APPLICATION OF CERTIFICATION For

TTE Technology Inc.

LCD TV

Brand Name	Model Number
TCL	L40FHDF11TA

FCC ID: W8UL40FHDF11TA

Prepared for: TTE Technology Inc.

5541 W. 74th St, Indianapolis, IN 46268, U.S.A.

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

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

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Report Number : ACS-F10115

Date of Test : May.11~27, 2010

Date of Report : May.31, 2010

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TEST REPORT CERTIFICATION

Applicant

TTE Technology Inc.

Manufacturer

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

EUT Description

LCD TV

FCC ID

W8UL40FHDF11TA

(A) MODEL NO.& Brand

Brand Name Model Number
TCL L40FHDF11TA

(B) SERIAL NO.

Name

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 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.

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

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:

May.11~27, 2010

Prepared by:

Edie Huang / Assistant

Edie Huang / Assistan

Reviewer:

Richzhy Zhong / Assistant Manager

AUDIX ®信筆科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.

EMC部門報告專用章

Stamp only for EMC Dept. Report

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	Standard	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

Brana rame	Wodel Walliet
TCL	L40FHDF11TA

FCC ID : W8UL40FHDF11TA

Frequencies used: and generated within device

X54M1	45-OSC54M-0Y1CR	54000000Hz
LVDS CLOCK	80MHz	
IF	45.75MHz	
DC-DC	U302->385KHz	U303->1MHz
DDR	440MHz	
AMP IIS	384KHz	

Model Number

Applicant : TTE Technology Inc.

5541 W. 74th St, Indianapolis, IN 46268, 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.

Power Cord : Unshielded, Undetachable, 1.5m

Date of Test : May.11~27, 2010

Date of Receipt : Apr.27, 2010

Sample Type : Prototype production

2.2.Tested Supporting System Details

2.2.1.PERSONAL COMPUTER

EMC CODE : Test PC N

M/N : Studio 540

S/N : J14XK2X

Manufacturer : DELL

Power cord : Unshielded, Detachabled, 1.8m

FCC ID : By DoC BSMI ID : R33002 Display Card : HD3650

(Display port+DVI+HDMI)

2.2.2.PRINTER

EMC CODE : ACS-EMC-PT04

M/N : C9079A

Manufacturer : HP

USB Cable : Shielded, Detachabled, 1.8m

Power Cord : Unshielded, Detachabled, 1.8m

FCC ID : By DoC BSMI ID : R33001

Power Adaptor : Manufacturer: HP

M/N: 0957-2119 BSMI ID: R33030

DC Cable: Unshielded, Detachabled, 1.5m

2.2.3.USB KEYBOARD

EMC CODE : ACS-EMC-K04R

M/N : SK-8115

S/N : CN-ODJ313-71616-6BB-049J

Manufacturer : DELL

Data Cable : Shielded, Undetachabled, 2.0m

FCC ID : By DoC BSMI ID : T3A002

2.2.4.USB MOUSE

EMC CODE : ACS-EMC-M05R

M/N : M028UOL S/N : 44N1421 Manufacturer : Lenovo

Data Cable : Shielded, Undetachabled, 1.8m

FCC ID : By DoC BSMI ID : R41108

2.2.5.HDD

EMC CODE : ACS-EMC-HDD04

M/N: F12-UF

S/N : A0100215-5390002

Manufacturer : Terasys

Data Cable : Shielded, Detachabled, 1.8m

FCC ID : By DoC BSMI ID : 4912A022

2.2.6.Headphone

EMC CODE : ACS-EMC-EP03

M/N : OV880V Manufacturer : OVANN

Data Cable : Shielded, Undetachabled, 4.0m

2.2.7. Cables

Audio Cable
Shielded, Detachable, 1.7m
HDMI Cable
Shielded, Detachable, 1.4m
VGA Cable
Shielded, Detachable, 1.4m

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 : Dec.30, 2009 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, 2010

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

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.40dB
in No. 1 Conduction	2. 10dB
Uncertainty for Radiation Emission test	3.82 dB (Polarize: V)
in 3m chamber	4.32 dB (Polarize: H)
Uncertainty for test site temperature and	0.6℃
humidity	3%

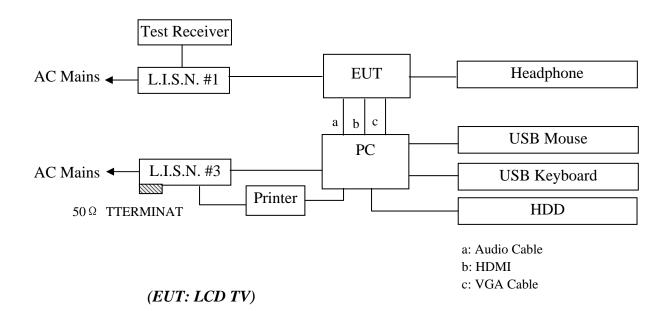
3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	May.08, 10	1 Year
2	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Mar.30, 10	1 Year
3	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 10	1 Year
4	Terminator	Hubersuhner	50Ω	No. 1	May.08, 10	1 Year
5	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 10	1Year
6	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 10	1 Year
7	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 10	1 Year

3.2.Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage				
Frequency	Quasi-Peak Level	Average Level			
	dB(µV)	$dB(\mu V)$			
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 : L40FHDF11TA

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 1kHz Playing 640*480 60Hz/ Running "H" Pattern and 1kHz Playing 800*600 60Hz / Running "H" Pattern and 1kHz Playing 1024*768 60Hz / HDMI 1080P), use white letters on a black background, set the contrast control to maximum, set the brightness control to maximum 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. 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 C63.4-2003 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS20) 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 were tested and selected (mode 3 & 4) to read Q.P values and Average values, all the test results are listed in next pages.

EUT: LCD TV Model No. : L40FHDF11TA

Test Date: May.12, 2010 Temperature: 23℃ Humidity: 54%

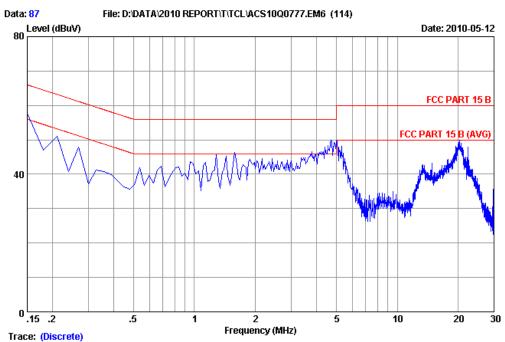
The details of test modes are as follows:

NO.	Resolution & Frequency	Reference Test Data No.		
NO.	Resolution & Frequency	VA	VB	
1.	VGA 640*480 60Hz	#87	#88	
2.	VGA 800*600 60Hz	#86	#85	
3. 💥	VGA 1024*768 60Hz	#83	#84	
4.	HDMI1 1080P	#78	#77	
5.	HDMI2 1080P	#79	#80	
6.	HDMI3 1080P	#82	#81	

(* Worst test mode)



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Site no : Audix No.1 Conduction Data no :8

Dis./Ant. :** 2009 ESH2-Z5 LINE

Limit :FCC PART 15 B

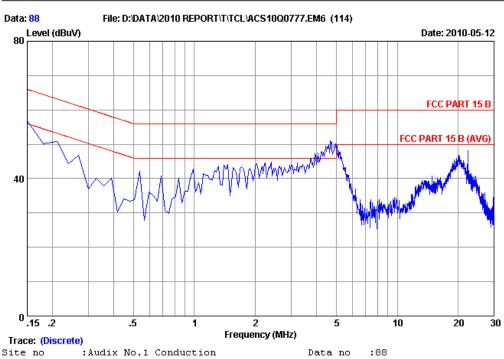
Env./Ins. :Temp:23'C Humi:54% Engineer :Frank-Li

EUT :LCD TV M/N:L40FHDF11TA

Power Rating :AC 120V/60Hz

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

VGA:640*480@60Hz



Dis./Ant. :** 2009 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :Temp:23'C Humi:54% Engineer :Frank-Li

EUT :LCD TV M/N:L40FHDF11TA

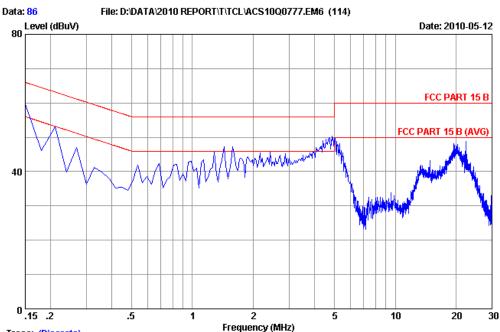
Power Rating : AC 120V/60Hz

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

VGA:640*480@60Hz



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Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :86

Dis./Ant. :** 2009 ESH2-Z5 LINE

:FCC PART 15 B Limit

Engineer :Frank-Li Env./Ins. :Temp:23'C Humi:54%

EUT :LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

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

VGA:800*600@60Hz

File: D:\DATA\2010 REPORT\T\TCL\ACS10Q0777.EM6 (114) Data: 85 80 Level (dBuV) Date: 2010-05-12 FCC PART 15 B FCC PART 15 B (AVG) 40 0 .15 .2 .5 2 5 10 20 30 Frequency (MHz) Trace: (Discrete) Site no :Audix No.1 Conduction Data no :85 Dis./Ant. :** 2009 ESH2-Z5 NEUTRAL

:FCC PART 15 B Limit

:Temp:23'C Humi:54% Engineer :Frank-Li Env./Ins.

EUT :LCD TV M/N:L40FHDF11TA

Power Rating :AC 120V/60Hz

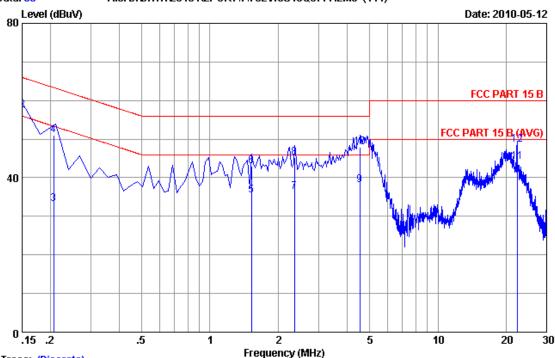
:Running "H" Pattern And 1kHz Playing Test Mode

VGA:800*600@60Hz



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Trace: (Discrete)

Site no :83 :Audix No.1 Conduction Data no

Dis./Ant. :** 2009 ESH2-Z5 LINE

:FCC PART 15 B Limit

:Temp:23'C Humi:54% Engineer :Frank-Li Env./Ins.

:LCD TV M/N:L40FHDF11TA

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)	Emissior Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15001	0.21	9.88	36.10	46.19	56.00	9.81	Average
2	0.15001	0.21	9.88	47.50	57.59	66.00	8.41	QP
3	0.20600	0.18	9.88	23.20	33.26	53.37	20.11	Average
4	0.20600	0.18	9.88	40.90	50.96	63.37	12.41	QP
5	1.522	0.21	9.89	25.30	35.40	46.00	10.60	Average
6	1.522	0.21	9.89	32.90	43.00	56.00	13.00	QP
7	2.350	0.22	9.90	26.10	36.22	46.00	9.78	Average
8	2.350	0.22	9.90	35.20	45.32	56.00	10.68	QP
9	4.537	0.29	9.91	28.00	38.20	46.00	7.80	Average
10	4.537	0.29	9.91	37.70	47.90	56.00	8.10	QP
11	22.319	0.63	10.03	33.51	44.17	50.00	5.83	Average
12	22.319	0.63	10.03	38.01	48.67	60.00	11.33	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+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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2

Frequency (MHz)

0.15 .2

Trace: (Discrete)

Site no : Audix No.1 Conduction Data no :84

Dis./Ant. :** 2009 ESH2-Z5 NEUTRAL

.5

Limit :FCC PART 15 B

Env./Ins. :Temp:23'C Humi:54% Engineer :Frank-Li

EUT :LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

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

VGA:1024*768@60Hz

		LISN	Cable		Emission	n		
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.15001	0.20	9.88	35.40	45.48	56.00	10.52	Average
2	0.15001	0.20	9.88	46.20	56.28	66.00	9.72	QP
3	0.20500	0.20	9.88	26.00	36.08	53.41	17.33	Average
4	0.20500	0.20	9.88	38.90	48.98	63.41	14.43	QP
5	2.090	0.21	9.90	23.60	33.71	46.00	12.29	Average
6	2.090	0.21	9.90	33.00	43.11	56.00	12.89	QP
7	2.890	0.23	9.91	24.80	34.94	46.00	11.06	Average
8	2.890	0.23	9.91	34.40	44.54	56.00	11.46	QP
9	4.717	0.28	9.91	28.10	38.29	46.00	7.71	Average
10	4.717	0.28	9.91	37.90	48.09	56.00	7.91	QP
11	22.321	0.39	10.03	33.00	43.42	50.00	6.58	Average
12	22.321	0.39	10.03	37.20	47.62	60.00	12.38	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+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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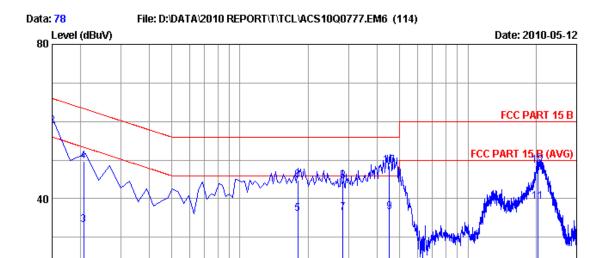
Engineer :Frank-Li



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5



2

Frequency (MHz)

Trace: (Discrete)

0 .15 .2

Site no : Audix No.1 Conduction Data no

Dis./Ant. :** 2009 ESH2-Z5 LINE

.5

Limit :FCC PART 15 B

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

EUT :LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

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

HDMI 1:1080P

	LISN	Cable		Emission	n		
Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
0.15001	0.21	9.88	39.40	49.49	56.00	6.51	Average
0.15001	0.21	9.88	48.70	58.79	66.00	7.21	QP
0.20600	0.18	9.88	23.10	33.16	53.37	20.21	Average
0.20600	0.18	9.88	39.70	49.76	63.37	13.61	QP
1.791	0.21	9.89	26.00	36.10	46.00	9.90	Average
1.791	0.21	9.89	34.70	44.80	56.00	11.20	QP
2.835	0.23	9.91	26.10	36.24	46.00	9.76	Average
2.835	0.23	9.91	34.40	44.54	56.00	11.46	QP
4.531	0.29	9.91	26.40	36.60	46.00	9.40	Average
4.531	0.29	9.91	38.30	48.50	56.00	7.50	QP
20.268	0.60	10.01	28.61	39.22	50.00	10.78	Average
20.268	0.60	10.01	37.91	48.52	60.00	11.48	QP
	(MHz) 0.15001 0.15001 0.20600 1.791 1.791 2.835 2.835 4.531 4.531 20.268	Freq Factor (MHz) (dB) 0.15001 0.21 0.15001 0.21 0.20600 0.18 0.20600 0.18 1.791 0.21 1.791 0.21 2.835 0.23 2.835 0.23 4.531 0.29 4.531 0.29 20.268 0.60	Freq Factor Loss (MHz) (dB) (dB) 0.15001 0.21 9.88 0.15001 0.21 9.88 0.20600 0.18 9.88 0.20600 0.18 9.88 1.791 0.21 9.89 1.791 0.21 9.89 2.835 0.23 9.91 2.835 0.23 9.91 4.531 0.29 9.91 4.531 0.29 9.91 20.268 0.60 10.01	Freq Factor Loss Reading (MHz) (dB) (dB) (dBuV) 0.15001 0.21 9.88 39.40 0.15001 0.21 9.88 48.70 0.20600 0.18 9.88 23.10 0.20600 0.18 9.88 39.70 1.791 0.21 9.89 26.00 1.791 0.21 9.89 34.70 2.835 0.23 9.91 26.10 2.835 0.23 9.91 34.40 4.531 0.29 9.91 38.30 20.268 0.60 10.01 28.61	Freq Factor Loss Reading Level (MHz) (dB) (dB) (dBuV) (dBuV) 0.15001 0.21 9.88 39.40 49.49 0.15001 0.21 9.88 48.70 58.79 0.20600 0.18 9.88 23.10 33.16 0.20600 0.18 9.88 39.70 49.76 1.791 0.21 9.89 26.00 36.10 1.791 0.21 9.89 34.70 44.80 2.835 0.23 9.91 26.10 36.24 2.835 0.23 9.91 34.40 44.54 4.531 0.29 9.91 38.30 48.50 20.268 0.60 10.01 28.61 39.22	Freq Factor Loss Reading Level Limits (MHz) (dB) (dB) (dBuV) (dBuV) (dBuV) 0.15001 0.21 9.88 39.40 49.49 56.00 0.15001 0.21 9.88 48.70 58.79 66.00 0.20600 0.18 9.88 23.10 33.16 53.37 0.20600 0.18 9.88 39.70 49.76 63.37 1.791 0.21 9.89 26.00 36.10 46.00 1.791 0.21 9.89 34.70 44.80 56.00 2.835 0.23 9.91 26.10 36.24 46.00 2.835 0.23 9.91 26.10 36.24 46.00 4.531 0.29 9.91 26.40 36.60 46.00 4.531 0.29 9.91 38.30 48.50 56.00 20.268 0.60 10.01 28.61 39.22 50.00	Freq (MHz) Factor (dB) Loss (dB) Reading (dBuV) Level (dBuV) Limits (dBuV) Margin (dBuV) 0.15001 0.21 9.88 39.40 49.49 56.00 6.51 0.15001 0.21 9.88 48.70 58.79 66.00 7.21 0.20600 0.18 9.88 23.10 33.16 53.37 20.21 0.20600 0.18 9.88 39.70 49.76 63.37 13.61 1.791 0.21 9.89 26.00 36.10 46.00 9.90 1.791 0.21 9.89 34.70 44.80 56.00 11.20 2.835 0.23 9.91 26.10 36.24 46.00 9.76 2.835 0.23 9.91 34.40 44.54 56.00 11.46 4.531 0.29 9.91 26.40 36.60 46.00 9.40 4.531 0.29 9.91 38.30 48.50 56.00 7.50 20.268

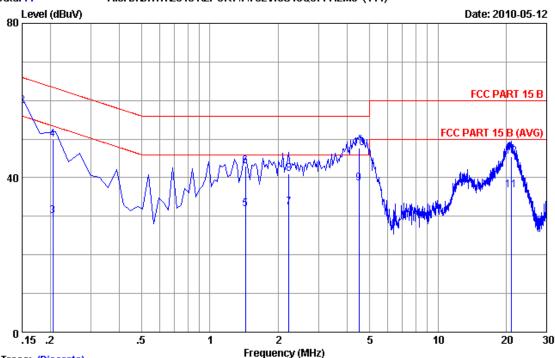
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.

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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Trace: (Discrete)

Site no :Audix No.1 Conduction :77 Data no

Dis./Ant. :** 2009 ESH2-Z5 NEUTRAL

:FCC PART 15 B Limit

Engineer :Frank-Li :Temp:23'C Humi:54% Env./Ins.

:LCD TV M/N:L40FHDF11TA

Power Rating :AC 120V/60Hz

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

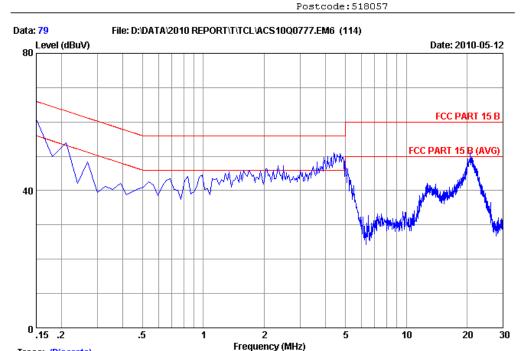
HDMI 1:1080P

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15001	0.20	9.88	39.00	49.08	56.00	6.92	Average
2	0.15001	0.20	9.88	48.50	58.58	66.00	7.42	QP
3	0.20500	0.20	9.88	20.00	30.08	53.41	23.33	Average
4	0.20500	0.20	9.88	39.80	49.88	63.41	13.53	QP
5	1.433	0.20	9.89	21.80	31.89	46.00	14.11	Average
6	1.433	0.20	9.89	33.00	43.09	56.00	12.91	QP
7	2.220	0.21	9.90	22.30	32.41	46.00	13.59	Average
8	2.220	0.21	9.90	31.00	41.11	56.00	14.89	QP
9	4.509	0.28	9.91	28.30	38.49	46.00	7.51	Average
10	4.509	0.28	9.91	37.50	47.69	56.00	8.31	QP
11	20.955	0.41	10.02	26.40	36.83	50.00	13.17	Average
12	20.955	0.41	10.02	35.10	45.53	60.00	14.47	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+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.





Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :79

Dis./Ant. :** 2009 ESH2-Z5 LINE

Limit :FCC PART 15 B

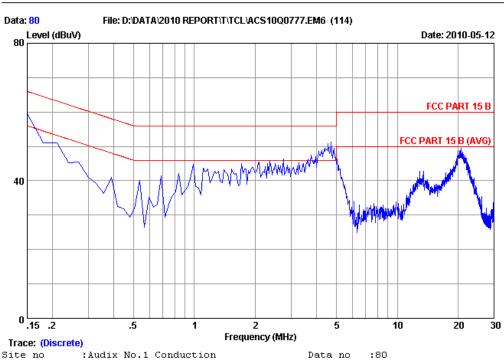
Env./Ins. :Temp:23'C Humi:54% Engineer :Frank-Li

EUT :LCD TV M/N:L40FHDF11TA

Power Rating :AC 120V/60Hz

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

HDMI 2:1080P



Dis./Ant. :** 2009 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :Temp:23'C Humi:54% Engineer :Frank-Li

EUT :LCD TV M/N:L40FHDF11TA

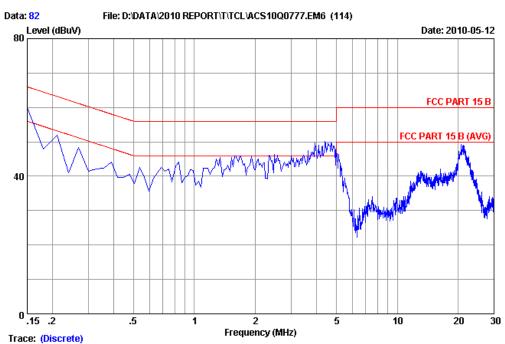
Power Rating :AC 120V/60Hz

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

HDMI 2:1080P



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Site no : Audix No.1 Conduction Data no

Dis./Ant. :** 2009 ESH2-Z5 LINE

Limit :FCC PART 15 B

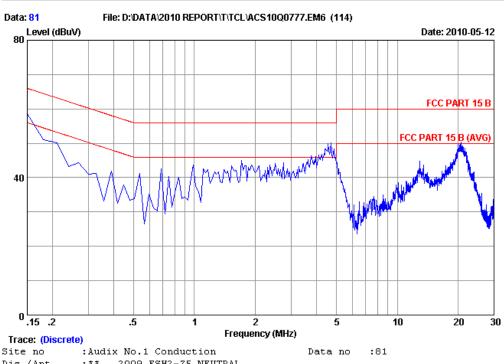
Env./Ins. :Temp:23'C Humi:54% Engineer :Frank-Li

:LCD TV M/N:L40FHDF11TA EUT

Power Rating :AC 120V/60Hz

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

HDMI 3:1080P



:** 2009 ESH2-Z5 NEUTRAL Dis./Ant.

:FCC PART 15 B Limit

Env./Ins. :Temp:23'C Humi:54% Engineer :Frank-Li

EUT :LCD TV M/N:L40FHDF11TA

Power Rating :AC 120V/60Hz

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

HDMI 3:1080P

4. RADIATED EMISSION TEST

4.1.Test Equipment

4.1.1.For frequency range 30MHz~1000MHz

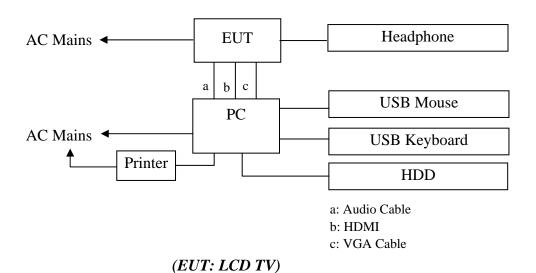
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05,09	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 10	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 10	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 10	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.14, 09	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 10	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 10	1 Year

4.1.2.For frequency range 1GHz~6GHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E7405A	MY45116588	May.08, 10	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 10	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 10	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	May.08, 10	1 Year

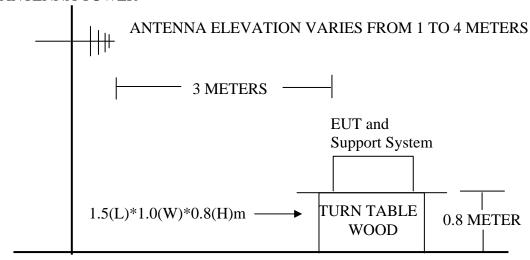
4.2.Block Diagram of Test Setup

4.2.1. Block diagram of connection between the EUT and simulators



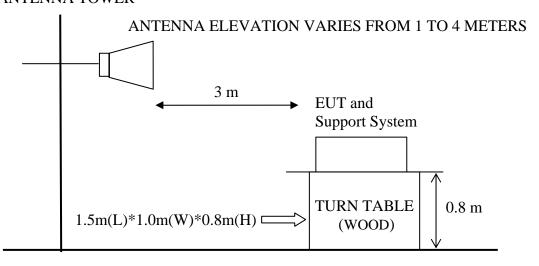
4.2.2. In Anechoic Chamber

ANTENNA TOWER



GROUND PLANE

4.2.3.In Anechoic (3m) Chamber Test Setup Diagram for 1-6GHz ANTENNA TOWER



GROUND PLANE

4.3. Radiated Emission Limit

Frequency	Distance	Field Strengths Limits
MHz	(Meters)	$dB(\mu V)/m$
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
Above 6000	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 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 : L40FHDF11TA

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 worked in test mode (Running "H" Pattern and 1kHz Playing 640*480 60Hz/ Running "H" Pattern and 1kHz Playing 800*600 60Hz / Running "H" Pattern and 1kHz Playing 1024*768 60Hz / HDMI 1080P), use white letters on a black background, set the contrast control to maximum, set the brightness control to maximum and measure 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 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.

The frequency range from 30MHz to 6000MHz is checked. The test result are reported on Section 4.7.

4.7. Radiated Disturbance 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 (mode $3 \sim 6$) to read Q.P values, all the test results are listed in next pages.

EUT: LCD TV Model No. : L40FHDF11TA

Test Date: May.11, 2010 Temperature: 24°C Humidity: 56%

The details of test modes are as follows:

NO.	Desclution & Evaguanay	Reference Test Data No.			
NO.	Resolution & Frequency	Horizontal	Vertical		
1.	VGA 640*480 60Hz	#142	#141		
2.	VGA 800*600 60Hz	#144	#143		
3. ※	VGA 1024*768 60Hz	#146	#145		
4.	HDMI1 1080P	#136	#135		
5.	HDMI2 1080P	#138	#137		
6.	HDMI3 1080P	#140	#139		

^{(*} Worst test mode)

For frequency range 1GHz~6GHz

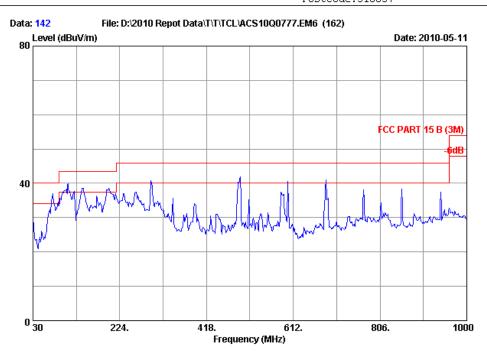
The EUT with below test modes 1~4 were measured within Anechoic Chamber and the test results listed in next pages

Test Date: May.27, 2010 Temperature: 24°C Humidity: 56%

NO.	Resolution & Frequency	Reference Test Data No.				
NO.	Resolution & Frequency	Horizontal Vertical 8 60Hz #147, #148 #149, #150 80P #153, #154 #151, #152 80P #155, #156 #157, #158	Vertical			
1.	VGA 1024*768 60Hz	#147, #148	#149, #150			
2.	HDMI1 1080P	#153, #154	#151, #152			
3.	HDMI2 1080P	#155, #156	#157, #158			
4.	HDMI3 1080P	#161, #162	#159, #160			



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Site no. : 3m Chamber Data no. : 142

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

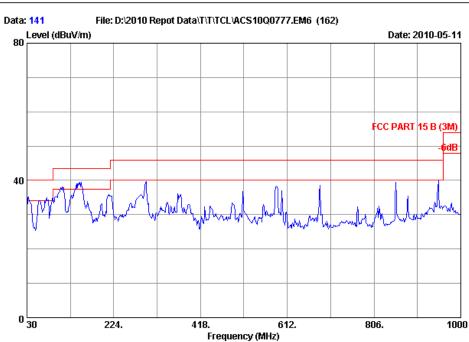
Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

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

VGA:640*480@60Hz



Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : Jolly Xu

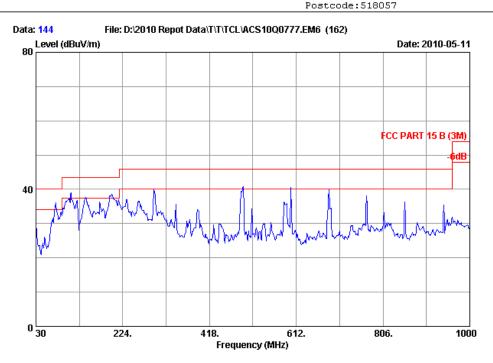
EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

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

VGA:640*480@60Hz





Limit : FCC PART 15 B (3M)

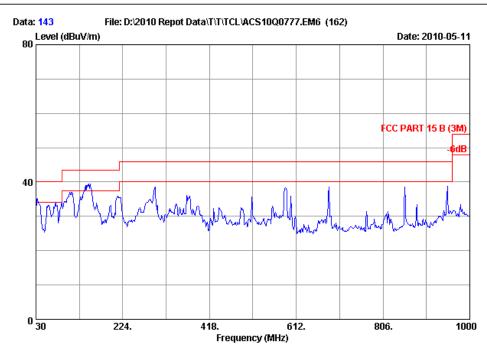
Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

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

VGA:800*600@60Hz



EUV. / Ins. : 24*0/30% Engineer : 0011y_x
EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

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

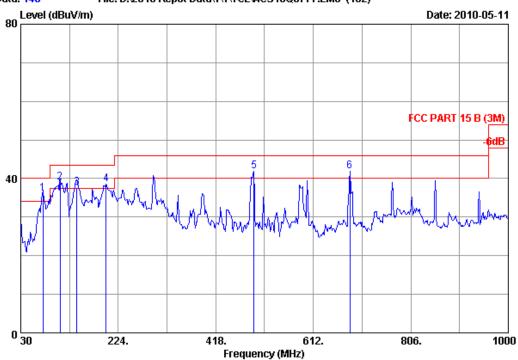
VGA:800*600@60Hz



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Site no. : 3m Chamber Data no. : 146

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

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

VGA: 1024*768@60Hz

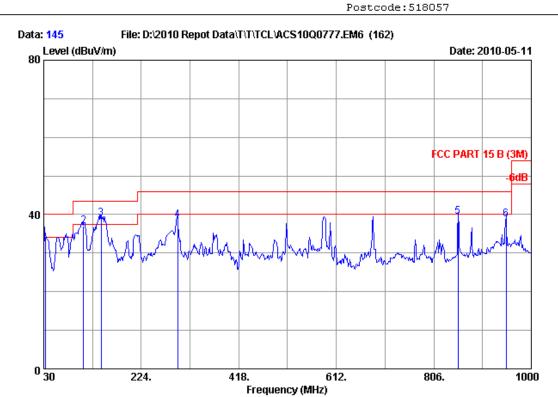
No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	73.650	7.16	0.78	28.08	36.02	40.00	3.98	QP	
2	108.570	11.30	0.93	26.69	38.92	43.50	4.58	QP	
3	141.550	11.97	1.06	24.56	37.59	43.50	5.91	QP	
4	199.750	10.00	1.30	27.34	38.64	43.50	4.86	QP	
5	493.660	18.24	2.23	21.32	41.79	46.00	4.21	QP	
6	684.750	20.75	2.75	18.40	41.90	46.00	4.10	QP	

- Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 - The emission levels that are 20dB below the official limit are not reported.
 - 3. The worst emission was detected at 73.650MHz with corrected signal level of 36.02dB μ V/m (Limit is 40.00dB 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. : 145
Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

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

VGA: 1024*768@60Hz

 No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)		Limits (dBuV/m)	Margin (dB)	Remark	
1	32.910	18.32	0.54	15.32	34.18	40.00	5.82	QP	
2	109.540	11.40	0.94	24.76	37.10	43.50	6.40	QP	
3	144.460	11.92	1.07	26.00	38.99	43.50	4.51	QP	
4	296.750	13.70	1.72	23.18	38.60	46.00	7.40	QP	
5	854.500	22.75	3.12	13.63	39.50	46.00	6.50	QP	
6	949.560	24.10	3.35	11.35	38.80	46.00	7.20	QP	

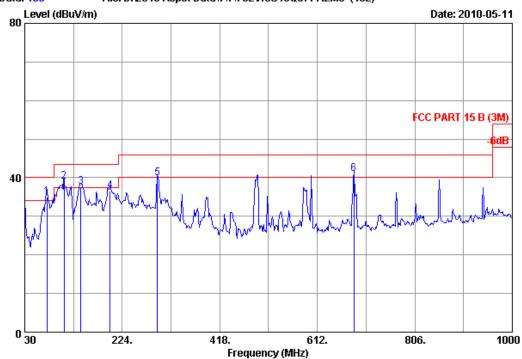
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

- The emission levels that are 20dB below the official limit are not reported.
- 3. The worst emission was detected at 144.460MHz with corrected signal level of 38.99dB 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. : 136

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

Test Mode : HDMI1 1080P

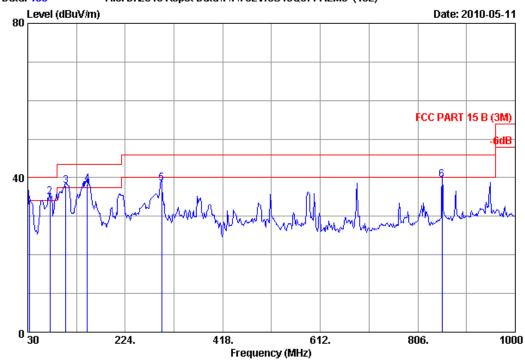
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	73.650	7.16	0.78	27.08	35.02	40.00	4.98	QP	
2	108.570	11.30	0.93	26.69	38.92	43.50	4.58	QP	
3	141.550	11.97	1.06	24.56	37.59	43.50	5.91	QP	
4	199.750	10.00	1.30	25.34	36.64	43.50	6.86	QP	
5	293.840	13.68	1.72	24.48	39.88	46.00	6.12	QP	
6	684.750	20.75	2.75	17.40	40.90	46.00	5.10	QP	

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



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Site no. : 3m Chamber Data no. : 135

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

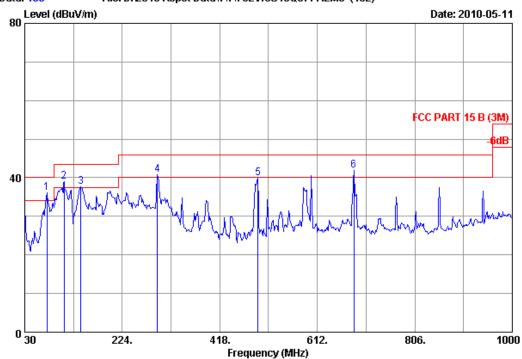
Test Mode : HDMI1 1080P

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



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Site no. : 3m Chamber Data no. : 138

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

Test Mode : HDMI2 1080P

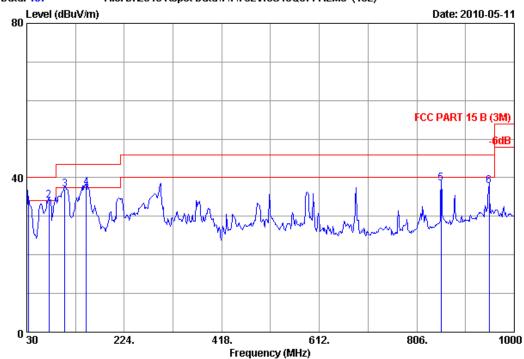
	No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
:	1	73.650	7.16	0.78	27.08	35.02	40.00	4.98	QP	
2	2	108.570	11.30	0.93	26.69	38.92	43.50	4.58	QP	
;	3	141.550	11.97	1.06	24.56	37.59	43.50	5.91	QP	
	4	293.840	13.68	1.72	25.48	40.88	46.00	5.12	QP	
į	5	493.660	18.24	2.23	19.32	39.79	46.00	6.21	QP	
	6	684.750	20.75	2.75	18.40	41.90	46.00	4.10	QP	

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



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Site no. : 3m Chamber Data no. : 137

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

Test Mode : HDMI2 1080P

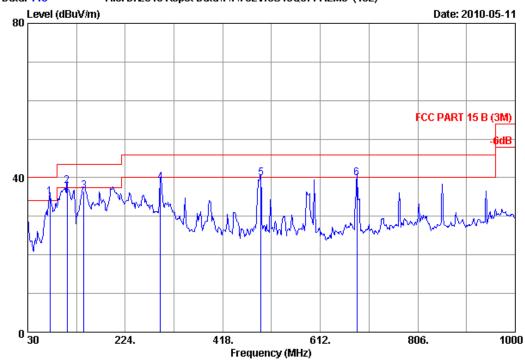
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	32.910	18.32	0.54	15.32	34.18	40.00	5.82	QP	
2	73.650	7.16	0.78	26.08	34.02	40.00	5.98	QP	
3	105.660	11.00	0.92	24.96	36.88	43.50	6.62	QP	
4	148.340	11.72	1.08	24.60	37.40	43.50	6.10	QP	
5	854.500	22.75	3.12	12.63	38.50	46.00	7.50	QP	
6	949.560	24.10	3.35	10.35	37.80	46.00	8.20	QP	

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



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Site no. : 3m Chamber Data no. : 140

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

Test Mode : HDMI3 1080P

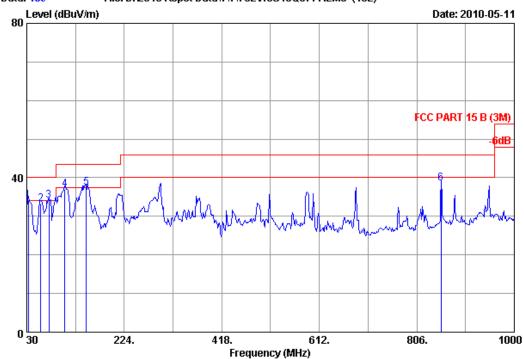
No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)		Limits (dBuV/m)	Margin (dB)	Remark	
1	73.650	7.16	0.78	27.08	35.02	40.00	4.98	QP	
2	108.570	11.30	0.93	25.69	37.92	43.50	5.58	QP	
3	141.550	11.97	1.06	23.56	36.59	43.50	6.91	QP	
4	293.840	13.68	1.72	23.48	38.88	46.00	7.12	QP	
5	493.660	18.24	2.23	19.32	39.79	46.00	6.21	QP	
6	684.750	20.75	2.75	16.40	39.90	46.00	6.10	QP	

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



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Site no. : 3m Chamber Data no. : 139

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : VERTICAL

: FCC PART 15 B (3M) Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

M/N:L40FHDF11TA : LCD TV

Power Rating : AC 120V/60Hz

Test Mode : HDMI3

1080P

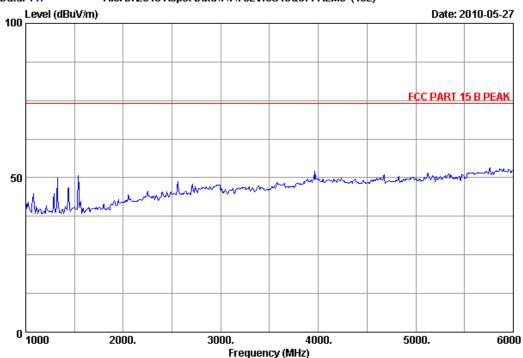
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark	
1	32.910	18.32	0.54	15.32	34.18	40.00	5.82	QP	
2	58.130	6.44	0.70	26.02	33.16	40.00	6.84	QP	
3	73.650	7.16	0.78	26.08	34.02	40.00	5.98	QP	
4	105.660	11.00	0.92	24.96	36.88	43.50	6.62	QP	
5	148.340	11.72	1.08	24.60	37.40	43.50	6.10	QP	
6	854.500	22.75	3.12	12.63	38.50	46.00	7.50	QP	

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



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Site no. : 3m Chamber

Data no. : 147 Ant. pol. : HORIZONTAL Site no. : 3m Chamber
Dis. / Ant. : 3m 2009 3115

: FCC PART 15 B PEAK Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

: LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

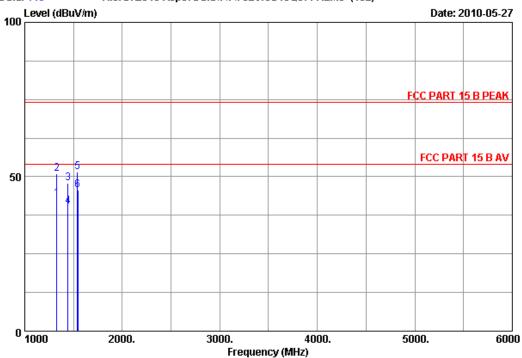
Test Mode : Running ''H'' Pattern And 1kHz Playing

VGA:1024*768@60Hz



Postcode:518057





Site no. : 3m Chamber

Data no. : 148 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 2009 3115

: FCC PART 15 B PEAK Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

M/N:L40FHDF11TA : LCD TV

Power Rating : AC 120V/60Hz

Test Mode : Running ''H'' Pattern And 1kHz Playing

VGA:1024*768@60Hz

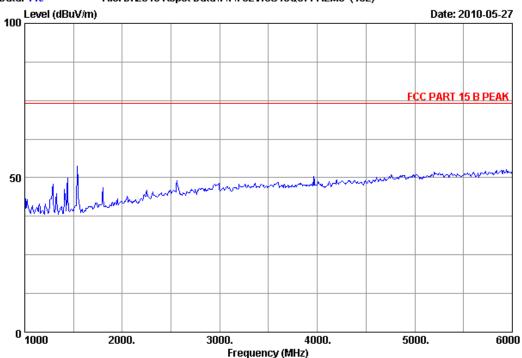
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dBuV)	Reading (dBuV/m)	Emission Level (dBuV/m)	Limits (dB)	Margin R (dB)	Margin Remark	
1	1326.580	25.27	4.21	35.85	49.38	43.01	54.00	10.99	Average	
2	1327.000	25.27	4.21	35.85	57.30	50.93	74.00	23.07	Peak	
3	1442.000	25.22	4.39	35.53	53.69	47.77	74.00	26.23	Peak	
4	1443.150	25.22	4.39	35.53	46.33	40.41	54.00	13.59	Average	
5	1542.000	25.31	4.55	35.27	56.98	51.57	74.00	22.43	Peak	
6	1542.440	25.31	4.55	35.27	51.02	45.61	54.00	8.39	Average	

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



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Site no. : 3m Chamber Data no. : 149
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

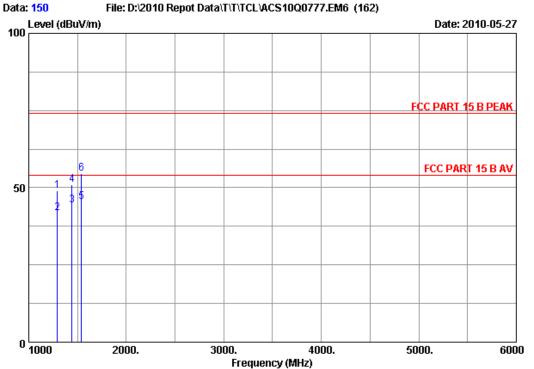
Power Rating : AC 120V/60Hz

Test Mode : Running ''H'' Pattern And 1kHz Playing

VGA:1024*768@60Hz



Postcode:518057



Site no. : 3m Chamber Data no. : 150
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

Test Mode : Running ''H'' Pattern And 1kHz Playing

VGA:1024*768@60Hz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dBuV)	Reading (dBuV/m)	Emission Level (dBuV/m)	Limits (dB)	Margin (dB)	Remark
1293.000 1293.750 1442.540 1443.000 1541.820	25.28 25.28 25.22 25.22 25.31	4.16 4.16 4.39 4.39 4.55	35.92 35.92 35.53 35.53 35.27	55.50 48.25 50.32 56.84 50.93	49.02 41.77 44.40 50.92 45.52	74.00 54.00 54.00 74.00 54.00	24.98 12.23 9.60 23.08 8.48	Peak Average Average Peak Average Peak
	(MHz) 1293.000 1293.750 1442.540 1443.000	Freq. Factor (MHz) (dB/m) 1293.000 25.28 1293.750 25.28 1442.540 25.22 1443.000 25.22 1541.820 25.31	Freq. Factor Loss (MHz) (dB/m) (dB) 1293.000 25.28 4.16 1293.750 25.28 4.16 1442.540 25.22 4.39 1443.000 25.22 4.39 1541.820 25.31 4.55	Freq. Factor Loss factor (MHz) (dB/m) (dB) (dBuV) 1293.000 25.28 4.16 35.92 1293.750 25.28 4.16 35.92 1442.540 25.22 4.39 35.53 1443.000 25.22 4.39 35.53 1541.820 25.31 4.55 35.27	Freq. Factor Loss factor Reading (MHz) (dB/m) (dB) (dBuV) (dBuV/m) 1293.000 25.28 4.16 35.92 55.50 1293.750 25.28 4.16 35.92 48.25 1442.540 25.22 4.39 35.53 50.32 1443.000 25.22 4.39 35.53 56.84 1541.820 25.31 4.55 35.27 50.93	Freq. Factor Loss factor Reading Level (MHz) (dB/m) (dB) (dBuV) (dBuV/m) (dBuV/m) 1293.000 25.28 4.16 35.92 55.50 49.02 1293.750 25.28 4.16 35.92 48.25 41.77 1442.540 25.22 4.39 35.53 50.32 44.40 1443.000 25.22 4.39 35.53 56.84 50.92 1541.820 25.31 4.55 35.27 50.93 45.52	Freq. Factor Loss factor Reading Level Limits (MHz) (dB/m) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 1293.000 25.28 4.16 35.92 55.50 49.02 74.00 1293.750 25.28 4.16 35.92 48.25 41.77 54.00 1442.540 25.22 4.39 35.53 50.32 44.40 54.00 1443.000 25.22 4.39 35.53 56.84 50.92 74.00 1541.820 25.31 4.55 35.27 50.93 45.52 54.00	Freq. Factor Loss factor Reading Level Limits Margin (MHz) (dB/m) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) (dB) 1293.000 25.28 4.16 35.92 55.50 49.02 74.00 24.98 1293.750 25.28 4.16 35.92 48.25 41.77 54.00 12.23 1442.540 25.22 4.39 35.53 50.32 44.40 54.00 9.60 1443.000 25.22 4.39 35.53 56.84 50.92 74.00 23.08 1541.820 25.31 4.55 35.27 50.93 45.52 54.00 8.48

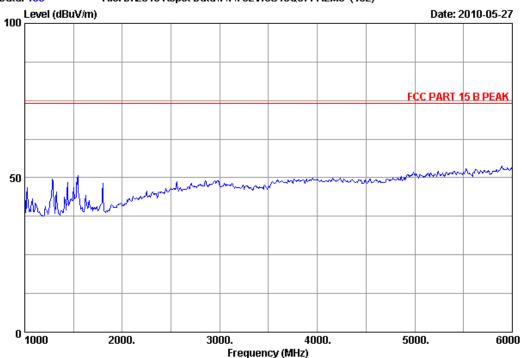
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

-Amp Factor



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Site no. : 3m Chamber

Data no. : 153 Ant. pol. : HORIZONTAL Site no. : 3m Chamber
Dis. / Ant. : 3m 2009 3115

: FCC PART 15 B PEAK Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

: LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

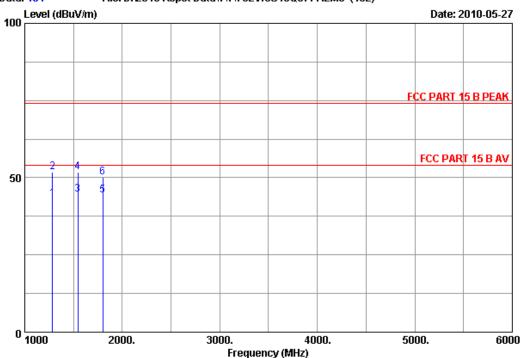
Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI1:1080P



Postcode:518057





Site no. : 3m Chamber

Data no. : 154 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 2009 3115

: FCC PART 15 B PEAK Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

M/N:L40FHDF11TA : LCD TV

Power Rating : AC 120V/60Hz

Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI1:1080P

		Ant.	Cable	AMP	Emission				
No.	Freq.	Factor	Loss	factor	Reading	Level	Limits	Margin R	emark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	
1	1284.000	25.28	4.16	35.99	49.64	43.09	54.00	10.91	Average
2	1285.000	25.28	4.16	35.99	58.26	51.71	74.00	22.29	Peak
3	1544.000	25.31	4.55	35.27	49.97	44.56	54.00	9.44	Average
4	1545.000	25.31	4.55	35.27	57.23	51.82	74.00	22.18	Peak
5	1801.670	25.86	4.94	34.62	48.24	44.42	54.00	9.58	Average
6	1802.300	25.86	4.94	34.62	53.98	50.16	74.00	23.84	Peak

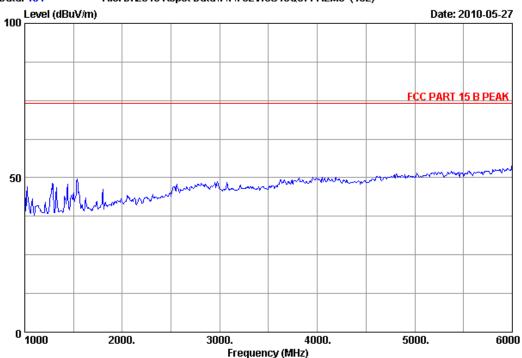
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

-Amp Factor



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Site no. : 3m Chamber Data no. : 151
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

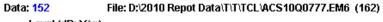
Power Rating : AC 120V/60Hz

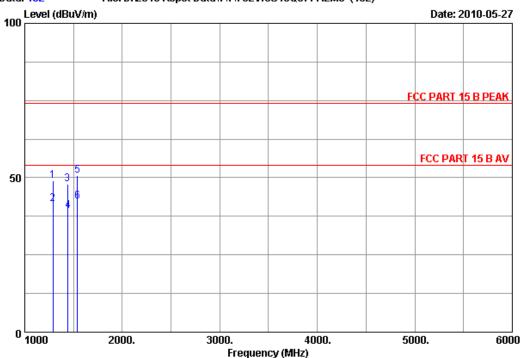
Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI1:1080P



Postcode:518057





Data no. : 152 Ant. pol. : VERTICAL Site no. : 3m Chamber Dis. / Ant. : 3m 2009 3115

: FCC PART 15 B PEAK Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

M/N:L40FHDF11TA : LCD TV

Power Rating : AC 120V/60Hz

Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI1:1080P

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dBuV)	Reading (dBuV/m)	Emission Level (dBuV/m)	Limits (dB)	Margin F	Remark
1	1287.000	25.28	4.16	35.99	55.68	49.13	74.00	24.87	Peak
2	1288.510	25.28	4.16	35.92	48.01	41.53	54.00	12.47	Average
3	1440.000	25.22	4.39	35.53	53.95	48.03	74.00	25.97	Peak
4	1442.000	25.22	4.39	35.53	45.29	39.37	54.00	14.63	Average
5	1540.000	25.31	4.55	35.27	56.07	50.66	74.00	23.34	Peak
6	1542.300	25.31	4.55	35.27	47.62	42.21	54.00	11.79	Average

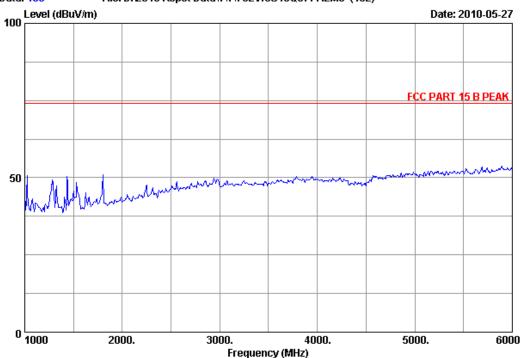
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

-Amp Factor



Postcode:518057





Site no. : 3m Chamber
Dis. / Ant. : 3m 2009 3115

Data no. : 155 Ant. pol. : HORIZONTAL

: FCC PART 15 B PEAK Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

: LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

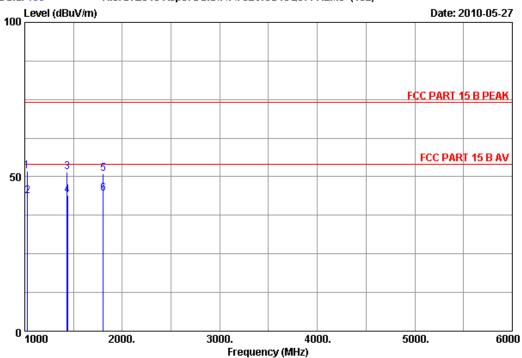
Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI2:1080P



Postcode:518057





Site no. : 3m Chamber

Data no. : 156 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 2009 3115

: FCC PART 15 B PEAK Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

M/N:L40FHDF11TA : LCD TV

Power Rating : AC 120V/60Hz

Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI2:1080P

		Ant.	Cable	AMP	Emission				
No.	Freq.	Factor	Loss	factor	Reading	Level	Limits	Margin R	emark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	
1	1024.000	25.39	3.75	36.64	59.33	51.83	74.00	22.17	Peak
2	1026.580	25.39	3.77	36.64	51.27	43.79	54.00	10.21	Average
3	1436.200	25.22	4.39	35.60	57.42	51.43	74.00	22.57	Peak
4	1437.840	25.22	4.39	35.53	49.89	43.97	54.00	10.03	Average
5	1806.200	25.86	4.94	34.62	54.84	51.02	74.00	22.98	Peak
6	1806.230	25.86	4.94	34.62	48.36	44.54	54.00	9.46	Average

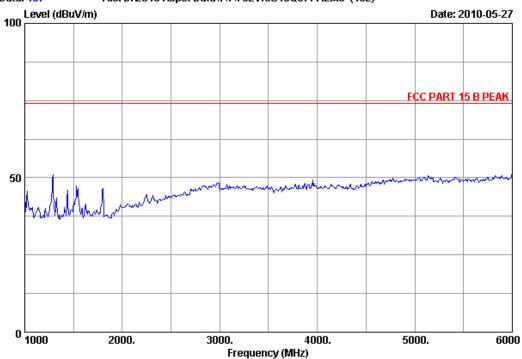
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

-Amp Factor



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Site no. : 3m Chamber Data no. : 157
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

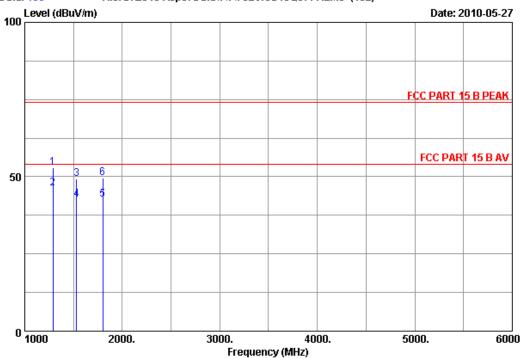
Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI2:1080P



Postcode:518057





Site no. : 3m Chamber Data no. : 158
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI2:1080P

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dBuV)	Reading (dBuV/m)	Emission Level (dBuV/m)	Limits (dB)	Margin R (dB)	emark
1	1290.000	25.28	4.16	35.92	59.36	52.88	74.00	21.12	Peak
2	1291.000	25.28	4.16	35.92	52.67	46.19	54.00	7.81	Average
3	1531.200	25.27	4.52	35.33	54.96	49.42	74.00	24.58	Peak
4	1533.470	25.27	4.52	35.33	48.05	42.51	54.00	11.49	Average
5	1799.200	25.86	4.94	34.62	46.38	42.56	54.00	11.44	Average
6	1800.000	25.86	4.94	34.62	53.44	49.62	74.00	24.38	Peak

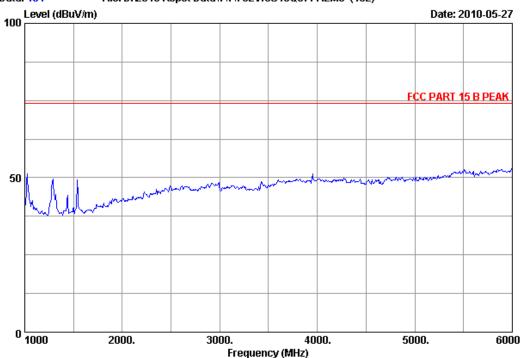
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

-Amp Factor



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Site no. : 3m Chamber

Data no. : 161 Ant. pol. : HORIZONTAL Site no. : 3m Chamber
Dis. / Ant. : 3m 2009 3115

: FCC PART 15 B PEAK Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

: LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

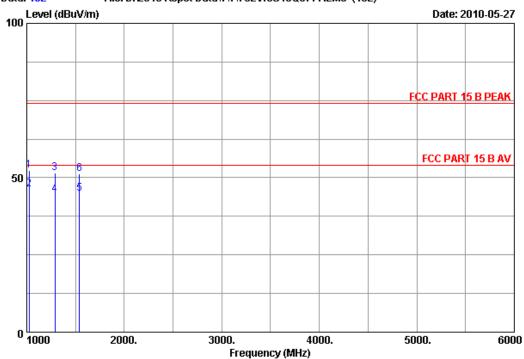
Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI3:1080P



Postcode:518057





Site no. : 3m Chamber

Data no. : 162 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 2009 3115

: FCC PART 15 B PEAK Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

M/N:L40FHDF11TA : LCD TV

Power Rating : AC 120V/60Hz

Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI3:1080P

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dBuV)	Reading (dBuV/m)	Emission Level (dBuV/m)	Limits (dB)	Margin R (dB)	emark
1	1024.300	25.39	3.75	36.64	59.79	52.29	74.00	21.71	Peak
2	1025.300	25.39	3.75	36.64	53.83	46.33	54.00	7.67	Average
3	1289.000	25.28	4.16	35.92	58.07	51.59	74.00	22.41	Peak
4	1290.952	25.28	4.16	35.92	50.93	44.45	54.00	9.55	Average
5	1540.842	25.31	4.55	35.27	50.24	44.83	54.00	9.17	Average
6	1541.000	25.31	4.55	35.27	56.63	51.22	74.00	22.78	Peak

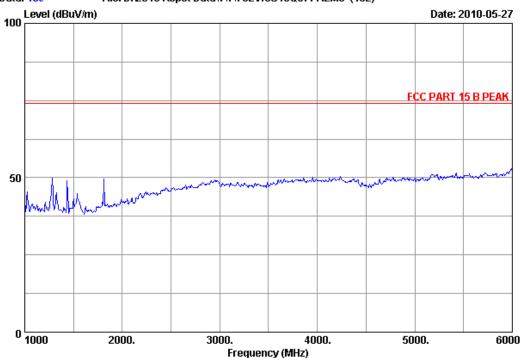
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

-Amp Factor



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Site no. : 3m Chamber Data no. : 159
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

EUT : LCD TV M/N:L40FHDF11TA

Power Rating : AC 120V/60Hz

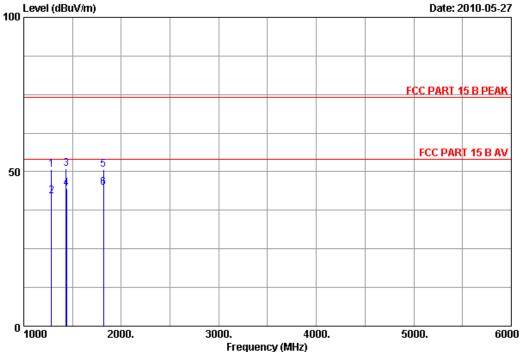
Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI3:1080P



Postcode:518057

Data: 160 File: D:\2010 Repot Data\T\T\TCL\ACS10Q0777.EM6 (162) 100 Level (dBuV/m)



Data no. : 160 Ant. pol. : VERTICAL Site no. : 3m Chamber Dis. / Ant. : 3m 2009 3115

: FCC PART 15 B PEAK Limit

Env. / Ins. : 24*C/56% Engineer : Jolly_Xu

M/N:L40FHDF11TA : LCD TV

Power Rating : AC 120V/60Hz

Test Mode : Running ''H'' Pattern And 1kHz Playing

HDMI3:1080P

-Amp Factor

		Ant.	Cable	AMP		Emission			
No.	Freq.	Factor	Loss	factor	Reading	Level	Limits	Margin R	emark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	
1	1286.000	25.28	4.16	35.99	57.30	50.75	74.00	23.25	Peak
2	1286.500	25.28	4.16	35.99	48.66	42.11	54.00	11.89	Average
3	1436.000	25.22	4.39	35.60	57.00	51.01	74.00	22.99	Peak
4	1437.680	25.22	4.39	35.53	50.62	44.70	54.00	9.30	Average
5	1817.000	25.90	4.96	34.56	54.39	50.69	74.00	23.31	Peak
6	1818.640	25.90	4.96	34.56	48.52	44.82	54.00	9.18	Average

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