FCC ID:W8U23F3300

APPLICATION OF CERTIFICATION For

TTE Technology Inc.

LCD TV

Brand Name					
TCL	23F3300				

FCC ID: W8U23F3300

Prepared for: TTE Technology Inc.

555 S. Promenade Ave., Suite 103, Corona, CA 92879,

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

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

Report Number : ACS- F13345

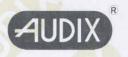
Date of Test : Nov.18~23, 2013

Date of Report : Dec.09, 2013



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FCC ID: W8U23F3300

CERTIFICATION TEST REPORT

Applicant

TTE Technology Inc.

Manufacturer

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

EUT Description

LCD TV

FCC ID

W8U23F3300

(A) Model No. &:

Brand Name

Brand Name Model Number TCL 23F3300

(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 2012

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:

Nov.18~ 23,2013

Report of date:

Dec.09, 2013

Prepared by:

Reviewed by:

Sun Zeng / Assistant Manager

® 信華科技 (深圳) 有限公司

Audix Technology (Shenzhen) Co., Ltd.

EMC部門報告專用幸

Stamp only for EMC Dept. Report

Signature:

David Jin / Manager

Approved & Authorized Signer:



FCC ID: W8U23F3300 Page 1-1

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	Results	Remarks			
Power Line Conducted Emission Test	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 5.18dB at 0.44700MHz			
Radiated Emission Test (30-1000MHz)	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 7.20dB at 30.000MHz			
Radiated Emission Test (1-5GHz)	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 8.19dB at 1418.580MHz			



FCC ID: W8U23F3300 Page 2-1

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Description : LCD TV

Model Number& : Brand Name

Brand Name	Model Number
TCL	23F3300

FCC ID : W8U23F3300

Applicant : TTE Technology Inc.

555 S. Promenade Ave., Suite 103, Corona, CA 92879,

U.S.A.

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

Section 19, Zhongkai Development Zone for New and High Level

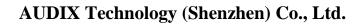
TECH Industries, Huizhou, Guangdong 516006, P.R. China.

FREQUENCIES USED AND GENERATED WITHIN DEVICE					
LVDS (HD) 78MHZ					
LVDS (FHD)	75MHZ				
IF	6MHz				
DC-DC	U302->385KHz				
DDR	390 MHz				

Date of Test : Nov.18~23,2013

Date of Receipt : Nov.17, 2013

Sample Type : Prototype production





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2.2.Tested Supporting System Details

	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type		
1.	1. Personal	Test PC S	DELL	Vostro 470	2SP05W1	☑FCC DoC ☑BSMI ID:R33002		
	Computer	Power Cord: Unshie Display Card: HD34	· · · · · · · · · · · · · · · · · · ·					
2.	USB Keyboard	ACS-EMC- K04R	DELL	SK-8115	CN-ODJ313-71616-6 BB-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, Une	detachabled, 4.0n	ı				
		ACS-EMC-PT04	НР	C9079A	N/A	☑FCC DoC ☑BSMI ID: R33001		
4.	Printer	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, Undetachable, 1.8m						
6.	iPod nano	ACS-EMC-IP03	APPLE	A1199	YM711H3LVQ5	☑FCC DoC ☑BSMI ID: R33057		
		Data Cable: Shielded	d, Detachabled, 1	.0m				
7.	HDD	ACS-EMC-HDD02	Terasys	F12-UF	A0100215-5390018	☑FCC DoC ☑BSMI ID: 4912A022		
		USB Cable: Shielded, Detachable, 1.8m						
8.	HDMI Cable: Shiel VGA Cable: Shiel Audio(R+L)Cable	shielded, Detachable, elded, Detachable, 1.5 lded, Detachable, 1.5 E: Unshielded, Detach ble: Unshielded, Detach	8m m nable, 1.5m					

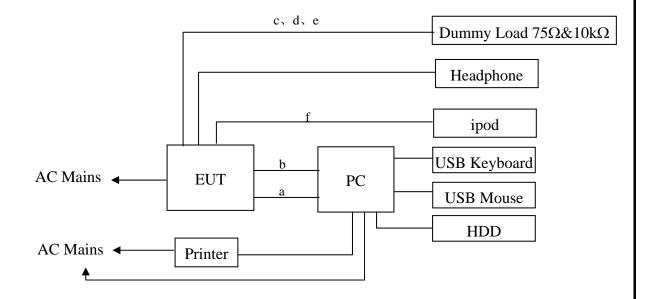
Audio(R+L)Cable: Unshielded, Detachable, 1.5m Component In Cable: Unshielded, Detachable, 1.5m SPDIF Cable: Unshielded, Detachable, 1.5m

Page



FCC ID:W8U23F3300

2.3.Block diagram of connection between the EUT and simulators



- a: VGA Cable
- b: HDMI Cable
- c: Component In Cable
- d: SPDIF Cable
- e: Audio (R+L) Cable
- f: USB Cable

(EUT: LCD TV)



FCC ID:W8U23F3300 Page 2-4

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. : Accredited 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, 2014

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

Test Item	Uncertainty		
Uncertainty for Conduction emission test in No. 1 Conduction	3.1 dB(150KHz to 30MHz)		
	3.22 dB(30~200MHz, Polarize: H)		
Uncertainty for Radiation Emission test	3.23 dB(30~200MHz, Polarize: V)		
in 3m chamber	3.49 dB(200M~1GHz, Polarize: H)		
	3.39 dB(200M~1GHz, Polarize: V)		
Uncertainty for Radiation Emission test in	4.97 dB(1~6GHz, Distance: 3m)		
3m chamber (1GHz-18GHz)	4.99 dB(6~18GHz, Distance: 3m)		
Uncertainty for test site temperature	3%		
and humidity	0.6℃		

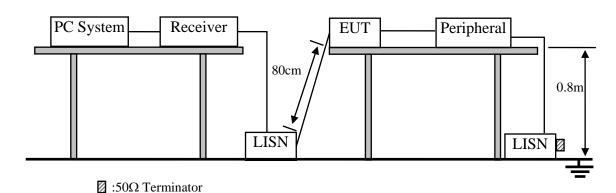


3. POWER LINE CONDUCTED EMISSION MEASUREMENT

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, 13	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 13	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 13	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 13	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 13	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 13	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 13	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 13	1 Year

3.2.Block Diagram of Test Setup



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 : 23F3300 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 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.: 23F3300

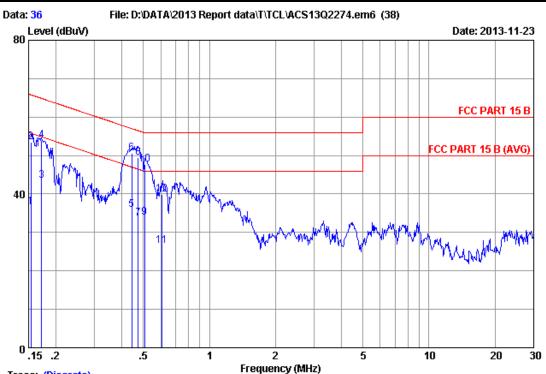
Test Date: Nov.23, 2013 Temperature: 26.9°C Humidity: 40%

The details of test modes are as follows:

No.	Test Mode	Input Port	Resolution &	Reference Test Data No.		
			Frequency	Line	Neutral	
1.※			640*480/60Hz	#36	#35	
2.	PC Mode	VGA	1024*768/60Hz	#34	#33	
3.			1366*768/60Hz	#32	#31	
The Worst for Video Resolution of original report:						
4.	PC Mode	HDMI	1920*1080/60Hz	#38	#37	

(* Worst test mode)

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Trace: (Discrete)

Site no :1#conduction Data No :36

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

Limit :FCC PART 15 B

Env./Ins. :26.9*C/40% Engineer :Nick_Huang

EUT :LCD TV M/N:23F3300

Power Rating :AC 120V/60Hz

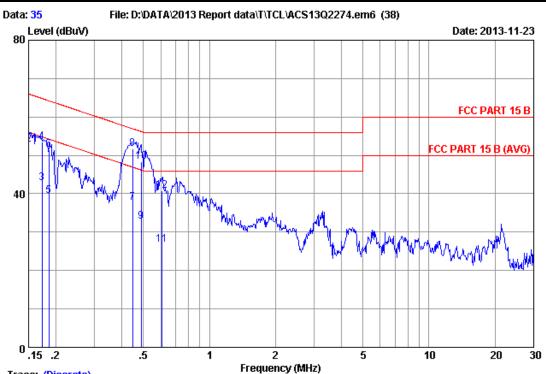
Test Mode :Running "H" Pattern And 1KHz Playing

:VGA:640*480@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15400	0.20	0.01	36.30	36.51	55.78	19.27	Average
2	0.15400	0.20	0.01	53.20	53.41	65.78	12.37	QP
3	0.17200	0.20	0.01	43.20	43.41	54.86	11.45	Average
4	0.17200	0.20	0.01	53.80	54.01	64.86	10.85	QP
5	0.44300	0.19	0.02	35.60	35.81	47.01	11.20	Average
6	0.44300	0.19	0.02	50.40	50.61	57.01	6.40	QP
7	0.47300	0.19	0.02	33.50	33.71	46.46	12.75	Average
8	0.47300	0.19	0.02	49.30	49.51	56.46	6.95	QP
9	0.50700	0.19	0.02	33.60	33.81	46.00	12.19	Average
10	0.50700	0.19	0.02	47.50	47.71	56.00	8.29	QP
11	0.61000	0.20	0.02	26.20	26.42	46.00	19.58	Average
12	0.61000	0.20	0.02	39.60	39.82	56.00	16.18	QP

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

Page 3-4



Trace: (Discrete)

Site no :1#conduction Data No :35

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

:FCC PART 15 B Limit

:26.9*C/40% Env./Ins. Engineer :Nick_Huang

:LCD TV M/N:23F3300 EUT

Power Rating :AC 120V/60Hz

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

:VGA:640*480@60Hz

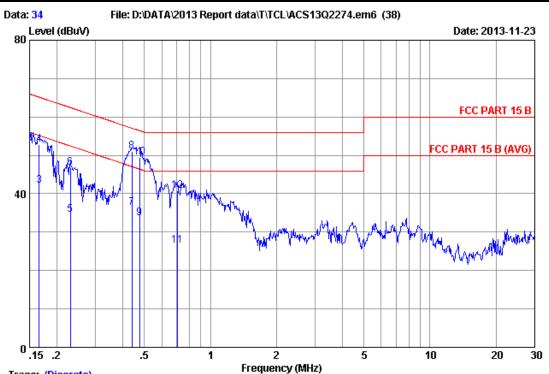
		LISN	Cable		Emissior	ı		
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.15000	0.21	0.01	34.50	34.72	56.00	21.28	Average
2	0.15000	0.21	0.01	52.70	52.92	66.00	13.08	QP
3	0.17300	0.21	0.01	42.60	42.82	54.82	12.00	Average
4	0.17300	0.21	0.01	53.20	53.42	64.82	11.40	QP
5	0.18600	0.21	0.01	39.30	39.52	54.21	14.69	Average
6	0.18600	0.21	0.01	51.20	51.42	64.21	12.79	QP
7	0.44700	0.23	0.02	37.50	37.75	46.93	9.18	Average
8	0.44700	0.23	0.02	51.50	51.75	56.93	5.18	QP
9	0.48800	0.23	0.02	32.60	32.85	46.20	13.35	Average
10	0.48800	0.23	0.02	48.20	48.45	56.20	7.75	QP
11	0.61000	0.24	0.02	26.40	26.66	46.00	19.34	Average
12	0.61000	0.24	0.02	40.50	40.76	56.00	15.24	QP

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

FCC ID: W8U23F3300

AUDIX Technology (Shenzhen) Co., Ltd.

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Trace: (Discrete)

:1#conduction Site no Data No :34

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

:FCC PART 15 B Limit

Engineer :Nick_Huang :26.9*C/40% Env./Ins.

:LCD TV M/N:23F3300 EUT

Power Rating :AC 120V/60Hz

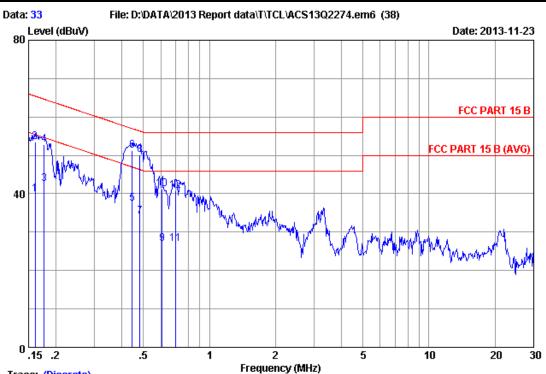
Test Mode :Running "H" Pattern And 1KHz Playing

:VGA:1024*768@60Hz

		LISN	Cable		Emissior	ı		
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.15000	0.20	0.01	36.10	36.31	56.00	19.69	Average
2	0.15000	0.20	0.01	53.00	53.21	66.00	12.79	QP
3	0.16600	0.20	0.01	41.80	42.01	55.16	13.15	Average
4	0.16600	0.20	0.01	52.70	52.91	65.16	12.25	QP
5	0.23000	0.19	0.01	34.30	34.50	52.45	17.95	Average
6	0.23000	0.19	0.01	46.50	46.70	62.45	15.75	QP
7	0.43900	0.19	0.02	36.20	36.41	47.08	10.67	Average
8	0.43900	0.19	0.02	50.80	51.01	57.08	6.07	QP
9	0.47600	0.19	0.02	33.40	33.61	46.41	12.80	Average
10	0.47600	0.19	0.02	49.30	49.51	56.41	6.90	QP
11	0.70800	0.20	0.03	26.30	26.53	46.00	19.47	Average
12	0.70800	0.20	0.03	40.60	40.83	56.00	15.17	QP

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

Page 3-6



Trace: (Discrete)

:1#conduction Site no Data No :33

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

:FCC PART 15 B Limit

Engineer :Nick_Huang :26.9*C/40% Env./Ins.

:LCD TV M/N:23F3300 EUT

Power Rating :AC 120V/60Hz

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

:VGA:1024*768@60Hz

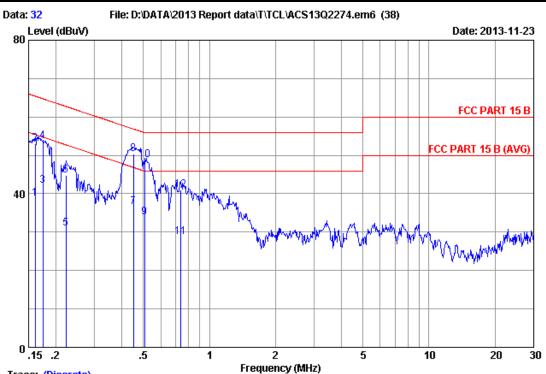
		LISN	Cable		Emissior	ı		
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0 16100	0.21	0.01	20 60	20 02		15 50	
_	0.16100	0.21	0.01	39.60	39.82	55.41	15.59	Average
2	0.16100	0.21	0.01	53.30	53.52	65.41	11.89	QP
3	0.17700	0.21	0.01	42.30	42.52	54.63	12.11	Average
4	0.17700	0.21	0.01	52.50	52.72	64.63	11.91	QP
5	0.44500	0.23	0.02	37.20	37.45	46.97	9.52	Average
6	0.44500	0.23	0.02	51.00	51.25	56.97	5.72	QP
7	0.48300	0.23	0.02	33.90	34.15	46.29	12.14	Average
8	0.48300	0.23	0.02	49.80	50.05	56.29	6.24	QP
9	0.61000	0.24	0.02	26.80	27.06	46.00	18.94	Average
10	0.61000	0.24	0.02	40.90	41.16	56.00	14.84	QP
11	0.70400	0.24	0.03	26.80	27.07	46.00	18.93	Average
12	0.70400	0.24	0.03	40.50	40.77	56.00	15.23	QP

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

FCC ID: W8U23F3300

AUDIX Technology (Shenzhen) Co., Ltd.

Page 3-7



Trace: (Discrete)

Site no :1#conduction Data No :32

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

:FCC PART 15 B Limit

Engineer :Nick_Huang :26.9*C/40% Env./Ins.

:LCD TV M/N:23F3300 EUT

Power Rating :AC 120V/60Hz

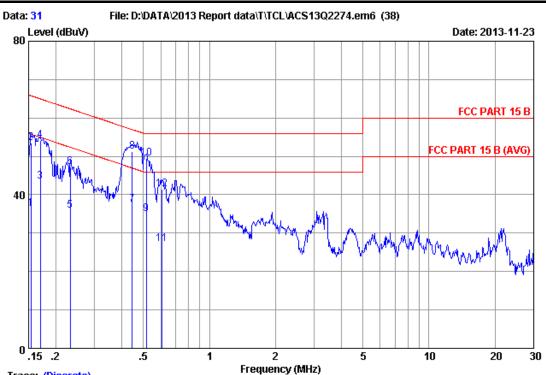
Test Mode :Running "H" Pattern And 1KHz Playing

:VGA:1366*768@60Hz

		LISN	Cable		Emissior	ı		
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.16100	0.20	0.01	38.50	38.71	55.41	16.70	Average
2	0.16100	0.20	0.01	52.80	53.01	65.41	12.40	QP
3	0.17400	0.19	0.01	41.90	42.10	54.77	12.67	Average
4	0.17400	0.19	0.01	53.50	53.70	64.77	11.07	QP
5	0.22200	0.19	0.01	30.80	31.00	52.74	21.74	Average
6	0.22200	0.19	0.01	44.60	44.80	62.74	17.94	QP
7	0.45100	0.19	0.02	36.30	36.51	46.86	10.35	Average
8	0.45100	0.19	0.02	50.10	50.31	56.86	6.55	QP
9	0.50700	0.19	0.02	33.60	33.81	46.00	12.19	Average
10	0.50700	0.19	0.02	48.50	48.71	56.00	7.29	QP
11	0.73900	0.20	0.03	28.50	28.73	46.00	17.27	Average
12	0.73900	0.20	0.03	40.70	40.93	56.00	15.07	QP

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

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Trace: (Discrete)

Site no :1#conduction Data No :31

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

:FCC PART 15 B Limit

:26.9*C/40% Env./Ins. Engineer :Nick_Huang

EUT :LCD TV M/N:23F3300

Power Rating :AC 120V/60Hz

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

:VGA:1366*768@60Hz

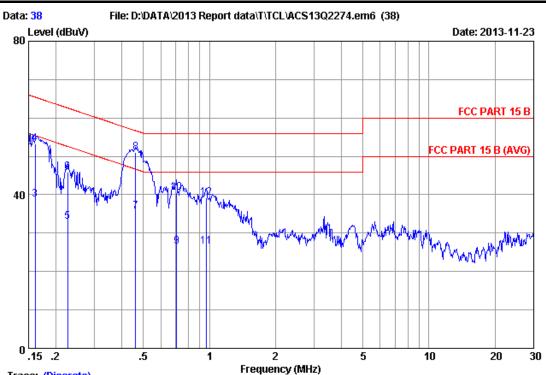
		LISN	Cable		Emissior	ı		
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.15400	0.21	0.01	36.10	36.32	55.78	19.46	Average
2	0.15400	0.21	0.01	53.20	53.42	65.78	12.36	QP QP
_								_
3	0.17000	0.21	0.01	43.20	43.42	54.96	11.54	Average
4	0.17000	0.21	0.01	54.00	54.22	64.96	10.74	QP
5	0.23200	0.21	0.01	35.70	35.92	52.38	16.46	Average
6	0.23200	0.21	0.01	47.00	47.22	62.38	15.16	QP
7	0.44400	0.23	0.02	37.30	37.55	46.99	9.44	Average
8	0.44400	0.23	0.02	51.10	51.35	56.99	5.64	QP
9	0.51500	0.23	0.02	34.80	35.05	46.00	10.95	Average
10	0.51500	0.23	0.02	49.30	49.55	56.00	6.45	QP
11	0.61000	0.24	0.02	26.90	27.16	46.00	18.84	Average
12	0.61000	0.24	0.02	41.10	41.36	56.00	14.64	QP

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

FCC ID: W8U23F3300

AUDIX Technology (Shenzhen) Co., Ltd.

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Trace: (Discrete)

Site no

:1#conduction Data No :38

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

:FCC PART 15 B Limit

:26.9*C/40% Env./Ins. Engineer :Nick_Huang

EUT :LCD TV M/N:23F3300

Power Rating :AC 120V/60Hz

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

:HDMI:1920*1080@60Hz

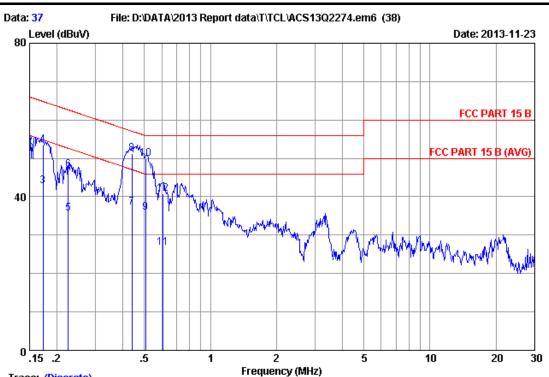
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.20	0.01	35.60	35.81	56.00	20.19	Average
2	0.15000	0.20	0.01	52.20	52.41	66.00	13.59	QP
3	0.16100	0.20	0.01	38.50	38.71	55.41	16.70	Average
4	0.16100	0.20	0.01	53.00	53.21	65.41	12.20	QP
5	0.22600	0.19	0.01	32.70	32.90	52.60	19.70	Average
6	0.22600	0.19	0.01	45.60	45.80	62.60	16.80	QP
7	0.46100	0.19	0.02	35.50	35.71	46.67	10.96	Average
8	0.46100	0.19	0.02	50.90	51.11	56.67	5.56	QP
9	0.70800	0.20	0.03	26.30	26.53	46.00	19.47	Average
10	0.70800	0.20	0.03	40.40	40.63	56.00	15.37	QP
11	0.96800	0.21	0.03	26.20	26.44	46.00	19.56	Average
12	0.96800	0.21	0.03	38.90	39.14	56.00	16.86	QP

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

FCC ID: W8U23F3300

AUDIX Technology (Shenzhen) Co., Ltd.

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Trace: (Discrete)

Site no :1#conduction Data No :37

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

:FCC PART 15 B Limit

:26.9*C/40% Env./Ins. Engineer :Nick_Huang

EUT :LCD TV M/N:23F3300

Power Rating :AC 120V/60Hz

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

:HDMI:1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.21	0.01	35.20	35.42	56.00	20.58	Average
2	0.15000	0.21	0.01	52.80	53.02	66.00	12.98	QP
3	0.17300	0.21	0.01	42.50	42.72	54.82	12.10	Average
4	0.17300	0.21	0.01	53.20	53.42	64.82	11.40	QP
5	0.22500	0.21	0.01	35.50	35.72	52.63	16.91	Average
6	0.22500	0.21	0.01	46.90	47.12	62.63	15.51	QP
7	0.43900	0.23	0.02	37.00	37.25	47.08	9.83	Average
8	0.43900	0.23	0.02	51.10	51.35	57.08	5.73	QP
9	0.50700	0.23	0.02	35.70	35.95	46.00	10.05	Average
10	0.50700	0.23	0.02	49.60	49.85	56.00	6.15	QP
11	0.61000	0.24	0.02	26.40	26.66	46.00	19.34	Average
12	0.61000	0.24	0.02	40.50	40.76	56.00	15.24	QP

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



4. RADIATED EMISSION MEASUREMENT

4.1.Test Equipment

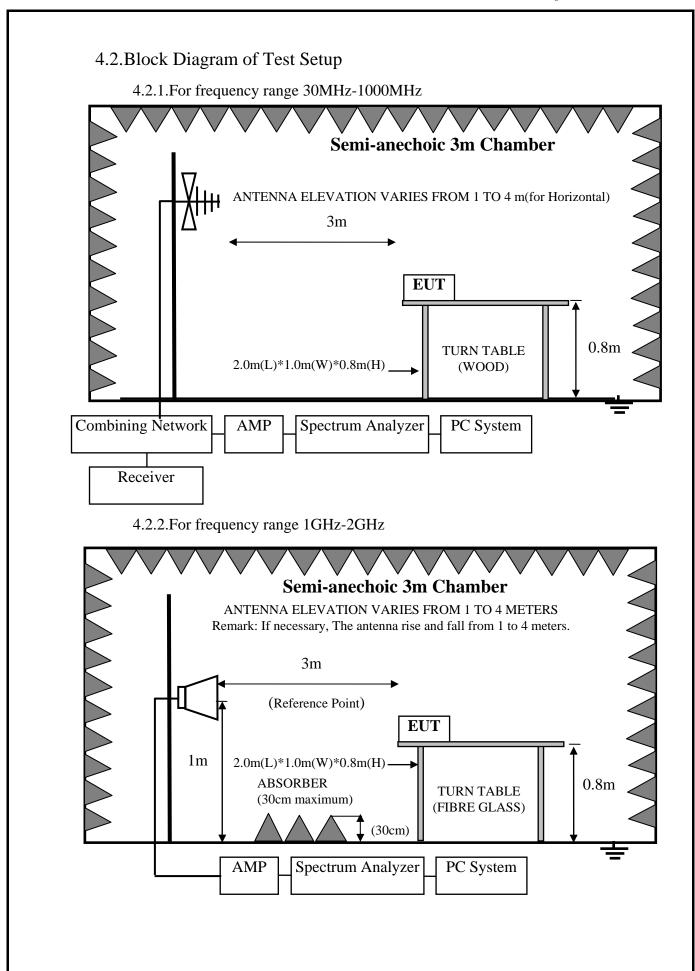
4.1.1.For frequency range 30MHz~1000MHz

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, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog Antenna	TESEQ	CBL6112D	35375	May.30, 13	1 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 13	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 13	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	07B MY41440292		1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Aug.27, 13	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	May.08, 13	1 Year







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 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.

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4.7. Radiated Emission Test Results

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

EUT: LCD TV Model No.: 23F3300

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: Nov.18, 2013 Temperature: 24°C Humidity: 65%

The details of test modes are as follows:

No.	T4 M-1-	T . D .	Resolution &	Reference Test Data No.				
	Test Mode	Input Port	Frequency	Horizontal	Vertical			
1.		VGA	640*480/60Hz	#35	#36			
2. ※	PC Mode	VGA	1024*768/60Hz	#34	#33			
3.		VGA	1366*768/60Hz	#31	#32			
The Worst for Video Resolution of original report:								
4.	PC Mode	HDMI	1920*1080/60Hz	#38	#37			

^{(*} 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

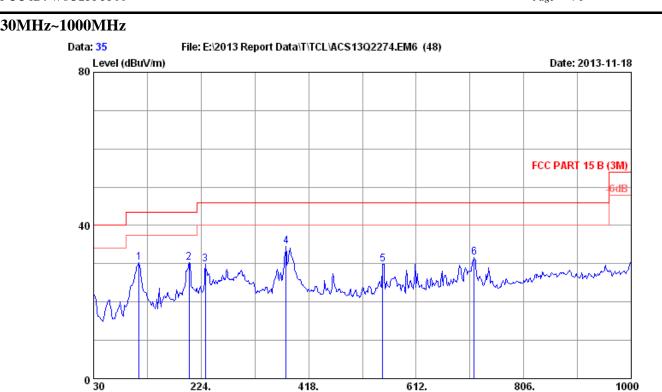
Note: For all the emissions above 1GHz, the peak measured level comply with peak limit, so the average level were deemed to comply with average limit.

Test Date: Nov.18, 2013 Temperature: 24°C Humidity: 56%

NT	T . M 1	I (D (Resolution &	Reference Test Data No.				
No.	Test Mode	Input Port	Frequency	Horizontal	Vertical			
1. 💥	PC Mode VGA 1366*768/60Hz		#42	#41				
The Worst for Video Resolution of original report:								
2.	PC Mode	HDMI	1920*1080/60Hz	#39	#40			

(* Worst test mode)

4-5 Page



Site no. : 3m Chamber Data no. : 35

Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL

Frequency (MHz)

Engineer : Even_Deng

Limit : FCC PART 15 B (3M) Env. / Ins. : 24*C/65%

EUT : LCD TV M/N:23F3300

Power rating : AC 120V/60Hz

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

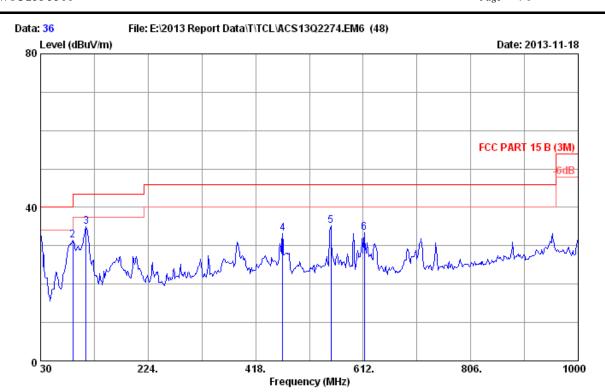
VGA:640*480@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	112.450	12.45	1.46	16.42	30.33	43.50	13.17	QP
2	202.660	10.53	1.80	17.97	30.30	43.50	13.20	QP
3	231.760	11.46	1.91	16.38	29.75	46.00	16.25	QP
4	377.260	15.85	2.39	16.24	34.48	46.00	11.52	QP
5	551.860	18.86	2.90	8.04	29.80	46.00	16.20	QP
6	716.760	19.90	3.37	8.34	31.61	46.00	14.39	QP

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

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

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Site no. : 3m Chamber Data no. : 36
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/65% Engineer : Even_Deng

EUT : LCD TV M/N:23F3300

Power rating : AC 120V/60Hz

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

VGA:640*480@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.10	0.83	11.57	32.50	40.00	7.50	QP
2	88.200	9.04	1.36	21.00	31.40	43.50	12.10	QP
3	112.450	12.45	1.46	21.08	34.99	43.50	8.51	QP
4	466.500	17.53	2.65	12.95	33.13	46.00	12.87	QP
5	553.800	18.82	2.90	13.38	35.10	46.00	10.90	QP
6	613.940	19.28	3.08	11.09	33.45	46.00	12.55	QP

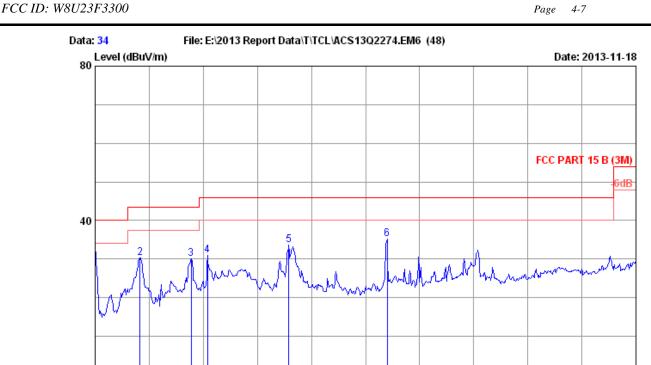
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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

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806.

1000



Site no. : 3m Chamber Data no. : 34

418.

Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL

Frequency (MHz)

612.

Engineer : Even_Deng

Limit : FCC PART 15 B (3M)

224.

Env. / Ins. : 24*C/65%

0 30

EUT : LCD TV M/N:23F3300

Power rating : AC 120V/60Hz

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

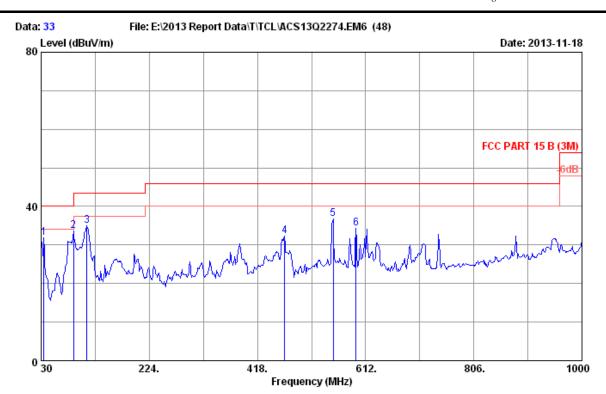
VGA:1024*768@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.10	0.83	11.87	32.80	40.00	7.20	QP
2	110.510	12.33	1.45	16.57	30.35	43.50	13.15	QP
3	202.660	10.53	1.80	17.75	30.08	43.50	13.42	QP
4	231.760	11.46	1.91	17.52	30.89	46.00	15.11	QP
5	377.260	15.85	2.39	15.30	33.54	46.00	12.46	QP
6	553.800	18.82	2.90	13.58	35.30	46.00	10.70	QP

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

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. The worst emission was detected at 30.000 MHz with corrected signal level of 32.80 dB μ V/m (Limit is 40.00 dB μ V/m) when the antenna was at horizontal polarization and at 1.0m high and the turn table was at 75°.
- 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. : 33
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/65% Engineer : Even_Deng

EUT : LCD TV M/N:23F3300

Power rating : AC 120V/60Hz

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

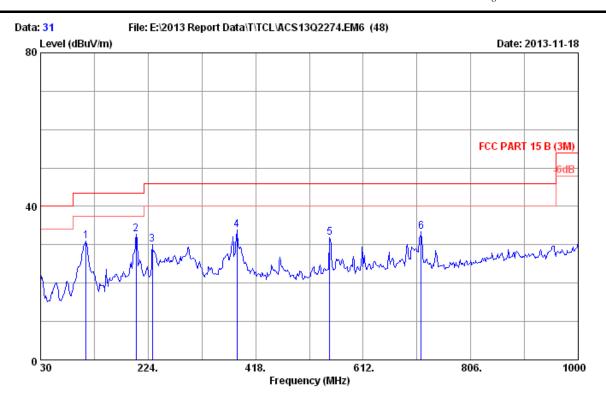
VGA: 1024*768@60Hz

_	No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	1	34.850	17.09	0.92	13.80	31.81	40.00	8.19	QP
	2	88.200	9.04	1.36	23.34	33.74	43.50	9.76	QP
	3	112.450	12.45	1.46	21.15	35.06	43.50	8.44	QP
	4	466.500	17.53	2.65	12.08	32.26	46.00	13.74	QP
	5	553.800	18.82	2.90	15.14	36.86	46.00	9.14	QP
	6	594.540	19.09	3.02	12.19	34.30	46.00	11.70	QP

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

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. The worst emission was detected at 34.850 MHz with corrected signal level of 31.81 dB μ V/m (Limit is 40.00 dB μ V/m) when the antenna was at vertical polarization and at 1.0m high and the turn table was at 235°.
- 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. : 31 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 2013 CBL6112D 35375

: FCC PART 15 B (3M) Limit

Engineer : Even_Deng Env. / Ins. : 24*C/65%

M/N:23F3300 : LCD TV

Power rating : AC 120V/60Hz

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

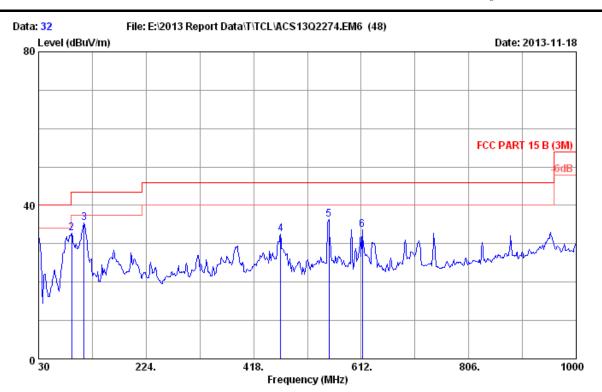
VGA:1366*768@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	112.450	12.45	1.46	17.03	30.94	43.50	12.56	QP
2	202.660	10.53	1.80	20.47	32.80	43.50	10.70	QP
3	231.760	11.46	1.91	16.63	30.00	46.00	16.00	QP
4	384.050	15.98	2.41	15.45	33.84	46.00	12.16	QP
5	551.860	18.86	2.90	10.20	31.96	46.00	14.04	QP
6	716.760	19.90	3.37	10.08	33.35	46.00	12.65	QP

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

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

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Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/65% Engineer : Even_Deng

EUT : LCD TV M/N:23F3300

Power rating : AC 120V/60Hz

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

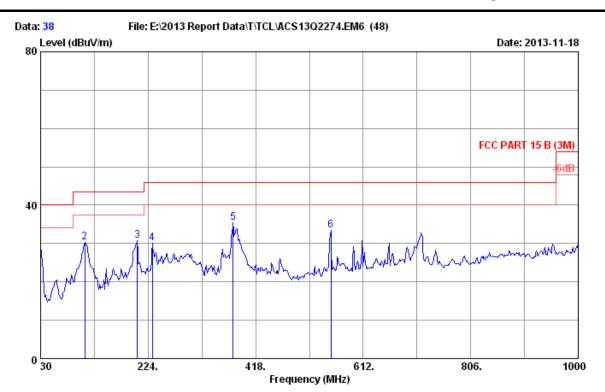
VGA:1366*768@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.10	0.83	10.47	31.40	40.00	8.60	QP
2	90.140	9.43	1.37	21.89	32.69	43.50	10.81	QP
3	112.450	12.45	1.46	21.50	35.41	43.50	8.09	QP
4	466.500	17.53	2.65	12.45	32.63	46.00	13.37	QP
5	553.800	18.82	2.90	14.56	36.28	46.00	9.72	QP
6	613.940	19.28	3.08	11.39	33.75	46.00	12.25	QP

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

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

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Site no. : 3m Chamber

Data no. : 38 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 2013 CBL6112D 35375

: FCC PART 15 B (3M) Limit

Env. / Ins. : 24*C/65% Engineer : Even_Deng

M/N:23F3300 : LCD TV

Power rating : AC 120V/60Hz

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

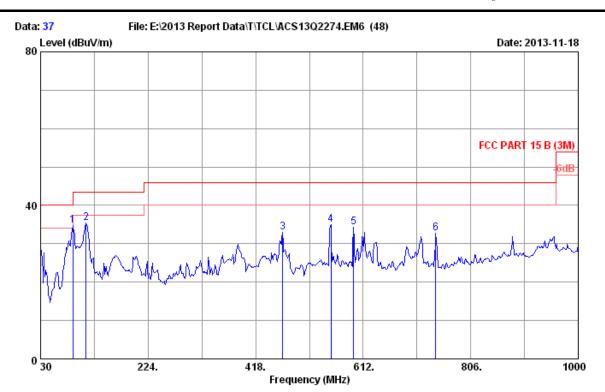
HDMI:1920*1080@60Hz

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.10	0.83	7.97	28.90	40.00	11.10	QP
2	109.540	12.25	1.45	16.53	30.23	43.50	13.27	QP
3	204.600	10.63	1.81	18.35	30.79	43.50	12.71	QP
4	231.760	11.46	1.91	16.67	30.04	46.00	15.96	QP
5	377.260	15.85	2.39	17.26	35.50	46.00	10.50	QP
6	553.800	18.82	2.90	11.70	33.42	46.00	12.58	QP

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

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

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Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/65% Engineer : Even_Deng

EUT : LCD TV M/N:23F3300

Power rating : AC 120V/60Hz

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

HDMI:1920*1080@60Hz

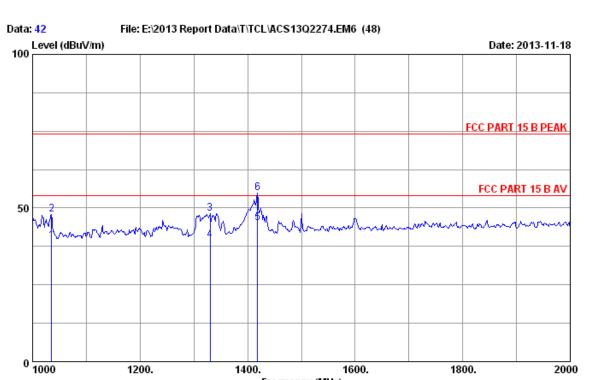
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	88.200	9.04	1.36	24.26	34.66	43.50	8.84	QP
2	112.450	12.45	1.46	21.50	35.41	43.50	8.09	QP
3	466.500	17.53	2.65	12.69	32.87	46.00	13.13	QP
4	553.800	18.82	2.90	13.36	35.08	46.00	10.92	QP
5	594.540	19.09	3.02	12.14	34.25	46.00	11.75	QP
6	742.950	20.30	3.45	9.04	32.79	46.00	13.21	QP

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

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

CC ID: W8U23F3300 Page 4-13





Frequency (MHz)

Site no. : 3m chamber(RF) Data no. : 42

Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

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

EUT : LCD TV M/N:23F3300

Power Rating : AC 120V/60Hz

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

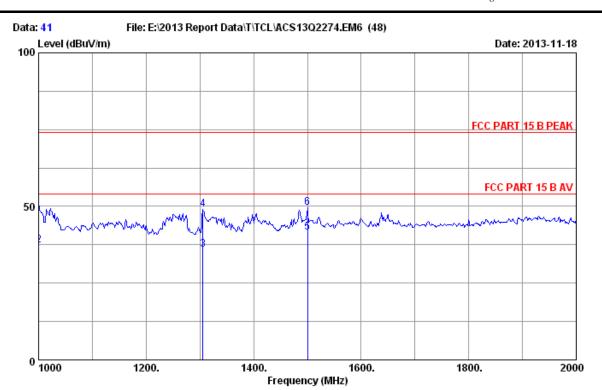
VGA:1366*768@60Hz

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	1035.640	23.56	4.31	36.25	47.63	39.25	54.00	14.75	Average
2	1035.690	23.56	4.31	36.25	56.33	47.95	74.00	26.05	Peak
3	1330.650	24.85	4.90	35.80	54.13	48.08	74.00	25.92	Peak
4	1330.670	24.85	4.90	35.80	45.59	39.54	54.00	14.46	Average
5	1418.580	25.24	5.08	35.67	50.44	45.09	54.00	8.91	Average
6	1418.650	25.24	5.08	35.67	60.21	54.86	74.00	19.14	Peak

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

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

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Site no. : 3m chamber(RF) Data no. : 41
Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

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

EUT : LCD TV M/N:23F3300

Power Rating : AC 120V/60Hz

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

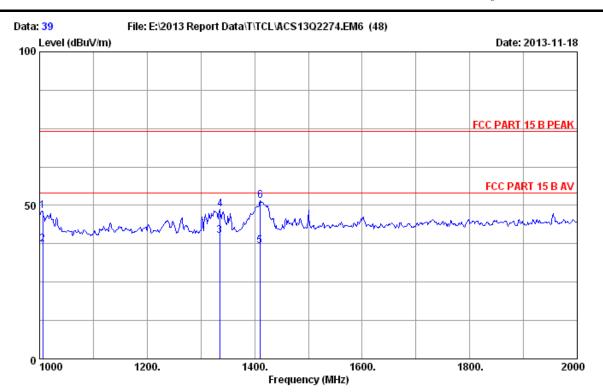
VGA:1366*768@60Hz

		Ant.	Cable	AMP		Emissior	ı		
No.	Freq. (MHz)	Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1000.260	23.40	4.24	36.30	59.74	51.08	74.00	22.92	Peak
2	1000.540	23.40	4.24	36.30	45.89	37.23	54.00	16.77	Average
3	1305.280	24.74	4.85	35.84	42.16	35.91	54.00	18.09	Average
4	1305.690	24.75	4.85	35.84	55.28	49.04	74.00	24.96	Peak
5	1500.470	25.60	5.24	35.55	46.32	41.61	54.00	12.39	Average
6	1500.690	25.60	5.24	35.55	54.25	49.54	74.00	24.46	Peak

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

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

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Site no. : 3m chamber(RF) Data no. : 39

Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

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

EUT : LCD TV M/N:23F3300

Power Rating : AC 120V/60Hz

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

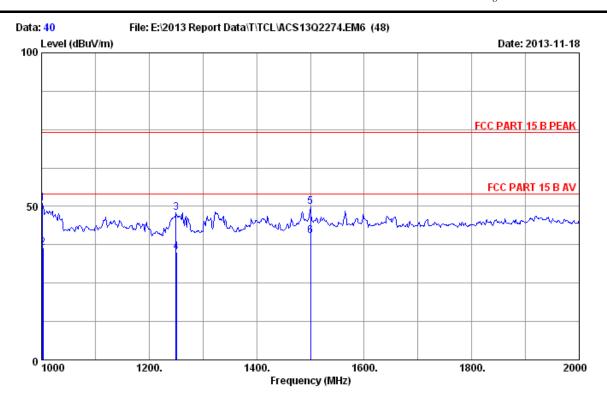
HDMI:1920*1080@60Hz

		Ant.	Cable	AMP		Emissior	ı		
No.	Freq. (MHz)	Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1005.650	23.42	4.25	36.29	56.76	48.14	74.00	25.86	Peak
2	1005.680	23.42	4.25	36.29	45.86	37.24	54.00	16.76	Average
3	1335.240	24.88	4.91	35.80	46.19	40.18	54.00	13.82	Average
4	1335.680	24.88	4.91	35.80	54.89	48.88	74.00	25.12	Peak
5	1410.120	25.20	5.06	35.68	42.13	36.71	54.00	17.29	Average
6	1410.659	25.21	5.06	35.68	56.98	51.57	74.00	22.43	Peak

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

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

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Site no. : 3m chamber(RF) Data no. : 40
Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

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

EUT : LCD TV M/N:23F3300

Power Rating : AC 120V/60Hz

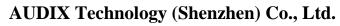
Test Mode : Running"H"Pattern And 1KHz Playing

HDMI:1920*1080@60Hz

		Ant.	Cable	AMP		Emission			
No.	Freq. (MHz)	Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1002.260	23.41	4.24	36.30	59.55	50.90	74.00	23.10	Peak
2	1002.870	23.41	4.25	36.30	45.19	36.55	54.00	17.45	Average
3	1250.260	24.50	4.74	35.92	54.68	48.00	74.00	26.00	Peak
4	1250.690	24.50	4.74	35.92	41.88	35.20	54.00	18.80	Average
5	1500.265	25.60	5.24	35.55	54.58	49.87	74.00	24.13	Peak
6	1500.690	25.60	5.24	35.55	45.04	40.33	54.00	13.67	Average

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

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





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5. DEVIATION TO TEST SPECIFICATIONS [NONE]	