

Report No.: ZEWM2306000857RG03

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# TEST REPORT

Application No.: ZEWM2306000857RG

**Applicant:** Askey Computer Corporation

Address of Applicant: 10F, No. 119, Jiankang Rd., Zhonghe Dist., New Taipei City, Taiwan

Manufacturer: Askey Computer Corporation

Address of Manufacturer: 10F, No. 119, Jiankang Rd., Zhonghe Dist., New Taipei City, Taiwan

**EUT Description:** 5G NR Sub 6 WiFi 7 Router

Model No.: ASK-NCM1100

Trade Mark: Verizon

FCC ID: H8N-ASK-NCM1100 Standards: 47 CFR Part 96.47

**Date of Receipt:** 2023/06/28

**Date of Test:** 2023/08/03 to 2023/08/03

**Date of Issue:** 2023/10/23

Test Result : PASS \*

Authorized Signature:

Keny Xu Laboratory Manager



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

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## **Version**

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/10/23		Original

Prepared By	Jall Huang  (Jack Huang) / Test Engineer
Checked By	Flora Wang  (Flora Wang) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Result	Verdict
End User Device additional requiement	§96.47	Clause 4.1	Pass



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## 3 General Information

### 3.1 Details of Client

Applicant:	Askey Computer Corporation	
Address of Applicant:	10F, No. 119, Jiankang Rd., Zhonghe Dist., New Taipei City, Taiwan	
Manufacturer:	Askey Computer Corporation	
Address of Manufacturer:	10F, No. 119, Jiankang Rd., Zhonghe Dist., New Taipei City, Taiwan	

### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Jinhua Wei

### 3.3 Test Facility

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

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an accredited testing laboratory.

Designation Number: CN1336.

Test Firm Registration Number: 787754



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## 3.4 General Description of EUT

EUT Description:	5G NR Sub 6 WiFi 7 Router		
Model No.:	ASK-NCM1100		
Trade Mark:	Verizon		
Hardware Version:	Rev4		
Software Version:	SDK 2.0.6		
Power Supply:	input 100~120V output:12V		
IMEI:	358664490000842		
Antenna Type:	monopole antenna		
Transmitter Frequnecy Band:	LTE Band 48; LTE CA_48C;		
Transmitter Frequnecy Range:	3550 to 3700 MHz		
	LTE Band 48: -2.3dBi (Ant3); -2.3dBi (Ant8)		
	LTE CA_48C: -2.3dBi (Ant3); -2.3dBi (Ant8)		
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
Remark:			
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			





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### 3.5 Test Environment

Environment Parameter	101 kPa Selec	101 kPa Selected Values During Tests		
Relative Humidity	44-60	44-60 % RH Ambient		
Value	Temperature(°C)	Voltage(V)		
NTNV	22~25	12		
Remark:				
NV: Normal Voltage N	: Normal Temperature			

## 3.6 Description of Support Units

Description	Manufacturer	Model No.	
LTE Base Station	Baicells Technologies Co.,Ltd.	mBS31001 (FCC ID: 2AG32MBS3100196N)	



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## **Description of Tests**

## 4.1 End User Device additional requiement

Test Requirement:	FCC Part 96.47		
Test Method:	WINNF-18-IN-00178 CBRS End User Devices as UUT Test Guidelines		
Requirement:	<ul> <li>(a)End User Devices may operate only if they can positively receive and decode anauthorization signal transmitted by a CBSD, including the frequencies and power limits fortheir operation.</li> <li>(1)An End User Device must discontinue operations, change frequencies, or changeits operational power level within 10 seconds of receiving instructions from its associated CBSD.</li> </ul>		
Test Procedure:	<ol> <li>Setup with frequency 3550-3570MHz and power level 20dBm/MHz</li> <li>Enable AP service from Ruckus Cloud management</li> <li>Check EUD Tx Frequency and power</li> <li>Disable AP service from Ruckus Cloud management</li> <li>Check EUD stops transmission within 10seconds.</li> <li>Setup with 3590-3610MHz &amp; power level 8dBm/MHz</li> <li>Enable AP service from Ruckus Cloud management</li> <li>Check EUD Tx Frequency and power</li> <li>Disable AP service from Ruckus Cloud management</li> <li>Check EUD stops transmission within 10seconds.</li> </ol>		
Test setup:	Companion Device  ATT  Spectrum Analyzer  Direct. Coupler  EUT		



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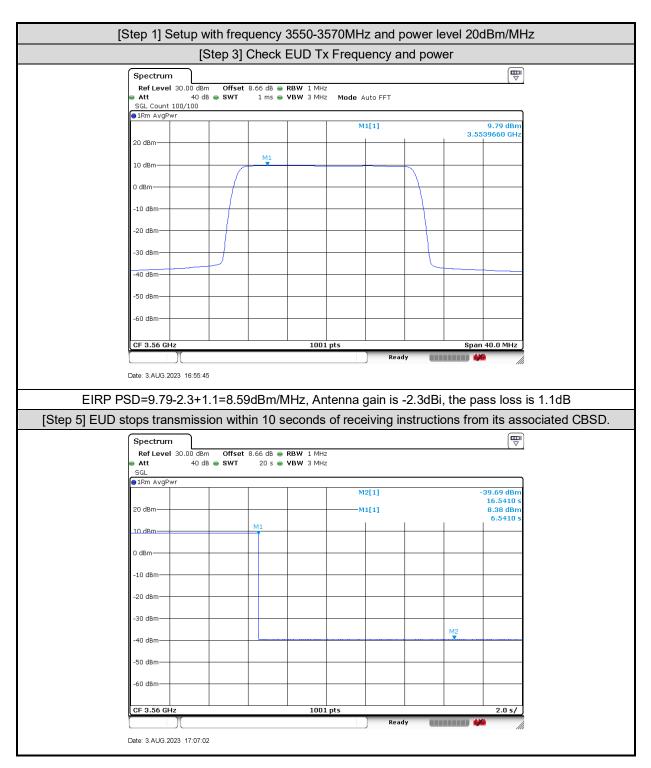
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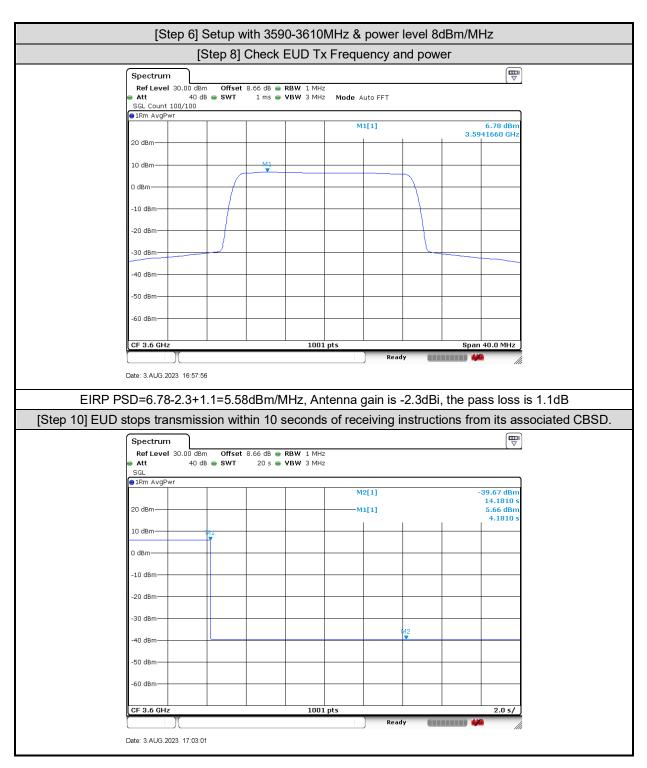
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#### 5 **Main Test Instruments**

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-032	2023/02/17	2024/02/16
Signal &Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-012	2023/02/16	2024/02/15



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## 6 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in

accordance with the recommendations of ISO 17025 as following:

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 9.84Hz
2	RF conducted power	± 0.42dB

#### Remark

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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# 7 Appendixes

Setup Photos	Appendix A.2 - Setup Photos-part96.47
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---End of Report---



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