APPLICATION OF CERTIFICATION For

TTE Technology Inc.

LED TV

Brand Name	Model Number
TCL	LE19HDP11

FCC ID: W8ULE24FHDP21TA

Prepared for: TTE Technology Inc.

1255 Graphite Drive, Corona, CA 92881

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- F10229-1
Date of Test : Jan.14~20, 2011
Date of Report : Feb.22, 2011



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AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID:W8ULE24FHDP21TA

TEST REPORT CERTIFICATION

Applicant : TTE Technology Inc.

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

EUT Description : LED TV

FCC ID : W8ULE24FHDP21TA

(A) MODEL NO.& Brand
Name

Brand Name

Model Number

TCL

LE19HDP11

(B) SERIAL NO. : N/A

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

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2008, ANSI C63.4-2003 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: _____ Jan.14~20, 2011 Report of date: Feb.22, 2011

Prepared by:

Reviewer by:

Playe Va/ Assistant

Richzhy Zhong / Assistant Manager

Audix Technology (Shenzhen) Co., Ltd. EMC 部門報告專用章

Stamp only for EMC Dept Report
Signature:

® 信筆科技 (深圳) 有限公司

Approved & Authorized Signer:

Ken Lu / Manager



AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID:W8ULE24FHDP21TA Page 1-1

1. DESCRIPTION OF VERSION

Edition N	lo. Date of Rev.	Summary	Report No.
0	Aug.20, 2010	Original Report	ACS-F10229
1	Feb.22, 2011	1.To add one Model No.:LE19HDP112. The diagonal of LCD panel is changed from 24 inch to 19 inch. The main chip and power supply board remain as same as 24" TV.3.Supplementary test data are recorded in this report	ACS-F10229-1



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2. SUMMARY OF STANDARDS AND RESULTS

2.1.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: 2008 ANSI C63.4: 2003	PASS	Meets Class B Limit Minimum passing margin is 14.82 dB at 0.15000 MHz				
Radiated Emission Test	FCC Part 15: 2008 ANSI C63.4: 2003	PASS	Meets Class B Limit Minimum passing margin is 3.03 dB at 416.060 MHz				



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3. GENERAL INFORMATION

3.1.Description of Device (EUT)

Description : LED TV

Model Number : Brand Name Model Number

TCL LE19HDP11

FCC ID : W8ULE24FHDP21TA

Applicant : TTE Technology Inc.

1255 Graphite Drive, Corona, CA 92881

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

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

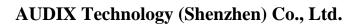
FREQUENCIES USED AND GENERATED WITHIN DEVICE					
X54M1	45-OSC54M-0Y1CR 54MHz				
LVDS CLOCK	80MHz				
IF	45.75MHZ				
DC-DC	U302->385KHz	U303->1MHz			
DDR	440MHz				
AMP IIS	384KHz				

Power Cord : Unshielded, detachable, 1.5m

Date of Test : Jan.14~20, 2011

Date of Receipt : Jan.13, 2011

Sample Type : Prototype production



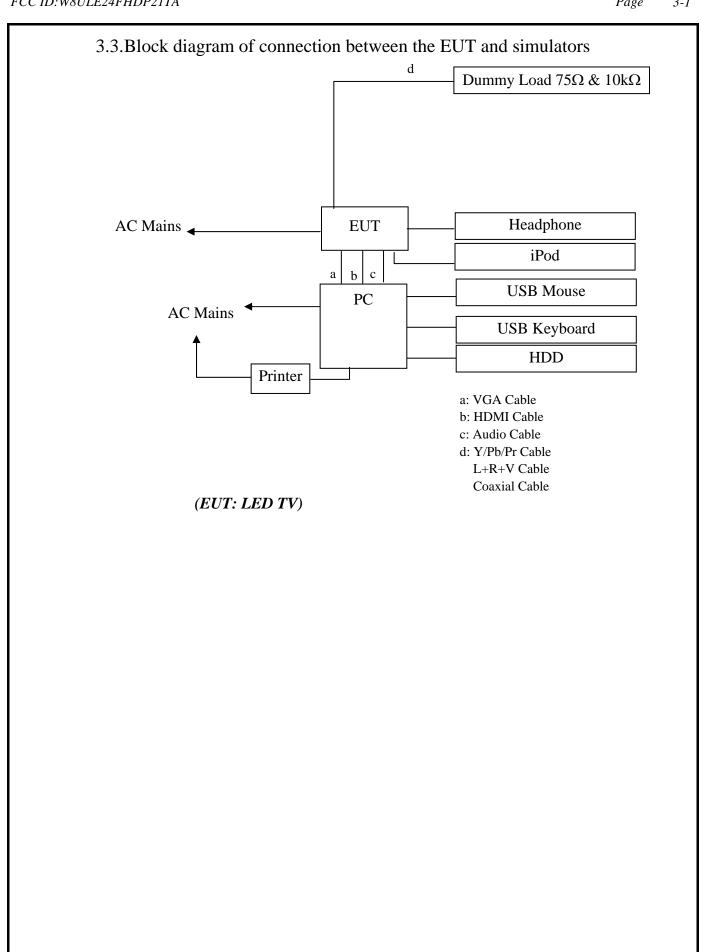


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3.2.Tested Supporting System Details

	Description	ACS No.	Manufact	urer	Model	Serial Number	Approved type	
1	PC	Test PC P	DELL	DELL		0 124XK2 X	☑FCC DoC ☑BSMI ID:R33002	
		Power Cord: Unshi Display Card: HD3	-		-			
2	USB Mouse	ACS-EMC-M02R	DELL			5120242 64	☑ FCC DoC ☑BSMI ID: R41108	
		Data Cable: shielde	ed, Undetac	hable	e, 1.8m			
		ACS-EMC-PT04	НР		C9079A	N/A	☑FCC DoC ☑BSMI ID: R33001	
3	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						
4	USB Keyboard	ACS-EMC- K02R	DELL	DELL SK-		CN-OR H656-65 890-686 -007J	IIVIRNNII II).	
		Data Cable: shielde	ed, Undetac	hable	e, 2.0m			
5	Headphone	ACS-EMC-EP01	OVAN	N	OV880V	-	□FCC DoC □BSMI ID	
	_	Cable: shielded, I	Detachable	, 4.0	m			
6	iPod	ACS-EMC-IP01 APPLE		E	A1199		☑FCC DoC ☑BSMI ID: R33057	
		Data Cable: Shielded, Detachabled, 1.0m						
7	HDD	ACS-EMC-H DD01	erasys F12-UI		12-UF	0100215-5 90031	☑FCC DoC ☑BSMI ID:	
		USB Cable: Shielded, Detachable, 1.8m						
8	Dummy Load $(10\text{K}\Omega~\&75\Omega~)$	AV In Cable: Unsl	nielded, Det	tachal	bled, 1.5m			

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AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID:W8ULE24FHDP21TA Page 3-2

3.4. 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 : 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

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

Test Item	Uncertainty		
Uncertainty for Conduction emission test	3.64 dB (9kHz to 150kHz		
in No. 1 Conduction	3.22 dB(150kHz to 30MHz)		
Uncertainty for Radiation Emission test	4.20 dB (Polarize: V)		
in 3m chamber	4.66 dB (Polarize: H)		
Uncertainty for test site temperature and	0.3℃		
humidity	2%		

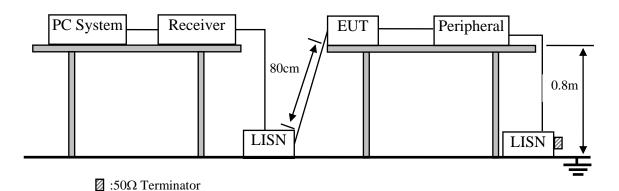
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4. POWER LINE CONDUCTED EMISSION TEST

4.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Nov.05, 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.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May.08, 10	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 10	1 Year

4.2.Block Diagram of Test Setup

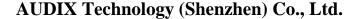


4.3. Power Line Conducted Emission Test Limits

	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.





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4.4.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.

4.4.1.LED TV (EUT)

Model Number : LE19HDP11

Serial Number : N/A

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

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turn on the power of all equipment.

- 4.5.3. PC system ran the Self-test program "EMC Test. exe" by windows XP and sent "H" Character to LED 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.
- 4.5.4. The PC system was running the program "1kHz signal Playing" and sending sound to EUT.
- 4.5.5. The other peripheral devices were driven and operated in turn during all testing.

4.6.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 ESHS10) is set at 10kHz.

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



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4.7. 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 to read Q.P values and Average values, all the test results are listed in next pages.

EUT: LED TV Model No.: LE19HDP11

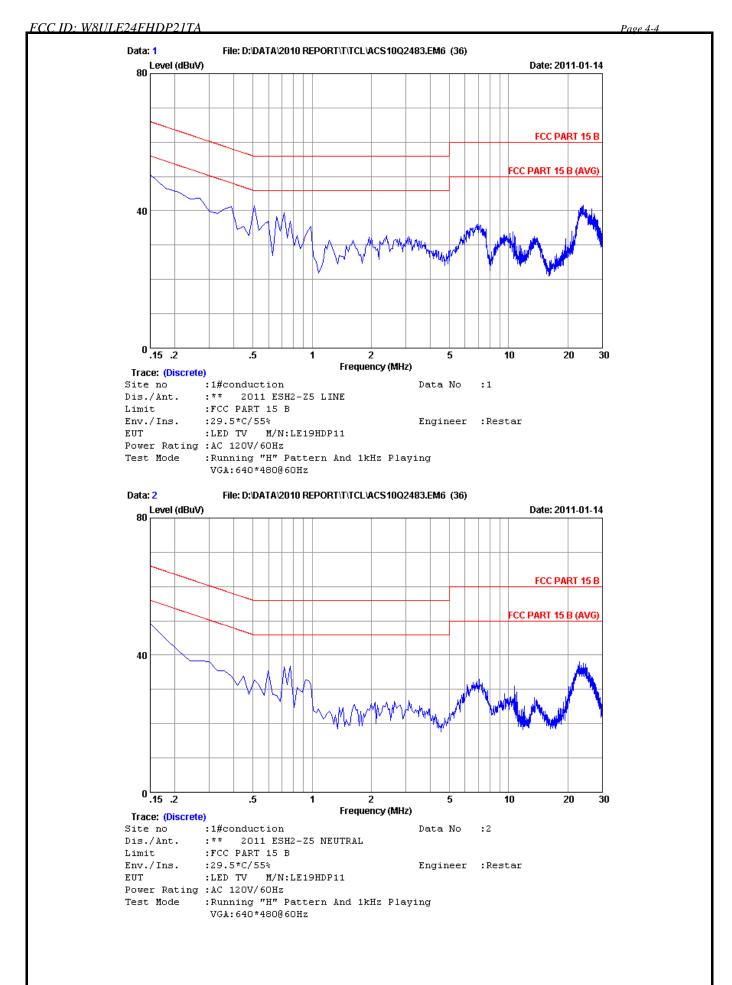
Test Date: Jan.14, 2011 Temperature: 23°C Humidity: 54%

The details of test modes are as follows:

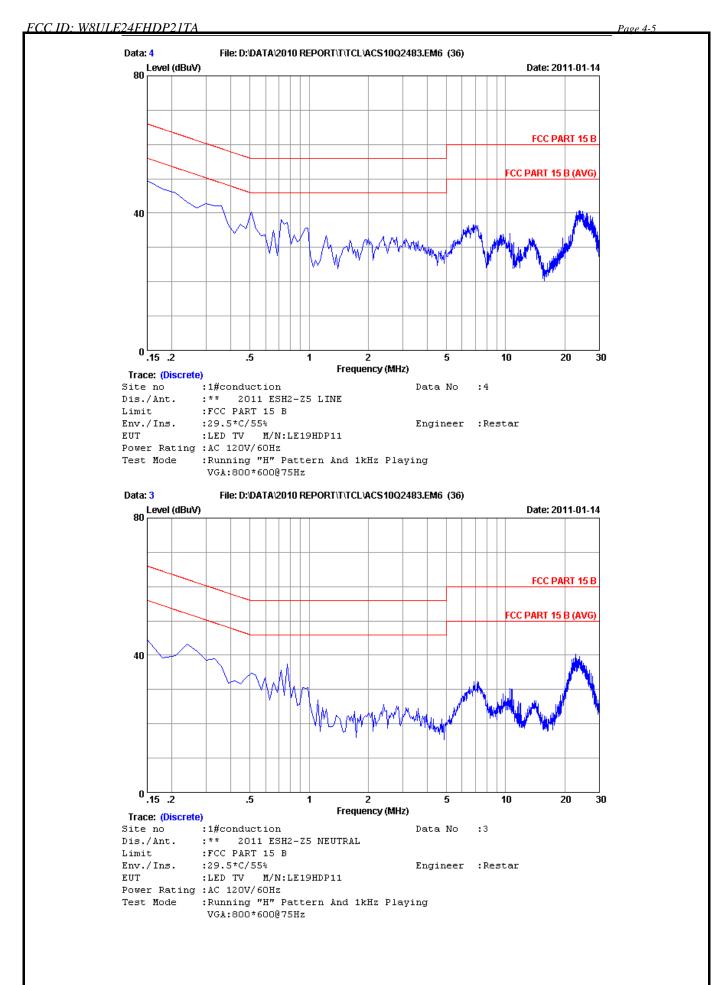
NO	Pasalution & Fraguency	Reference Test Data No.		
NO. Resolution & Frequency		LINE	NEUTRAL	
1.	VGA 640*480 60Hz	#1	#2	
2.	VGA 800*600 75Hz	#4	#3	
3.	VGA 1024*768 60Hz	#5	#6	
4. ※	HDMI1 1080P	#8	#7	
5.	HDMI2 1080P	#9	#10	

^{(*} Worst test mode)

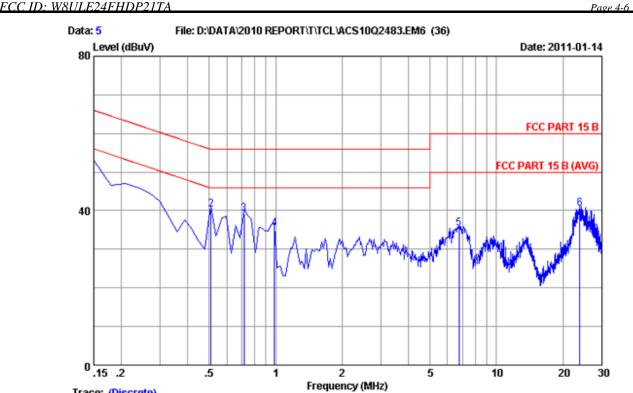












Trace: (Discrete)

Site no :1#conduction Data No

Dis./Ant. :** 2011 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :29.5*C/55% Engineer : Restar

EUT :LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

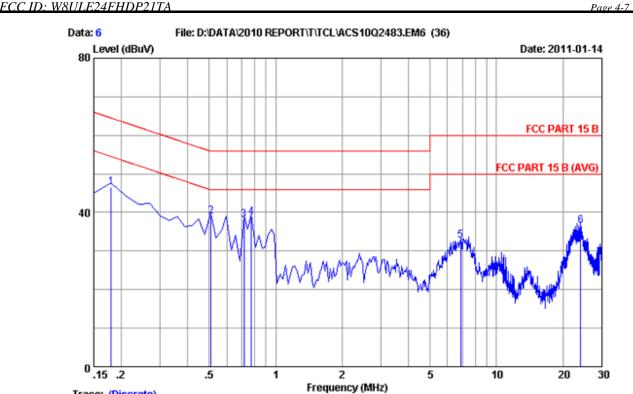
:Running "H" Pattern And 1kHz Playing Test Mode

VGA: 1024*768@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emissio Level (dBuV)	n Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.17	9.88	41.01	51.06	66.00	14.94	OP
_								_
2	0.50820	0.19	9.88	30.18	40.25	56.00	15.75	QP
3	0.71715	0.19	9.89	29.23	39.31	56.00	16.69	QP
4	0.98580	0.23	9.89	25.35	35.47	56.00	20.53	QP
5	6.747	0.46	9.96	24.95	35.37	60.00	24.63	QP
6	23.821	1.18	10.11	29.16	40.45	60.00	19.55	QP

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





Trace: (Discrete)

Site no :1#conduction Data No

Dis./Ant. :** 2011 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :29.5*C/55% Engineer :Restar

EUT :LED TV M/N:LE19HDP11

Power Rating :AC 120V/60Hz

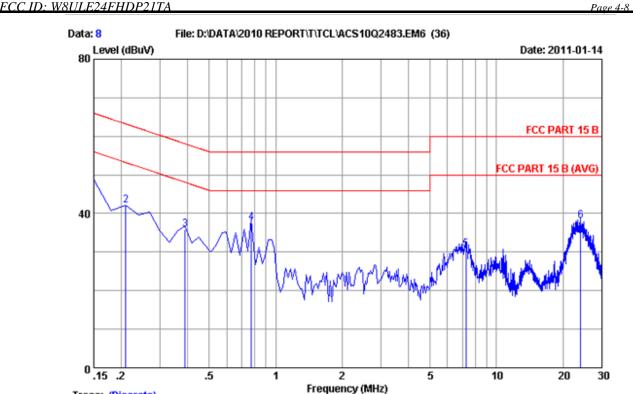
Test Mode : Running "H" Pattern And 1kHz Playing

VGA:1024*768@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emissio Level (dBuV)	n Limits (dBuV)	Margin (dB)	Remark
1	0.17985	0.21	9.88	36.51	46.60	64.49	17.89	QP
2	0.50820	0.22	9.88	28.81	38.91	56.00	17.09	QP
3	0.71715	0.23	9.89	28.05	38.17	56.00	17.83	OP
4	0.77685	0.23	9.89	28.65	38.77	56.00	17.23	QP
5	6.866	0.39	9.96	22.33	32.68	60.00	27.32	QP
6	24.060	0.88	10.11	25.63	36.62	60.00	23.38	QP
								_

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





Data No

:8

Trace: (Discrete)

Site no :1#conduction

Dis./Ant. :** 2011 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :29.5*C/55% Engineer :Restar

EUT :LED TV M/N:LE19HDP11

Power Rating :AC 120V/60Hz

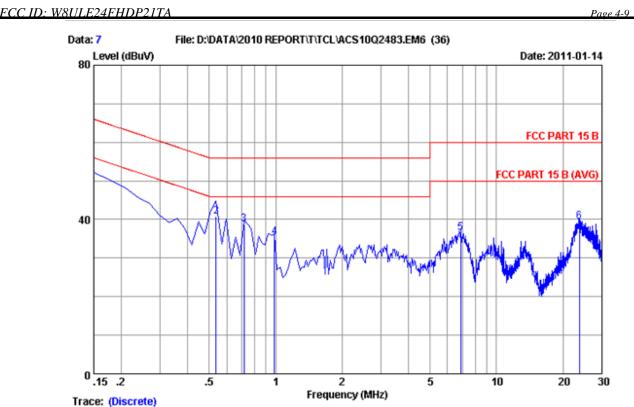
Test Mode : Running "H" Pattern And 1kHz Playing

HDMI 1:1080P

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emissio Level (dBuV)	n Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.17	9.88	37.71	47.76	66.00	18.24	QP
2	0.20970	0.17	9.88	32.14	42.19	63.22	21.03	QP
3	0.38880	0.18	9.88	25.73	35.79	58.09	22.30	QP
4	0.77685	0.20	9.89	27.57	37.66	56.00	18.34	QP
5	7.254	0.49	9.97	20.30	30.76	60.00	29.24	QP
6	24.000	1.19	10.11	26.73	38.03	60.00	21.97	QP

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





Site no :1#conduction Data No :7

Dis./Ant. :** 2011 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :29.5*C/55% Engineer :Restar

EUT :LED TV M/N:LE19HDP11

Power Rating :AC 120V/60Hz

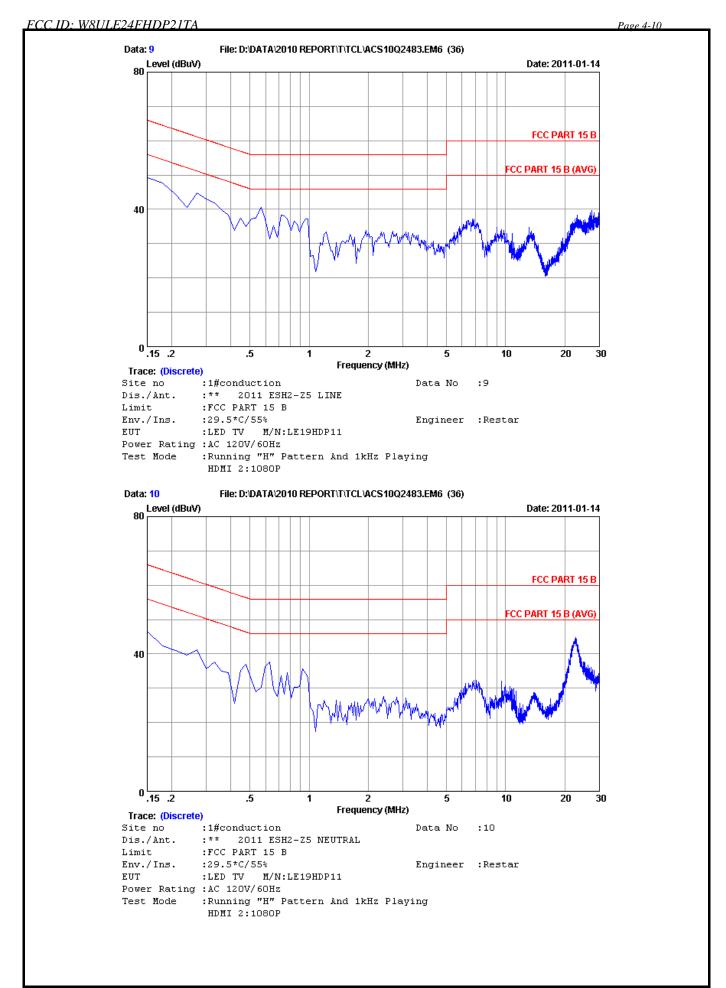
Test Mode : Running "H" Pattern And 1kHz Playing

HDMI 1:1080P

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Level (dBuV)	n Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.21	9.88	41.09	51.18	66.00	14.82	QP
2	0.53805	0.22	9.88	30.77	40.87	56.00	15.13	QP
3	0.71715	0.23	9.89	28.73	38.85	56.00	17.15	QP
4	0.98580	0.24	9.89	25.23	35.36	56.00	20.64	QP
5	6.866	0.39	9.96	26.25	36.60	60.00	23.40	QP
6	23.732	0.87	10.11	28.44	39.42	60.00	20.58	QP

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





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FCC ID: W8ULE24FHDP21TA

5. RADIATED EMISSION TEST

5.1.Test Equipment

5.1.1.For frequency range 30MHz~1000MHz

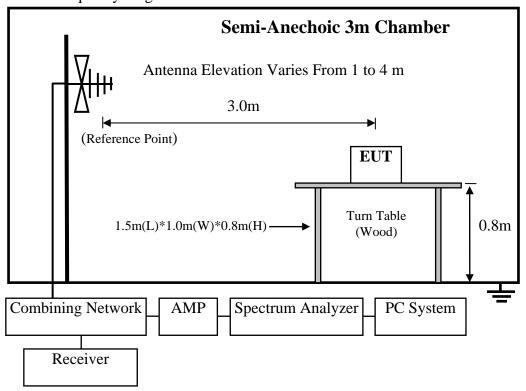
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.06,10	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 10	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 10	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 10	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Oct.26, 10	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

5.1.2. For frequency range 1GHz~6GHz

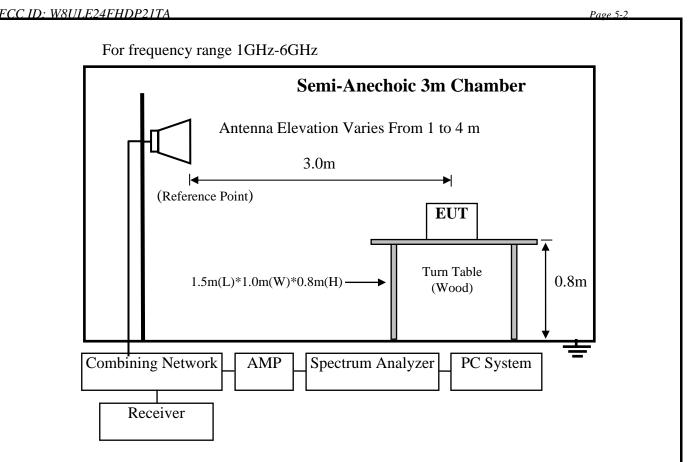
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E7405A	MY45116588	May.08, 10	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 10	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 10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

5.2.Block Diagram of Test Setup

For frequency range 30MHz-1000MHz







5.3. Radiated Emission Limit

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

5.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.4

5.5. 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.

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5.6. 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.

5.7. 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 to read Q.P values, all the test results are listed in next pages.

EUT: LED TV Model No.: LE19HDP11

Test Date: Jan.20, 2011 Temperature: 24°C Humidity: 56%

The details of test modes are as follows:

NO.	Resolution & Frequency	Reference Test Data No.			
	Resolution & Frequency	Horizontal	Vertical		
1.	VGA 640*480 60Hz	#27	#28		
2.	VGA 800*600 75Hz	#29	#30		
3.	VGA 1024*768 60Hz	#31	#32		
4.	HDMI1 1080P	#35	#36		
5. ※	HDMI2 1080P	#33	#34		

(* Worst test mode)



AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID: W8ULE24FHDP21TA

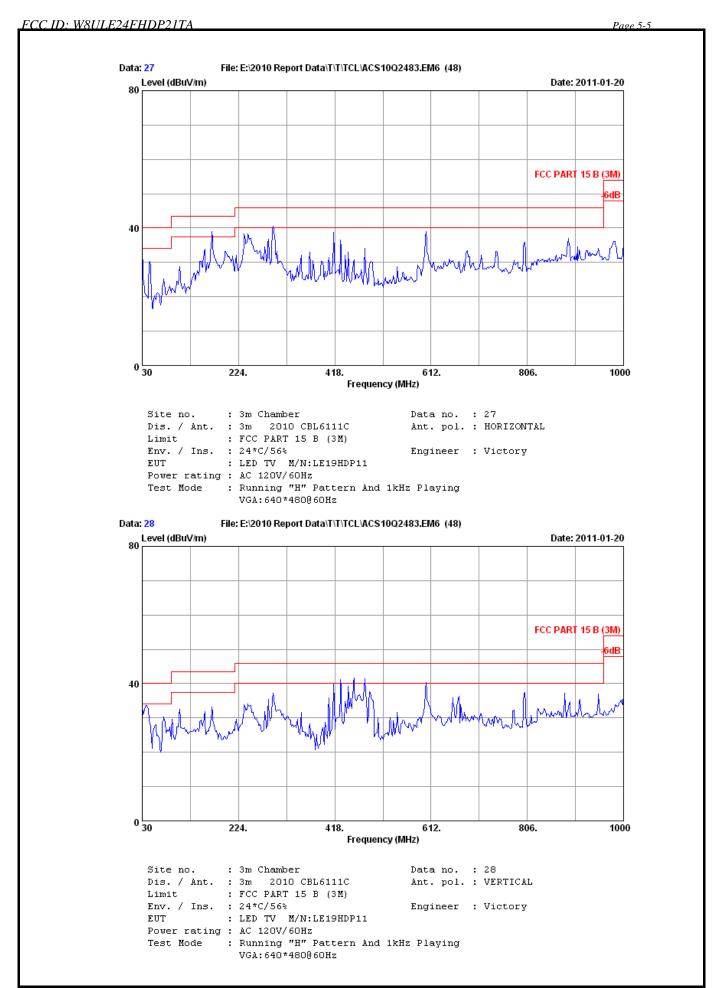
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For frequency range 1GHz~6GHz

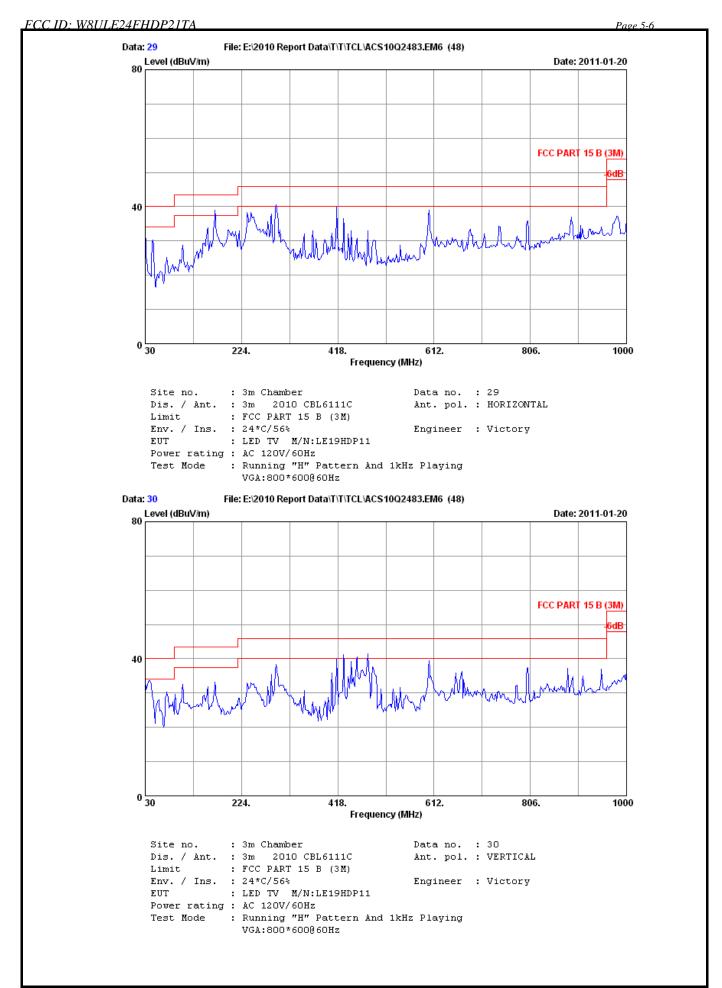
The EUT with below test modes ere measured within Anechoic Chamber and the test results listed in next pages

Test Da	te: Jan.20, 2011 Temp	erature: 24℃	Humidity: 56%
NO.	Resolution & Frequency	Reference Te	est Data No.
	Resolution & Flequency	Horizontal	Vertical
1.	VGA 1024*768 60Hz	#39, #40	#37, #38
2.	HDMI1 1080P	#47, #48	#45, #46
3.	HDMI2 1080P	#41, #42	#43, #44

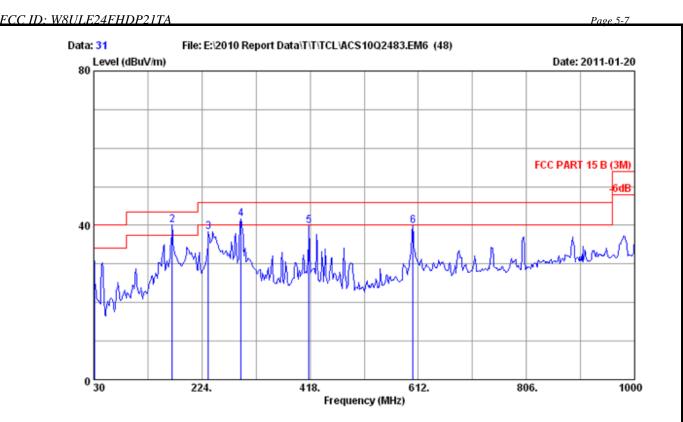












Site no. : 3m Chamber Data no. : 31

Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

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

EUT : LED TV M/N:LE19HDP11

Power rating : AC 120V/60Hz

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

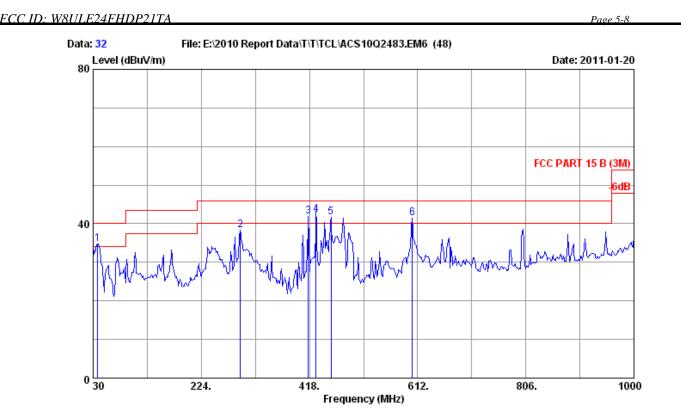
VGA: 1024*768@60Hz

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	19.44	0.62	10.70	30.76	40.00	9.24	QP
2	170.650	10.10	1.38	28.59	40.07	43.50	3.43	QP
3	235.640	11.40	2.04	24.88	38.32	46.00	7.68	QP
4	293.840	13.68	2.44	25.50	41.62	46.00	4.38	QP
5	416.060	16.80	3.01	20.00	39.81	46.00	6.19	QP
6	602.300	19.86	4.13	15.92	39.91	46.00	6.09	QP

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

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





Limit : FCC PART 15 B (3M)

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

EUT : LED TV M/N:LE19HDP11

Power rating : AC 120V/60Hz

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

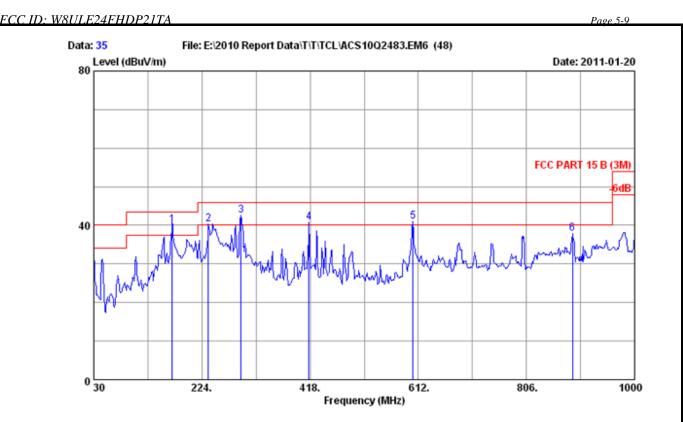
VGA:1024*768@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	37.760	15.58	0.67	18.48	34.73	40.00	5.27	QP
2	293.840	13.68	2.44	22.17	38.29	46.00	7.71	QP
3	416.060	16.80	3.01	22.16	41.97	46.00	4.03	QP
4	429.640	17.50	3.10	21.68	42.28	46.00	3.72	QP
5	456.800	17.07	3.27	21.33	41.67	46.00	4.33	QP
6	602.300	19.86	4.13	17.36	41.35	46.00	4.65	QP

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

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





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

Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

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

EUT : LED TV M/N:LE19HDP11

Power rating : AC 120V/60Hz

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

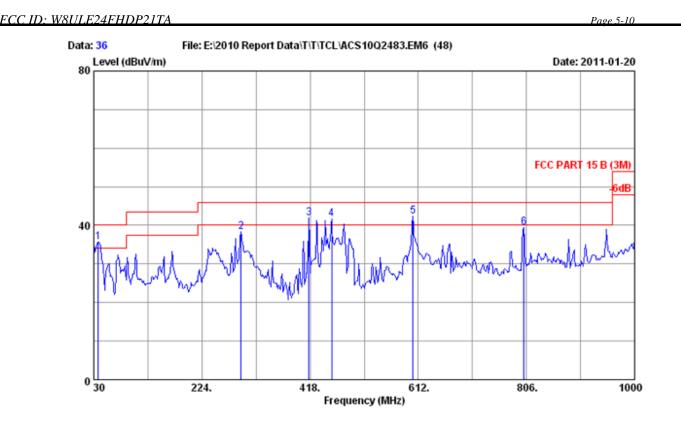
HDMI 1:1080P

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	170.650	10.10	1.38	28.59	40.07	43.50	3.43	QP
2	235.640	11.40	2.04	26.88	40.32	46.00	5.68	QP
3	293.840	13.68	2.44	26.50	42.62	46.00	3.38	QP
4	416.060	16.80	3.01	21.00	40.81	46.00	5.19	QP
5	602.300	19.86	4.13	16.92	40.91	46.00	5.09	QP
6	888.450	22.88	5.17	9.90	37.95	46.00	8.05	QP

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

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





Site no. : 3m Chamber Data no. : 36
Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

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

EUT : LED TV M/N:LE19HDP11

Power rating : AC 120V/60Hz

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

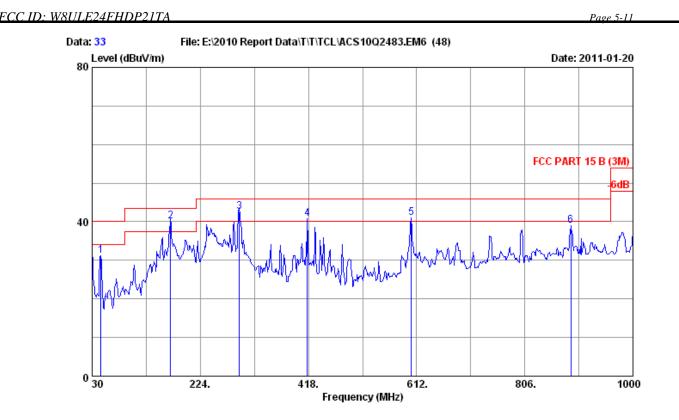
HDMI 1:1080P

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	37.760	15.58	0.67	19.48	35.73	40.00	4.27	QP
2	293.840	13.68	2.44	22.17	38.29	46.00	7.71	QP
3	416.060	16.80	3.01	22.16	41.97	46.00	4.03	QP
4	456.800	17.07	3.27	21.33	41.67	46.00	4.33	QP
5	602.300	19.86	4.13	18.36	42.35	46.00	3.65	QP
6	801.150	22.00	4.90	12.59	39.49	46.00	6.51	QP

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

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





Site no. : 3m Chamber Data no. : 33

Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

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

EUT : LED TV M/N:LE19HDP11

Power rating : AC 120V/60Hz

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

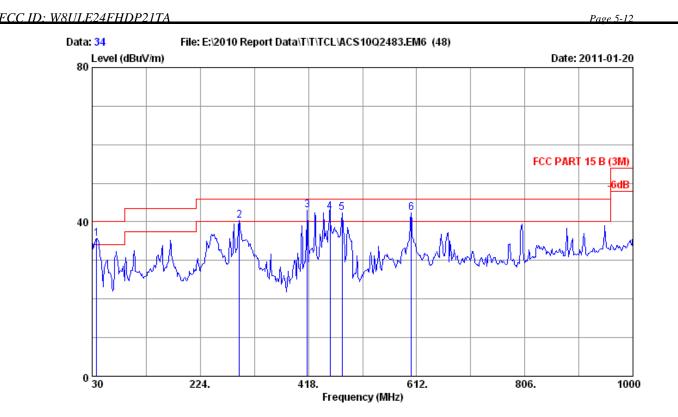
HDMI 2:1080P

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	_
1	45.520	11.38	0.74	19.08	31.20	40.00	8.80	QP	
2	170.650	10.10	1.38	28.59	40.07	43.50	3.43	QP	
3	293.840	13.68	2.44	26.50	42.62	46.00	3.38	QP	
4	416.060	16.80	3.01	21.00	40.81	46.00	5.19	QP	
5	602.300	19.86	4.13	16.92	40.91	46.00	5.09	QP	
6	888.450	22.88	5.17	10.90	38.95	46.00	7.05	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 293.840 MHz with corrected signal level of 42.62 dB $\mu V/m$ (Limit is 46.00 dB $\mu V/m$) when the antenna was at horizontal polarization and at 1.0 m high and the turn table was at 316°.
- 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.





Site no. : 3m Chamber Data no. : 34
Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

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

EUT : LED TV M/N:LE19HDP11

Power rating : AC 120V/60Hz

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

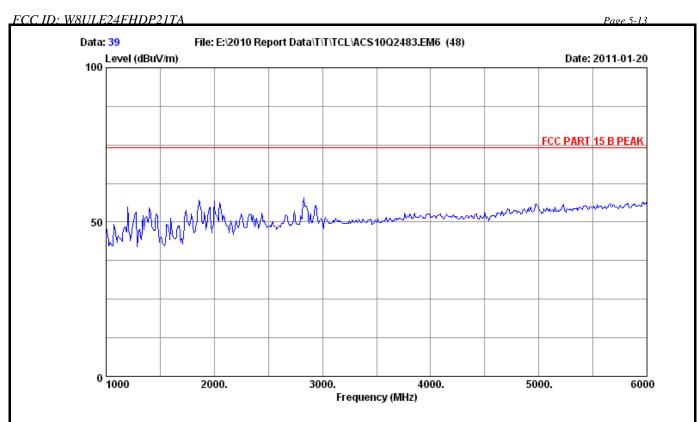
HDMI 2:1080P

_	No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
	1	37.760	15.58	0.67	19.48	35.73	40.00	4.27	QP	
	2	293.840	13.68	2.44	24.17	40.29	46.00	5.71	QP	
	3	416.060	16.80	3.01	23.16	42.97	46.00	3.03	QP	
	4	456.800	17.07	3.27	22.33	42.67	46.00	3.33	QP	
	5	478.140	18.00	3.41	21.01	42.42	46.00	3.58	QP	
	6	602.300	19.86	4.13	18.36	42.35	46.00	3.65	QP	

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

- 2. The emission levels that are 20dB below the official limit are not reported.
- 3. The worst emission was detected at 416.060Hz with corrected signal level of 42.97dB μ V/m (Limit is 46.00dB μ V/m) when the antenna was at vertical polarization and at 1.0m high and the turn table was at 236°.
- 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

AUDIX Technology (Shenzhen) Co., Ltd.



Data no. : 39

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

Limit : FCC PART 15 B PEAK

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

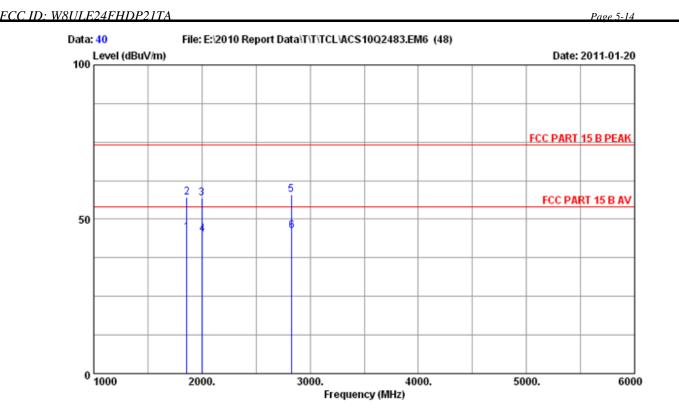
: LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

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

VGA:1024*768@60Hz





Site no. : 3m Chamber Data no. : 40

Dis. / Ant. : 3m 2009 3115 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

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

EUT : LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

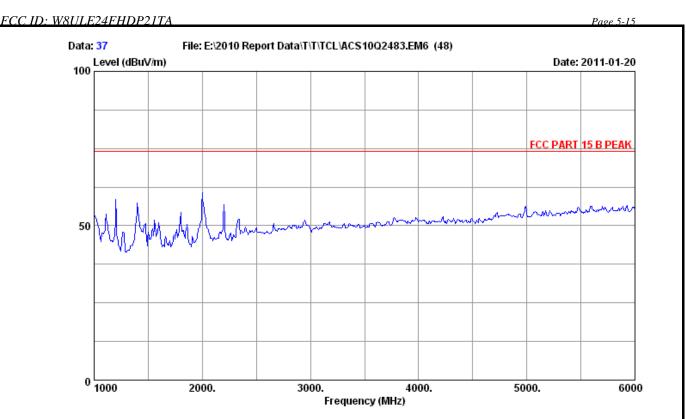
Test Mode : Running "H" Pattern And 1kHz Playing

VGA:1024*768@60Hz

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dBuV)	Reading (dBuV/m)	Emission Level (dBuV/m)	Limits (dB)	Margin (dB)	Remark
1	1860.000	26.01	5.14	34.49	49.00	45.66	54.00	8.34	Àverage
2	1860.100	26.01	5.14	34.49	60.34	57.00	74.00	17.00	Peak
3	2000.000	26.30	5.32	34.10	59.30	56.82	74.00	17.18	Peak
4	2003.000	26.30	5.32	34.10	47.60	45.12	54.00	8.88	Average
5	2825.000	30.31	6.44	33.69	54.81	57.87	74.00	16.13	Peak
6	2829.200	30.37	6.46	33.69	43.01	46.15	54.00	7.85	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.



Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

imit : FCC PART 15 B PEAK

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

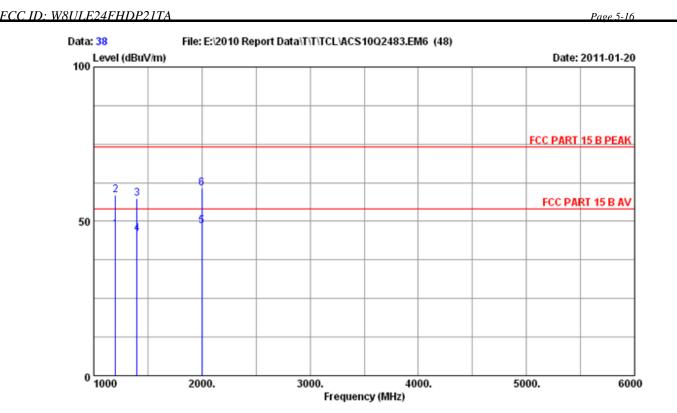
EUT : LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

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

VGA:1024*768@60Hz





Site no. : 3m Chamber Data no. : 38
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

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

EUT : LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

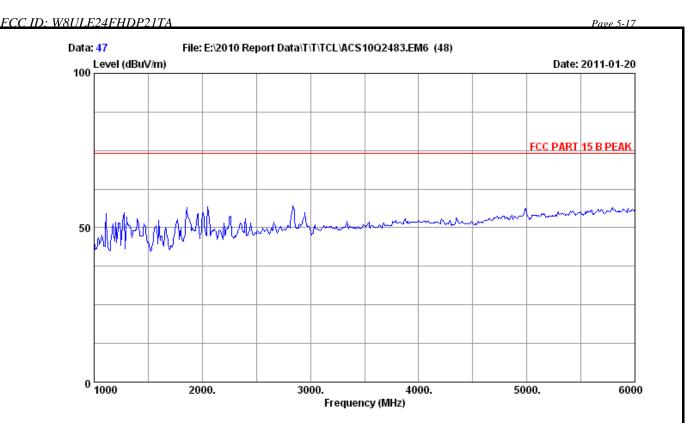
Test Mode : Running "H" Pattern And 1kHz Playing

VGA: 1024*768@60Hz

		Ant.	Cable	AMP		Emission			
No.	Freq.	Factor (dB/m)	Loss (dB)	factor (dBuV)	Reading (dBuV/m)	Level (dBuV/m)	Limits (dB)	Margin (dB)	Remark
1	1198.800	25.32	4.24	36.18	53.89	47.27	54.00	6.73	Average
2	1200.000	25.32	4.24	36.18	64.99	58.37	74.00	15.63	Peak
3	1400.000	25.23	4.52	35.66	63.21	57.30	74.00	16.70	Peak
4	1400.850	25.23	4.52	35.66	52.00	46.09	54.00	7.91	Average
5	1999.800	26.30	5.32	34.10	51.01	48.53	54.00	5.47	Average
6	2000.000	26.30	5.32	34.10	63.14	60.66	74.00	13.34	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.



Site no. : 3m Chamber Data no. : 47

Dis. / Ant. : 3m 2009 3115 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

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

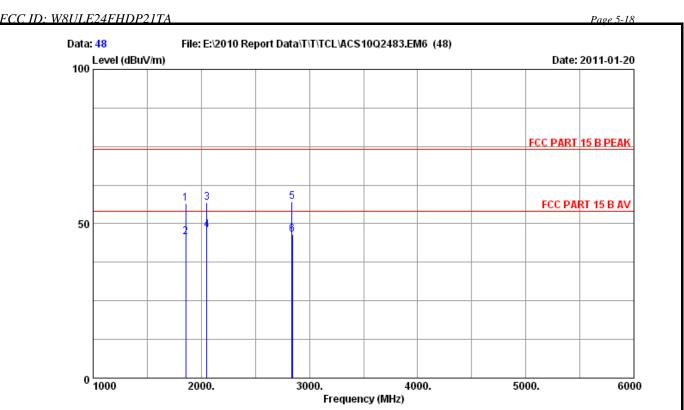
EUT : LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

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

HDMI 1:1080P

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Site no. : 3m Chamber Data no. : 48

Dis. / Ant. : 3m 2009 3115 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

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

EUT : LED TV M/N:LE19HDP11

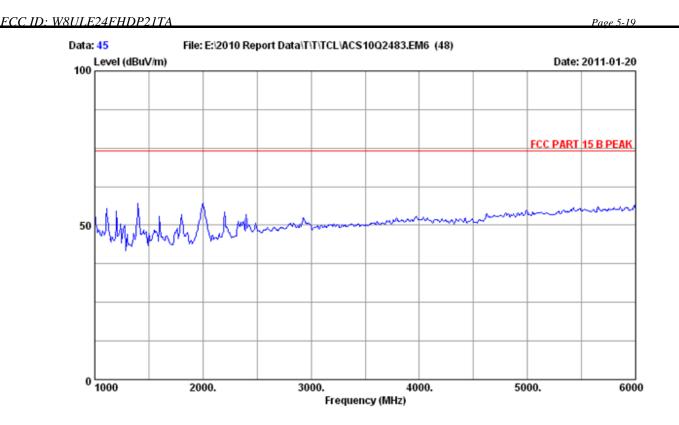
Power Rating : AC 120V/60Hz

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

HDMI 1:1080P

		Ant.	Cable	AMP		Emission			
No.	Freq.	Factor	Loss	factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	
1	1855.000	25.97	5.12	34.49	59.95	56.55	74.00	17.45	Peak
2	1856.700	25.97	5.12	34.49	49.10	45.70	54.00	8.30	Average
3	2050.000	26.61	5.39	34.07	58.93	56.86	74.00	17.14	Peak
4	2051.800	26.61	5.39	34.07	49.90	47.83	54.00	6.17	Average
5	2840.000	30.37	6.46	33.67	53.96	57.12	74.00	16.88	Peak
6	2841.600	30.37	6.46	33.67	43.29	46.45	54.00	7.55	Average

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



Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

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

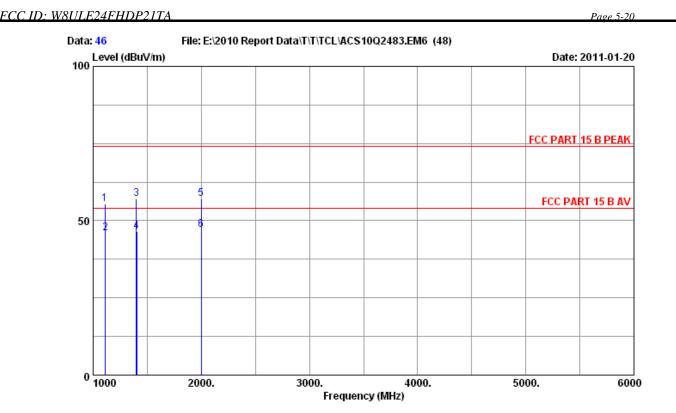
EUT : LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

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

HDMI 1:1080P





Site no. : 3m Chamber Data no. : 46
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

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

EUT : LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

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

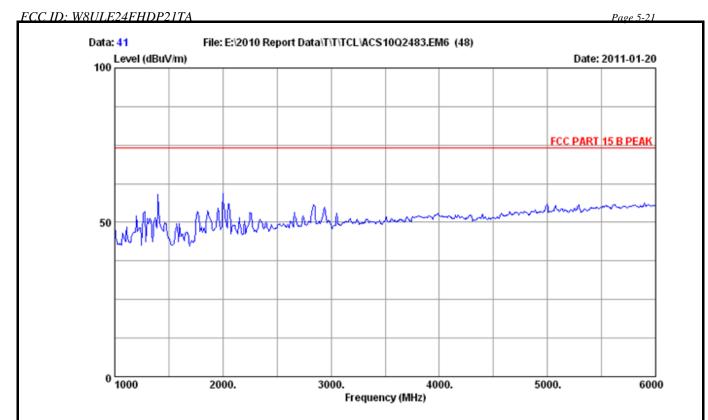
HDMI 1:1080P

		Ant.	Cable	AMP		Emission			
No.	Freq.	Factor	Loss	factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	
1	1110.000	25.36	4.10	36.44	62.52	55.54	74.00	18.46	Peak
2	1112.300	25.35	4.12	36.44	52.80	45.83	54.00	8.17	Average
3	1400.000	25.23	4.52	35.66	62.88	56.97	74.00	17.03	Peak
4	1401.600	25.23	4.52	35.66	52.50	46.59	54.00	7.41	Average
5	2000.000	26.30	5.32	34.10	59.66	57.18	74.00	16.82	Peak
6	2001.300	26.30	5.32	34.10	49.51	47.03	54.00	6.97	Average

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

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Site no. : 3m Chamber Data no. : 41

Dis. / Ant. : 3m 2009 3115 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

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

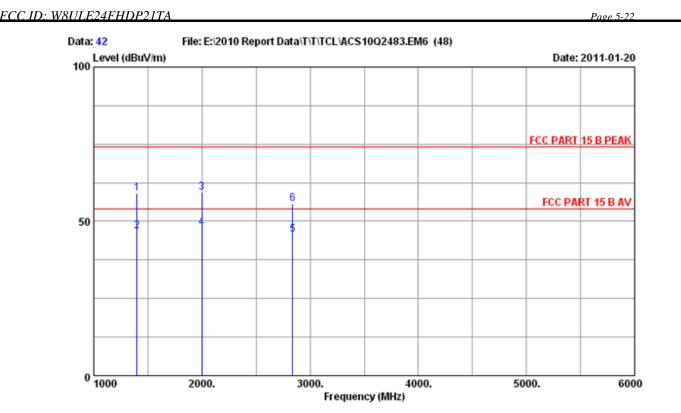
EUT : LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

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

HDMI 2:1080P





Site no. : 3m Chamber Data no. : 42

Dis. / Ant. : 3m 2009 3115 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

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

EUT : LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

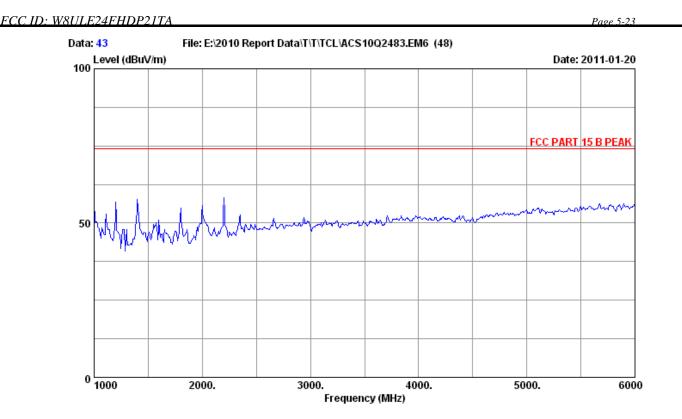
Test Mode : Running "H" Pattern And 1kHz Playing

HDMI 2:1080P

	Ant.	Cable	AMP		Emission			
Freq.	Factor	Loss	factor	Reading	Level	Limits	_	Remark
(nnz)	(UD/III)	(ив)	(abav)	(GBGV/M)	(GBGV/M)	(ив)	(ub)	
1400.000	25.23	4.52	35.66	65.08	59.17	74.00	14.83	Peak
1400.100	25.23	4.52	35.66	52.80	46.89	54.00	7.11	Average
2000.000	26.30	5.32	34.10	61.71	59.23	74.00	14.77	Peak
2001.300	26.30	5.32	34.10	50.31	47.83	54.00	6.17	Average
2839.600	30.37	6.46	33.67	42.48	45.64	54.00	8.36	Average
2840.000	30.37	6.46	33.67	52.52	55.68	74.00	18.32	Peak
	(MHz) 1400.000 1400.100 2000.000 2001.300 2839.600	Freq. Factor (MHz) (dB/m) 1400.000 25.23 1400.100 25.23 2000.000 26.30 2001.300 26.30 2839.600 30.37	Freq. Factor Loss (MHz) (dB/m) (dB) 1400.000 25.23 4.52 1400.100 25.23 4.52 2000.000 26.30 5.32 2001.300 26.30 5.32 2839.600 30.37 6.46	Freq. Factor Loss factor (MHz) (dB/m) (dB) (dBuV) 1400.000 25.23 4.52 35.66 1400.100 25.23 4.52 35.66 2000.000 26.30 5.32 34.10 2001.300 26.30 5.32 34.10 2839.600 30.37 6.46 33.67	Freq. Factor Loss factor Reading (MHz) (dB/m) (dB) (dBuV) (dBuV/m) 1400.000 25.23 4.52 35.66 65.08 1400.100 25.23 4.52 35.66 52.80 2000.000 26.30 5.32 34.10 61.71 2001.300 26.30 5.32 34.10 50.31 2839.600 30.37 6.46 33.67 42.48	Freq. Factor Loss factor Reading Level (MHz) (dB/m) (dB) (dBuV) (dBuV/m) (dBuV/m) 1400.000 25.23 4.52 35.66 65.08 59.17 1400.100 25.23 4.52 35.66 52.80 46.89 2000.000 26.30 5.32 34.10 61.71 59.23 2001.300 26.30 5.32 34.10 50.31 47.83 2839.600 30.37 6.46 33.67 42.48 45.64	Freq. Factor Loss factor Reading Level Limits (MHz) (dB/m) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 1400.000 25.23 4.52 35.66 65.08 59.17 74.00 1400.100 25.23 4.52 35.66 52.80 46.89 54.00 2000.000 26.30 5.32 34.10 61.71 59.23 74.00 2001.300 26.30 5.32 34.10 50.31 47.83 54.00 2839.600 30.37 6.46 33.67 42.48 45.64 54.00	Freq. (MHz) Factor (dB/m) Loss (dBuV) factor (dBuV/m) Reading (dBuV/m) Level (dBuV/m) Limits (dB) Margin (dB) 1400.000 25.23 4.52 35.66 65.08 59.17 74.00 14.83 1400.100 25.23 4.52 35.66 52.80 46.89 54.00 7.11 2000.000 26.30 5.32 34.10 61.71 59.23 74.00 14.77 2001.300 26.30 5.32 34.10 50.31 47.83 54.00 6.17 2839.600 30.37 6.46 33.67 42.48 45.64 54.00 8.36

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

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



Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 2009 3115 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

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

EUT : LED TV M/N:LE19HDP11

Power Rating : AC 120V/60Hz

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

HDMI 2:1080P