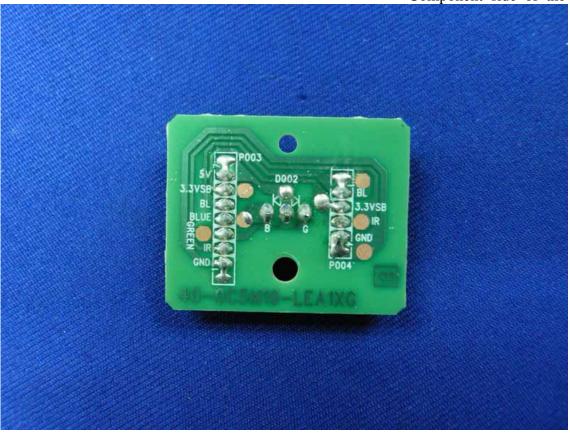


Figure 19 Component side of the PCB



Figure 20 Component side of the PCB

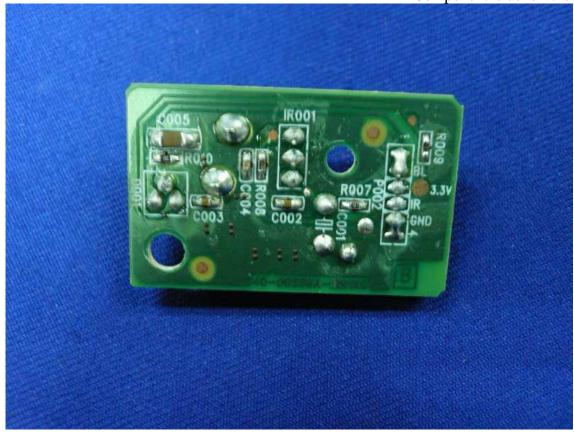


Figure 21 Component side of the PCB

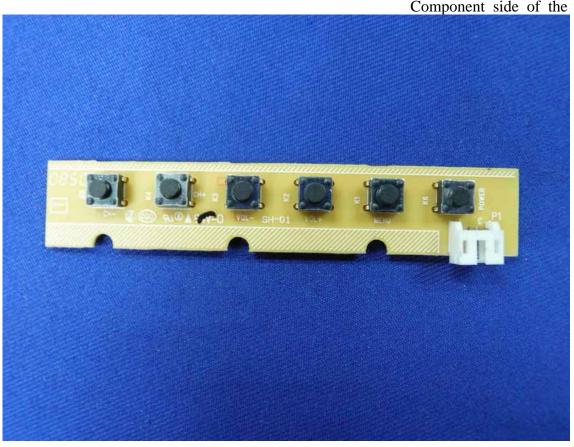


Figure 22 Component side of the PCB

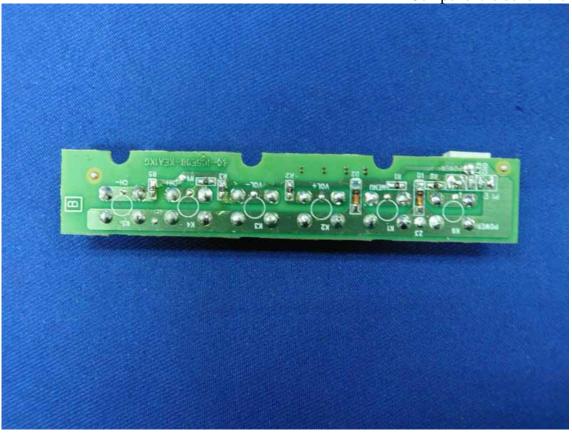


Figure 23
Component side of the PCB

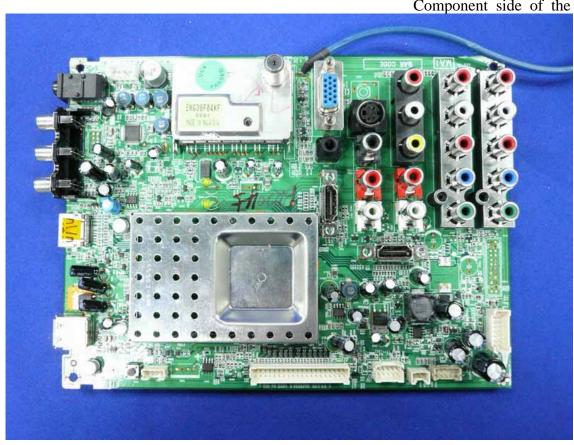


Figure 24
Component side of the PCB

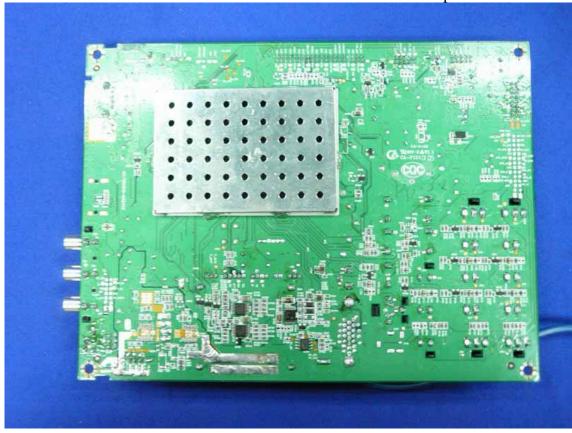


Figure 25
Component side of the PCB



Figure 26
Component side of the PCB

