


# 1 Cover Page

## ***RF Exposure Evaluation Report***

**Application No.:** KSCR2411002412AT  
**FCC ID:** WBKR23208  
**Applicant:** BTI Wireless  
**Address of Applicant:** 11205 Knott Avenue-Suite A, Cypress, CA 90630, United States  
**Manufacturer:** BTI Wireless  
**Address of Manufacturer:** 11205 Knott Avenue-Suite A, Cypress, CA 90630, United States  
**Equipment Under Test (EUT):**  
**EUT Name:** Remote Unit  
**Model No.:** PS-R232  
**Trade mark:**   
**Standard(s) :** FCC Rules 47 CFR §2.1091  
KDB447498 D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2024-12-09  
**Date of Test:** 2024-12-13 to 2025-01-13  
**Date of Issue:** 2025-01-22

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Revision Record			
Version	Description	Date	Remark
00	Original	2025-01-22	/

Authorized for issue by:			
Tested By		Kass Gao	
		Kass Gao /Project Engineer	
Approved By		Terry Hou	
		Terry Hou /Reviewer	



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### 3 General Information

#### 3.1 General Description of E.U.T.

Power Supply:	AC 100-240V 50/60Hz or DC 48V or DC 24V
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#### 3.2 Technical Specifications

Frequency Band:	851MHz to 862MHz 862MHz to 869MHz
Antenna Type:	External Antenna
Antenna Gain:	0 dBi for 851MHz to 862MHz (Provided by manufacturer) 0 dBi for 862MHz to 869MHz (Provided by manufacturer)
Modulation Type:	TETRA/P25/DMR/CQPSK/FM
Nominal Output Power:	37±1dBm
Nominal gain:	47dB

**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.

### 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. Sample source: sent by customer.

### 3.4 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 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 <sup>2</sup> )	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 <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR241100241201, KSCR241100241202

### 5.2 MPE Calculation

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

Note:

1) P (mW)

2) R = distance to the center of radiation of antenna (in centimeter)

Frequency Band (MHz)	Max Tune up (dBm)	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density S(mW/cm <sup>2</sup> )	Result
851 ~ 862	38	46	0.237	0.57	Pass
862 ~ 869	38	46	0.237	0.57	Pass

#### Simultaneous transmission:

Frequency Band (MHz)	Max Tune up(dBm)	Power Density S at R = 46 cm (mW/cm <sup>2</sup> )	Limit of Power Density S(mW/cm <sup>2</sup> )	Ratio (Power Density/Limit)	Limit
851 ~ 862	38	0.237	0.57	0.832	1
862 ~ 869	38	0.237	0.57		

Note:

The EUT can support two band simultaneous transmitted.

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

--End of the Report--