

TEST REPORT

Applicant: Shanghai O-Film Tech. Co., Ltd.
Address: Room 101, Building 6, No.2222 Huangcheng Road.
Juyuan New District. Jiading District, Shanghai, P. R.
China
Equipment Type: Body Domain Controller
Model Name: ZZNISSAN P20
Brand Name: OFILM
FCC ID: 2BWZX-ZZNISSANP20
Test Standard: KDB 447498 D04 v01
Sample Arrival Date: Jul. 03, 2026
Test Date: Jul. 04, 2026
Date of Issue: Jul 09, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xiong Lining**Checked by:** Xu Rui**Approved by:** Liao Jianming
(Technical Director)

Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Jul. 09, 2026</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information	4
2.2	Manufacturer Information.....	4
2.3	General Description for Equipment under Test (EUT).....	4
2.4	Technical Information	4
3	SUMMARY OF TEST RESULT	5
3.1	Test Standards	5
3.2	Limit Standards.....	5
4	DEVICE CATEGORY AND LEVELS LIMITS	6
5	ASSESSMENT RESULT	7
5.1	Output Power	7
5.2	Tune-up power	7
5.3	RF Exposure Evaluation Result	7
5.4	Conclusion.....	7

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shanghai O-Film Tech. Co., Ltd.
Address	Room 101, Building 6, No.2222 Huangcheng Road. juyuan New District. Jiading District, shanghai, P. R. China

2.2 Manufacturer Information

Manufacturer	Shanghai O-Film Tech. Co., Ltd.
Address	Room 101, Building 6, No.2222 Huangcheng Road. juyuan New District. Jiading District, shanghai, P. R. China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Body Domain Controller
Model Name Under Test	ZZNISSAN P20
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	H01.01.02.260120
Software Version	S05.06.01.260210
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	433.42MHz/433.92MHz/434.42MHZ (only RX),125kHz
-----------------------------------	--

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	LF RFID	
Frequency Range	LF RFID	125kHz
Antenna Type	LF RFID	Internal antenna
Exposure Category	General Population/Uncontrolled Exposure	
EUT Type	Portable Device	

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D04 v01	KDB 447498 D04 Interim General RF Exposure Guidance v01

3.2 Limit Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

(b) For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 Devices:

In section 2.1.2 of FCC KDB 447498 D04, per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

5 ASSESSMENT RESULT

5.1 Output Power

Mode	LF RFID
Field Strength (dBuV/m)	73.64
Conducted Power (dBm)	-3.01
Antenna Gain (dBi)	0
ERP (dBm)	-5.16

Note 1: This report listed the worst case power value, please refer to Ti-AT26070065-402 report for more details.

Note 2: Add the appropriate maximum ground reflection factor to the EIRP level (6dB for frequencies ≤ 30 MHz, 4.7dB for frequencies between 30MHz and 1000MHz, inclusive and 0dB for frequencies > 1000 MHz).

Note 3: Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:
 $E = \text{EIRP} - 20\log D + 104.8 - \text{maximum ground reflection factor}$

Note 4: For frequencies below 1000 MHz, only ERP (Effective Radiated Power) is used. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:
 $E = \text{ERP} - 20\log D + 104.8 - \text{maximum ground reflection factor}$

where:
 E=electric field strength in dBuV/m
 EIRP =equivalent isotropic radiated power in dBm
 ERP = effective radiated power in dBm
 D=specified measurement distance in meters

5.2 Tune-up power

Mode	Conducted Power Range (dBm)	ERP Range (dBm)
LF RFID	[-4.00, -2.00]	[-6.15, -4.15]

Note: ERP= EIRP -2.15dB

5.3 RF Exposure Evaluation Result

Mode	Tune-up limit power (dBm)	Tune-up limit power (mW)	Threshold Value(mW)	Verdict
LF RFID	-2.00	0.63	1.0	Pass

Note: The available maximum time-averaged power is no more than 1 mW, a single RF source is exempt.

5.4 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--