

CTC Laboratories,Inc.

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Т	EST REPORT				
Report No. ······:	GTI20190402F				
FCC ID:	2AHVH4916036				
Applicant·····:	Shen Zhen MTC Co.,LTD				
Address	MTC Industry Park, 1st Lilang Road, Xia street, Longgang district, Shenzhen, Ch				
Manufacturer:	Shen Zhen MTC Co.,LTD				
Address	MTC Industry Park, 1st Lilang Road, Xialilang community, Nanwan street, Longgang district, Shenzhen, China				
Product Name·····:	LED TV				
Trade Mark	AMTC, JVC, Westinghouse				
Model/Type reference······:	MHAV4960Y-16031				
Listed Model(s) ······	MHAV49**Y-16031 (* can from 0 to 9,A to Z); LT-49MAW598,LT-49MA588, LT-49MAW588, LT-49MAB588,LT-49MA395, LT-49MAW395; WR49FX2019,WR49FE2019,WR49FT2019				
Standard	47 CFR FCC Part 15 Subpart B - Unintentional Radiators ANSI C63.4: 2014				
Date of receipt of test sample:	2019-03-10				
Date of testing	2019-03-11 to 2019-03-19				
Date of issue	2019-03-19				
Result:	PASS				
Compiled by: (Printed name+signature)	Torny Fang	Torny Fang			
Supervised by:		- m Ino			
(Printed name+signature)	Cary Luo				
Approved by:		Juitench			
(Printed name+signature)	Walter Chen	<u>*</u> *			
Testing Laboratory Name	CTC Laboratories,Inc				
Address	1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China				
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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart B: Unintentional Radiators.

<u>ANSI C63.4: 2014:</u> American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz.

1.2. Report version

Revised No.	Date of issue	Description
01	2019-03-19	Original

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1.3. Test Description

FCC CFR Title 47 FCC Part 15 Subpart B / ICES-003							
Test Item	Standard Section	Result	Toot Engineer				
rest item	FCC Part 15 Subpart B	Result	Test Engineer				
Conducted Emissions Test	15.107	Pass	Will Chen				
Radiated Emission Test	15.109	Pass	Will Chen				
Antenna Power Conduction	15.111	Pass	Will Chen				
Picture Sensitivity	15.117(f)	Pass	Will Chen				
Noise figure	15.117(g)	Pass	Will Chen				

Note: The measurement uncertainty is not included in the test result.

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1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaguan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.:CN1208

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC Registration No.: 9783A

The 3m alternate test site of CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC-Registration No.: 951311

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.





Test Items	Measurement Uncertainty	Notes
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Antenna Power Conduction Measurement	2.64 dB	(1)
Picture Sensitivity Measurement	1.85 dB	(1)
Noise Figure Measurement	2.30 dB	(1)

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Lative Humidity	55 %
Air Pressure	989 hPa



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Shen Zhen MTC Co.,LTD	
Address:	MTC Industry Park, 1st Lilang Road, Xialilang community, Nanwan street, Longgang district, Shenzhen, China	
Manufacturer:	Shen Zhen MTC Co.,LTD	
Address:	MTC Industry Park, 1st Lilang Road, Xialilang community, Nanwan street, Longgang district, Shenzhen, China	

2.2. General Description of EUT

Product Name:	LED TV
Model/Type reference:	MHAV4960Y-16031
Marketing Name:	AMTC, JVC, Westinghouse
Listed Model(s):	MHAV49**Y-16031 (* can from 0 to 9,A to Z); LT-49MAW598,LT-49MA588, LT-49MAW588, LT-49MAB588,LT-49MA395, LT-49MAW395; WR49FX2019,WR49FE2019,WR49FT2019
Model Difference:	The only differences are the appearance trade name and model no.
Power supply:	INPUT: AC100-240V, 78W, 50/60Hz

2.3. Accessory Equipment information

Equipment Information						
Name	Model	S/N	Manufacturer			
USB disk	DTGE9		Kingston			
PC	p7-1035cn		HP			
Keyboard	RFK-613		ERYEFU			
Mouse	RFK-613		ERYEFU			
Printer	HP LaserJet P1007	VNFN584036	HP			
DVD Player	DV-310NC-K		Ploneer			
Cable Information						
Name	Shielded Type	Ferrite Core	Length			
VGA Cable	YES	YES	1.5M			
HDMI Cable	YES	NO	1.2M			
AV Cable	YES	YES	1.2M			
component Cable	YES	YES	1.2M			



2.4. Description of Test Modes

Test mode	ATSC	AV IN	HDMI IN	VGA IN	USB Playing	Lan	Component	NTSC
1								
2								
3								
4								
5								
6								
7								
8								

Note:

1. Is operation mode.

Pre-scan above all test mode, found below test mode which it was worse case mode.

Test item	Test mode (Worse case mode)	
Conducted emission	Mode 3	
Radiated emission	Mode 4	
Antenna Power Conduction	Mode 1	
Picture Sensitivity	Mode 8	
Noise figure	Mode 1	



2.5. Measurement Instruments List

Conducted Emission							
Item	Item Test Equipment Manufacturer Model No. Serial No. Calibrated ur						
1	LISN	R&S	ENV216	101112	Dec. 28, 2019		
2	LISN	R&S	ENV216	101113	Dec. 28, 2019		
3	EMI Test Receiver	R&S	ESCI	100920	Dec. 28, 2019		
4	UNIVERSAL RADIO COMMUNICATION	Rohde & Schwarz	CMU200	114694	Dec. 28, 2019		
5	RF cable	Schwarzbeck	AK9515E	33154	Dec. 28, 2019		

Radiated Emission							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until		
1	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 28, 2019		
2	Spectrum Analyzer	HP	8563E	02052	Dec. 28, 2019		
3	Horn Antenna	Schwarzbeck	BBHA 9120D	648	Dec. 28, 2019		
4	Pre-Amplifier	HP	8447D	1937A03050	Dec. 28, 2019		
5	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 28, 2019		
6	EMI Test Receiver	R&S	ESCI	100658	Dec. 28, 2019		
7	Antenna Mast	UC	UC3000	N/A	N/A		
8	Turn Table	UC	UC3000	N/A	N/A		
9	UNIVERSAL RADIO COMMUNICATION	Rohde & Schwarz	CMU200	114694	Dec. 28, 2019		
10	RF cable	Schwarzbeck	AK9515E	33155	Dec. 28, 2019		

Antenna Power Conduction& Picture Sensitivity& Noise figure

Antenna rower Conductiona ricture Sensitivitya Noise ligure							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until		
1	EMI Test Receiver	R&S	ESCI	100920	Dec. 28, 2019		
2	Spectrum Analyzer	R&S	FSU26	100105	Dec. 28, 2019		
3	Digital signal generator	R&S	SFC-U	N/A	Dec. 28, 2019		
4	Analog signal generator	PHILIPS	YQ-70C-1052 (PM5418)	N/A	Dec. 28, 2019		
5	RF cable	Schwarzbeck	AK9515E	33154	Dec. 28, 2019		

The Cal. Interval was one year.



3. EMC EMISSION TEST

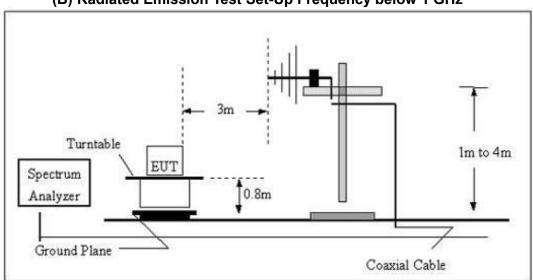
3.1. Radiated Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
ADOVE IGHZ	74.00	Peak

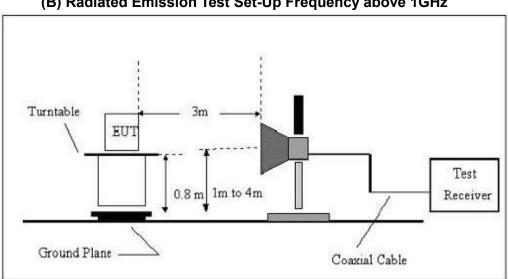
TEST CONFIGURATION



(B) Radiated Emission Test Set-Up Frequency below 1 GHz

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(B) Radiated Emission Test Set-Up Frequency above 1GHz

TEST PROCEDURE

- The EUT was tested according to ANSI C63.4:2014. 1.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated 4. for both horizontal and vertical polarization of the antenna.
- 5. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detectoris 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the guasi-peak detector and reported.
 - (3) Above 1GHz, RBW=1MHz, VBW=3MHz

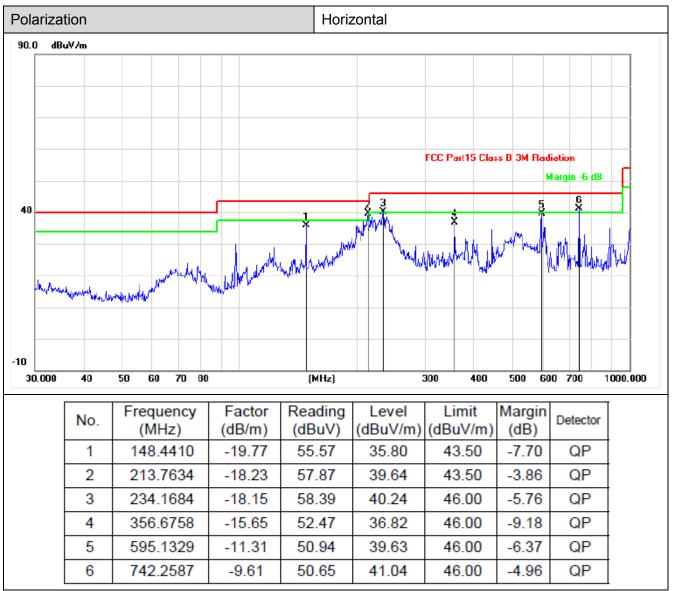
TEST MODE:

Please refer to the clause 2.3

TEST RESULTS

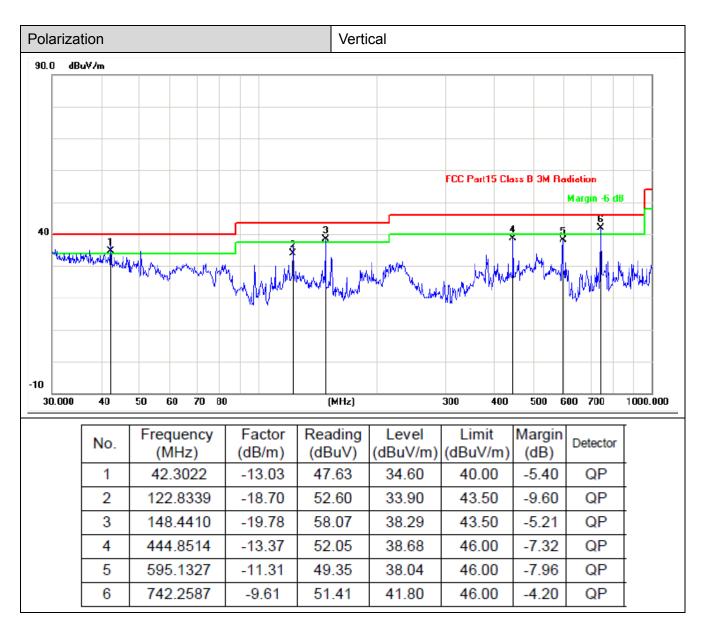


30MHz-1GHz



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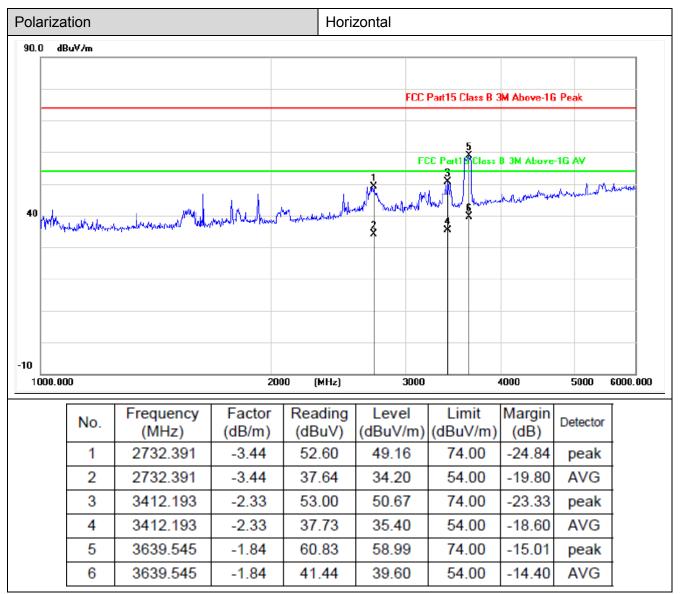




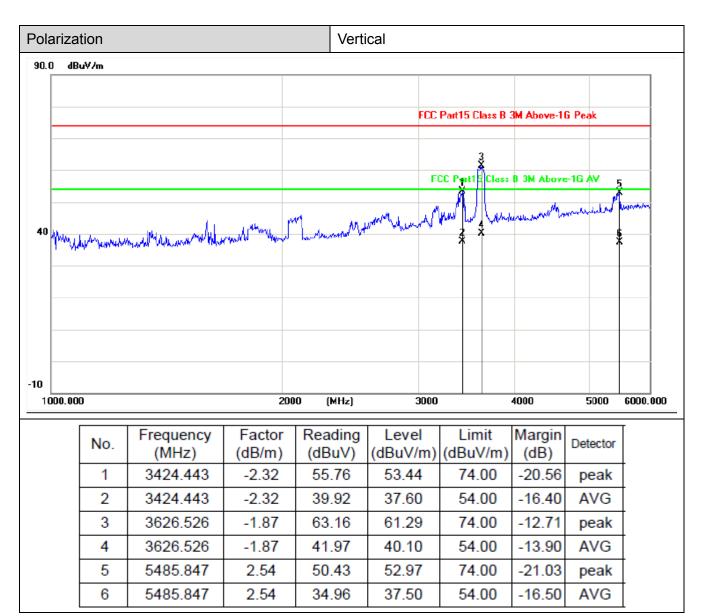
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1GHz-6GHz







REMARKS:

- 1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 3. Margin value = Limit value- Emission level.
- 4. -- Mean the PK detector measured value is below average limit.
- 5. The other emission levels were very low against the limit.





3.2. Conducted Emission (AC Mains)

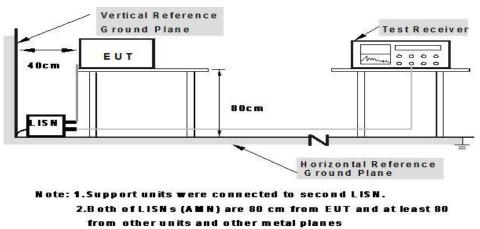
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart B Section 15.107

Frequency range (MHz)	Limit (dBuV)			
Frequency range (MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



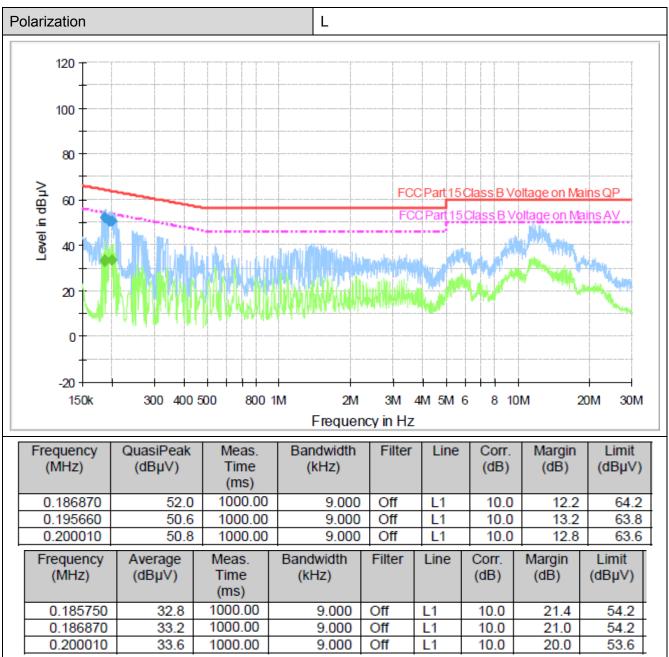
TEST PROCEDURE

- 1. The EUT was setup according to ANSI C63.4-2014.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHzusing a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

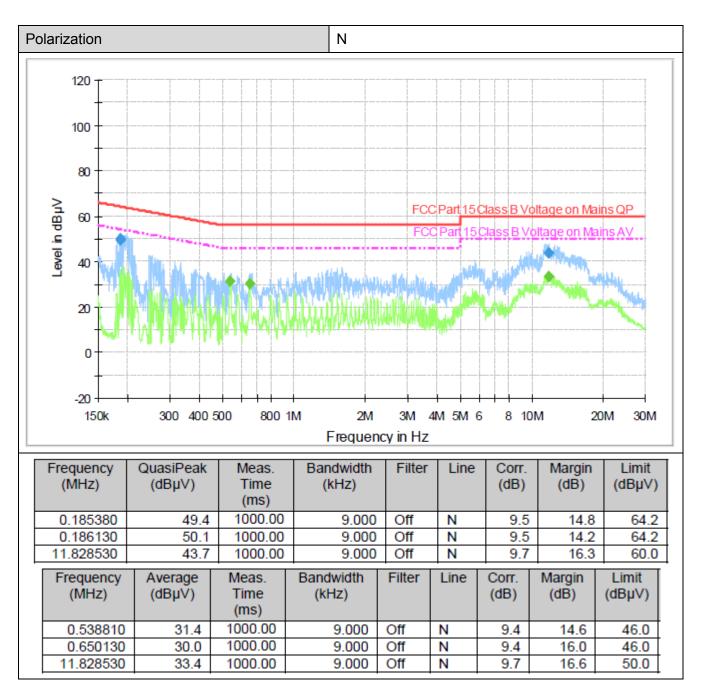
TEST RESULTS

中国国家认证认











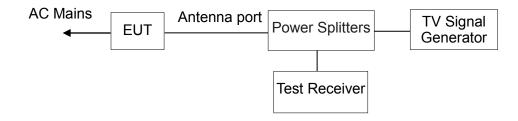
3.3. Antenna Power Conduction Measurement

LIMITS

FCC Part 15, Subpart B, Clause 15.111

Limit(nW)	Limit (dBµV)		
2	51.7		

TEST CONFIGURATION



TEST PROCEDURE

- 1. The test item can be in deliver on shielding room.
- 2. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 3. EUT receives AC power source from the outlet socket. All support equipment, if need, receives 120VAC/60Hz power from another socket.
- 4. With the $75 \sim 50\Omega$ matching network when the connected coaxial cable of impedance not matching.
- 5. The output level of the auxiliary signal generator shall be set to give the value of $70dB(\mu V)$ for TV to the input of the frequency-modulation of television receiver respectively, on a 75Ω impedance, An additional amplifier should be insert at the generator output, if necessary.
- 6. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 7. The results shall be expressed in the terms of the substitution power in nanowatt(nW), as supplied by the standard signal generator. The specified source impedance of the receiver shall be stated with the results.
- 8. When measurements are made at the antenna terminals of the equipment under test, an auxiliary signal generator shall be used to feed the equipment under test input with a standard test signal at the receiver tuning frequency.

Test results were obtained from the following equation:

Emission Level ($dB\mu V$) = Power splitter Factor (dB) + Cable Loss (dB) + Reading ($dB\mu V$) Margin (dB) = Emission Level (dB μ V) - Limit (dB μ V)





Channel	Frequency (MHz)	Measured Frequency (MHz)	Reading (dBµV)	Limit (dBµV)	Margin (dB)
2	101.000	101.000	<30.0	50.0	<20.0
2	202.000	202.000	<30.0	50.0	<20.0
3	107.000	107.000	<30.0	50.0	<20.0
3	214.000	214.000	<30.0	50.0	<20.0
4	113.000	113.000	<30.0	50.0	<20.0
4	226.000	226.000	<30.0	50.0	<20.0
5	123.000	123.000	<30.0	50.0	<20.0
Э	246.000	246.000	<30.0	50.0	<20.0
6	129.000	129.000	<30.0	50.0	<20.0
6	258.000	258.000	<30.0	50.0	<20.0
7	221.000	221.000	<30.0	50.0	<20.0
/	442.000	442.000	<30.0	50.0	<20.0
8	227.000	227.000	<30.0	50.0	<20.0
0	454.000	454.000	<30.0	50.0	<20.0
9	233.000	233.000	<30.0	50.0	<20.0
9	466.000	466.000	<30.0	50.0	<20.0
10	239.000	239.000	<30.0	50.0	<20.0
10	478.000	478.000	<30.0	50.0	<20.0
11	245.000	245.000	<30.0	50.0	<20.0
	490.000	490.000	<30.0	50.0	<20.0
10	251.000	251.000	<30.0	50.0	<20.0
12	502.000	502.000	<30.0	50.0	<20.0

Note: Negative signs (–) in the margin column signify levels below the limit.

Limit (50dBµV) was converted from the limit (2nW) at the 50 Ω measurement impedance.



Channel	H Frequency Measured Frequency (MHz) (MHz)		Reading (dBµV)	Limit (dBµV)	Margin (dB)
40	257.000	257.000	<30.0	50.0	<20.0
13	514.000	514.000	<30.0	50.0	<20.0
14	517.000	517.000	<30.0	50.0	<20.0
14	1034.000	1034.000	<30.0	50.0	<20.0
15	523.000	523.000	<30.0	50.0	<20.0
15	1046.000	1046.000	<30.0	50.0	<20.0
20	553.000	553.000	<30.0	50.0	<20.0
20	1106.000	1106.000	<30.0	50.0	<20.0
28	601.000	601.000	<30.0	50.0	<20.0
20	1202.000	1202.000	<30.0	50.0	<20.0
36	649.000	649.000	<30.0	50.0	<20.0
	1298.000	1298.000	<30.0	50.0	<20.0
45	703.000	703.000	<30.0	50.0	<20.0
45	1406.000	1406.000	<30.0	50.0	<20.0
53	751.000	751.000	<30.0	50.0	<20.0
- 55	1502.000	1502.000	<30.0	50.0	<20.0
61	799.000	799.000	<30.0	50.0	<20.0
	1598.000	1598.000	<30.0	50.0	<20.0
69	847.000	847.000	<30.0	50.0	<20.0
09	1694.000	1694.000	<30.0	50.0	<20.0

Note: Negative signs (-) in the margin column signify levels below the limit.

Limit (50dB μ V) was converted from the limit (2nW) at the 50 Ω measurement impedance.



3.4. Picture Sensitivity Measurement

TEST RESULTS

VHF Band		Antenna	UHI	UHF Band		
Channel	Frequency Range (MHz)	Input Level (dBµV)	Channel	Frequency Range (MHz)	Antenna Input Level (dBµV)	
2	55.250	26	14	471.250	27	
3	61.250	25	20	507.250	27	
4	67.250	25	26	543.250	29	
5	77.250	23	32	579.250	24	
6	83.250	26	38	615.250	29	
7	175.250	28	44	651.250	25	
8	181.250	26	50	687.250	24	
9	187.250	27	56	56 723.250		
10	193.250	29	62	759.250	26	
11	199.250	26	69	801.250	25	
12	205.250	24	/	/	/	
13	211.250	24	/	/	/	
Average(VHF)		25.75	Average(UHF)		25.9	
	Average(UHF)-Average(VHF)=0.15 dB(Limit 8.0dB)					



3.5. Noise Figure Measurement

TEST RESULTS

Channel	Frequency (MHz)	Measured Frequency (MHz)	Gain (dB)	Noise Figure (dB)	Limit (dB)
2	101.000	101.000	>30.0	3 .5	14
3	107.000	107.000	>30.0	3 .6	14
4	113.000	113.000	>30.0	3 .7	14
5	123.000	123.000	>30.0	3 .8	14
6	129.000	129.000	>30.0	3. 4	14
7	221.000	221.000	>30.0	3 .3	14
8	227.000	227.000	>30.0	3 .8	14
9	233.000	233.000	>30.0	3 .6	14
10	239.000	239.000	>30.0	3.5	14
11	245.000	245.000	>30.0	3.8	14
12	251.000	251.000	>30.0	3.6	14
13	257.000	257.000	<30.0	3 .6	14
14	517.000	517.000	<30.0	3 .6	14
15	523.000	523.000	<30.0	3.8	14
20	553.000	553.000	<30.0	3.5	14
28	601.000	601.000	<30.0	3 .8	14
36	649.000	649.000	<30.0	3.4	14
45	703.000	703.000	<30.0	3.5	14
53	751.000	751.000	<30.0	3 .8	14
61	799.000	799.000	<30.0	3 .6	14
69	847.000	847.000	<30.0	3 .4	14

Remark: The specification was provided by tuner manufacturer.

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4. EUT TEST PHOTOS

Please reference to the annex: Test Photo

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5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Please reference to the annex: External Photographs and Internal Photographs

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