

Report No.: 18360WC30012501 FCC ID: 2BC23H2500MV2500 Page 1 of 22

# **FCC Test Report**

Applicant Wattbricks Products Inc

: 337 N Veniyard, Ontario CA 91764 Address

Product Name **PORTABLE POWER STATION** 

: Oct. 16, 2023 **Report Date** 



Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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Applicant	:	Wattbricks Products Inc
Manufacturer	,e <sup>je</sup>	Huizhou Intelligent Energy Co.
Product Name	bore	PORTABLE POWER STATION
Test Model No.	AND	H2500Pro
Reference Model No.	: p	N/A Anbo Anbo
Trade Mark	:	N/A dek And
Rating(s)	:	Please refer to page 6
Test Standard(s)	pote.	47 CFR Part 15.209

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Ltd.

Date of Receipt:

Sept. 23, 2023

Date of Test:

Sept. 23, 2023 to Oct. 11, 2023

Stella Zhu

(Stella Zhu)

Idward pan

(Edward Pan)

Approved & Authorized Signer:

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Prepared By:



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#### **Revision History**

Report Vers		Description	Issued Date					
R00	botek Ant	otek	Original Issue.	Anbotek	Anbore	Oct. 16	, 2023	Anbote
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or Annotek	Anboten	Anorebote	k Anbotek	Anbor	A A	Anbotek	Anboten	e). b

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#### 1. General Information

#### 1.1. Client Information

Applicant	:	Wattbricks Products Inc
Address	:	337 N Veniyard,Ontario CA 91764
Manufacturer	:	Huizhou Intelligent Energy Co., Ltd.
Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou , China
Factory	:	Huizhou Intelligent Energy Co., Ltd.
Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou , China

### 1.2. Description of Device (EUT)

NV V	· · · · · · · · · · · · · · · · · · ·	
Product Name	:	PORTABLE POWER STATION
Test Model No.	:	H2500Pro
Reference Model No.	:	N/A <sup>potek</sup> Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	N/AAnbor tek Anborek Anbore Ant borek Anborek Anbor
Test Power Supply	:	AC 120V, 60Hz/DC 51.52V Battery inside/DC 12V
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anborek Anborek Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	110.1-205kHz
Number of Channel	:	1 Ante Anbotek Anbotek Anbotek Anbote Ante
Modulation Type	:	ASK And hotek Anbotek And stek Anbotek Anbote An
Antenna Type	:	Loop antenna
Antenna Gain(Peak)	:	0'dBi ak botek Anbotek Anbotek Anbotek Anbotek Anbotek
(2) For a more detaile User's Manual.	d f	ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the he product is DC 12-75V, only DC 12V is selected for testing.)

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### Anbotek **Product Safety**

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Rating(s):

## WATTBRICKS PORTABLE POWER STATION

- Type: H2500Pro
   Battery Capacity: 51.52V, 40Ah/2060.8Wh
   AC Input: 100V-130V-12.5A, 60Hz, 1500W
   PV Input: DC 12V-75V=25A, 800W Max
   AC Output × 4: Pure Sine Wave 120V-60Hz, 2500W
   AC Destination of 2500W
- AC Parallel Interface: 2500W
   After Being Connected AC Output: 4800W
- DC Output ×2 + Cigarette Lighter Socket Output: Total 12V--10A
- IOTAI 12V--10A VISB-A Output × 2: 5V--3A, 9V--2A, 12V--1.5A, 18W Max USB-C Output × 2: 5V/9V/12V/15V/20V--3A, 20V--5A, 100W Max Wireless Charge: 10W Operating Temp: 14 to 104°F (-10 to 40°C) Charging Temp: 32 to 104°F (0 to 40°C) Date Code:

## \_\_\_\_\_ [support@wattbrick.com]

on is subject to the followin rference, and (2) this device



- A WARNING!
  - Do not short-circuit the unit. To avoid short-circuiting, keep the unit away from all metal objects (e.g.coins, hair-pins, keys, etc.). Do not heat the unit, or dispose of it in fire, water or other liquids. Keep away from high

  - Do not heat the unit, or onspose or with the paway from high humidity, dusty places.
     Do not expose the unit to direct sunlight. Keep away from high humidity, dusty places.
     Do not disassemble or reassemble this unit.
     Do not dipp and place heavy objects on, or allow strong impact to this unit.
     This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been a supervision or instruction concerning use of the appliance by a person responsible for their supervision.

- sarety. Children should be supervised to ensure that they do not play with the appliance. The unit may become hot when charging. This is normal. Be careful when handling. Use the unit properly to avoid electronic shock. The product is only used for emergency power station, it can not replace the standard DC or AC power of household appliances or digital products. Do not overcharge the internal battery. See Instruction Manual.

#### AVERTISSEMENT!

- Ne court-circuitez pas l'appareil. Pour éviter tout court-circuit, éloignez l'appareil de tout objet mé tallique (par exemple, pièces de monnaie, épingles à cheveux, clés, etc.).
   Ne chauffez pas l'appareil et ne le jetez pas dans le feu, l'eau ou d'autres liquides. Tenir à l'écart des températures élevées. N'exposez pas l'appareil à la lumière directe du soleil.
   Penir à l'écart des endroits humides et poussièreux.
   Ne démontez pas et ne réassemblez pas cet appareil.
   Ne démontez pas de chocs violents sur cet annareil.

- cet appareil
- cet appareil. Crt appareil n'est pas destiné à être utilisé par des personnes(y compris des enfants) ayant des capacités physiques, sensorielles ou mentales réduites, ou un manque d'expérience et de connaissances, à moins qu'elles n'aient reçu une supervision ou des instructions concernant. L'utilisation de l'appareil par une personne responsable de leur sécurité. Les enfants doivent être surveillés pour s'assurer qu'ils ne jouent pas avec l'appareil. L'appareil peut devenir chaud pendant la charge. C'est normal. Soyez prudent lors de la manipulation. Litilisation.

- mampuatorn. Utilisez l'appareil correctement pour éviter les chocs électroniques. Le produit n'est utilisé que pour la centrale électrique de secours, il ne peut pas remplacer l'alimentation CC ou CA standard des appareils ménagers ou des produits numériques. Ne pas surcharger la batterie interne. Consulter le manuel d'utilisation.

H2500ProllM V1.0.01 / 3.06.04.0619

#### 1.3. Auxiliary Equipment Used During Test

Title Manufacturer Model No. Serial N	
	0.
Wireless load       BAECOAR       15W Smart wireless         Wireless load       BAECOAR       charger fixture wireless       /         charging       /       /       /	Anboten

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#### 1.4. Description of Test Modes

Pretest Modes	Descriptions
An abotek TM1nboten Ar	AC charging+WPT (AC 120V, 60Hz)
K Anborek TM2 Anbore	DC charging+WPT (DC 12V)
otek AnboitM3 Anboito	WPT Mode (DC 51.52V Battery inside)

#### 1.5. Measurement Uncertainty

Parameter	Uncertainty					
Conducted emissions (AMN 150kHz~30MHz)	3.4dB botek Anbotek Anbo					
Radiated emissions (Below 30MHz)	3.53dB					
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB					
The measurement uncertainty and decision risk ev This uncertainty represents an expanded uncertain confidence level using a coverage factor of k=2.						

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#### 1.6. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anobotek / Anboten	P
Conducted Emission at AC power line	Mode1	PAND
Emissions in frequency bands (below 30MHz)	Mode1, 2, 3	PAR
Emissions in frequency bands (30MHz - 1GHz)	Mode1, 2, 3	nbole P.
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek	Anbone

Anbo

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#### 1.7. Description of Test Facility

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

#### FCC-Registration No.:184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

#### **ISED-Registration No.: 8058A**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited. 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

#### 1.8. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
  - 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
  - 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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#### 1.9. Test Equipment List

Conducted Emission at AC power line

00	· P. V	and Ano	.0	K	pr. V	the states
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A Anbo	rek /Anbotek	ek Anbo
	all hor	be.	yer not		10 K	ber.

Emis	sions in frequency ba	ands (below 30MHz)				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 <sup>10</sup> 1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
P.2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
3Ant	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2022-10-23	2023-10-22
<sub>e</sub> * 4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Anbotek Ant	oter / Anbo

Emis	sions in frequency ba	ands (30MHz - 1GHz)	Anbotek			
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 <sup>nb</sup>	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2 🎙	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4 tek	EMI Test Software EZ-EMC	SHURPLE	N/A	M/A N/A	Anbotek	Anboten A

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#### 2. Antenna requirement

botek Anbo	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
And k hotek	ensure that no antenna other than that furnished by the responsible party
Test Requirement:	shall be used with the device. The use of a permanently attached antenna or
Ar. stek subot	of an antenna that uses a unique coupling to the intentional radiator shall be
ak Aupo. A.	considered sufficient to comply with the provisions of this section.

#### 2.1. Conclusion

The antenna is a Loop antenna which permanently attached, and the best case gain of the antenna is 0 dBi . It complies with the standard requirement.

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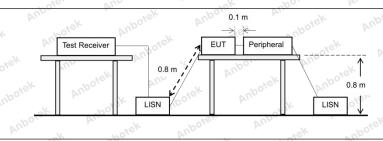
#### 3. Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN).		
Phil Phil	Frequency of emission (MHz) Conducted limit (dBµV)		Anbore A
aboten Anbe	notek Anbort Ant	Quasi-peak	Average
- wek	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	56 Anbor	46 noot
Anbotek Anbote	5-30 Met Moone Ame	60 And And	50
	*Decreases with the logarithm of the	e frequency.	Anboten Ano
Test Method:	ANSI C63.10-2020 section 6.2	Anbote. And atek	Anbotek Anbo
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-

### 3.1. EUT Operation

Operating Environment:			
Test mode:	1: TM1: AC	charging+	WPT

#### 3.2. Test Setup



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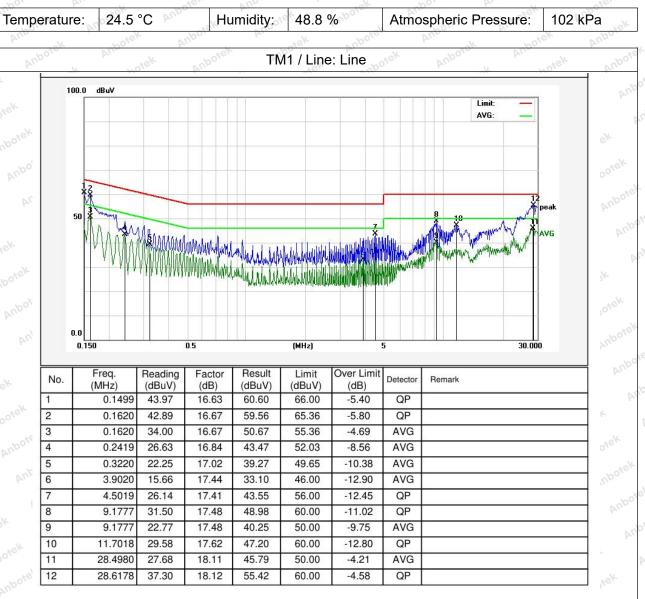
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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#### 3.3. Test Data

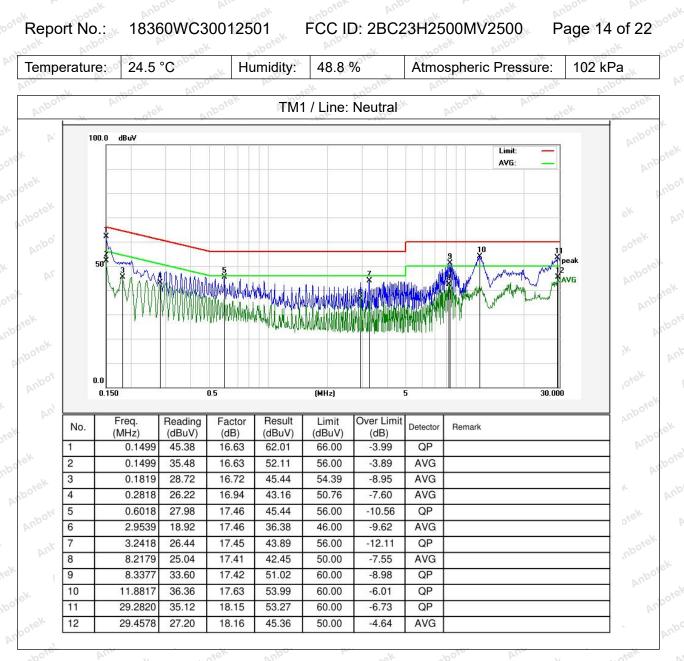


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#### Note:Only record the worst data in the report.

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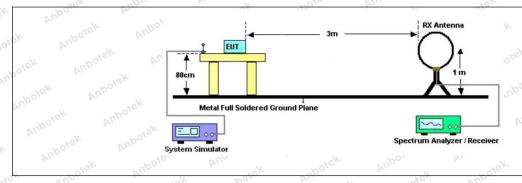
#### 4. Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209		
And Anbotek Anbote	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
All	0.009-0.490	2400/F(kHz)	300 010
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	tel 30 Anbo
	30-88	100 **	3 boten
	88-216	150 **	no 3 Am
	216-960	200 **	3rek Anbor
	Above 960	500	3
	limits in paragraphs (a)and However, the peak field st maximum permitted avera under any condition of mo	r frequencies above 1000 MHz d (b)of this section are based o rength of any emission shall no ge limits specified above by m dulation. For point-to-point ope n, the peak field strength shall	n average limits. ot exceed the ore than 20 dB ration under
Test Method:		s along the antenna azimuth.	
	1 1 1 0 0 0 0 1 0 2020 300000		
Procedure:	ANSI C63.10-2020 sectior	NOO. N.	Anbotek Anbote.

#### 4.1. EUT Operation

Operating Envir	onment:		
Test mode:	1: TM1: AC ch 2: TM2: DC ch 3: TM3: WPT	harging+WPT	Anbor ak Anbor

#### 4.2. Test Setup



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6

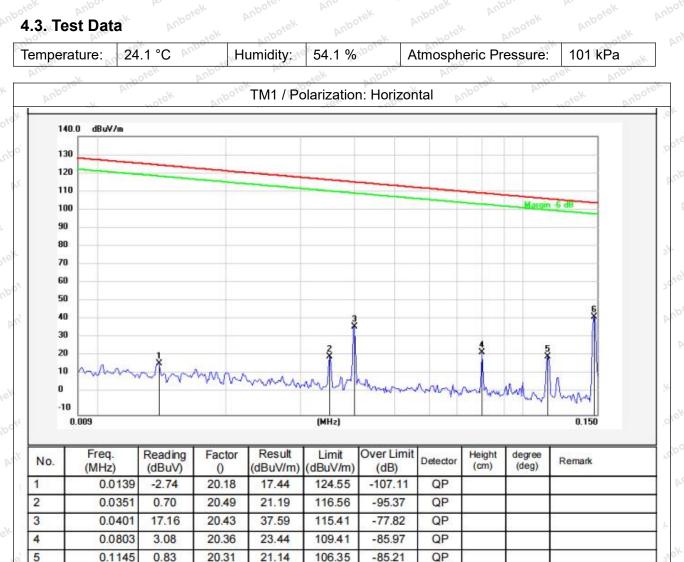
0.1474

22.44

20.33

42.77

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104.17

QP

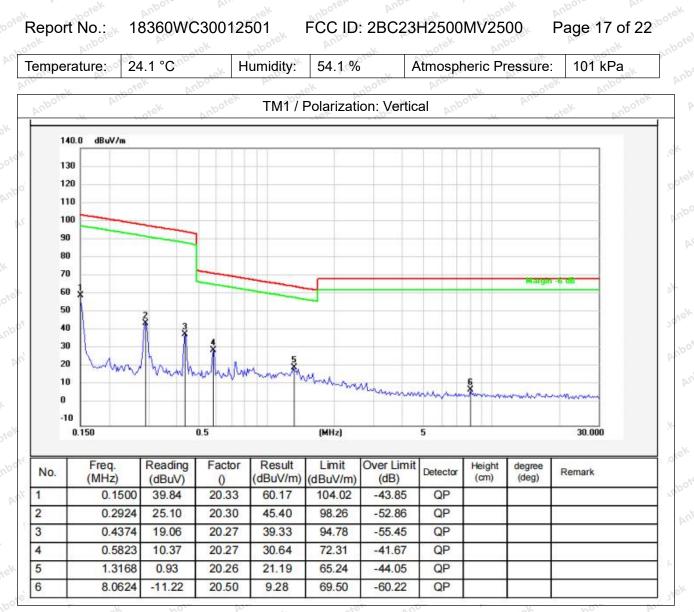
-61.40

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Note:Only record the worst data in the report.

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#### 5. Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209		
And Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 oten
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30 And ak hote	30 prib <sup>0</sup>
nbote, And lok	30-88	100 **	3 botek
	88-216	150 **	3
And	216-960	200 **	3 lek Anbor
aboten And	Above 960	500 tek sporter	3
	However, operation within sections of this part, e.g.,	these frequency bands is permi	r 470-806 MHz. Itted under other
botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	sections of this part, e.g., §§ 15.231 and 15.241. As shown in § 15.35(b), fo limits in paragraphs (a)and However, the peak field str maximum permitted avera- under any condition of mo- paragraph (b)of this sectio	r frequencies above 1000 MHz, l (b)of this section are based on ength of any emission shall not ge limits specified above by mo dulation. For point-to-point opera n, the peak field strength shall n	the field strength average limits. exceed the re than 20 dB ation under
potek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	sections of this part, e.g., §§ 15.231 and 15.241. As shown in § 15.35(b), fo limits in paragraphs (a)and However, the peak field str maximum permitted avera- under any condition of mo- paragraph (b)of this section millivolts/meter at 3 meters	r frequencies above 1000 MHz, l (b)of this section are based on rength of any emission shall not ge limits specified above by mo dulation. For point-to-point opera n, the peak field strength shall n s along the antenna azimuth.	the field strength average limits. exceed the re than 20 dB ation under
Test Method:	sections of this part, e.g., §§ 15.231 and 15.241. As shown in § 15.35(b), fo limits in paragraphs (a)and However, the peak field str maximum permitted avera- under any condition of mo- paragraph (b)of this sectio	r frequencies above 1000 MHz, l (b)of this section are based on rength of any emission shall not ge limits specified above by mo dulation. For point-to-point opera n, the peak field strength shall n s along the antenna azimuth.	the field strength average limits. exceed the re than 20 dB ation under

#### 5.1. EUT Operation

Operating Envir	ronment:
Test mode:	1: TM1: AC charging+WPT 2: TM2: DC charging+WPT 3: TM3: WPT Mode

#### Shenzhen Anbotek Compliance Laboratory Limited

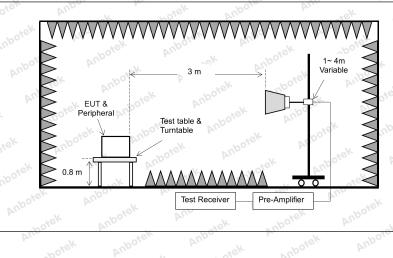
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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#### 5.2. Test Setup



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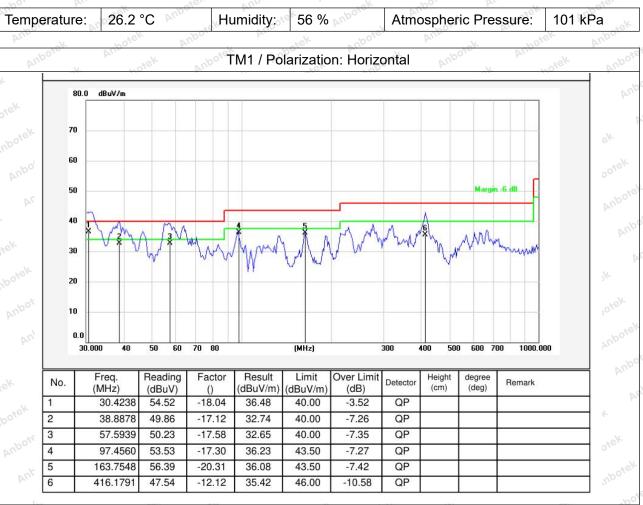
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com



Anbotek Product Safety

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#### 5.3. Test Data

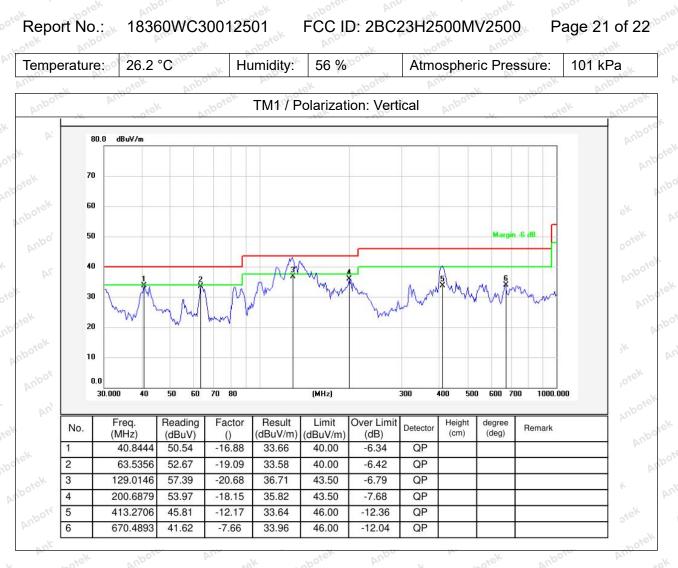


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Note:Only record the worst data in the report.

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#### **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

#### APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

#### **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report ----

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