#### FCC ID:W8ULE39FHDE3000

# APPLICATION OF CERTIFICATION For

TTE Technology Inc.

#### LCD TV

Brand Name	Model Number
TCL	LE39FHDE3000; LE39FHDE3011; LE39FHDE5311 ; LE39FHDF3310TA ; LE39FHDF3311 ; LE39FHDF3312

FCC ID: W8ULE39FHDE3000

Prepared for: TTE Technology Inc.

1255 Graphite Drive, Corona, CA 92881, U.S.A.

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

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

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

Report Number : ACS- F13014 Date of Test : Jan.06~07, 2013 Date of Report : Feb.05, 2013



#### FCC ID:W8ULE39FHDE3000

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FCC ID: W8ULE39FHDE3000

## TEST REPORT CERTIFICATION

**Applicant** 

: TTE Technology Inc.

Manufacturer

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

**EUT Description** 

LCD TV

FCC ID

W8ULE39FHDE3000

(A) Model No.&:

**Brand Name** 

Brand Name	Model Number	
TCL	LE39FHDE3000;LE39FHDE3011; LE39FHDE5311;LE39FHDF3310TA; LE39FHDF3311;LE39FHDF3312	

(B) Power Supply: AC 120V/60Hz (C) Test Voltage: AC 120V/60Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2011, ANSI C63.4: 2009 ICES-003 Issue 4 February 2004.

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 both conducted and radiated emissions. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed of full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test: \_\_\_\_\_\_ Jan.06~07,2013 \_\_\_\_ Report of date: \_\_\_\_\_ Feb.05, 2013

Prepared by:

Julia Zhu/ Assistant D

Audix Technology (Shenzhen) Zeng Supervisor

EMC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						
<b>Description of Test Item</b>	Standard	Results	Remarks				
Power Line Conducted Emission Test	FCC Part 15: 2011 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 20.37 dB at 0.77519MHz				
Radiated Emission Test (30-1000MHz)	FCC Part 15: 2011 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 2.37dB at 891.360MHz				
Radiated Emission Test (1-2GHz)	FCC Part 15: 2011 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 7.94dB at 1994.840MHz				



## 2. GENERAL INFORMATION

## 2.1.Description of Device (EUT)

Description : LCD TV

: LE39FHDE3000;LE39FHDE3011;

Model Number LE39FHDE5311;LE39FHDF3310TA;

LE39FHDF3311;LE39FHDF3312

Only the Model name, appearance color and shell is different

FCC ID : W8ULE39FHDE3000

Applicant : TTE Technology Inc.

1255 Graphite Drive, Corona, CA 92881, U.S.A.

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

Section 19, Zhongkai Development Zone for New & High-Level Tech Industries, Huizhou, Guangdong Province, China, 516006.

FREQUENCIES USED AND GENERATED WITHIN DEVICE				
X54M1	45-OSC54M-0Y1CR	54MHz		
LVDS CLOCK	81.43MHZ			
IF	6MHz			
DC-DC	U302->385KHz	U303->1MHz		
DDR	390MHz			
AMP	384KHz			

Power Cord : Unshielded, Undetachable, 1.8m

Date of Test : Jan.06~07, 2013

Date of Receipt : Jan.02,2013

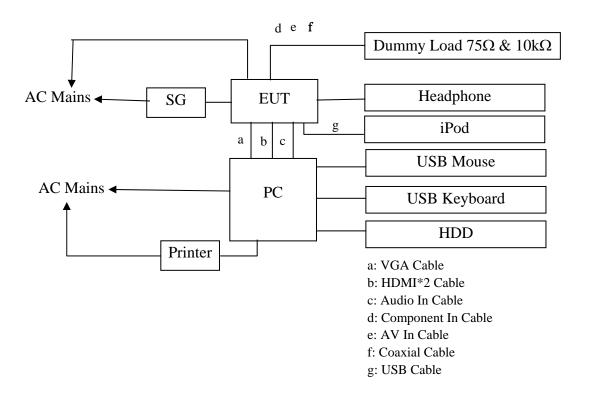
Sample Type : Prototype production



# 2.2.Tested Supporting System Details

	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type		
1.	Personal	Test PC P	DELL	Studio 540	124XK2X	☑FCC DoC ☑BSMI ID:R33002		
	Computer	Power Cord: Unshie Display Card: HD34	·					
2.	USB Keyboard	ACS-EMC- K04R	DELL	SK-8115	CN-ODJ313-7161 6-6BB-049J	☑ FCC DoC ☑BSMI ID: T3A002		
		Data Cable: shielded	l, Undetachable, 2	2.0m				
3.	Headphone	ACS-EMC-EP03	OVANN	OV880V	N/A	□FCC ID □BSMI ID		
		Cable: Shielded, Un	detachabled, 4.0n	n				
		ACS-EMC-PT04	НР	C9079A	N/A	☑FCC DoC ☑BSMI ID: R33001		
4.	USB Cable: Shielded, Detachabled, 1.8m  Power Cord: Unshielded, Detachabled, 1.8m  Power Adapter: HP, M/N: 0957-2119, BSMI ID: R33030,  DC Cable: Unshielded, Detachabled, 1.5m							
5.	USB Mouse	ACS-EMC-M04R	DELL	M056UO	512024282	☑ FCC DoC ☑BSMI ID: R41108		
		Data Cable: shielded	l, Undetachable, 1	1.8m				
6.	iPod nano	ACS-EMC-IP03	APPLE	A1199	YM711H3LVQ5	☑FCC DoC ☑BSMI ID: R33057		
		Data Cable: Shielded, Detachabled, 1.0m						
7.	HDD	ACS-EMC-HDD03	Terasys	F12-UF	A0100215-53900 30	☑FCC DoC ☑BSMI ID: 4912A022		
		USB Cable: Shielded, Detachable, 1.8m						
8.	Dummy Load $(10 \text{K}\Omega \& 75\Omega)$	Component In Cable AV Cable: Unshield Coaxial Cable: Un	ed, Detachable, 1	.5m	m			
9.	HDMI Cable: Sh Audio Cable: Ur AV Cable: Unsh	nielded, Detachable nielded, Detachable nshielded, Detachable, ielded, Detachable, Jnshielded, Detach	, 1.5m , 1.8m ble, 1.5m , 1.5m	,				

# 2.3.Block diagram of connection between the EUT and simulators



(EUT: LCD TV)



## 2.4.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 : Certificated by FCC, USA

Registration Number: 90454 Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 794232 Valid Date: Oct.31, 2015

EMC Lab. : Certificated by DAkkS, Germany

Registration No: D-PL-12151-01-01

Valid Date: Feb.01, 2014

Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2013

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

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.06 dB
	3.6 dB(30~200MHz, Polarize: H)
Uncertainty for Radiation Emission test	3.8 dB(30~200MHz, Polarize: V)
in 3m chamber	4.2 dB(200M~1GHz, Polarize: H)
	3.8 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in	3.1dB(Distance: 3m Polarize: V)
3m chamber (1GHz-18GHz)	3.7 dB(Distance: 3m Polarize: H)
Uncertainty for test site temperature	3%
and humidity	$0.6^{\circ}\mathbb{C}$

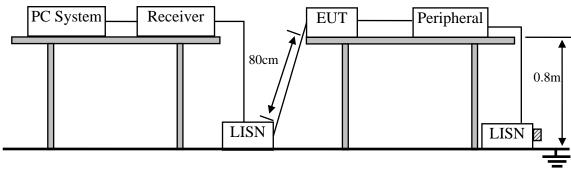


## 3. POWER LINE CONDUCTED EMISSION MEASUREMENT

## 3.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 12	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 12	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 12	1 Year
4.	Terminator	Hubersuhner	$50\Omega$	No. 1	May.08, 12	1 Year
5.	Terminator	Hubersuhner	$50\Omega$	No. 2	May.08, 12	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 12	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 12	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 12	1 Year

## 3.2.Block Diagram of Test Setup



☑ :50Ω Terminator

#### 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 : LE39FHDE3000

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. PC system ran the Self-test program "EMC Test. exe" by windows XP and sent "H" Character to LCD TV (EUT), the Screen of EUT displayed and filled with "H" pattern, use white letters on a black ground, set the contrast control to maximum, set the brightness control to maximum and measure it.
- 3.5.4. The PC system was running the program "1kHz signal Playing" and sending sound to EUT.
- 3.5.5. The other peripheral devices were driven and operated in turn during all testing.

#### 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. 1#). 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: 2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

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

## 3.7. Conducted Emission 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 were tested and selected to read Q.P values and average values, all the test results are listed in next pages.

EUT: LCD TV Model No. : LE39FHDE3000

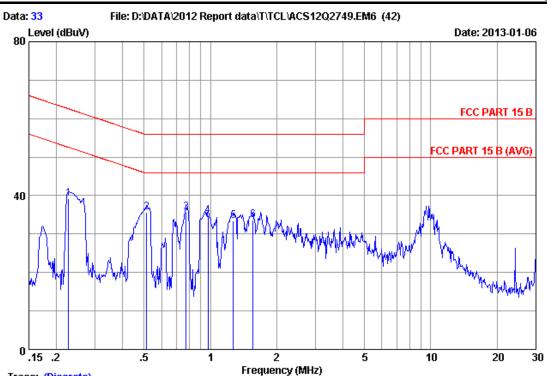
Test Date: Jan.06, 2013 Temperature: 25.5℃ Humidity: 65%

The details of test modes are as follows:

No.	Test Mode	Input Port	Resolution &	Reference N	Test Data o.
			Frequency	Line	Neutral
1.			640*480 @60Hz	#33	#34
2.		VGA	1024*768 @ 60Hz	#36	#35
3.	PC Mode		1920*1080@60Hz	#37	#38
4.		HDMI 1	1920*1080@60Hz	#40	#39
5. 💥		HDMI 2	1920*1080@60Hz	#41	#42

(\* Worst test mode)





Trace: (Discrete)

Site no :1#conduction Data No :33

Dis./Ant. :\*\* 2012 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :25.5\*C/65% Engineer :Alan\_Chen

EUT :LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

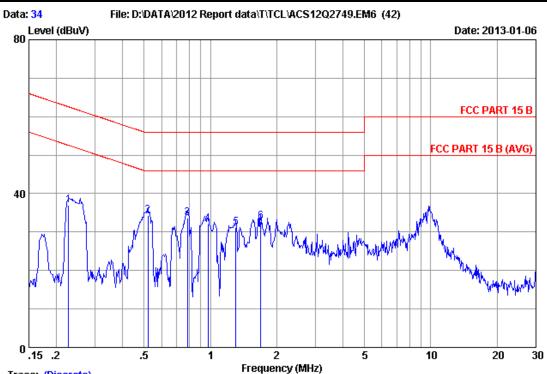
Test Mode : Running "H" Pattern And 1KHz Playing

:VGA:640\*480@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.22676	0.19	9.95	28.99	39.13	62.57	23.44	QP
2	0.51278	0.19	9.95	25.41	35.55	56.00	20.45	QP
3	0.77519	0.20	9.95	25.48	35.63	56.00	20.37	QP
4	0.97354	0.21	9.94	24.65	34.80	56.00	21.20	QP
5	1.269	0.22	9.94	23.19	33.35	56.00	22.65	QP
6	1.560	0.23	9.94	23.52	33.69	56.00	22.31	QP

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





Trace: (Discrete)

Site no :1#conduction Data No :34

Dis./Ant. :\*\* 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :25.5\*C/65% Engineer :Alan\_Chen

EUT :LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

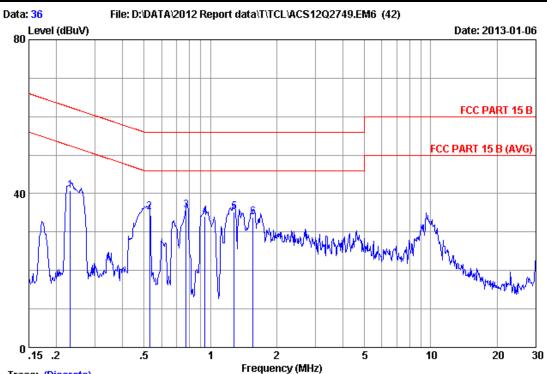
Test Mode : Running "H" Pattern And 1KHz Playing

:VGA:640\*480@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.22676	0.21	9.95	26.76	36.92	62.57	25.65	QP
2	0.52099	0.23	9.95	24.05	34.23	56.00	21.77	QP
3	0.78761	0.24	9.95	23.55	33.74	56.00	22.26	QP
4	0.97354	0.24	9.94	21.98	32.16	56.00	23.84	QP
5	1.303	0.26	9.94	21.06	31.26	56.00	24.74	QP
6	1.689	0.27	9.94	22.45	32.66	56.00	23.34	QP

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





Trace: (Discrete)

Site no :1#conduction Data No :36

Dis./Ant. :\*\* 2012 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :25.5\*C/65% Engineer :Alan\_Chen

EUT :LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

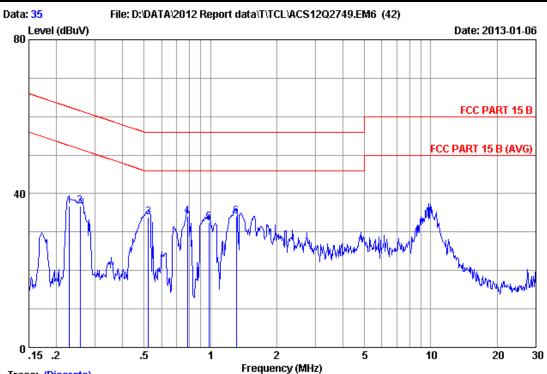
Test Mode : Running "H" Pattern And 1KHz Playing

:VGA:1024\*768@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.23162	0.19	9.95	30.72	40.86	62.39	21.53	QP
2	0.52934	0.19	9.95	25.18	35.32	56.00	20.68	QP
3	0.77519	0.20	9.95	25.52	35.67	56.00	20.33	QP
4	0.94308	0.21	9.94	24.02	34.17	56.00	21.83	QP
5	1.282	0.22	9.94	25.13	35.29	56.00	20.71	QP
6	1.560	0.23	9.94	23.80	33.97	56.00	22.03	QP

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





Trace: (Discrete)

Site no :1#conduction Data No :35

Dis./Ant. :\*\* 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :25.5\*C/65% Engineer :Alan\_Chen

EUT :LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

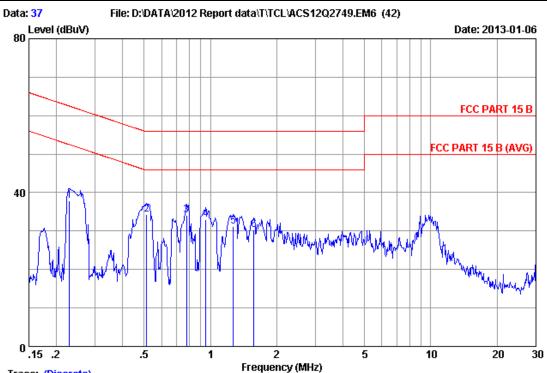
Test Mode : Running "H" Pattern And 1KHz Playing

:VGA:1024\*768@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.22918	0.21	9.95	26.58	36.74	62.48	25.74	QP
2	0.25615	0.22	9.95	26.69	36.86	61.56	24.70	QP
3	0.52376	0.23	9.95	23.66	33.84	56.00	22.16	QP
4	0.78761	0.24	9.95	23.96	34.15	56.00	21.85	QP
5	0.98391	0.24	9.94	22.38	32.56	56.00	23.44	QP
6	1.310	0.26	9.94	23.89	34.09	56.00	21.91	QP

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





Trace: (Discrete)

Site no :1#conduction Data No :37

Dis./Ant. :\*\* 2012 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :25.5\*C/65% Engineer :Alan\_Chen

EUT :LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

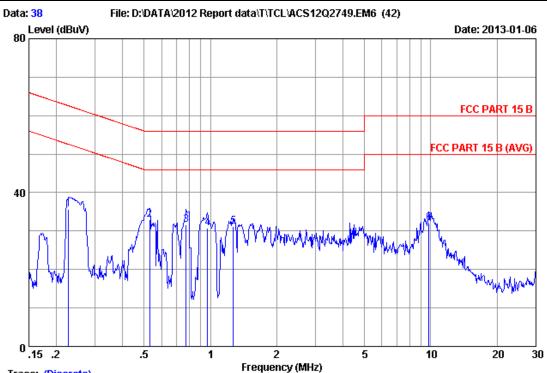
Test Mode : Running "H" Pattern And 1KHz Playing

:VGA:1920\*1080@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.22918	0.19	9.95	27.83	37.97	62.48	24.51	QP
2	0.51278	0.19	9.95	24.11	34.25	56.00	21.75	QP
3	0.77931	0.20	9.95	23.84	33.99	56.00	22.01	QP
4	0.95313	0.21	9.94	22.88	33.03	56.00	22.97	QP
5	1.269	0.22	9.94	21.09	31.25	56.00	24.75	QP
6	1.577	0.23	9.94	20.25	30.42	56.00	25.58	QP

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





Trace: (Discrete)

Site no :1#conduction Data No :38

Dis./Ant. :\*\* 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :25.5\*C/65% Engineer :Alan\_Chen

EUT :LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

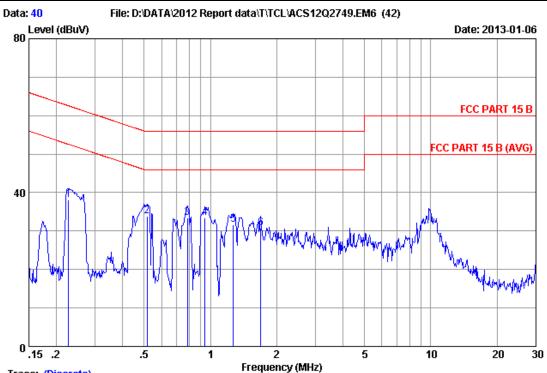
Test Mode : Running "H" Pattern And 1KHz Playing

:VGA:1920\*1080@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.22676	0.21	9.95	25.60	35.76	62.57	26.81	QP
2	0.52934	0.23	9.95	22.80	32.98	56.00	23.02	QP
3	0.77519	0.24	9.95	21.49	31.68	56.00	24.32	QP
4	0.96840	0.24	9.94	20.67	30.85	56.00	25.15	QP
5	1.269	0.25	9.94	20.96	31.15	56.00	24.85	QP
6	9.809	0.44	9.97	21.69	32.10	60.00	27.90	QP

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





Trace: (Discrete)

Site no :1#conduction Data No :40

Dis./Ant. :\*\* 2012 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :25.5\*C/65% Engineer :Alan\_Chen

EUT :LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

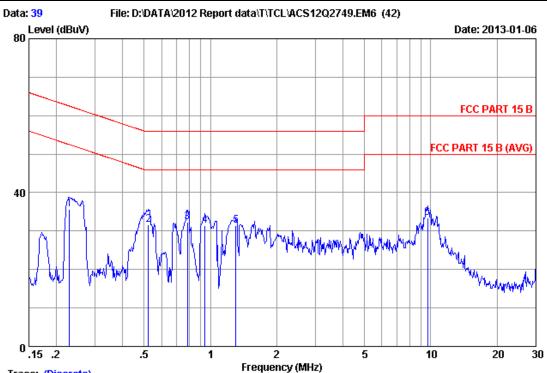
Test Mode : Running "H" Pattern And 1KHz Playing

:HDMI 1:1920\*1080@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.22676	0.19	9.95	27.97	38.11	62.57	24.46	QP
2	0.51550	0.19	9.95	23.83	33.97	56.00	22.03	QP
3	0.78761	0.20	9.95	23.30	33.45	56.00	22.55	QP
4	0.94308	0.21	9.94	23.20	33.35	56.00	22.65	QP
5	1.269	0.22	9.94	21.43	31.59	56.00	24.41	QP
6	1.689	0.23	9.94	20.64	30.81	56.00	25.19	QP

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





Trace: (Discrete)

Site no :1#conduction Data No :39

Dis./Ant. :\*\* 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :25.5\*C/65% Engineer :Alan Chen

EUT :LCD TV M/N:LE39FHDE3000

Power Rating :AC 120V/60Hz

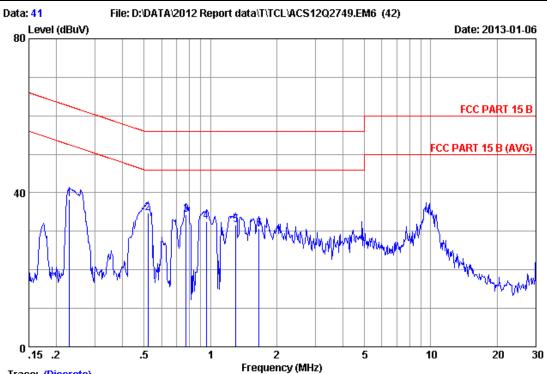
Test Mode : Running "H" Pattern And 1KHz Playing

:HDMI 1:1920\*1080@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.22918	0.21	9.95	25.56	35.72	62.48	26.76	QP
2	0.52376	0.23	9.95	21.45	31.63	56.00	24.37	QP
3	0.78761	0.24	9.95	22.23	32.42	56.00	23.58	QP
4	0.94308	0.24	9.94	21.35	31.53	56.00	24.47	QP
5	1.303	0.26	9.94	21.11	31.31	56.00	24.69	QP
6	9.654	0.44	9.97	23.08	33.49	60.00	26.51	QP

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





Trace: (Discrete)

Site no :1#conduction Data No

:\*\* 2012 ESH2-Z5 LINE Dis./Ant.

:FCC PART 15 B Limit

Env./Ins. :25.5\*C/65% Engineer : Alan\_Chen

:LCD TV M/N:LE39FHDE3000 EUT

Power Rating :AC 120V/60Hz

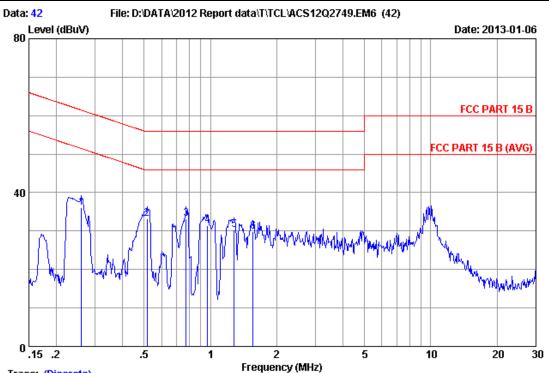
:Running "H" Pattern And 1KHz Playing

:HDMI 2:1920\*1080@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.22918	0.19	9.95	28.29	38.43	62.48	24.05	QP
2	0.52099	0.19	9.95	24.63	34.77	56.00	21.23	QP
3	0.77519	0.20	9.95	24.08	34.23	56.00	21.77	QP
4	0.95819	0.21	9.94	22.49	32.64	56.00	23.36	QP
5	1.303	0.22	9.94	21.55	31.71	56.00	24.29	QP
6	1.662	0.23	9.94	20.66	30.83	56.00	25.17	QP

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





Trace: (Discrete)

Site no :1#conduction Data No :42

Dis./Ant. :\*\* 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :25.5\*C/65% Engineer :Alan\_Chen

EUT :LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

:HDMI 2:1920\*1080@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.26025	0.22	9.95	25.95	36.12	61.42	25.30	QP
2	0.51550	0.23	9.95	23.07	33.25	56.00	22.75	QP
3	0.77519	0.24	9.95	23.06	33.25	56.00	22.75	QP
4	0.96840	0.24	9.94	21.21	31.39	56.00	24.61	QP
5	1.282	0.25	9.94	20.17	30.36	56.00	25.64	QP
6	1.560	0.27	9.94	19.58	29.79	56.00	26.21	QP

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



## 4. RADIATED EMISSION MEASUREMENT

## 4.1.Test Equipment

4.1.1.For frequency range 30MHz~1000MHz

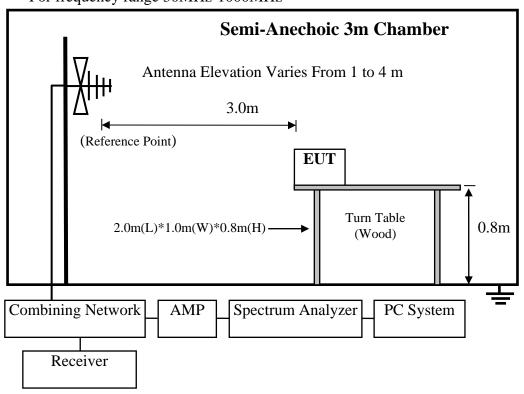
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24,12	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 12	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 12	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 12	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.26, 10	2.0 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 12	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 12	1 Year

### 4.1.2.For frequency range 1GHz~2GHz

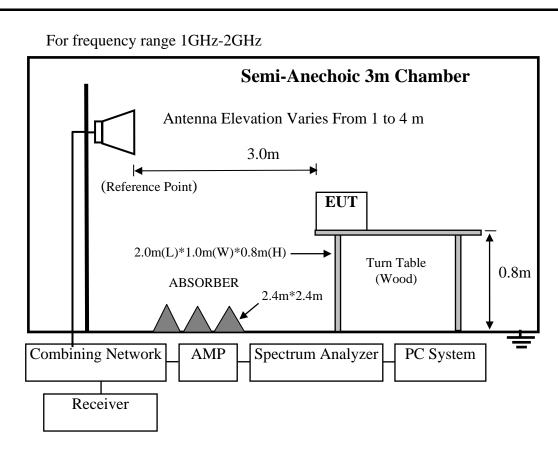
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 12	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	June.05, 12	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 12	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 12	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 12	1 Year

## 4.2.Block Diagram of Test Setup

For frequency range 30MHz-1000MHz







#### 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(Peak)54(Average)

Remark: (1) Emission level = Antenna Factor + Cable Loss + Reading Emission level = Antenna Factor - Amp Factor + Cable Loss + Reading (above 1000MHz)

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.4

#### 4.5. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.5. except the test set up replaced by Section 4.2.



#### 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: 2009 on Radiated Emission test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz.

#### 4.7. Radiated Disturbance Test Results

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

EUT: LCD TV Model No.: LE39FHDE3000

#### For frequency range 30MHz~1000MHz

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

Test Date: Jan.07,2013 Temperature: 24°C Humidity: 56%

The details of test modes are as follows:

No.	Test Mode	Input Port	Input Port Resolution &		Γest Data
		_	Frequency	Horizontal	Vertical
1.			640*480 @60Hz	#42	#41
2.		VGA	1024*768 @ 60Hz	#39	#40
3.	PC Mode		1920*1080@60Hz	#37	#38
4. 💥		HDMI 1	1920*1080@60Hz	#33	#34
5.		HDMI 2	1920*1080@60Hz	#36	#35

(\* Worst test mode)





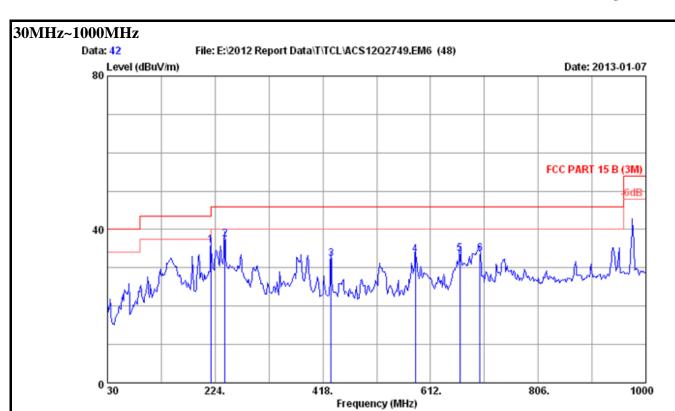
#### For frequency range 1GHz~2GHz

The EUT with below test mode were measured within Anechoic Chamber and the test results listed in next pages

Note: For all the emissions above 1GHz, the peak measured level comply with peak limit, so the average level were deemed to comply with average limit.

Test Date: Jan.07,2013 Temperature: 24°C Humidity: 56%

NO.	Test Mode	Desclution & Frequency	Reference Te	st Data No.
NO.	Test Mode	Resolution & Frequency	Horizontal	Vertical
1.	VGA	1920*1080 @60Hz	#43	#44
2.	HDMI 1	1920*1080 @60Hz	#46	#45
3.	HDMI 2	1920*1080 @60Hz	#47	#48



Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

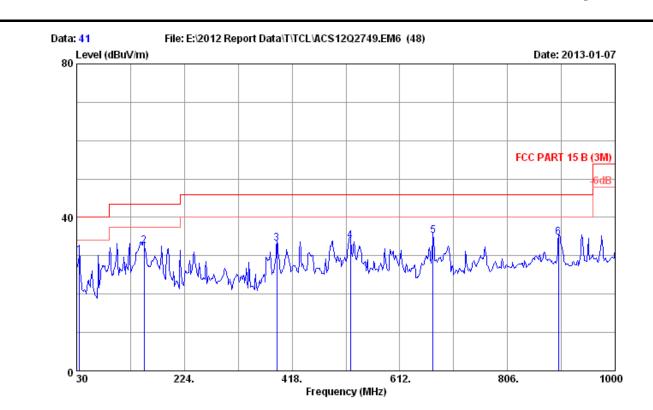
Power rating : AC 120V/60Hz Test Mode : VGA:640\*480@60Hz

Running "H" Pattern And 1KHz Playing

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	216.240	9.75	1.11	24.97	35.83	46.00	10.17	QP
2	241.460	11.79	1.15	24.47	37.41	46.00	8.59	QP
3	432.550	17.58	1.64	13.13	32.35	46.00	13.65	QP
4	584.840	20.09	2.07	11.29	33.45	46.00	12.55	QP
5	665.350	20.96	2.32	10.32	33.60	46.00	12.40	QP
6	701.240	21.41	2.42	9.80	33.63	46.00	12.37	QP

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





Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

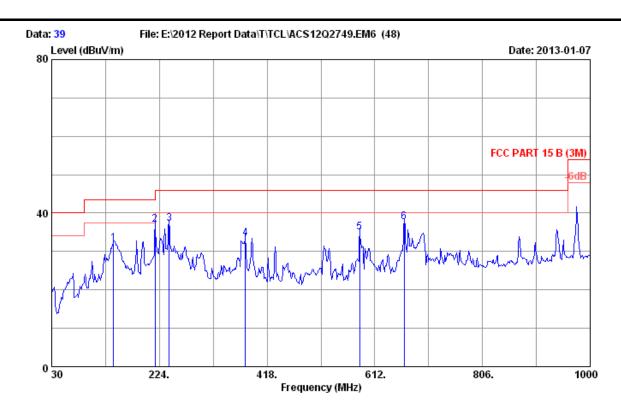
Power rating : AC 120V/60Hz Test Mode : VGA:640\*480@60Hz

Running "H" Pattern And 1KHz Playing

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.850	16.01	0.51	13.66	30.18	40.00	9.82	QP
2	151.250	10.90	0.96	20.74	32.60	43.50	10.90	QP
3	390.840	16.36	1.52	15.26	33.14	46.00	12.86	QP
4	522.760	19.07	1.89	13.02	33.98	46.00	12.02	QP
5	672.140	21.29	2.34	11.51	35.14	46.00	10.86	QP
6	898.150	23.55	2.81	8.41	34.77	46.00	11.23	QP

<sup>2.</sup> The emission levels that are 20dB below the official limit are not reported.





Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

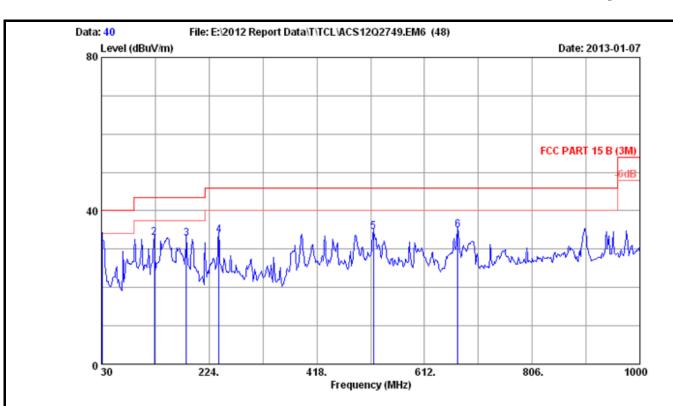
EUT : LCD TV M/N:LE39FHDE3000

Power rating : AC 120V/60Hz Test Mode : VGA:1024\*768@60Hz

Running "H" Pattern And 1KHz Playing

-	Level	Reading (dBuV)	Cable Loss (dB)	Ant. Factor (dB/m)	. Freq.	No.
9.88 32.08 43.50 11.42 QP	32.08	19.88	0.94	11.26	141.550	1
5.15 37.01 46.00 8.99 QP	37.01	26.15	1.11	9.75	216.240	2
1.33 37.27 46.00 8.73 QP	37.27	24.33	1.15	11.79	241.460	3
5.05 33.52 46.00 12.48 QP	33.52	16.05	1.50	15.97	379.200	4
2.89 35.05 46.00 10.95 QP	35.05	12.89	2.07	20.09	584.840	5
1.35 37.63 46.00 8.37 QP	37.63	14.35	2.32	20.96	665.350	6
9.88 32.08 43.50 11.42 QP 5.15 37.01 46.00 8.99 QP 4.33 37.27 46.00 8.73 QP 5.05 33.52 46.00 12.48 QP 2.89 35.05 46.00 10.95 QP	32.08 37.01 37.27 33.52 35.05	19.88 26.15 24.33 16.05 12.89	0.94 1.11 1.15 1.50 2.07	11.26 9.75 11.79 15.97 20.09	141.550 216.240 241.460 379.200 584.840	3 4 5





Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

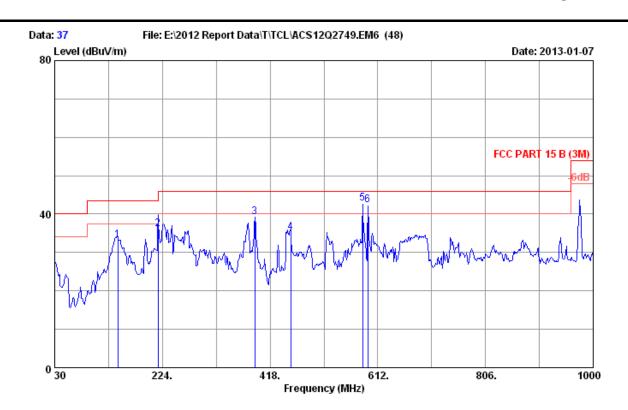
Power rating : AC 120V/60Hz Test Mode : VGA:1024\*768860Hz

Running "H" Pattern And 1KHz Playing

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)		Limits (dBuV/m)		Remark
1	31.940	17.61	0.45	13.59	31.65	40.00	8.35	QP
2	125.060	11.23	0.90	20.81	32.94	43.50	10.56	QP
3	183.260	8.83	1.03	22.92	32.78	43.50	10.72	QP
4	241.460	11.79	1.15	20.61	33.55	46.00	12.45	QP
5	519.850	19.06	1.89	13.56	34.51	46.00	11.49	QP
6	672.140	21.29	2.34	11.33	34.96	46.00	11.04	QP

The emission levels that are 20dB below the official limit are not reported.





Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

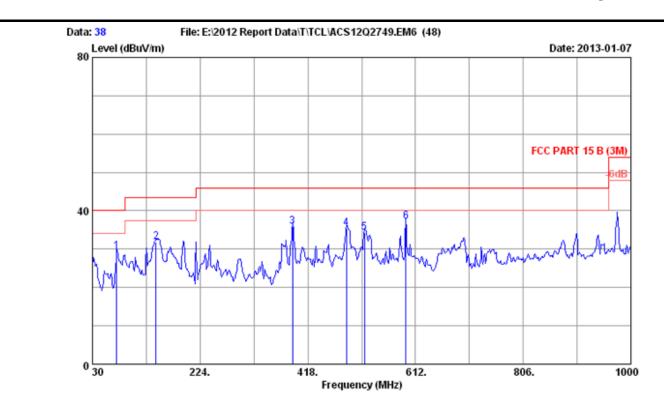
EUT : LCD TV M/N:LE39FHDE3000

Power rating : AC 120V/60Hz Test Mode : VGA:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	143.490	11.20	0.94	20.97	33.11	43.50	10.39	QP
2	216.000	9.73	1.09	25.30	36.12	43.50	7.38	QP
3	390.840	16.36	1.52	21.43	39.31	46.00	6.69	QP
4	454.860	17.87	1.71	15.56	35.14	46.00	10.86	QP
5	585.000	20.09	2.07	20.60	42.76	46.00	3.24	QP
6	593.700	20.29	2.11	19.90	42.30	46.00	3.70	QP





Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : VERTICAL

: FCC PART 15 B (3M)

Env. / Ins. : 24\*C/56%

Engineer : Even\_Deng : LCD TV M/N:LE39FHDE3000 EUT

Power rating : AC 120V/60Hz

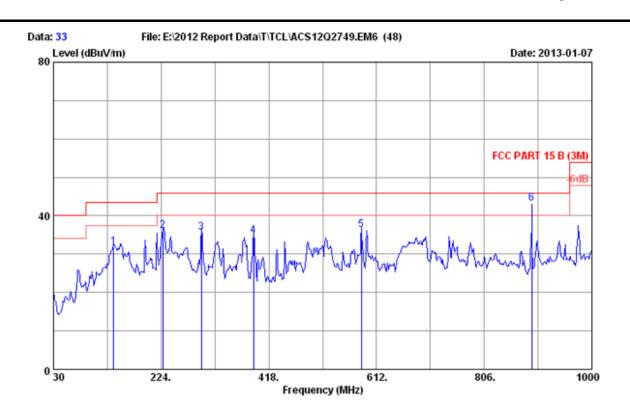
Test Mode : VGA:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	73.650	6.40	0.72	22.35	29.47	40.00	10.53	QP
2	144.460	11.17	0.94	19.68	31.79	43.50	11.71	QP
3	390.840	16.36	1.52	18.08	35.96	46.00	10.04	QP
4	487.840	18.47	1.79	15.14	35.40	46.00	10.60	QP
5	519.850	19.06	1.89	13.42	34.37	46.00	11.63	QP
6	594.540	20.32	2.11	14.68	37.11	46.00	8.89	QP

<sup>2.</sup> The emission levels that are 20dB below the official limit are not reported.





Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

Power rating : AC 120V/60Hz

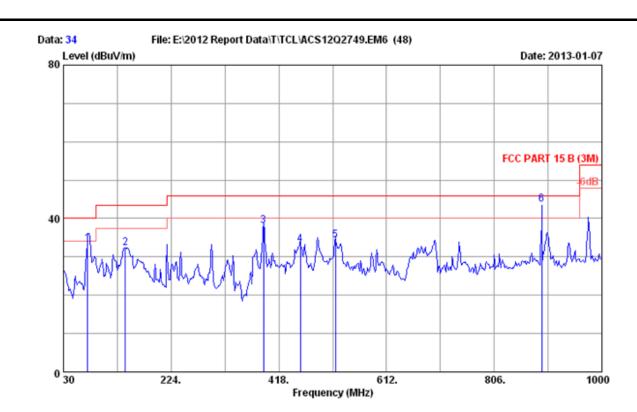
Test Mode : HDMI 1:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	138.640	11.32	0.93	19.51	31.76	43.50	11.74	QP
2	226.910	10.51	1.12	24.40	36.03	46.00	9.97	QP
3	296.750	13.75	1.27	20.65	35.67	46.00	10.33	QP
4	390.840	16.36	1.52	16.79	34.67	46.00	11.33	QP
5	584.840	20.09	2.07	14.07	36.23	46.00	9.77	QP
6	891.360	23.44	2.80	17.05	43.29	46.00	2.71	QP

The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 34
Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

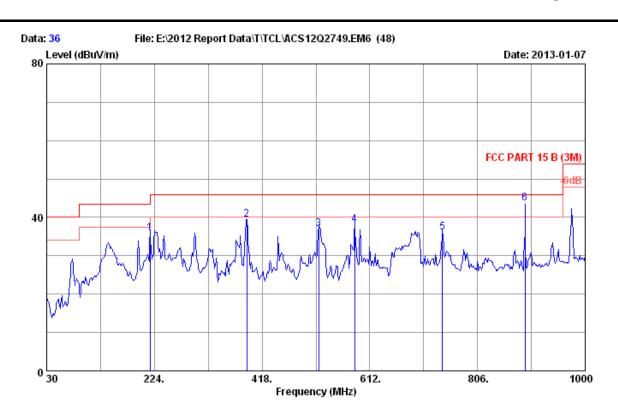
Power rating : AC 120V/60Hz

Test Mode : HDMI 1:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

No	. Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	73.650	6.40	0.72	26.31	33.43	40.00	6.57	QP
2	141.550	11.26	0.94	20.19	32.39	43.50	11.11	QP
3	390.840	16.36	1.52	20.13	38.01	46.00	7.99	QP
4	456.800	17.90	1.71	13.56	33.17	46.00	12.83	QP
5	519.850	19.06	1.89	13.38	34.33	46.00	11.67	QP
6	891.360	23.44	2.80	17.39	43.63	46.00	2.37	QP

The emission levels that are 20dB below the official limit are not reported.



Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

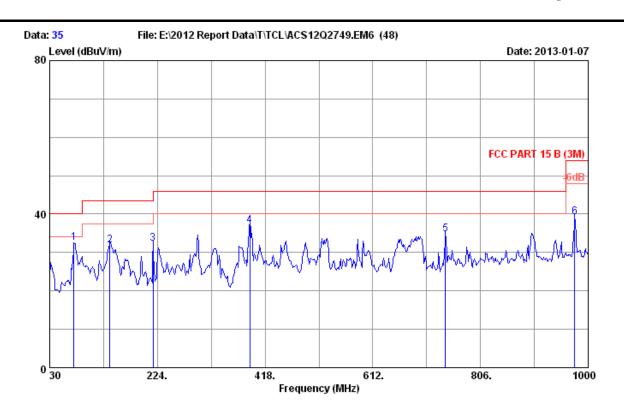
Power rating : AC 120V/60Hz

Test Mode : HDMI 2:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	216.240	9.75	1.11	24.99	35.85	46.00	10.15	QP
2	390.840	16.36	1.52	21.62	39.50	46.00	6.50	QP
3	519.850	19.06	1.89	16.08	37.03	46.00	8.97	QP
4	584.840	20.09	2.07	15.87	38.03	46.00	7.97	QP
5	742.950	22.11	2.54	11.36	36.01	46.00	9.99	QP
6	891.360	23.44	2.80	17.34	43.58	46.00	2.42	QP

<sup>2.</sup> The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 35
Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

Power rating : AC 120V/60Hz

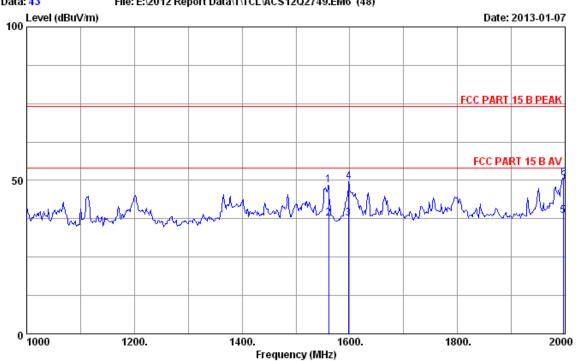
Test Mode : HDMI 2:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	73.650	6.40	0.72	25.48	32.60	40.00	7.40	QP
2	138.640	11.32	0.93	19.70	31.95	43.50	11.55	QP
3	216.240	9.75	1.11	21.36	32.22	46.00	13.78	QP
4	390.840	16.36	1.52	19.03	36.91	46.00	9.09	QP
5	742.950	22.11	2.54	10.04	34.69	46.00	11.31	QP
6	975.750	24.59	2.89	11.65	39.13	54.00	14.87	QP







Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : HORIZONTAL

Engineer : Even\_Deng

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56%

EUT : LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

Test Mode : VGA:1920\*1080@60Hz

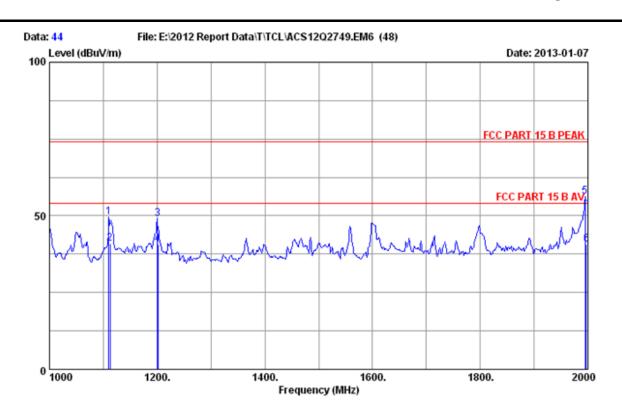
Running "H" Pattern And 1KHz Playing

		Ant.	Cable	AMP		Emission	ı		
No.	Freq.	Factor	Loss	factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1560.846	25.85	1.03	35.90	57.55	48.53	74.00	25.47	Peak
2	1561.000	25.85	1.03	35.90	46.56	37.54	54.00	16.46	Average
3	1597.216	25.98	1.04	35.84	46.33	37.51	54.00	16.49	Average
4	1598.216	25.98	1.04	35.84	58.41	49.59	74.00	24.41	Peak
5	1996.545	27.50	1.13	35.40	45.22	38.45	54.00	15.55	Average
6	1997.216	27.50	1.13	35.40	57.46	50.69	74.00	23.31	Peak

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

-Amp Factor





Site no. : 3m Chamber Data no. : 44
Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

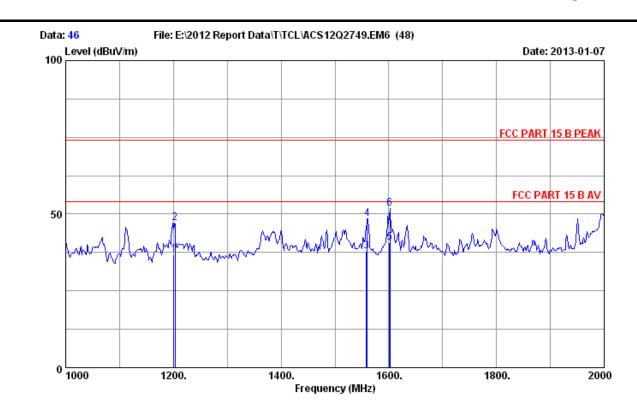
Test Mode : VGA:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1110.158	23.70	0.96	36.39	61.23	49.50	74.00	24.50	Peak
2	1112.545	23.78	0.97	36.36	52.54	40.93	54.00	13.07	Average
3	1200.753	24.19	0.98	36.28	60.13	49.02	74.00	24.98	Peak
4	1201.215	24.19	0.98	36.28	51.85	40.74	54.00	13.26	Average
5	1995.215	27.50	1.13	35.40	62.94	56.17	74.00	17.83	Peak
6	1996.845	27.50	1.13	35.40	47.51	40.74	54.00	13.26	Average

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





Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

Power Rating : AC 120V/60Hz

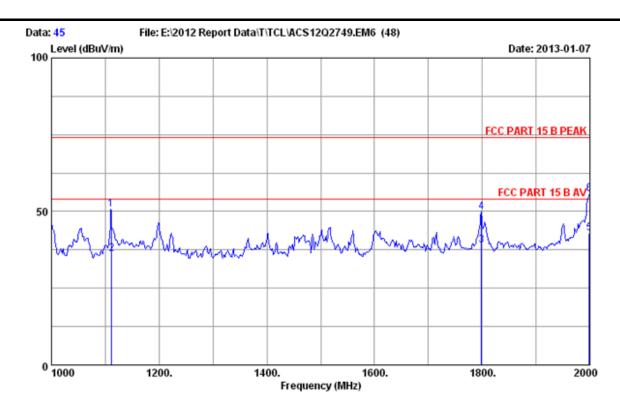
Test Mode : HDMI 1:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

		Ant.	Cable	AMP		Emission	ı		
No.	Freq.	Factor	Loss	factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1200.840	24.19	0.98	36.28	47.85	36.74	54.00	17.26	Average
2	1202.840	24.19	0.98	36.28	58.17	47.06	74.00	26.94	Peak
3	1558.516	25.85	1.03	35.90	46.86	37.84	54.00	16.16	Average
4	1560.240	25.85	1.03	35.90	57.52	48.50	74.00	25.50	Peak
5	1601.215	25.98	1.04	35.84	49.55	40.73	54.00	13.27	Average
6	1602.242	25.98	1.04	35.84	60.67	51.85	74.00	22.15	Peak

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





Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

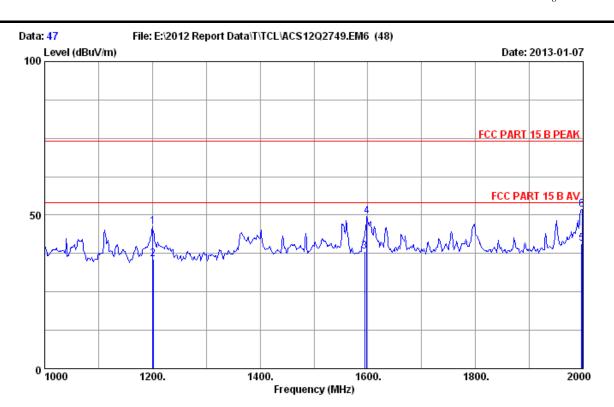
Power Rating : AC 120V/60Hz

Test Mode : HDMI 1:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	1110.941	23.78	0.97	36.39	62.42	50.78	74.00	23.22	Peak
2	1111.354	23.78	0.97	36.39	47.94	36.30	54.00	17.70	Average
3	1798.215	26.74	1.09	35.62	46.84	39.05	54.00	14.95	Average
4	1798.248	26.74	1.09	35.62	57.64	49.85	74.00	24.15	Peak
5	1998.560	27.50	1.13	35.40	49.55	42.78	54.00	11.22	Average
6	2000.000	27.50	1.13	35.40	62.36	55.59	74.00	18.41	Peak

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



Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Even\_Deng

EUT : LCD TV M/N:LE39FHDE3000

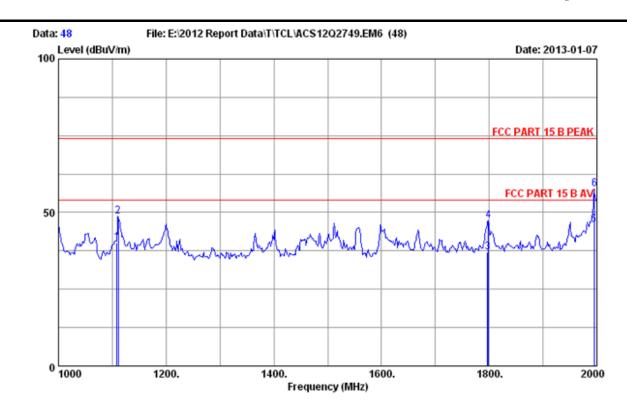
Power Rating : AC 120V/60Hz

Test Mode : HDMI 2:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

		Ant.	Cable	AMP		Emission	ı		
No.	Freq.	Factor	Loss	factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1200.845	24.19	0.98	36.28	57.28	46.17	74.00	27.83	Peak
2	1201.545	24.19	0.98	36.28	46.85	35.74	54.00	18.26	Average
3	1594.546	25.98	1.04	35.84	46.85	38.03	54.00	15.97	Average
4	1598.245	25.98	1.04	35.84	58.40	49.58	74.00	24.42	Peak
5	1996.845	27.50	1.13	35.40	47.55	40.78	54.00	13.22	Average
6	1998.215	27.50	1.13	35.40	58.71	51.94	74.00	22.06	Peak

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



Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 2011 3115 9607-4877 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Even Deng

EUT : LCD TV M/N:LE39FHDE3000

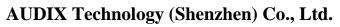
Power Rating : AC 120V/60Hz

Test Mode : HDMI 2:1920\*1080@60Hz

Running "H" Pattern And 1KHz Playing

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	1108.546	23.70	0.96	36.39	51.83	40.10	54.00	13.90	Average
2	1110.540	23.78	0.97	36.39	60.44	48.80	74.00	25.20	Peak
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3	1796.846	26.74	1.09	35.62	44.81	37.02	54.00	16.98	Average
4	1798.212	26.74	1.09	35.62	55.28	47.49	74.00	26.51	Peak
5	1994.840	27.50	1.13	35.40	52.83	46.06	54.00	7.94	Average
6	1995.240	27.50	1.13	35.40	64.54	57.77	74.00	16.23	Peak

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





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5. DEVIATION TO TEST SPECIFICATIONS [NONE]