RF MPE REPORT

Report No.:	20241017G20616X-W4
Product Name:	Cloud Digital Signage, LCD DIGITAL DISPLAY, Smart Digital Signage, Commercial Digital Signage, LCD Multimedia Display, Digital Signage Display
Main Model No. :	M55T5A
Series Model No. :	See page 5
FCC ID:	2AVB8-001001004195
Applicant:	Shanghai Goodview Electronics Technology Co., Ltd
Address:	Room 118, 1st Floor, No. 2, Lane 3999, Xiupu Road, Pudong District, Shanghai
Dates of Testing:	10/17/2024 - 11/07/2024
Issued by:	CCIC Southern Testing Co., Ltd.
Lab Location:	Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.
	Tel： 86-755-26627338 **E-Mail：** manager@ccic-set.com

Test Report

Product .....:	Cloud Digital Signage, LCD DIGITAL DISPLAY, Smart Digital Signage, Commercial Digital Signage, LCD Multimedia Display, Digital Signage Display
Trade Name .....:	Goodview
Applicant.....:	Shanghai Goodview Electronics Technology Co., Ltd
Applicant Address.....:	Room 118, 1st Floor, No. 2, Lane 3999, Xiupu Road, Pudong District, Shanghai
Manufacturer .....:	Shanghai Goodview Electronics Technology Co., Ltd
Manufacturer Address .....:	Room 118, 1st Floor, No. 2, Lane 3999, Xiupu Road, Pudong District, Shanghai
Test Standards .....:	47 CFR Part 2.1091
Test Result.....:	Pass

Tested by .....: 2024.11.07

Chuiwang Zhang, Test Engineer

Reviewed by .....: 2024.11.07

Sun Jiaohui, Senior Engineer

Approved by .....: 2024.11.07

Chris You, Manager

Table of Contents

Change History		
Issue	Date	Reason for change
1.0	2024.11.07	First edition

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Cloud Digital Signage, LCD DIGITAL DISPLAY, Smart Digital Signage, Commercial Digital Signage, LCD Multimedia Display, Digital Signage Display
Models	M55T5A,M55T7A, M55******, OM55******, OH55******, L55******, A55******, T55******,TC55******,PF55****** (The "*" in the model can be represented by 0-9, A-Z, or blank, but the appearance color, software version, and customer code are different and have no impact on safety and EMC performance)
Device Type	Fixed devices
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n(HT20/HT40)/ax(HE20/HE40) WLAN 5.8GHz 802.11a/n(HT20/HT40)/ac(VHT20/VHT40/ax(HE20/HE40)
Modulation Type	DSSS (802.11b), OFDM (802.11a/g/n/ac), OFDMA (802.11ax)
Antenna Type	External antenna
Antenna Gain	2.4G WIFI: 2.8dBi
	5.8G WIFI: 5.5dBi

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

1.2. EUT Description

EUT has been tested according to the following standards.

No.	Identity	Document Title
1	47 CFR Part 1	Practice and Procedure
2	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
3	KDB 447498 D01 General RF Exposure Guidance v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
4	OET Bulletin 65 Edition 97-01	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields

1.3. Laboratory Facilities

FCC-Registration No.: CN1283

CCIC Southern Testing Co., Ltd 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. Designation Number: CN1283, valid time is until Jun. 30th, 2025.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

CAB number: CN0064

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.4. Laboratory Location

Company Name:	CCIC Southern Testing Co., Ltd.
Address:	Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China

2. Technical Requirements Specification in CFR Title 47 Part 2.1091

2.1. Exposure Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Averaging Time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	< 6
3.0-30	1824/f	4.89/f	*(900/f^2)	< 6
30-300	61.4	0.163	1.0	< 6
300-1500	/	/	f/300	< 6
1500-100,000	/	/	5	< 6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	< 30
1.34-30	824/f	2.19/f	*(180/f^2)	< 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.				

2.2. Predication of MPE limit at a given distance

Refer to formulas on page 19 of OET Bulletin 65, Edition 97-01.

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm^2)

P = power input to the antenna (in appropriate units, e.g., mW)

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna (appropriate units, e.g., cm)

2.3. Evaluation Results

Worst-Case mode Conducted Output Power Results for WLAN

Operation Mode	Frequency (MHz)	Maximum Output power (dBm)	Max Tune up power (dBm)	Max Tune up power (mW)
WIFI 802.11b	2462	16.54	16±1	50.12
WIFI 802.11a	5745	13.50	13±1	25.12

Calculation results: Worst-Case mode

Operation Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm2)	Power Density (mW/cm2)	Ratio
WIFI 802.11b	2.8	1.91	20	0.024	1.00	0.024
WIFI 802.11a	5.5	3.55	20	0.018	1.00	0.018

2.4. Conclusion

According to the KDB 447498 D01 General RF Exposure Guidance v06 section 7.2 determine the device is exclusion from SAR test.

** END OF REPORT **