

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240500080401

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# TEST REPORT

Application No.: KSCR2405000804AT FCC ID: 2BEY3LCUK54WWDA Applicant: NETPRISMA INC.

Address of Applicant: 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

Manufacturer: NETPRISMA INC.

Address of Manufacturer: 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

**Equipment Under Test (EUT):** 

**EUT Name:** LTE-A Cat 6 M.2 Module

Model No.: LCUK54-WWD

Trade Mark: Vrileg

Standard(s): FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt v03

WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

**Date of Receipt:** 2024-06-17

**Date of Test:** 2024-06-18 to 2024-06-18

**Date of Issue:** 2024-06-19

Test Result: Pass\*

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record					
Version	Description	Date	Remark		
00	Original	2024-06-19	/		

Authorized for issue by:		
Tested By	Damon zhou	
	Damon Zhou /Project Engineer	
Approved By	Verry Hon	
	Terry Hou /Reviewer	



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# 2 Test Summary

Item	Standard	Test Case ID	Result
End User Device additional requirement	96.47	1	Pass

The UUT is an End User Device. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

### Test standards:

FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt v03

WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 5V
Sample Type:	End User device
Transmitter Frequency Band:	LTE:B43(3600-3700)/B48
Transmitter Frequency Range:	3550~3700MHz
Antenna Type:	PIFA Antenna
Hardware Version:	R1.0
Software Version:	LCUK54WWDBL0101
Antenna Gain:	1dBi (Provided by the manufacturer)

### 4.2 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 <sup>-8</sup>
2	RF conducted power	± 0.75dB
3	Temperature test	± 1°C
4	Humidity test	± 3%
5	Supply voltages	± 1.5%
6	Time	± 3%



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### 4.3 Description of Support Units

### For LTE test:

Description	Manufacturer	Model No.	Serial No.	
EPC	Lanner Electronics Inc. LICA-1513A LI		LR202002004052	
Router	TP-LINK	TL-R860+	1175379002425	
Base station	Baicells	pBS31010 (FCC ID: 2AG32PBS31010)	12020002912122B0001	



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#### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
- 3. Sample source: sent by customer.

### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

### • ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

#### VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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# 5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Laptop	Lenovo	Y510P	HFL000026	N/A	N/A
Spectrum Analyzer	KEYSIGHT	N9020A	KUS2001M00 1-2	2023/8/24	2024/8/23
Shield Room	YanChuang	N/A	KS301115-2	N/A	N/A
Coaxial Cable	Thermax	N/A	13	2023/9/16	2024/9/15
Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R.	N.C.R.
Humidity / Temperature Indicator	Renke	RS-WS-N01- 6J	1032844	2024/3/21	2025/3/20



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### 6 Test Method and Environment

### **6.1** End User Device Conformance and Performance

Test Requirement: FCC Part 96.47

Test Method: WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

6.2 Test Environment

Environmental Conditions: 25°C, 65%RH

6.3 Test Requirement

FCC Part 96.47

- a). End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- b). An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.



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#### 6.4 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified LTE Base station CBSD (FCC ID: 2AG32PBS31010) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

#### For LTE:

- 1. Setup with frequency 3620-3640MHz and power level 14dBm/MHz;
- 2. Enable CBSD service;
- 3. Check EUD Tx Frequency and power;
- 4. Disable AP service;
- 5. Check EUD stops transmission within 10seconds;
- 6. Setup with 3635-3655MHz & power level 8dBm/MHz;
- 7. Enable CBSD service;
- 8. Check EUD Tx Frequency and power;
- 9. Disable CBSD service;
- 10. Check EUD stops transmission within 10 seconds.

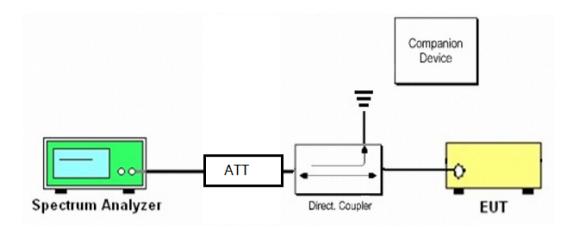


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### 6.5 Test Setup



For LTE:

End User Device as UUT, the companion device is certified CBRS (FCC ID: 2AG32PBS31010)



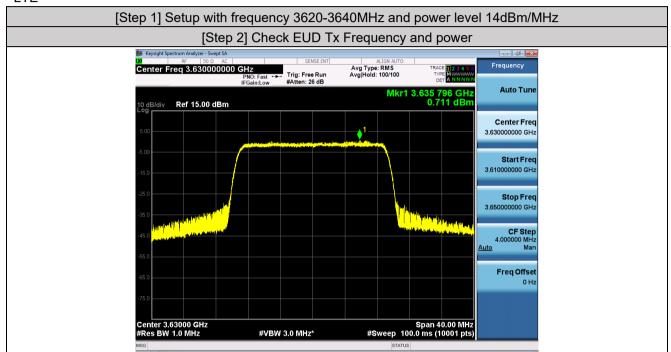
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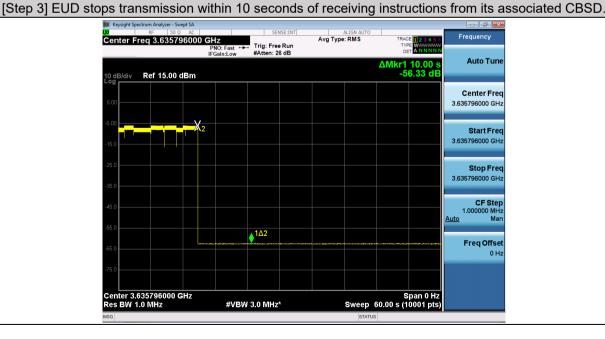
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#### 6.6 Test Result

LTE



EIRP PSD=0.711+1+4.5=6.211dBm/MHz, Antenna gain is 1dBi,the path loss is 4.5dB,

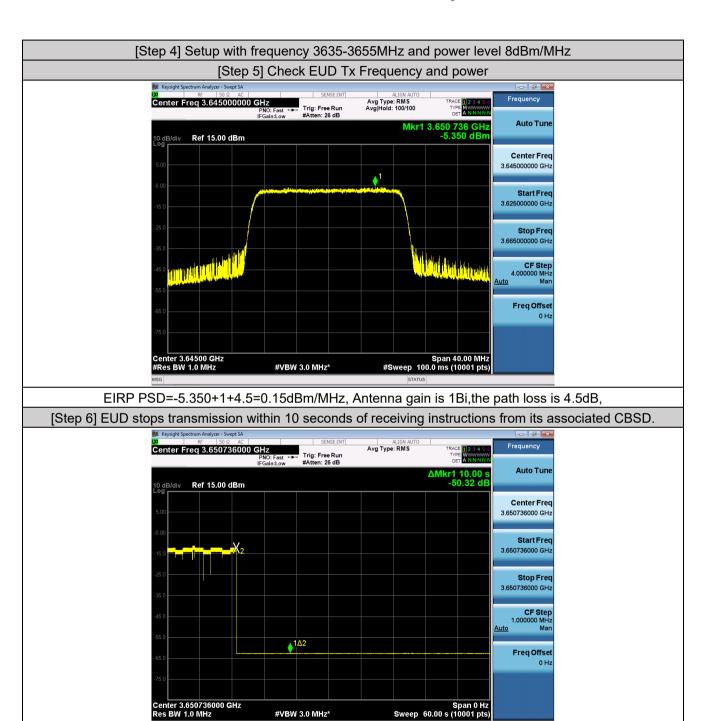




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#VBW 3.0 MHz\*

Span 0 Hz Sweep 60.00 s (10001 pts)



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# 7 Test Setup Photographs

Refer to Appendix - Test Setup Photo for KSCR2405000804AT.

- End of the Report -