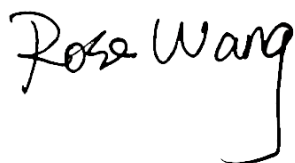


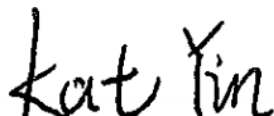
RF Exposure Evaluation Report

APPLICANT : BTI Wireless
EQUIPMENT : LTE CAT12 Outdoor CPE
BRAND NAME : BTI Wireless
MODEL NAME : CP880-B
FCC ID : WBKCP880-B2
STANDARD : 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

We, Sporton International (Kunshan) Inc., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.



Reviewed by: Rose Wang / Supervisor



Approved by: Kat Yin / Manager



Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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**Revision History**

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|--------------------------|---------------|
| FA082614 | Rev. 01 | Initial issue of report. | Sep. 03, 2020 |
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1. Administration Data

1.1. Testing Laboratory

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

| Testing Laboratory | | |
|--------------------|--|--------------------------------|
| Test Firm | Sporton International (Kunshan) Inc. | |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958 | |
| Test Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | CN1257 | 314309 |

| Applicant | |
|--------------|---|
| Company Name | BTI Wireless |
| Address | 6185 Phyllis Drive #D, Cypress, California 90630, United States |

| Manufacturer | |
|--------------|---|
| Company Name | BTI Wireless |
| Address | 6185 Phyllis Drive #D, Cypress, California 90630, United States |

2. Description of Equipment Under Test (EUT)

| Product Feature & Specification | |
|--|--|
| EUT Type | LTE CAT12 Outdoor CPE |
| Brand Name | BTI Wireless |
| Model Name | CP880-B |
| FCC ID | WBKCP880-B2 |
| Wireless Technology and Frequency Range | LTE Band 42: 3552.5 MHz ~ 3597.5 MHz LTE Band 43: 3602.5 MHz ~ 3697.5 MHz LTE Band 48: 3552.5 MHz ~ 3697.5 MHz |
| Mode | LTE: QPSK, 16QAM, 64QAM |
| Antenna Gain | LTE Band 48 : 16 dBi Fixed Internal Antenna |
| HW Version | V1.1.0 |
| SW Version | ST2.0.4 |
| EUT Stage | Identical Prototype |
| Remark: | |
| 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description. 2. This is a test report for change in FCC ID, there is no difference on the product design between FCC ID: WBKCP880-B2 and Original FCC ID: 2AU8HSRW410, all the test results are leveraged from original FCC ID: 2AU8HSRW410, report number FA070403. | |

| Comments and Explanations: |
|---|
| 1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. 2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer. |

3. Maximum RF Tune Up power among production units

<LTE>

| Mode | | Maximum Average power(dBm) |
|------|---------------|----------------------------|
| LTE | Band 42/43/48 | 22.00 |

4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposures | | | | |
| 0.3-3.0 | 614 | 1.63 | *(100) | 6 |
| 3.0-30 | 1842/f | 4.89/f | *(900/f ²) | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | | | f/300 | 6 |
| 1500-100,000 | | | 5 | 6 |
| (B) 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 |

The MPE was calculated at **25 cm** to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna



5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

| Band | Frequency (MHz) | Antenna Gain (dBi) | Maximum Power (dBm) | Maximum EIRP (dBm) | Maximum EIRP (W) | Average EIRP (mW) | Power Density at 25cm (mW/cm ²) | Limit (mW/cm ²) |
|-------------|-----------------|--------------------|---------------------|--------------------|------------------|-------------------|---|-----------------------------|
| LTE Band 48 | 3552.5 | 16.00 | 22.00 | 38.000 | 6.310 | 6309.573 | 0.804 | 1.000 |

Note:

1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum power density to do MPE analysis.
3. LTE band 42/43 covered by LTE band 48 with the same power level, so only chose LTE band 48 to perform standalone power density calculation.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

-----THE END-----