


1 Cover Page

RF Exposure Evaluation Report

Application No.: KSCR2411002411AT
FCC ID: WBKR23207
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 2025-02-20
Date of Issue: 2025-02-20

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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.

Compliance Certification Services (Kunshan) Inc.
程智电子科技（昆山）有限公司

No.10 Weiye Road, Development Zone, Kunshan, Jiangsu, China
中国·江苏省昆山开发区伟业路10号 215301

t (86-512)57355888
f (86-512)57370818

www.sgsgroup.com.cn
sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Revision Record			
Version	Description	Date	Remark
00	Original	2025-02-20	/

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



2 Contents

	Page
1 Cover Page	1
2 Contents	3
3 General Information	4
3.1 General Description of E.U.T.	4
3.2 Technical Specifications.....	4
3.3 Test Location.....	5
3.4 Test Facility	5
4 Test Standards and Limits	6
4.1 FCC Radiofrequency radiation exposure limits:.....	6
5 Measurement and Calculation.....	7
5.1 Maximum transmit power	7
5.2 MPE Calculation.....	7

3 General Information

3.1 General Description of E.U.T.

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

3.2 Technical Specifications

Frequency Band:	758MHz to 768MHz 769MHz to 775MHz
Antenna Type:	External Antenna
Antenna Gain:	0 dBi for 758MHz to 768MHz (Provided by manufacturer) 0 dBi for 769MHz to 775MHz (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 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

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR241100241101, KSCR241100241102

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 ²)	Limit of Power Density S(mW/cm ²)	Result
758 ~ 768	38	46	0.237	0.51	Pass
769 ~ 775	38	46	0.237	0.51	Pass

Simultaneous transmission:

Frequency Band (MHz)	Max Tune up(dBm)	Power Density S at R = 46 cm (mW/cm ²)	Limit of Power Density S(mW/cm ²)	Ratio (Power Density/Limit)	Limit
758 ~ 768	38	0.237	0.51	0.929	1
769 ~ 775	38	0.237	0.51		

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--