

Application for FCC Certificate
On Behalf of
Hisense Electric Co., Ltd.

LED LCD TV

Model No.:

Model No.	Brand
55DU60+0, 55DU6+00, 55H6607 55H6D, 55H6D+, 55H6+0D, 55H6+0D1 55H60+0D, 55H60+0D1	Hisense

FCC ID : W9HLCDF0139

Prepared For : Hisense Electric Co., Ltd.
No.218 Qianwangang Road, Economy & Technology
Development Zone, Qingdao, China

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Report No. : ACI-F17237
Date of Test : Jun 29, 2017
Date of Report : Jul 07, 2017

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TEST REPORT FOR FCC CERTIFICATE

Applicant : Hisense Electric Co., Ltd.
Manufacturer : Hisense Electric Co., Ltd.
Factory #1 : Hisense Electric Co., Ltd.
Factory #2 : Tatung Mexico S.A. de C.V.
Factory #3 : HISENSE ELECTRONICA MEXICO, S.A. DE C.V.
EUT Description : LED LCD TV
Model No. : Refer to Sec.2.1
Brand : Hisense
Power Supply : 120V/60Hz

Test Procedure Used:

***FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B
AND ANSI C63.4-2014***

The device described above is tested by Audix Technology (Shanghai) 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 radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: Refer to Sec.2.1) which was tested in 3m anechoic chamber Jun 29, 2017 is technically compliance with the FCC official limits also.

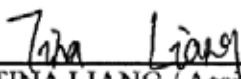
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This 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.

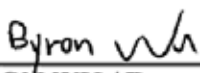
The test results for EUT's TV functions are contained in No.F17238, a Verification report.

Date of Test : Jun 29, 2017 Date of Report : Jul 07, 2017

Producer :


TINA LIANG / Assistant

Review :


BYRON WU / Deputy Assistant Manager

 For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory :
Authorized Signature(s) BYRON KWO / Assistant General 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:

Description of Test Item	Standard	Limits	Results
EMISSION			
Conducted Disturbance at the Mains Terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B AND ANSI C63.4-2014	15.107(a) Class B	Pass
		Minimum passing margin is 10.74dB at 0.408MHz	
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B AND ANSI C63.4-2014	15.109(a) Class B	Pass
		Minimum passing margin is 4.27dB at 906.482MHz (Vertical, 1.00m/120°)	

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description	:	LED LCD TV
Type of EUT	:	☒ Production ☐ Pre-product ☐ Pro-type
Model No	:	55DU60+0, 55DU6+00, 55H6607, 55H6D, 55H6D+55H6+0D, 55H6+0D1, 55H60+0D, 55H60+0D1
Note #1	:	The above models are all the same except for model number. 55H6D model is tested and recorded in the report.
Note #2	:	“+”represents any of the Arabic numeral.
Note #3	:	The tuner port comply with the 15.111 requirement.
Brand	:	Hisense
RF module FCC ID	:	2AJVQ-ZDGFMT7612U
Applicant	:	Hisense Electric Co., Ltd. No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China
Manufacturer	:	Same as Applicant
Factory #1	:	Same as Applicant
Factory #2	:	Tatung Mexico S.A. de C.V. Miguel Catalán 420, Parque Industrial Rio Bravo, Cd. Juarez, China, CP 32557
Factory #3	:	HISENSE ELECTRONICA MEXICO,S.A. DE C.V. Blvd. Hisense #3510 Parque Industrial Rosarito, C.P. 22710 Playas de Rosarito, B.C.
LCD Panel	:	Manufacturer : Hisense M/N : HD550K3U52
Tuner	:	Manufacturer : SILICON LABS M/N : Si2151-A10
Max Resolution	:	3840*2160@60Hz
HDMI Cable*4 (Lab provide)	:	Shielded, Detachable, 1.80m
Power Cord	:	Unshielded, Detachable, 1.80m, 2C

LAN Cable : Unshielded, Detachable, 1.50m

USB Cable*3 : Shielded, Detachable, 1.00m
(Lab provide)

Remark:

The EUT is a LED LCD TV which input/output ports as follows:

Side Port:

- (1) One ANT Port : Connected with ATSC SG / TV SG
- (2) One USB 1 Port : Connected with Hard-Disk
- (3) One USB 2 Port : Connected with Hard-Disk
- (4) One Service Port : Do not open to the customers
- (5) One AUDIO OUT Port : Connected with Earphone#1
- (6) One HDMI 1/MHL Port : Connected with Mobile phone
- (7) One HDMI2 Port : Connected with PC
- (8) One USB 3 Port : Connected with Hard-Disk

Back Port:

- (9) One COMPONENT IN/AV IN Port : Connected with DVD PLAYER
- (10) One LAN IN Port : Connected with PC
- (11) One Digital Audio Out Port : Connected with Audio Converter to Earphone#2
- (12) One HDMI3 Port : Connected with PC
- (13) One HDMI4 Port : Connected with DVD PLAYER

2.2 Peripherals

2.2.1 PC

Manufacturer : HP
Model Number : Pro3340
Serial Number : 6CR2512VFD
Power Cord : Unshielded, Detachable, 1.8m
Certificate : FCC DoC; CE/EMC; VCCI; C-Tick;

2.2.2 Keyboard

Manufacturer : Microsoft
Model Number : RT2300
Serial Number : 7668200662248
Data Cable : Shielded, undetachable, 1.8m
Certificate : CE/EMC, FCC DoC, VCCI, MIC, C-Tick, BSMI

2.2.3 Mouse

Manufacturer : Microsoft
Model Number : RT2300
Serial Number : 6965712071551
Data Cable : Shielded, Undetachable, 1.8m.
Certificate : CE/EMC, FCC DoC, VCCI, MIC, C-Tick, BSMI

2.2.4 Modem

Manufacturer : TP-LINK
Model Number : TM-EC5658V
Serial Number : 07123301053
Data Cable : Shielded, Detachable, 1.8m
Certificate : CCC

2.2.5 Earphone*2

Manufacturer : EDIFIER
Model Number : H210

2.2.6 TV Signal Generator

Manufacturer : FLUKE
Model Number : 54200M01
Serial Number : 814008

2.2.7 ATSC Signal Generator

Manufacturer : SENCORE
Model Number : ATSC997
Serial Number : 6790071

2.2.8 DVD PLAYER

Manufacturer : PHILIPS
Model Number : DVP3986K/93
Serial Number : KX1A0902120108
Certificate : CCC

2.2.9 Hard Disk#1

Manufacturer : Tetasy
Model Number : F12
Serial Number : A010022-486006
Data Cable : Shielded, Undetachable, 1.8m.
Certificate : CE, FCC DoC

2.2.10 Hard Disk #2

Manufacturer : Tetasy
Model Number : F12
Serial Number : A010022-4860010X
Data Cable : Shielded, Undetachable, 1.8m.
Certificate : CE, FCC DoC

2.2.11 Hard Disk #3

Manufacturer : Tetasy
Model Number : F12
Serial Number : A010022-4A60007
Data Cable : Shielded, Undetachable, 1.8m.
Certificate : CE, FCC DoC

2.2.12 Mobile Phone

Manufacturer : SUMSUNG
Model Number : GT-I9100G
Serial Number : 69351520011519
Certificate : CE/EMC

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on
(No.3 3m Chamber) Jan.15, 2015 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

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

Site Location : 3F 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai 200233, China

FCC registration Number : 91789

NVLAP Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty : U = 3.4dB

Radiated Emission Expanded Uncertainty (30-200MHz):
U = 4.3dB(Horizontal)
U = 4.6dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):
U = 4.3dB (Horizontal)
U = 5.5dB (Vertical)

Radiated Emission Expanded Uncertainty (1GHz-6GHz):
U = 5.1 dB

3 CONDUCTED EMISSION TEST

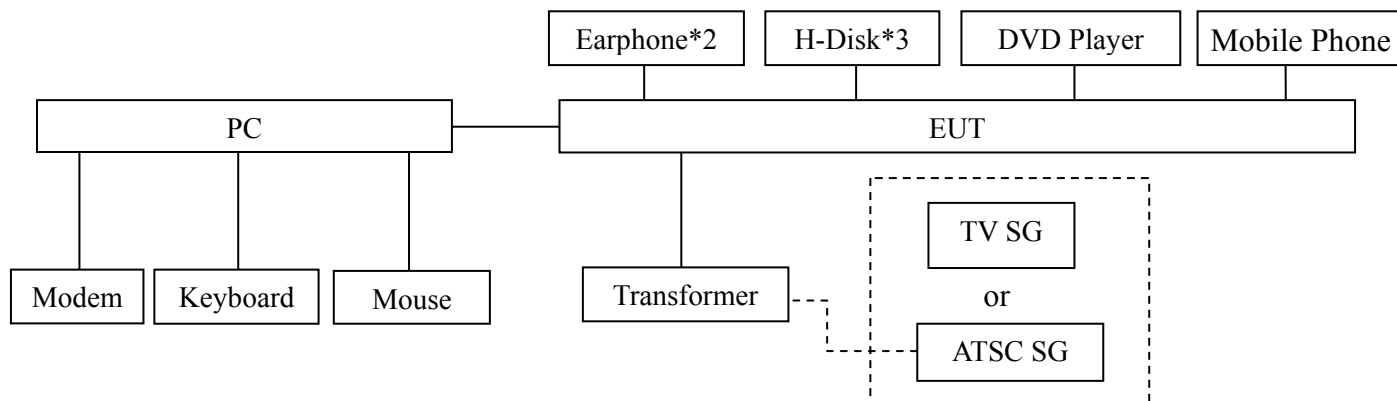
3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

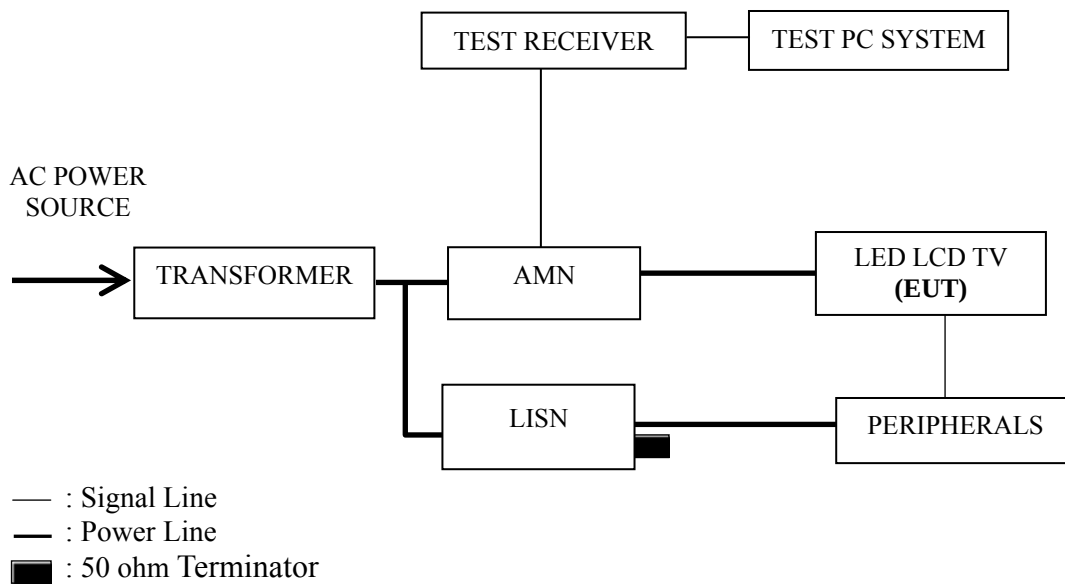
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101302	Apr 27, 2017	Apr 26, 2018
2.	Artificial Mains Network (AMN)	R&S	ENV4200	100125	Jun 25, 2017	Jun 24, 2018
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Mar 17, 2017	Mar 16, 2018
4.	50Ω Terminator	Anritsu	BNC	001	Mar 20, 2017	Sep 19, 2017
5.	Software	Audix	E3	6.111206	--	--

3.2 Block Diagram of Test Setup

3.2.1 EUT & Peripherals



3.2.2 Conducted Disturbance Test Setup



3.3 Conducted Emission Limit [FCC Part 15 Subpart B 15.107(a)]

Frequency Range (MHz)	Limits Db (μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE 1 – The lower limit shall apply at the transition frequencies.
 NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the peripherals (listed in Sec.2.2) were installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

- 3.5.1 Setup the EUT and peripherals as shown in Sec. 3.2.
- 3.5.2 Turn on the power of all equipments and the EUT.
- 3.5.3 Set the contrast & brightness of EUT to maximum.
- 3.5.4 PC system ran the self-test program “EMC Test” by windows XP and sent “H” characters to EUT through graphic card, the EUT’s screen displayed and filled with “H” pattern by its resolution (Via HDMI Input).
- 3.5.5 PC system sent the 1kHz audio signal to EUT through audio port, the EUT speak out 1kHz audio signal.
- 3.5.6 In USB Play mode, set the EUT play digital media from H-Disk.
- 3.5.7 In LAN Play mode, set the EUT play digital media through LAN port.
- 3.5.8 In WIFI mode, set the EUT play digital media through WIFI.
- 3.5.9 In MHL mode, set the EUT play digital media from mobile phone.
- 3.5.10 The other peripherals devices were driven and operated during the test.
- 3.5.11 The test modes are as follows:

Test Mode
HDMI1 3840*2160@60Hz & 1kHz playing
HDMI2 3840*2160@60Hz & 1kHz playing
HDMI3 3840*2160@30Hz & 1kHz playing
HDMI4 3840*2160@30Hz & 1kHz playing
HDMI1 1920*1080@60Hz & 1kHz playing
HDMI1 1280*1024@60Hz & 1kHz playing
HDMI1 640*480@60Hz & 1kHz playing
HDMI1080P
USB Play
LAN Play
WIFI
MHL

3.6 Test Procedures

The EUT and peripherals were connected to the power mains through an Artificial Mains Network (AMN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4 during conducted emission test.

The bandwidth of R&S Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

3.7 Test Results

< **PASS** >

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

Test Mode	Data Page
HDMI1 3840*2160@60Hz & 1kHz playing	P14
HDMI2 3840*2160@60Hz & 1kHz playing	P15
HDMI3 3840*2160@30Hz & 1kHz playing	P16
HDMI4 3840*2160@30Hz & 1kHz playing	P17
HDMI1 1920*1080@60Hz & 1kHz playing	P18
HDMI1 1280*1024@60Hz & 1kHz playing	P19
HDMI1 640*480@60Hz & 1kHz playing	P20
HDMI1080P	P21
USB Play	P22
LAN Play	P23
WIFI	P24
MHL	P25

NOTE 1 – Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – “QP” means “Quasi-Peak” values, “AV” means “Average” values.

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI1 Date of Test : Jun 29, 2017
3840*2160@60Hz &
1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	39.97	10.60	50.57	65.98	15.41	QP
	0.389	26.12	10.41	36.53	58.08	21.55	
	0.862	26.28	10.39	36.67	56.00	19.33	
	1.433	22.23	10.40	32.63	56.00	23.37	
	5.993	25.05	10.48	35.53	60.00	24.47	
	20.377	21.57	10.41	31.98	60.00	28.02	
	0.150	23.10	10.60	33.70	55.98	22.28	AV
	0.389	16.30	10.41	26.71	48.08	21.37	
	0.862	11.20	10.39	21.59	46.00	24.41	
	1.433	8.30	10.40	18.70	46.00	27.30	
	5.993	13.20	10.48	23.68	50.00	26.32	
	20.377	16.20	10.41	26.61	50.00	23.39	
Neutral	0.150	35.60	10.52	46.12	65.98	19.86	QP
	0.398	31.96	10.40	42.36	57.90	15.54	
	0.665	29.33	10.39	39.72	56.00	16.28	
	2.474	27.46	10.43	37.89	56.00	18.11	
	6.557	24.60	10.49	35.09	60.00	24.91	
	21.600	21.66	10.47	32.13	60.00	27.87	
	0.150	18.50	10.52	29.02	55.98	26.96	AV
	0.398	25.60	10.40	36.00	47.90	11.90	
	0.665	18.80	10.39	29.19	46.00	16.81	
	2.474	11.80	10.43	22.23	46.00	23.77	
	6.557	14.10	10.49	24.59	50.00	25.41	
	21.600	16.20	10.47	26.67	50.00	23.33	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI2 Date of Test : Jun 29, 2017
3840*2160@60Hz &
1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	38.94	10.60	49.54	65.91	16.37	QP
	0.393	25.62	10.41	36.03	57.99	21.96	
	1.197	26.20	10.40	36.60	56.00	19.40	
	3.840	22.41	10.45	32.86	56.00	23.14	
	6.488	25.03	10.48	35.51	60.00	24.49	
	20.814	22.85	10.41	33.26	60.00	26.74	
	0.152	23.94	10.60	34.54	55.91	21.37	AV
	0.393	15.62	10.41	26.03	47.99	21.96	
	1.197	12.20	10.40	22.60	46.00	23.40	
	3.840	9.41	10.45	19.86	46.00	26.14	
	6.488	14.03	10.48	24.51	50.00	25.49	
	20.814	16.85	10.41	27.26	50.00	22.74	
Neutral	0.152	36.20	10.52	46.72	65.91	19.19	QP
	0.406	29.40	10.40	39.80	57.73	17.93	
	0.672	28.79	10.39	39.18	56.00	16.82	
	3.107	27.23	10.44	37.67	56.00	18.33	
	6.878	22.84	10.50	33.34	60.00	26.66	
	22.063	21.04	10.47	31.51	60.00	28.49	
	0.152	17.20	10.52	27.72	55.91	28.19	AV
	0.406	24.40	10.40	34.80	47.73	12.93	
	0.672	17.79	10.39	28.18	46.00	17.82	
	3.107	21.23	10.44	31.67	46.00	14.33	
	6.878	12.84	10.50	23.34	50.00	26.66	
	22.063	15.04	10.47	25.51	50.00	24.49	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI3 Date of Test : Jun 29, 2017
3840*2160@60Hz &
1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.151	39.09	10.60	49.69	65.96	16.27	QP
	0.292	27.59	10.45	38.04	60.46	22.42	
	0.943	24.60	10.39	34.99	56.00	21.01	
	3.293	22.71	10.44	33.15	56.00	22.85	
	6.698	24.02	10.48	34.50	60.00	25.50	
	20.594	22.14	10.40	32.54	60.00	27.46	
	0.151	22.09	10.60	32.69	55.96	23.27	AV
	0.292	17.59	10.45	28.04	50.46	22.42	
	0.943	10.60	10.39	20.99	46.00	25.01	
	3.293	9.71	10.44	20.15	46.00	25.85	
	6.698	13.02	10.48	23.50	50.00	26.50	
	20.594	17.14	10.40	27.54	50.00	22.46	
Neutral	0.152	36.23	10.52	46.75	65.91	19.16	QP
	0.406	30.98	10.40	41.38	57.73	16.35	
	0.672	29.67	10.39	40.06	56.00	15.94	
	2.261	26.03	10.43	36.46	56.00	19.54	
	6.805	23.73	10.50	34.23	60.00	25.77	
	21.830	20.59	10.47	31.06	60.00	28.94	
	0.152	18.23	10.52	28.75	55.91	27.16	AV
	0.406	24.98	10.40	35.38	47.73	12.35	
	0.672	19.67	10.39	30.06	46.00	15.94	
	2.261	11.03	10.43	21.46	46.00	24.54	
	6.805	14.73	10.50	25.23	50.00	24.77	
	21.830	16.59	10.47	27.06	50.00	22.94	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI4 Date of Test : Jun 29, 2017
3840*2160@60Hz &
1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.151	38.82	10.60	49.42	65.96	16.54	QP
	0.393	25.73	10.41	36.14	57.99	21.85	
	0.943	25.79	10.39	36.18	56.00	19.82	
	2.334	22.86	10.42	33.28	56.00	22.72	
	6.285	23.12	10.48	33.60	60.00	26.40	
	19.950	20.88	10.41	31.29	60.00	28.71	
	0.151	23.82	10.60	34.42	55.96	21.54	AV
	0.393	17.73	10.41	28.14	47.99	19.85	
	0.943	12.79	10.39	23.18	46.00	22.82	
	2.334	8.86	10.42	19.28	46.00	26.72	
	6.285	14.12	10.48	24.60	50.00	25.40	
	19.950	14.88	10.41	25.29	50.00	24.71	
Neutral	0.151	34.03	10.52	44.55	65.96	21.41	QP
	0.402	29.14	10.40	39.54	57.81	18.27	
	0.672	28.59	10.39	38.98	56.00	17.02	
	2.285	26.10	10.43	36.53	56.00	19.47	
	6.805	22.89	10.50	33.39	60.00	26.61	
	21.830	22.99	10.47	33.46	60.00	26.54	
	0.151	18.03	10.52	28.55	55.96	27.41	AV
	0.402	23.14	10.40	33.54	47.81	14.27	
	0.672	19.59	10.39	29.98	46.00	16.02	
	2.285	12.10	10.43	22.53	46.00	23.47	
	6.805	12.89	10.50	23.39	50.00	26.61	
	21.830	16.99	10.47	27.46	50.00	22.54	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI1 Date of Test : Jun 29, 2017
1920*1080@60Hz &
1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.151	41.86	10.60	52.46	65.97	13.51	QP
	0.402	26.82	10.41	37.23	57.81	20.58	
	0.672	27.24	10.38	37.62	56.00	18.38	
	1.184	22.50	10.39	32.89	56.00	23.11	
	6.121	24.57	10.48	35.05	60.00	24.95	
	20.814	22.04	10.41	32.45	60.00	27.55	
	0.151	24.70	10.60	35.30	55.97	20.67	AV
	0.402	15.82	10.41	26.23	47.81	21.58	
	0.672	12.24	10.38	22.62	46.00	23.38	
	1.184	8.50	10.39	18.89	46.00	27.11	
	6.121	12.57	10.48	23.05	50.00	26.95	
	20.814	15.04	10.41	25.45	50.00	24.55	
Neutral	0.151	38.55	10.52	49.07	65.97	16.90	QP
	0.406	30.46	10.40	40.86	57.73	16.87	
	0.679	29.69	10.39	40.08	56.00	15.92	
	2.839	27.39	10.44	37.83	56.00	18.17	
	6.805	23.98	10.50	34.48	60.00	25.52	
	22.063	22.68	10.47	33.15	60.00	26.85	
	0.151	20.40	10.52	30.92	55.97	25.05	AV
	0.406	23.46	10.40	33.86	47.73	13.87	
	0.679	19.69	10.39	30.08	46.00	15.92	
	2.839	12.39	10.44	22.83	46.00	23.17	
	6.805	13.98	10.50	24.48	50.00	25.52	
	22.063	17.68	10.47	28.15	50.00	21.85	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI1 Date of Test : Jun 29, 2017
1280*1024@60Hz &
1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	41.95	10.60	52.55	65.98	13.43	QP
	0.398	26.41	10.41	36.82	57.90	21.08	
	0.953	27.60	10.39	37.99	56.00	18.01	
	1.480	23.24	10.40	33.64	56.00	22.36	
	5.535	25.99	10.47	36.46	60.00	23.54	
	21.830	21.11	10.40	31.51	60.00	28.49	
	0.150	24.20	10.60	34.80	55.98	21.18	AV
	0.398	17.41	10.41	27.82	47.90	20.08	
	0.953	11.60	10.39	21.99	46.00	24.01	
	1.480	9.24	10.40	19.64	46.00	26.36	
	5.535	13.99	10.47	24.46	50.00	25.54	
	21.830	15.11	10.40	25.51	50.00	24.49	
Neutral	0.150	38.46	10.52	48.98	65.98	17.00	QP
	0.398	31.04	10.40	41.44	57.90	16.46	
	0.672	28.69	10.39	39.08	56.00	16.92	
	2.500	26.50	10.43	36.93	56.00	19.07	
	6.627	24.46	10.49	34.95	60.00	25.05	
	21.600	20.64	10.47	31.11	60.00	28.89	
	0.150	20.80	10.52	31.32	55.98	24.66	AV
	0.398	25.04	10.40	35.44	47.90	12.46	
	0.672	18.69	10.39	29.08	46.00	16.92	
	2.500	11.50	10.43	21.93	46.00	24.07	
	6.627	14.46	10.49	24.95	50.00	25.05	
	21.600	15.64	10.47	26.11	50.00	23.89	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI1 640*480@60Hz Date of Test : Jun 29, 2017
& 1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.151	41.75	10.60	52.35	65.97	13.62	QP
	0.389	26.98	10.41	37.39	58.08	20.69	
	0.943	25.26	10.39	35.65	56.00	20.35	
	1.716	22.07	10.41	32.48	56.00	23.52	
	6.186	24.87	10.48	35.35	60.00	24.65	
	22.655	19.35	10.41	29.76	60.00	30.24	
	0.151	23.90	10.60	34.50	55.97	21.47	AV
	0.389	16.98	10.41	27.39	48.08	20.69	
	0.943	12.26	10.39	22.65	46.00	23.35	
	1.716	11.07	10.41	21.48	46.00	24.52	
	6.186	13.87	10.48	24.35	50.00	25.65	
	22.655	14.35	10.41	24.76	50.00	25.24	
Neutral	0.152	38.01	10.52	48.53	65.91	17.38	QP
	0.406	30.31	10.40	40.71	57.73	17.02	
	0.679	30.14	10.39	40.53	56.00	15.47	
	2.581	26.48	10.43	36.91	56.00	19.09	
	6.805	23.64	10.50	34.14	60.00	25.86	
	22.063	21.79	10.47	32.26	60.00	27.74	
	0.152	18.70	10.52	29.22	55.91	26.69	AV
	0.406	22.31	10.40	32.71	47.73	15.02	
	0.679	18.14	10.39	28.53	46.00	17.47	
	2.581	11.48	10.43	21.91	46.00	24.09	
	6.805	14.64	10.50	25.14	50.00	24.86	
	22.063	15.79	10.47	26.26	50.00	23.74	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : HDMI 1080P Date of Test : Jun 29, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	41.78	10.60	52.38	65.98	13.60	QP
	0.406	27.70	10.41	38.11	57.73	19.62	
	0.679	26.32	10.38	36.70	56.00	19.30	
	1.480	22.13	10.40	32.53	56.00	23.47	
	6.285	24.60	10.48	35.08	60.00	24.92	
	21.600	20.28	10.41	30.69	60.00	29.31	
	0.150	24.10	10.60	34.70	55.98	21.28	AV
	0.406	17.70	10.41	28.11	47.73	19.62	
	0.679	10.32	10.38	20.70	46.00	25.30	
	1.480	9.13	10.40	19.53	46.00	26.47	
	6.285	12.60	10.48	23.08	50.00	26.92	
	21.600	16.28	10.41	26.69	50.00	23.31	
Neutral	0.152	37.89	10.52	48.41	65.91	17.50	QP
	0.406	30.28	10.40	40.68	57.73	17.05	
	0.665	30.91	10.39	41.30	56.00	14.70	
	2.581	28.29	10.43	38.72	56.00	17.28	
	6.769	22.84	10.50	33.34	60.00	26.66	
	21.830	21.10	10.47	31.57	60.00	28.43	
	0.152	18.80	10.52	29.32	55.91	26.59	AV
	0.406	23.28	10.40	33.68	47.73	14.05	
	0.665	18.91	10.39	29.30	46.00	16.70	
	2.581	12.29	10.43	22.72	46.00	23.28	
	6.769	13.84	10.50	24.34	50.00	25.66	
	21.830	16.10	10.47	26.57	50.00	23.43	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : USB Play Date of Test : Jun 29, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	42.00	10.60	52.60	65.99	13.39	QP
	0.408	26.82	10.41	37.23	57.68	20.45	
	0.679	25.00	10.38	35.38	56.00	20.62	
	1.480	23.91	10.40	34.31	56.00	21.69	
	6.056	24.15	10.48	34.63	60.00	25.37	
	21.830	20.75	10.40	31.15	60.00	28.85	
	0.150	24.40	10.60	35.00	55.99	20.99	AV
	0.408	16.82	10.41	27.23	47.68	20.45	
	0.679	11.00	10.38	21.38	46.00	24.62	
	1.480	11.91	10.40	22.31	46.00	23.69	
	6.056	13.15	10.48	23.63	50.00	26.37	
	21.830	15.75	10.40	26.15	50.00	23.85	
Neutral	0.166	34.76	10.51	45.27	65.16	19.89	QP
	0.406	30.40	10.40	40.80	57.73	16.93	
	0.661	28.75	10.39	39.14	56.00	16.86	
	2.285	27.09	10.43	37.52	56.00	18.48	
	6.878	24.44	10.50	34.94	60.00	25.06	
	22.655	20.70	10.47	31.17	60.00	28.83	
	0.166	18.60	10.51	29.11	55.16	26.05	AV
	0.406	26.40	10.40	36.80	47.73	10.93	
	0.661	19.75	10.39	30.14	46.00	15.86	
	2.285	12.09	10.43	22.52	46.00	23.48	
	6.878	14.44	10.50	24.94	50.00	25.06	
	22.655	14.70	10.47	25.17	50.00	24.83	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : LAN Play Date of Test : Jun 29, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	41.93	10.60	52.53	65.99	13.46	QP
	0.398	27.69	10.41	38.10	57.90	19.80	
	0.953	26.51	10.39	36.90	56.00	19.10	
	1.480	21.26	10.40	31.66	56.00	24.34	
	5.419	24.70	10.47	35.17	60.00	24.83	
	21.600	20.06	10.41	30.47	60.00	29.53	
	0.150	24.50	10.60	35.10	55.99	20.89	AV
	0.398	17.69	10.41	28.10	47.90	19.80	
	0.953	11.51	10.39	21.90	46.00	24.10	
	1.480	9.26	10.40	19.66	46.00	26.34	
	5.419	12.70	10.47	23.17	50.00	26.83	
	21.600	15.06	10.41	25.47	50.00	24.53	
Neutral	0.152	38.16	10.52	48.68	65.91	17.23	QP
	0.402	31.46	10.40	41.86	57.81	15.95	
	0.672	29.12	10.39	39.51	56.00	16.49	
	2.261	28.00	10.43	38.43	56.00	17.57	
	6.488	25.13	10.49	35.62	60.00	24.38	
	21.600	20.64	10.47	31.11	60.00	28.89	
	0.152	18.90	10.52	29.42	55.91	26.49	AV
	0.402	25.46	10.40	35.86	47.81	11.95	
	0.672	19.12	10.39	29.51	46.00	16.49	
	2.261	12.00	10.43	22.43	46.00	23.57	
	6.488	15.13	10.49	25.62	50.00	24.38	
	21.600	15.64	10.47	26.11	50.00	23.89	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : WIFI Date of Test : Jun 29, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	41.35	10.60	51.95	65.91	13.96	QP
	0.402	26.09	10.41	36.50	57.81	21.31	
	0.923	27.16	10.39	37.55	56.00	18.45	
	1.480	21.72	10.40	32.12	56.00	23.88	
	6.056	24.24	10.48	34.72	60.00	25.28	
	20.162	20.03	10.41	30.44	60.00	29.56	
	0.152	22.40	10.60	33.00	55.91	22.91	AV
	0.402	16.09	10.41	26.50	47.81	21.31	
	0.923	13.16	10.39	23.55	46.00	22.45	
	1.480	8.72	10.40	19.12	46.00	26.88	
	6.056	12.24	10.48	22.72	50.00	27.28	
	20.162	16.03	10.41	26.44	50.00	23.56	
Neutral	0.151	38.74	10.52	49.26	65.97	16.71	QP
	0.406	29.54	10.40	39.94	57.73	17.79	
	0.686	30.41	10.39	40.80	56.00	15.20	
	2.309	26.12	10.43	36.55	56.00	19.45	
	6.557	24.19	10.49	34.68	60.00	25.32	
	22.535	20.05	10.47	30.52	60.00	29.48	
	0.151	20.90	10.52	31.42	55.97	24.55	AV
	0.406	24.54	10.40	34.94	47.73	12.79	
	0.686	18.41	10.39	28.80	46.00	17.20	
	2.309	10.12	10.43	20.55	46.00	25.45	
	6.557	15.19	10.49	25.68	50.00	24.32	
	22.535	15.05	10.47	25.52	50.00	24.48	

TEST ENGINEER: KALSI CHEN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 48%RH

Test Mode : MHL Date of Test : Jun 29, 2017

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	41.86	10.60	52.46	65.98	13.52	QP
	0.398	25.85	10.41	36.26	57.90	21.64	
	0.953	27.87	10.39	38.26	56.00	17.74	
	1.480	22.29	10.40	32.69	56.00	23.31	
	5.993	24.33	10.48	34.81	60.00	25.19	
	22.298	20.96	10.40	31.36	60.00	28.64	
	0.150	24.50	10.60	35.10	55.98	20.88	AV
	0.398	17.85	10.41	28.26	47.90	19.64	
	0.953	12.87	10.39	23.26	46.00	22.74	
	1.480	10.29	10.40	20.69	46.00	25.31	
	5.993	14.33	10.48	24.81	50.00	25.19	
	22.298	16.96	10.40	27.36	50.00	22.64	
Neutral	0.152	38.15	10.52	48.67	65.91	17.24	QP
	0.408	30.54	10.40	40.94	57.68	16.74	
	0.672	28.66	10.39	39.05	56.00	16.95	
	2.581	26.77	10.43	37.20	56.00	18.80	
	6.627	23.65	10.49	34.14	60.00	25.86	
	19.950	21.39	10.48	31.87	60.00	28.13	AV
	0.152	18.70	10.52	29.22	55.91	26.69	
	0.408	26.54	10.40	36.94	47.68	10.74	
	0.672	19.66	10.39	30.05	46.00	15.95	
	2.581	12.77	10.43	23.20	46.00	22.80	
	6.627	15.65	10.49	26.14	50.00	23.86	
	19.950	16.39	10.48	26.87	50.00	23.13	

TEST ENGINEER: KALSI CHEN

4 RADIATED EMISSION TEST

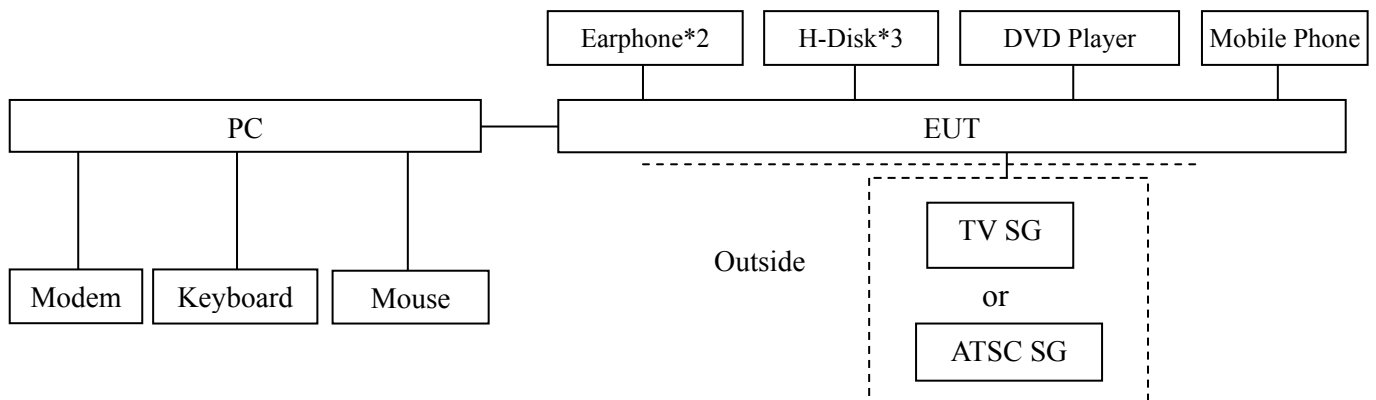
4.1 Test Equipment

The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101303	May 07, 2017	May 06, 2018
2.	Preamplifier	Agilent	8447D	2944A06664	Apr 27, 2017	Apr 26, 2018
3.	Preamplifier	HP	8449B	3008A00864	Mar 20, 2017	Mar 19, 2018
4.	Bi-log Antenna	TESEQ	CBL6112D	23192	Mar 25, 2017	Mar 24, 2018
5.	Horn Antenna	EMCO	3115	9607-4878	May 31, 2017	May 30, 2018
6.	Spectrum	Agilent	E7405A	MY45106600	Apr 26, 2017	Apr 25, 2018
7.	Software	Audix	e3	6.2007-9-10	--	--

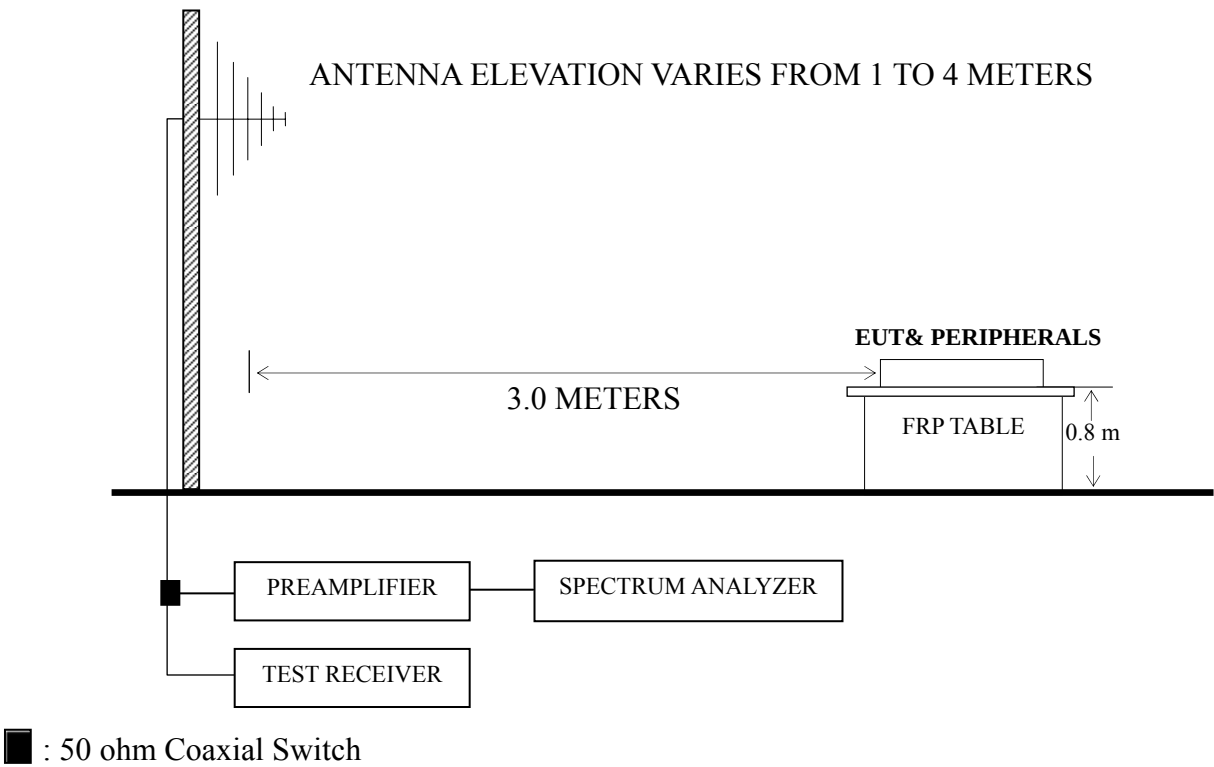
4.2 Block Diagram of Test Setup

4.2.1 EUT & Peripherals

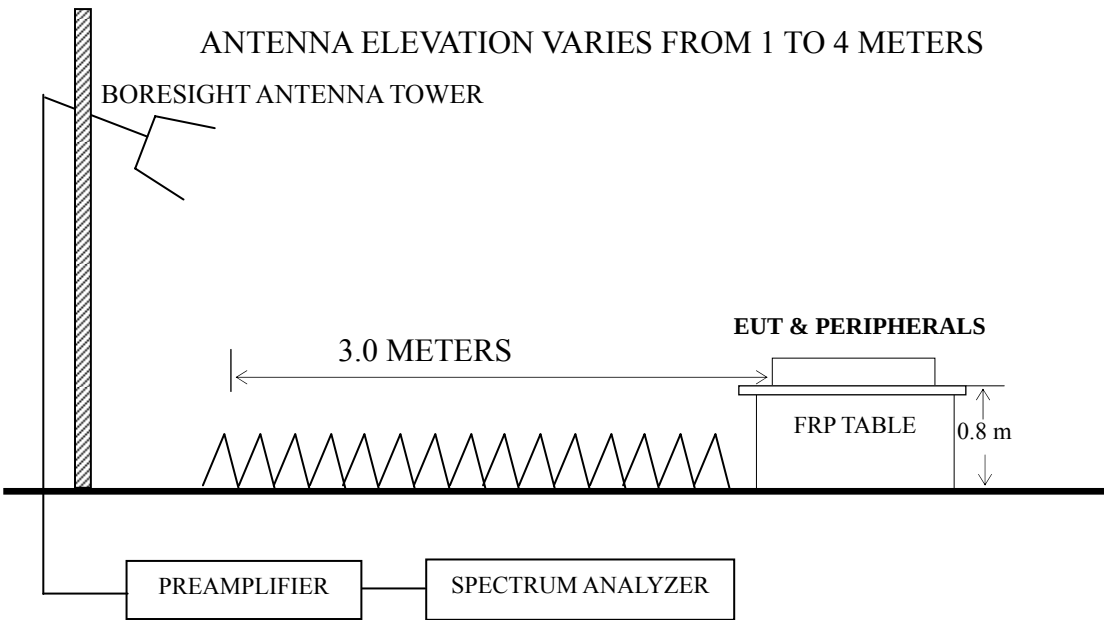


4.2.2 Radiated emission test setup

4.2.2.1 Below 1GHz



4.2.2.2 Above 1GHz



4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)]

Frequency (MHz)	Distance (m)	Field strength limits	
		($\mu\text{V/m}$)	dB ($\mu\text{V/m}$)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
NOTE 1 - Emission Level dB ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. NOTE 4 - The limits shown are based on Quasi-peak value detector. NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT.			

4.4 Test Configuration

The configuration of the EUT and peripherals are same as those used in conducted emission test.

Please refer to Sec.3.4.

4.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.3.5, except for the test setup replaced by Sec.4.2.

4.6 Test Procedures

The EUT and peripherals were placed on a FRP turntable that is 0.8 meter above ground. The FRP turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated Bilog Antenna) was used as receiving antenna. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4 requirements during radiated emission test.

The I.F. bandwidth of Test Receiver R&S ESCI was set at 120 kHz.

The frequency range from 30 MHz to 1000MHz was checked for all test modes.

The frequency range from 1 GHz to 6 GHz was checked for the maximum resolution test mode.

The test modes were done on radiated disturbance test and all the test results are listed in Sec.4.7.

4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Test Mode	Data Page
HDMI1 3840*2160@60Hz & 1kHz playing	P30-P31
HDMI2 3840*2160@60Hz & 1kHz playing	P32
HDMI3 3840*2160@30Hz & 1kHz playing	P33
HDMI4 3840*2160@30Hz & 1kHz playing	P34
HDMI1 1920*1080@60Hz & 1kHz playing	P35
HDMI1 1280*1024@60Hz & 1kHz playing	P36
HDMI1 640*480@60Hz & 1kHz playing	P37
HDMI1080P	P38
USB Play	P39
LAN Play	P40
WIFI	P41
MHL	P42

NOTE 1 – Emission Level = Antenna Factor + Cable Loss + Meter Reading. (< 1GHz);

Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading. (> 1GHz)

NOTE 2 – All readings are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI1 3840*2160@60Hz & 1kHz Playing Date of Test : Jun 29, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	78.965	21.65	9.15	0.86	--	31.66	40.00	8.34	QP
	207.123	24.55	10.14	1.51	--	36.20	43.50	7.30	
	227.691	26.52	11.22	1.58	--	39.32	46.00	6.68	
	447.982	14.51	17.57	2.17	--	34.25	46.00	11.75	
	691.987	11.79	20.30	2.67	--	34.76	46.00	11.24	
	906.482	17.58	21.10	3.05	--	41.73	46.00	4.27	
	1428.407	47.88	25.35	3.79	35.83	41.19	74.00	32.81	PK
	1771.048	55.43	26.70	4.13	35.43	50.83	74.00	23.17	
	2679.065	50.44	29.20	5.25	35.20	49.69	74.00	24.31	
	1428.407	32.10	25.35	3.79	35.83	25.41	54.00	28.59	AV
	1771.048	40.88	26.70	4.13	35.43	36.28	54.00	17.72	
	2679.065	36.46	29.20	5.25	35.20	35.71	54.00	18.29	

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI1 3840*2160@60Hz & 1kHz Playing Date of Test : Jun 29, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Vertical	30.962	16.35	18.21	0.56	--	35.12	40.00	4.88	QP
	70.090	26.89	7.70	0.82	--	35.41	40.00	4.59	
	138.874	18.07	12.39	1.23	--	31.69	43.50	11.81	
	238.310	23.26	11.88	1.61	--	36.75	46.00	9.25	
	446.414	13.59	17.53	2.17	--	33.29	46.00	12.71	
	890.728	15.33	21.00	3.03	--	39.36	46.00	6.64	
	1475.227	54.03	25.52	3.86	35.77	47.64	74.00	26.36	PK
	1777.406	45.68	26.72	4.13	35.42	41.11	74.00	32.89	
	2742.200	44.93	29.47	5.32	35.20	44.52	74.00	29.48	
	1475.227	39.79	25.52	3.86	35.77	33.40	54.00	20.60	AV
	1777.406	30.73	26.72	4.13	35.42	26.16	54.00	27.84	
	2742.200	30.99	29.47	5.32	35.20	30.58	54.00	23.42	

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI2 3840*2160@60Hz Date of Test : Jun 29, 2017
& 1kHz playing

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	78.689	23.53	9.15	0.86	33.54	40.00	6.46
	121.976	21.08	13.08	1.14	35.30	43.50	8.20
	205.675	25.63	9.90	1.51	37.04	43.50	6.46
	238.310	26.18	11.88	1.61	39.67	46.00	6.33
	564.639	13.58	18.80	2.43	34.81	46.00	11.19
	890.728	17.22	21.00	3.03	41.25	46.00	4.75
Vertical	31.955	16.39	17.70	0.57	34.66	40.00	5.34
	52.025	25.07	7.70	0.73	33.50	40.00	6.50
	72.084	25.53	8.01	0.83	34.37	40.00	5.63
	238.310	23.41	11.88	1.61	36.90	46.00	9.10
	297.224	18.33	13.90	1.76	33.99	46.00	12.01
	890.728	16.75	21.00	3.03	40.78	46.00	5.22

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI3 3840*2160@60Hz Date of Test : Jun 29, 2017
& 1kHz playing

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	74.919	24.03	8.40	0.84	33.27	40.00	6.73
	116.950	18.12	13.08	1.11	32.31	43.50	11.19
	207.850	25.41	10.26	1.52	37.19	43.50	6.31
	235.816	25.40	11.76	1.60	38.76	46.00	7.24
	449.556	13.44	17.60	2.19	33.23	46.00	12.77
	906.482	16.87	21.10	3.05	41.02	46.00	4.98
Vertical	31.843	16.44	17.77	0.57	34.78	40.00	5.22
	52.025	25.97	7.70	0.73	34.40	40.00	5.60
	77.865	25.02	8.96	0.85	34.83	40.00	5.17
	215.268	24.64	11.00	1.54	37.18	43.50	6.32
	446.414	13.84	17.53	2.17	33.54	46.00	12.46
	890.728	15.34	21.00	3.03	39.37	46.00	6.63

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI4 3840*2160@60Hz Date of Test : Jun 29, 2017
& 1kHz playing

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	82.071	22.76	9.79	0.87	33.42	40.00	6.58
	205.675	25.82	9.90	1.51	37.23	43.50	6.27
	235.816	26.15	11.76	1.60	39.51	46.00	6.49
	446.414	14.36	17.53	2.17	34.06	46.00	11.94
	558.730	13.63	18.70	2.43	34.76	46.00	11.24
	890.728	17.23	21.00	3.03	41.26	46.00	4.74
Vertical	30.962	16.17	18.21	0.56	34.94	40.00	5.06
	50.942	25.48	8.03	0.73	34.24	40.00	5.76
	71.080	25.42	7.83	0.83	34.08	40.00	5.92
	219.845	24.73	10.80	1.55	37.08	46.00	8.92
	517.248	12.25	18.50	2.33	33.08	46.00	12.92
	890.728	14.18	21.00	3.03	38.21	46.00	7.79

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI1 1920*1080@60Hz Date of Test : Jun 29, 2017
& 1kHz Playing

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	83.816	22.39	10.11	0.89	33.39	40.00	6.61
	116.132	18.27	13.04	1.10	32.41	43.50	11.09
	207.123	24.05	10.14	1.51	35.70	43.50	7.80
	238.310	25.35	11.88	1.61	38.84	46.00	7.16
	447.982	12.32	17.57	2.17	32.06	46.00	13.94
	893.857	15.55	20.97	3.03	39.55	46.00	6.45
Vertical	30.962	16.34	18.21	0.56	35.11	40.00	4.89
	39.994	18.08	13.04	0.65	31.77	40.00	8.23
	75.977	25.38	8.59	0.84	34.81	40.00	5.19
	159.784	20.65	10.61	1.32	32.58	43.50	10.92
	238.310	19.46	11.88	1.61	32.95	46.00	13.05
	719.200	8.55	20.48	2.73	31.76	46.00	14.24

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI1 1280*1024@60Hz Date of Test : Jun 29, 2017
& 1kHz Playing

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	77.865	23.15	8.96	0.85	32.96	40.00	7.04
	118.186	16.91	13.12	1.12	31.15	43.50	12.35
	205.675	26.60	9.90	1.51	38.01	43.50	5.49
	238.310	26.31	11.88	1.61	39.80	46.00	6.20
	446.414	13.41	17.53	2.17	33.11	46.00	12.89
	896.997	15.82	20.93	3.03	39.78	46.00	6.22
Vertical	30.962	15.34	18.21	0.56	34.11	40.00	5.89
	50.942	26.43	8.03	0.73	35.19	40.00	4.81
	73.103	26.60	8.14	0.83	35.57	40.00	4.43
	238.310	24.17	11.88	1.61	37.66	46.00	8.34
	513.633	10.68	18.50	2.33	31.51	46.00	14.49
	900.147	10.61	20.90	3.05	34.56	46.00	11.44

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI1 640*480@60Hz & 1kHz Playing Date of Test : Jun 29, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	80.081	23.64	9.40	0.86	33.90	40.00	6.10
	116.950	18.27	13.08	1.11	32.46	43.50	11.04
	207.850	25.74	10.26	1.52	37.52	43.50	5.98
	238.310	25.93	11.88	1.61	39.42	46.00	6.58
	446.414	14.72	17.53	2.17	34.42	46.00	11.58
	900.147	17.71	20.90	3.05	41.66	46.00	4.34
Vertical	30.962	14.82	18.21	0.56	33.59	40.00	6.41
	50.942	25.20	8.03	0.73	33.96	40.00	6.04
	75.977	25.16	8.59	0.84	34.59	40.00	5.41
	158.112	19.06	10.84	1.32	31.22	43.50	12.28
	239.987	24.60	12.00	1.61	38.21	46.00	7.79
	719.200	9.82	20.48	2.73	33.03	46.00	12.97

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : HDMI1080P Date of Test : Jun 29, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	64.433	22.24	6.78	0.80	29.82	40.00	10.18
	84.702	19.16	10.24	0.90	30.30	40.00	9.70
	210.786	25.10	10.58	1.52	37.20	43.50	6.30
	231.718	26.30	11.46	1.59	39.35	46.00	6.65
	526.397	13.23	18.50	2.36	34.09	46.00	11.91
	869.130	16.20	21.00	2.98	40.18	46.00	5.82
Vertical	30.531	12.83	18.51	0.55	31.89	40.00	8.11
	77.051	25.02	8.84	0.85	34.71	40.00	5.29
	207.123	25.45	10.14	1.51	37.10	43.50	6.40
	230.907	26.23	11.38	1.59	39.20	46.00	6.80
	519.065	14.71	18.50	2.34	35.55	46.00	10.45
	890.728	15.80	21.00	3.03	39.83	46.00	6.17

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : USB Play Date of Test : Jun 29, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	77.051	21.61	8.84	0.85	31.30	40.00	8.70
	211.527	23.48	10.67	1.53	35.68	43.50	7.82
	229.293	27.31	11.26	1.58	40.15	46.00	5.85
	451.135	13.86	17.60	2.19	33.65	46.00	12.35
	558.730	12.67	18.70	2.43	33.80	46.00	12.20
	863.056	14.39	21.00	2.98	38.37	46.00	7.63
Vertical	30.424	14.66	18.58	0.55	33.79	40.00	6.21
	74.919	25.06	8.40	0.84	34.30	40.00	5.70
	232.532	21.95	11.54	1.59	35.08	46.00	10.92
	443.294	13.14	17.47	2.17	32.78	46.00	13.22
	618.537	10.64	19.70	2.55	32.89	46.00	13.11
	919.287	10.67	21.20	3.08	34.95	46.00	11.05

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : LAN Play Date of Test : Jun 29, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	80.081	22.12	9.40	0.86	32.38	40.00	7.62
	113.714	17.91	12.95	1.09	31.95	43.50	11.55
	223.733	21.99	11.00	1.57	34.56	46.00	11.44
	526.397	10.25	18.50	2.36	31.11	46.00	14.89
	742.259	8.50	20.57	2.76	31.83	46.00	14.17
	884.503	8.66	21.05	3.01	32.72	46.00	13.28
Vertical	30.638	14.67	18.43	0.56	33.66	40.00	6.34
	50.409	23.50	8.17	0.72	32.39	40.00	7.61
	73.876	24.82	8.27	0.83	33.92	40.00	6.08
	215.268	23.41	11.00	1.54	35.95	43.50	7.55
	508.258	10.80	18.48	2.31	31.59	46.00	14.41
	857.025	9.19	20.97	2.96	33.12	46.00	12.88

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : WIFI Date of Test : Jun 29, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	81.212	21.86	9.59	0.87	32.32	40.00	7.68
	118.601	17.81	13.14	1.12	32.07	43.50	11.43
	219.075	23.57	10.84	1.55	35.96	46.00	10.04
	428.019	12.72	17.27	2.13	32.12	46.00	13.88
	584.790	11.54	19.40	2.48	33.42	46.00	12.58
	839.182	9.75	20.90	2.94	33.59	46.00	12.41
Vertical	30.211	13.26	18.65	0.55	32.46	40.00	7.54
	73.359	24.83	8.18	0.83	33.84	40.00	6.16
	211.527	22.27	10.67	1.53	34.47	43.50	9.03
	463.970	13.46	17.74	2.22	33.42	46.00	12.58
	622.890	10.89	19.70	2.55	33.14	46.00	12.86
	854.025	10.42	20.93	2.96	34.31	46.00	11.69

TEST ENGINEER: LEON YUN

EUT : LED LCD TV Temperature : 22°C

Model No. : 55H6D Humidity : 60%RH

Test Mode : MHL Date of Test : Jun 29, 2017

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	78.965	23.26	9.15	0.86	33.27	40.00	6.73
	117.773	18.15	13.12	1.11	32.38	43.50	11.12
	218.309	24.82	10.84	1.55	37.21	46.00	8.79
	234.991	23.02	11.70	1.60	36.32	46.00	9.68
	568.613	13.07	18.90	2.45	34.42	46.00	11.58
	878.322	10.67	21.07	3.01	34.75	46.00	11.25
Vertical	31.731	15.06	17.85	0.57	33.48	40.00	6.52
	52.575	24.40	7.60	0.74	32.74	40.00	7.26
	77.593	23.73	8.90	0.85	33.48	40.00	6.52
	181.283	20.58	9.97	1.42	31.97	43.50	11.53
	233.349	21.14	11.54	1.59	34.27	46.00	11.73
	511.835	12.36	18.50	2.33	33.19	46.00	12.81

TEST ENGINEER: LEON YUN

5 DEVIATION TO TEST SPECIFICATIONS

None.

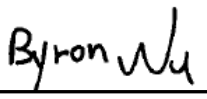
6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

Name	M/N	Manufacturer	Location
SM Contact	SMR-TSL-4-3.5-5R	Qingdao Joinset	See Internal Photos Figure 20

Note: We had required the applicant and manufacturer that all electrical and mechanical devices employed for spurious radiation suppression, including any modifications made during testing, must be incorporated in each unit marked

TEST ENGINEER:


(BYRON WU)