



Report No.: PTC22092704001E-FC03

FCC TEST REPORT

FCC ID: 2A9FN-AMV-DE550

Product	:	Smartboard(Smart TV)
Model Name	:	AMV-DE550
Brand	:	N/A
Report No.	:	PTC22092704001E-FC03
Prepared for		
GUANGZHOU AMV TECHNOLOGY CO.,LTD		
Room 201, Building 3, No.6, Donging Road, Nancun Town, Panyu District, Guangzhou City		
Prepared by		
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TEST RESULT CERTIFICATION

Applicant's name : GUANGZHOU AMV TECHNOLOGY CO.,LTD
Address : Room 201, Building 3, No.6, Donging Road, Nancun Town, Panyu District, Guangzhou City
Manufacture's name : GUANGZHOU AMV TECHNOLOGY CO.,LTD
Address : Room 201, Building 3, No.6, Donging Road, Nancun Town, Panyu District, Guangzhou City
Product name : Smartboard(Smart TV)
Model name : AMV-DE550
Test procedure : FCC CFR47 Part 1.1307(b)(1)
Test Date : Nov. 16, 2022 to Dec. 01, 2022
Date of Issue : Mar. 20, 2023
Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink that reads "Simon Pu".

Simon Pu / Engineer

Technical Manager:

A handwritten signature in black ink that reads "Ronnie Liu".

Ronnie Liu / Manager



Contents

	Page
2 TEST SUMMARY	4
3 GENERAL INFORMATION	5
3.1 GENERAL DESCRIPTION OF E.U.T.....	5
4 RF EXPOSURE	6
4.1 REQUIREMENTS.....	6
4.2 THE PROCEDURES / LIMIT	6
4.3 MPE CALCULATION METHOD	7
4.4 TEST RESULT	7



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Smartboard(Smart TV)
Model Name	:	AMV-DE550
Additional model	:	AMV-DEXXX, AMV-DMXXX, AMV-DSXXX, AMV-DTXXX, AMV-TVXXX, AMV-TSXXX, AMV-PXXXX, AMV-DXXXX, AMV-LXXXX, AMV-GTXXX, AMV-GSXXX, AMV-GZXXX, AMV-GCXXX, AMV-GHXXX, AMV-GDXXX ("XXX" can be replaced by letter from "A" to "Z", number from "0" to "9" or blank)
Model difference	:	The model name is different, the product appearance color is different
Specification	:	802.11b/g/n HT20
Operation Frequency	:	2412-2462MHz for 802.11b/g/ n(HT20) 2402-2480MHz
Number of Channel	:	11 channels for 802.11b/g/ n(HT20) 79 channels for BDR+EDR
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; GFSK, Π/4-DQPSK, 8DPSK For DSS
Antenna installation	:	SMA-2.4G2DB black antenna
Antenna Gain	:	3.9 dBi
Power supply	:	Input: AC 100-240V~50/60Hz 2.5A 120W
Hardware Version	:	1.0
Software Version	:	1.0



4 RF Exposure

Test Requirement : 15.247 (i)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
EDR(2402)	2.45	4.85	4.85 ± 1	3.845918	0.001213	1	Pass
802.11b(2412)	2.45	20.19	20.19 ± 1	131.522483	0.041470	1	Pass

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