



RADIO TEST REPORT

Report No: STS1702021H01

Issued for

Shenzhen Hua ShunKe Electronic Technology Co.,Ltd
 2302, Meilan BIZ CEN, Baoyunda Logistics Center, Fuhua
 Community, Xixiang Street, Baoan District, Shenzhen,
 Guangdong, China

Product Name:	OTT TV BOX
Brand Name:	N/A
Model Name:	H6_J1
Series Model:	H6_M5
FCC ID:	2A5G3-HSK-H6-J1
Test Standard:	FCC 47CFR §2.1091

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Test Report Certification

Applicant's Name..... : Shenzhen Hua ShunKe Electronic Technology Co.,Ltd
Address : 2302, Meilan BIZ CEN, Baoyunda Logistics Center, Fuhua Community, Xixiang Street, Baoan District, Shenzhen, Guangdong, China

Manufacturer's Name : Shenzhen Hua ShunKe Electronic Technology Co.,Ltd
Address : 2302, Meilan Business Center, Baoyunda Logistics Center, Fuhua Community, Xixiang Street, Baoan District, Shenzhen, Guangdong, China

Product Description

Product Name..... : OTT TV BOX
Brand Name : N/A
Model Name : H6_J1
Series Model..... : H6_M5

Standards..... : FCC 47CFR §2.1091

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Date of Test..... :
Date of receipt of test item : 02 Mar. 2022
Date (s) of performance of tests..... : 02 Mar. 2022 ~ 22 Mar. 2022
Date of Issue..... : 22 Mar. 2022
Test Result..... : **Pass**

Testing Engineer : *Chris Chen*

(Chris Chen)

Technical Manager : *Sean She*

(Sean she)

Authorized Signatory : *Bovey Yang*

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	22 Mar. 2022	STS2203014H01	ALL	Initial Issue





1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	OTT TV BOX	
Brand Name	N/A	
Model Name	H6_J1	
Series Model	H6_M5	
Model Difference	Different appearance and shape.	
Product Description	The EUT is OTT TV BOX	
	Operation Frequency:	BLE:2402~2480 MHz 2.4G WLAN: 802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz 5G WLAN: 802.11a/ n(HT20)/ac(VHT20):5.745GHz-5.825GHz 802.11n(HT40)/ac(VHT40): 5.755GHz-5.795GHz 802.11ac(VHT80): 5.775GHz
	Modulation Type:	BLE:GFSK 2.4G WLAN: 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM
	Antenna gain:	2.83dBi
	Antenna Designation:	PIFA
Adapter	Input: 100-240V AC 50/60/Hz 0.3A Output: DC 5V 2A	
Rating	Input: DC 5V2A Output: DC 5V/0.5A	
Hardware Version	HSK_J1_H6_V1.0	
Software Version	Android 7.0	

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $Pd = (Pout * G) / (4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.



2.5 TEST RESULT

Turn up

Mode	Detector	Turn up Power
BLE	AV	5±1dBm
2.4G WLAN	AV	15±1dBm
5G WLAN	AV	7±1dBm

ANT Gain (G)

BLE/2.4G WLAN: 2.83dBi (gain of antenna in linear scale=1.919)

5G WLAN: 2.94dBi (gain of antenna in linear scale=1.968)

Protocol	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain(gain of antenna in linear scale)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
BLE	6	3.98	1.919	0.0015	1	0.0015	Pass
2.4G WLAN	16	39.81	1.919	0.0152	1	0.0152	Pass
5G WLAN	8	6.31	1.968	0.0024	1	0.0024	Pass

*****END OF THE REPORT*****