

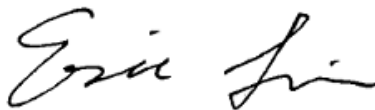
1 Cover Page

RF MPE REPORT

Application No.: KSCR2210001943AT
FCC ID: WBKCPX80P
Applicant: BTI Wireless
Address of Applicant: 14600 Industry Circle La Mirada, CA 90638
Manufacturer: BTI Wireless
Address of Manufacturer: 14600 Industry Circle La Mirada, CA 90638
Factory: Sunwave Communications Co., Ltd.
Address of Factory: 581 Huoju Avenue, Binjiang District, Hangzhou, China
Equipment Under Test (EUT):
EUT Name: 5G CPE
Model No.: CPX80P
Standard(s) : FCC Rules 47 CFR §2.1091
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2022-10-17
Date of Test: 2022-10-17 to 2022-11-09
Date of Issue: 2022-11-18

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin
EMC Lab Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-11-18	/

Authorized for issue by:			
		<i>cloudpeng</i>	
		Cloud Peng / Project Engineer	
		<i>Eric Lin</i>	
		Eric Lin / Reviewer	



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Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 24V/1A,24W by Adapter Adapter Model:ASSA67A-240100 Input:100-240V~50/60Hz,0.8A Output: DC 24V 1A
---------------	--

3.2 Technical Specifications

Frequency Band:	n48,n78
Antenna Type:	Internal
Antenna Gain:	Antenna 1:14.32dBi (Provided by manufacturer) Antenna 2:14.35dBi (Provided by manufacturer)
Modulation Type:	CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Antenna Delivery:	2T2R MIMO
Temperature Range:	-30°C to 50°C

Note:

The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.



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3.3 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).

3.4 Test Facility

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

- **CNAS**

Compliance Certification Services (Kunshan) Inc. is accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Registration No. CNAS L4354

- **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.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR221000194301AT

5.2 MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

- 1)P (mW)
- 2)R = distance to the center of radiation of antenna (in centimeter)
- 3)MPE limit = 1mW/cm²

Test Mode	Frequency Band (MHz)	Max EIRP (dBm)	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit of Power Density S(mW/cm ²)	Result
5G NR N48	3550~3700	39	26	0.935	1	Pass
5G NR N78	3550~3700	39	26	0.935	1	Pass

According to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

--End of the Report--



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