



TEST REPORT

FCC PART 15 SUBPART C 15.247

Test report

On Behalf of

Yuyao Lishuai Film & Television Equipment Co.,Ltd.

For

LED STUDIO LIGHT

Model No.: 600D, 150D(II), 150X, 200D(II), 200X, 300D(II), 300X, 600D(PRO), 600X(PRO), 1000D PRO, 1000X PRO, 1200D(PRO), 1600D(PRO), 1600X(PRO), 300C, 600C, 1200C, 1600C, 400D(PRO), 400X(PRO), 2400X PRO

FCC ID: 2A3MX-600D

Prepared for: Yuyao Lishuai Film & Television Equipment Co.,Ltd.

No.55 East Zhenxing road, Yuyao city, Zhejiang province, China

Prepared By : Shenzhen HUAK Testing Technology Co., Ltd.

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Date of Test: Sept. 30, 2021 ~ Oct. 15, 2021

Date of Report: Oct. 15, 2021

Report Number: HK2109293710-1E

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TEST RESULT CERTIFICATION

Applicant's name Yuyao Lishuai Film & Television Equipment Co.,Ltd. Manufacture's Name Yuyao Lishuai Film & Television Equipment Co.,Ltd. **Product description** Trade Mark: N/A Product name.....: LED STUDIO LIGHT 600D, 150D(II), 150X, 200D(II), 200X, 300D(II), 300X, 600D(PRO), 600X(PRO), 1000D PRO, 1000X PRO, 1200D(PRO), 1600D(PRO), Model and/or type reference ..: 1600X(PRO), 300C, 600C, 1200C, 1600C, 400D(PRO), 400X(PRO), 2400X PRO 47 CFR FCC Part 15 Subpart C 15.247 Standards..... This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen HUAK Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen HUAK Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Date of Test Date (s) of performance of tests.....: Sept. 30, 2021 ~ Oct. 15, 2021 Date of Issue Oct. 15, 2021 Test Result..... Prepared by: Project Engineer

Project Supervisor

Approved by:

Reviewed by:

Technical Director

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** Modified History **

Report No.: HK2109293710-1E

Revision	Description	Issued Data	Remark		
Revision 1.0	Initial Test Report Release	Oct. 15, 2021	Jason Zhou		
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1 Test Summary

1.1 Test Description

"IA" "IA"	11/212	"IAP
Test Item	Test Requirement	Result
Antenna Requirement	§15.203/§16.247(b)(4)	PASS
Conducted Emission	FCC Part 15.207	PASS
Radiated Emissions	FCC Part 15.205/15.209	PASS
Maximum Peak Output Power	FCC Part 15.247(b)	PASS
Power Spectral Density	FCC Part 15.247 (e)	PASS
6dB Bandwidth & 99% Bandwidth	FCC Part 15.247(a)(2)	PASS
Spurious RF Conducted Emission	FCC Part 15.247(d)	PASS
Band Edge	FCC Part 15.247(d)	PASS

AFICATION.

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1.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties. 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 CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS 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. The maximum value of the uncertainty as below:

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No.	Item	Uncertainty
1	Conducted Emission Test	±2.71dB
2	All emissions, radiated(<1G)	±3.90dB
3 WAKT	All emissions, radiated(>1G)	±4.28dB
4	RF power, conducted	±0.37dB
5	Occupied Bandwidth	±3.68%

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2 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai

Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

3 General Information

3.1 General Description of EUT

-11/2	410
Manufacturer:	Yuyao Lishuai Film & Television Equipment Co.,Ltd.
Manufacturer Address:	No.55 East Zhenxing road, Yuyao city, Zhejiang province, China
EUT Name:	LED STUDIO LIGHT
Model No:	600D
Series Model:	150D(II), 150X, 200D(II), 200X, 300D(II), 300X, 600D(PRO), 600X(PRO), 1000D PRO, 1000X PRO, 1200D(PRO), 1600D(PRO), 1600X(PRO), 300C, 600C, 1200C, 1600C, 400D(PRO), 400X(PRO), 2400X PRO
Model Difference:	All model's the function, software and electric circuit are the same, only with model named different. Test sample model: 600D.
Brand Name:	N/A
Operation frequency:	2402 MHz to 2480 MHz
Channel separation:	2MHz
NUMBER OF CHANNEL:	40
Modulation Technology:	GFSK
Hardware Version:	V1.1
Software Version:	V1.0
Antenna Type:	Internal Antenna
Antenna Gain:	2dBi
Power Supply:	AC100-240V, DC36-48V
Note:	

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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Description of Channel: Frequency Frequency Frequency Channel Channel Channel (MHz) (MHz) (MHz)

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3.2 Description of Test conditions

(1) E.U.T. test conditions:

For intentional radiators, measurements of the variation of the input power or the adiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

- (2) Frequency range of radiated measurements:

 The test range will be up to the tenth harmonic of the highest fundamental frequency.
- (3) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2440 MHz) and highest (2480 MHz) channel with different data packet and conducted to determine the worst-case mode,
 - only the worst-case results are recorded in this report.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

3.3 DESCRIPTION OF TEST SETUP

Operation of EUT during Radiation testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position

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HUAK TESTING Equipments List for All Test Items

asple.	HUAN .	"IAK "	HUAL-		AK , HUAN		
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
KITTING	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 10, 2020	1 Year	
2.	L.I.S.N.	R&S	ENV216	HKE-059	Dec. 10, 2020	1 Year	
3.	Receiver	R&S	ESCI 7	HKE-010	Dec. 10, 2020	1 Year	
4.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	1 Year	
5.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 10, 2020	1 Year	
6.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	1 Year	
7.	High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Dec. 10, 2020	1 Year	
8.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 10, 2020	1 Year	
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 10, 2020	1 Year	
10.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 10, 2020	1 Year	
11.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 10, 2020	1 Year	
12	Pre-amplifier	EMCI	EMC051845SE	HKE-015	Dec. 10, 2020	1 Year	
13	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 10, 2020	1 Year	
14	High pass filter unit	Tonscend	JS0806-F	HKE-055	Dec. 10, 2020	1 Year	
15	Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A	
16	Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A	
17.	RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	» N/A	
18.	RF automatic Tonscend control unit		JS0806-2	HKE-060	Dec. 17, 2020	3 Year	
19.	RF test software	Tonscend	JS1120-4	HKE-113	N/A	N/A	
20.	RF test software	Tonscend	JS1120-3	HKE-114	N/A	N/A	
21.	RF test software	Tonscend	JS1120-1	HKE-115	N/A	N/A	
22.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	1 Year	
23.	Signal generator	Agilent	N5182A	HKE-029	Dec. 10, 2020	1 Year	

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24. Signal Generator 83630A HKE-028 Dec. 10, 2020 1 Year Agilent E4419B HKE-085 25 Power meter Agilent Dec. 10, 2020 1 Year Dec. 10, 2020 Power Sensor E9300A HKE-086 26 Agilent 1 Year RF 9kHz-1GHz HKE-117 Dec. 10, 2020 27 Times 1 Year Cable(below1GHz) RF Cable(above 1-40G HKE-034 Dec. 10, 2020 28. **Times** 1 Year 1GHz) RF Cable 170660 N/A Dec. 10, 2020 1 Year 29 Tonscend (9KHz-40GHz) 4*3*3 HKE-039 Dec. 17, 2020 30 Shielded room Shiel Hong 3 Year LB-180400KF HKE-054 Dec. 10, 2020 Schwarzbeck 1 Year High gain antenna

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5 Test Result

5.1 Antenna Requirement

5.1.1 Standard requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Internal Antenna, which use a special interface and cannot easily replace. The directional gains of antenna used for transmitting is 2dBi.

5.1.2 EUT Antenna



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5.2 Conduction Emissions Measurement

5.2.1 Applied procedures / Limit

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207, AC Power Line Conducted Emissions Limits for Licence-Exempt Radio Apparatus as below:

HUAK TEST	- HUAK TESTING	Limit (d	BuV)
	Frequency range (MHz)	Quasi-peak	Average
ESTINE	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56 FURNITE 56	46
	5-30	60	50

^{*} Decreases with the logarithm of the frequency.

5.2.2 Test procedure

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. 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 C63.10:2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10:2013
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
- 4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.

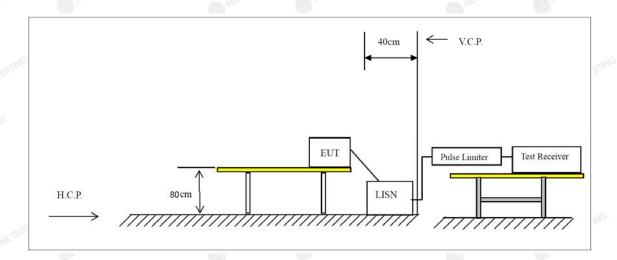
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Report No.: HK2109293710-18

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5.2.3 Test setup



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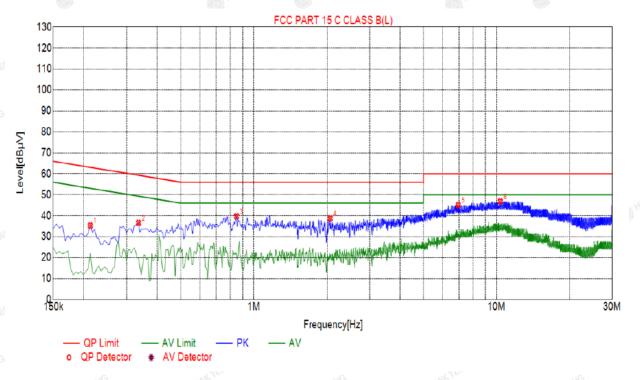
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5.2.4 Test results

Test Specification: Line



	Suspected List													
-	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре					
	1	0.2130	35.30	20.05	63.09	27.79	15.25	PK	L					
	2	0.3345	36.62	20.04	59.34	22.72	16.58	PK	L					
4	3	0.8475	39.74	20.06	56.00	16.26	19.68	PK	L					
	4	2.0625	38.75	20.15	56.00	17.25	18.60	PK	L					
27.0	5	6.9540	45.04	20.20	60.00	14.96	24.84	PK	L					
	6	10.3695	46.84	20.05	60.00	13.16	26.79	PK	L					

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

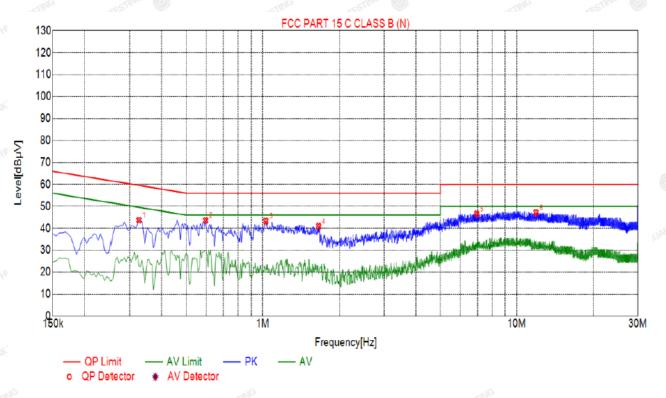
Level=Test receiver reading + correction factor

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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Test Specification: Neutral



	Sus	Suspected List														
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре							
)	1	0.3255	43.68	20.05	59.57	15.89	23.63	PK	N							
	2	0.5955	43.62	20.05	56.00	12.38	23.57	PK	N							
	3	1.0275	43.32	20.07	56.00	12.68	23.25	PK	N							
P	4	1.6575	40.94	20.12	56.00	15.06	20.82	PK	N							
, O.	5	6.9540	46.52	20.20	60.00	13.48	26.32	PK	N							
	6	11.8995	47.17	19.99	60.00	12.83	27.18	PK	N							

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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5.3 Radiated Emissions Measurement

5.3.1 Applied procedures / Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Except when the requirements applicable to a given device state otherwise, emissions from licence exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

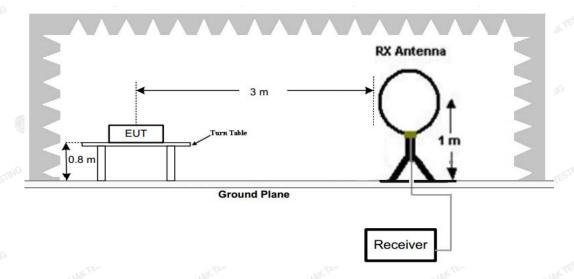
Radiated emission limits

	A CONTRACTOR OF THE CONTRACTOR		ACCOUNT .	Processing, Total	
	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)	
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)	
	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)	
20	1.705-30 3		20log(30)+ 40log(30/3)	30	
	30-88	3	40.0	100	
45	[®] 88-216	3 STING	43.5	150	
	216-960	3	46.0	200	
	Above 960	3	54.0	500	
	13007		(1977)		

5.3.2 Test setup

Test Configuration:

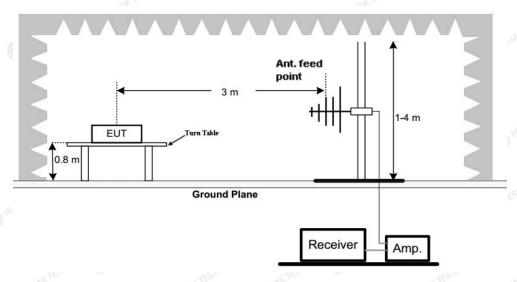
1) 9 kHz to 30 MHz emissions:



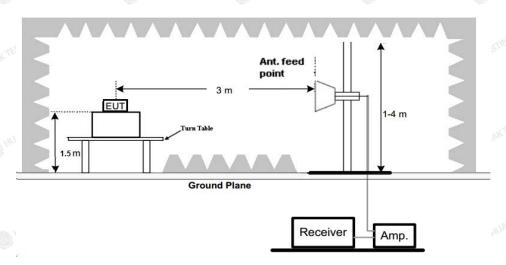
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3) 1 GHz to 25 GHz emissions:



Test Procedure

- 1. The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ to acquire the highest emissions from EUT
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.

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5.3.3 Test Result

Below 1GHz Test Results: Antenna polarity: H



QP Detector

Suspected List										
	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	46.5065	-13.65	49.00	35.35	40.00	4.65	100	93	Horizontal
	2	74.6647	-18.51	52.21	33.70	40.00	6.30	100	260	Horizontal
65	3	116.4164	-16.50	51.58	35.08	43.50	8.42	100	104	Horizontal
ě	4	167.8779	-17.50	53.26	35.76	43.50	7.74	100	64	Horizontal
	5	200.8909	-15.04	53.20	38.16	43.50	5.34	100	286	Horizontal
	6	262.0621	-13.55	55.37	41.82	46.00	4.18	100	204	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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Antenna polarity: V



Suspe	Suspected List												
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	45.5355	-13.65	48.64	34.99	40.00	5.01	100	354	Vertical				
2	77.5776	-19.03	52.46	33.43	40.00	6.57	100	346	Vertical				
3	105.7357	-15.42	47.64	32.22	43.50	11.28	100	74	Vertical				
4	167.8779	-17.50	57.18	39.68	43.50	3.82	100	42	Vertical				
5	240.7007	-13.82	50.42	36.60	46.00	9.40	100	48	Vertical				
6	453.3433	-8.88	45.55	36.67	46.00	9.33	100	21	Vertical				

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

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For 1GHz to 25GHz

Report No.: HK2109293710-1E

CH Low (2402MHz) Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	HUAKT
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detecto Type
4804	56.48	-3.65	52.83	74.00	-21.17	peak
4804	44.81	-3.65	41.16	54.00	-12.84	AVG
7206	50.98	-0.95	50.03	74.00	-23.97	peak
7206	40.18	-0.95	39.23	54.00	-14.77	AVG

Vertical:

	193	- 40/10		- 10 M		- AND
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detecto Type
4804	51.88	-3.65	48.23	74.00	-25.77	peak
4804	41.15	-3.65	37.50	54.00	-16.50	AVG
7206	51.66	-0.95	50.71	74.00	-23.29	peak
7206	35.64	-0.95	34.69	54.00	-19.31	AVG

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CH Middle (2440MHz) Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin]
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4880.00	55.71	-3.54	52.17	74.00	-21.83	peak
4880.00	6 42.38	-3.54	38.84	54.00	-15.16	AVG
7320.00	55.91	-0.81	55.10	74.00	-18.90	peak
7320.00	39.76	-0.81	38.95	54.00	-15.05	AVG

Vertical:

	2611	~6V	-61°		-G1	A.
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	HUAK IL
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detecto Type
4880.00	52.92	-3.54	49.38	74.00	-24.62	peak
4880.00	45.39	-3.54	41.85	54.00	-12.15	AVG
7320.00	52.66	-0.81	51.85	74.00	-22.15	peak
7320.00	38.15	-0.81	37.34	54.00	-16.66	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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CH High (2480MHz) Horizontal:

Meter Reading	Factor	Emission Level	Limits	Margin]
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
52.66	-3.43	49.23	74.00	-24.77	peak
42.30	-3.44	38.86	54.00	-15.14	AVG
52.15	-0.77	51.38	74.00	-22.62	peak
39.35	-0.77	38.58	54.00	-15.42	AVG
	(dBμV) 52.66 42.30 52.15	(dBμV) (dB) 52.66 -3.43 42.30 -3.44 52.15 -0.77	(dBμV) (dB) (dBμV/m) 52.66 -3.43 49.23 42.30 -3.44 38.86 52.15 -0.77 51.38	(dBμV) (dB) (dBμV/m) (dBμV/m) 52.66 -3.43 49.23 74.00 42.30 -3.44 38.86 54.00 52.15 -0.77 51.38 74.00	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 52.66 -3.43 49.23 74.00 -24.77 42.30 -3.44 38.86 54.00 -15.14 52.15 -0.77 51.38 74.00 -22.62

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin]
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960	51.49	-3.43	48.06	74.00	-25.94	peak
4960	44.32	-3.44	40.88	54.00	-13.12	AVG
7440	53.34	-0.77	52.57	74.00	-21.43	peak
7440	35.65	-0.77	34.88	54.00	-19.12	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak

detection at frequency above 1GHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

(7)All modes of operation were investigated and the worst-case emissions are reported.

AFICATION

Report No.: HK2109293710-

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Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case):

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	57.39	-5.81	51.58	74	-22.42	peak
2310.00	48.67	-5.81	42.86	54	-11.14	AVG
2390.00	55.21	-5.84	49.37	74 TESTING	-24.63	peak
2390.00	TEME (-5.84	STING /	54	1 CTING	AVG
2400.00	57.77	-5.84	51.93	74	-22.07	peak
2400.00	1	-5.84	/	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	58.03	-5.81	52.22	74	-21.78	peak
2310.00	HUAK	-5.81	JAK TES HUAK I	54	HUNKTES	AVG
2390.00	54.36	-5.84	48.52	74	-25.48	peak
2390.00	/ STING	-5.84	ETING 1	54	ESTING	AVG
2400.00	57.15	-5.84	51.31	74	-22.69	peak
2400.00	1	-5.84	<u> </u>	54	TING /	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	9
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	55.74	-5.81	49.93	74	-24.07	peak
2483.50	1	-5.81	1	54	I I	AVG
2500.00	53.26	-6.06	47.2	74 HUM	-26.8	peak
2500.00	1	-6.06	N. M. M.	54	1	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	54.74	-5.81	48.93	74	-25.07	peak
2483.50	JAK TESTING	-5.81	/ WAK TESTING	54 (m)	1	AVG
2500.00	54.89	-6.06	48.83	74	-25.17	peak
2500.00	Ing (I	-6.06	I I	54	1 mg	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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5.4 Maximum Output Power Measurement

5.4.1 Limit

The Maximum Peak Output Power Measurement is 30dBm.

5.4.2 Test procedure

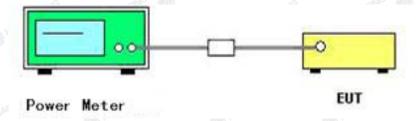
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The maximum Average conducted output power may be measured using a wideband RF power meter with a thermocouple derector or equivalent. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

5.4.3 Deviation from standard

No deviation.

5.4.4 Test setup



5.4.5 Test results

Channel	Channel frequency (MHz)	Output power (dBm)	Limit (dBm)	Result
Low	2402	2.32	O HUA	Pass
Middle	2440	2.04	30	Pass
High	2480	1.68	HAK TESTING	Pass

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5.5 Power Spectral Density

5.5.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.5.2 Test procedure

Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

Set the RBW = 3 kHz.

Set the VBW =10 KHz.

Set the span to 1.5 times the DTS channel bandwidth.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum power level.

If measured value exceeds limit, reduce RBW(no less than 3 kHz)and repeat.

The resulting peak PSD level must be 8 dBm.

5.5.3 Deviation from standard

No deviation.

5.5.4 Test setup



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5.5.5 Test results

Channel	Channel frequency (MHz)	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
Low	2402	-11.61	(a) kara	Pass
Middle	2440	-11.72	8.00	Pass
High	2480	-12.07	HUAKTE	Pass

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5.6 6dB Bandwidth

5.6.1 Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

5.6.2 Test procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100 KHz and VBW=300 KHz. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.6.3 Deviation from standard

No deviation.

5.6.4 Test setup



5.6.5 Test result

Channel	Channel frequency (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
Low	2402	0.652	SING	Pass
Middle	2440	0.656	≥500	Pass
High	2480	0.648	JAK TEST	Pass

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CH 00

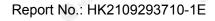


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5.7 Occupied Bandwidth

5.7.1 Test procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

RBW=1% to 5% of the OBW

VBW=approximately 3 X RBW

Detector=Peak

Trace Mode: Max Hold

Use the 99% power bandwidth function of the instrument to measure the Occupied Bandwidth and recorded.

5.7.2 Deviation from standard

No deviation.

5.7.3 Test setup



5.7.4 Test result

N/A

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5.8 Band edge

5.8.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under FCC rules in section 5.8.1, the attenuation required shall be 30 dB instead of 20 dB.

5.8.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation, RBW ≥ 1% of the span, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold

5.8.3 Deviation from standard

No deviation.

5.8.4 Test setup



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Report No.: HK2109293710-18

5.8.5 Test results

PASS



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5.9 Conducted Spurious Emissions

5.9.1 Applied procedures / Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section (b)(3) of RSS 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. For below 30MHz,For 9KHz-150kHz,150K-10MHz,We use the RBW 1KHz,10KHz, So the limit need to calculated by "10lg(BW1/BW2)". for example For9KHz-150kHz,RBW 1KHz, The Limit= the highest emission level-20-10log(100/1)= the highest emission level-40.

5.9.2 Test procedure

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b.Span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation, RBW \geq 1% of the span, VBW \geq RBW, Sweep = auto,

Detector function = peak, Trace = max hold

5.9.3 Deviation from standard

No deviation.

5.9.4 Test setup



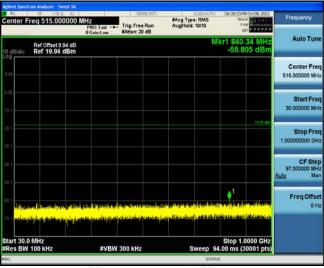
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5.9.5 Test results

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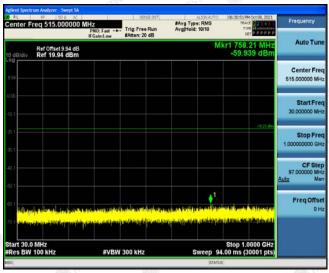






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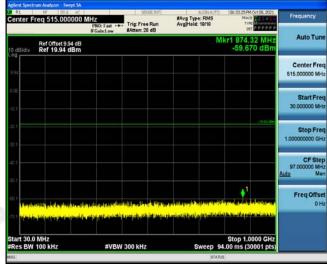


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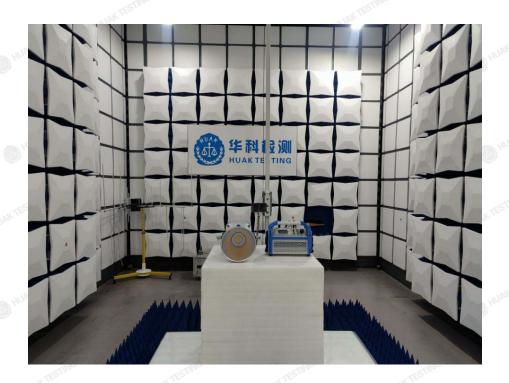
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6 Test setup photo

Radiated Emissions





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Conducted Emissions



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7 PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

End of test report

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