

RF EVALUATION TEST REPORT

Applicant..... : Guangzhou Driven Technology Co., Ltd
Address..... : Room 510, Bldg.A No.19 Lianhe Street, Nanxiang 3rd Road, Huangpu district,
Guangzhou, Guangdong Province, China
Manufacturer..... : Guangzhou Driven Technology Co., Ltd
Address..... : Room 510, Bldg.A No.19 Lianhe Street, Nanxiang 3rd Road, Huangpu district,
Guangzhou, Guangdong Province, China
Factory..... : Guangzhou Driven Technology Co., Ltd
Address..... : Room 510, Bldg.A No.19 Lianhe Street, Nanxiang 3rd Road, Huangpu district,
Guangzhou, Guangdong Province, China
Product Name..... : 10.1-inch Smart Control & Infotainment System
Brand Name..... : DrivenSmart
Model No. : RVCS-CS-X101
FCC ID..... : 2BSZHRVCS-CS-X101
Measurement Standard..... : 47 CFR PART 2, Section 2.1091
Receipt Date of Samples..... : October 13, 2025
Date of Tested..... : October 13, 2025 to December 24, 2025
Date of Report..... : December 26, 2025

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.


Prepared by
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Revision History

Report Number	Description	Issued Date
NTC2510021F01	Initial Issue	2025-12-26

1. General Description of EUT

Product Information	
Product Name:	10.1-inch Smart Control & Infotainment System
Main Model Name:	RVCS-CS-X101
Additional Model Name:	N/A
Model Difference:	N/A
S/N:	2510-6627
Brand Name:	DrivenSmart
Hardware version:	L837/L838_7708_VER_N_240802_FR4(MAIN)
Software version:	MCU Version 2025.06.2414:05:53(MAIN)
Rating:	DC 12V
Typical Arrangement:	Tabletop
I/O Port:	Refer to the user manual
Accessories Information	
Adapter:	N/A
Cable:	N/A
Other:	N/A
Additional information	
Note:	N/A
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Technical Specification (BLE 1)—For module 1	
Bluetooth Version:	V5.1
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK
Number of Channel:	40
Channel Space:	2MHz
Antenna Type:	Rod antenna
Number of Antenna	1
Antenna Gain:	2.35 dBi (Declared by manufacturer)
RF PHY Support:	1Mbps, 2Mbps

Technical Specification (2.4G WLAN) —For module 1	
Frequency Range:	2412-2462MHz for IEEE 802.11b/g/n(HT20) 2422-2452MHz for IEEE 802.11n(HT40)
Modulation Technology:	DSSS, OFDM
Modulation Type:	CCK, DQPSK, DBPSK, QPSK, BPSK, 16-QAM, 64-QAM,
Number of Channel:	11 for IEEE 802.11b/g/n(HT20) 7 for IEEE 802.11n(HT40)
Channel Space:	5MHz
Antenna Type:	Rod antenna
Number of Antenna	1
Antenna Gain:	2.35 dBi (Declared by the manufacturer)

Technical Specification (5G WIFI) —For module 1	
Frequency Range:	5150-5250MHz 5725-5850MHz
Modulation Technology:	DSSS, OFDM
Modulation Type:	BPSK, QPSK for 802.11a 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for 802.11n/ac
Number of Channel:	U-NII-1 4 Channel for 802.11a/n(HT20)/ac(VHT20) 2 Channel for 802.11n(HT40)/ac(VHT40) 1 Channel for 802.11ac(VHT80) U-NII-3: 5 Channel for 802.11a/n(HT20)/ac(VHT20) 2 Channel for 802.11n(HT40)/ac(VHT40) 1 Channel for 802.11ac(VHT80)
Antenna Type:	SMD Antenna
Number of Antenna:	1
Antenna Gain:	2 dBi (Declared by the manufacturer)
Beamforming Gain:	Not support

Technical Specification (BLE 2) —For module 2	
Bluetooth Version:	V5.1
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK
Number of Channel:	40 (refer to following channel list for details)
Channel Space:	2MHz
Antenna Type:	Rod antenna
Number of Antenna:	1
Antenna Gain:	2.35 dBi (Declared by manufacturer)
RF PHY Support:	1Mbps

Technical Specification (BLE 3) —For module 3	
Bluetooth Version:	V5.0
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK
Number of Channel:	40 (refer to following channel list for details)
Channel Space:	2MHz
Antenna Type:	Rod Antenna
Number of Antenna:	1
Antenna Gain:	2.35 dBi (Declared by the manufacturer)
RF PHY Support:	1Mbps, 2Mbps

Technical Specification (Bluetooth) —For module 3	
Bluetooth Version:	V5.0
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of Channel:	79 (refer to following channel list for details)
Channel Space:	1MHz
Antenna Type:	Rod Antenna
Number of Antenna	1
Antenna Gain:	2.35 dBi (Declared by the manufacturer)
Receiver Category:	Category 1

2. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	:	The Laboratory has been assessed and proved to be in compliance with CNAS/CL01 Listed by CNAS, August 13, 2018 The Certificate Registration Number is L5795. The Certificate is valid until August 13, 2030 The Laboratory has been assessed and proved to be in compliance with ISO17025 Listed by A2LA, November 01, 2017 The Certificate Registration Number is 4429.01 The Certificate is valid until December 31, 2027 Listed by FCC, November 06, 2017 Test Firm Registration Number: 907417 Listed by Industry Canada, June 08, 2017 The Certificate Registration Number. Is 46405-9743A
Test Site Location	:	Room 101, 1101, Building 2, No. 61, Hongmei Section, Wangsha Road, Hongmei Town, Dongguan, Guangdong, People's Republic of China

3. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 1, 1.1307

47 CFR Part 2, 2.1091

KDB 447498 D04 v01

4. Maximum Permissible Exposure Limit

According to 47 CFR Part 1, 1.1307, for single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if: 47 CFR Part 1, 1.1307

(A) The available maximum time- averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time- averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where,

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

And,

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the minimum separation distance (cm) in any direction from any part of the device antenna(s) or radiating structure(s) to the body of the device user.

For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time- averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Where,

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for P_{th} , including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

$P_{th,i}$ = the exemption threshold power (P_{th}) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i .

ERP_j = the ERP of fixed, mobile, or portable RF source j .

$ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j , at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

$Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

$Exposure\ Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from §1.1310 of this chapter.

5. RF Exposure Evaluation Results

Module 1								
Mode	Frequency (MHz)	Max. Conducted Power (dBm)	Antenna Gain (dBi)	Max. EIRP (dBm)	Max. ERP (dBm)	Max. ERP (mW)	Separation Distance (cm)	Part 1.1307 Option (B) P_{th} (mW)
BLE	2402	-0.917	2.35	1.433	-0.717	0.85	20	3060
2.4G WLAN	2437	13.39	2.35	15.740	13.590	22.86	20	3060
5G WLAN	5745	15.895	2	17.895	15.745	37.54	20	3060

Module 2								
Mode	Frequency (MHz)	Max. Conducted Power (dBm)	Antenna Gain (dBi)	Max. EIRP (dBm)	Max. ERP (dBm)	Max. ERP (mW)	Separation Distance (cm)	Part 1.1307 Option (B) P_{th} (mW)
BLE	2480	-3.276	2.35	-0.926	-3.076	0.49	20	3060

Module 3								
Mode	Frequency (MHz)	Max. Conducted Power (dBm)	Antenna Gain (dBi)	Max. EIRP (dBm)	Max. ERP (dBm)	Max. ERP (mW)	Separation Distance (cm)	Part 1.1307 Option (B) P_{th} (mW)
BLE	2402	0.418	2.35	2.768	0.618	1.15	20	3060
BDREDR	2402	3.106	2.35	5.456	3.306	2.14	20	3060

Multiple RF Source (Simultaneous Transmission)					
5G WLAN—module 1 (P/Pth Ratio)	2.4G WLAN—module1 (P/Pth Ratio)	Bluetooth —module 2 (P/Pth Ratio)	Bluetooth —module 3 (P/Pth Ratio)	Total Ratio	Limit
0.0123	0.0075	1.60e-4	6.99e-4	0.0207	1.0
Note: Where P = Max.ERP in mW					

Conclusion:

According to 47 CFR §1.1307 (b)(3)(i)(B), the RF exposure analysis concludes that the product is compliant with the FCC RF exposure requirements in mobile exposure condition.

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