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Report No.:182512C400451102 FCC ID: 2BKBF-MINIBOX

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# FCC Test Report

Applicant : Tuqu (Huizhou) Technical Service Co., Ltd

Address

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401-A1 and 402-B1, Building 9, Phase I of Intelligent Manufacturing Port, Huicheng Bay Area, Liandong U Valley, Shuikou Street, Huizhou City, China

Product Name : USB wireless adapter

Report Date : Sept. 11, 2024

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# Shenzhen Anbotek Compliance Laboratory Limited

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### Shenzhen Anbotek Compliance Laboratory Limited

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



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Report No.:182512C400451102 Anbotek FCC ID: 2BKBF-MINIBOX

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7. Emissions in non-res	stricted frequency	/ bands	Am	Anbote	<u>, 10</u>		dn .
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### Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Fechnology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China, K Anbotek Anb Tel:(86)0755-26066440 Email:service@anbotek.com Anbo







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,botek Hotline 6 400-003-0500 www.anbotek.com<sup>ove</sup> AND

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#### Report No.: 182512C400451102 FCC ID: 2BKBF-MINIBOX

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# TEST REPORT

Applicant	Anbo	Tuqu (Huizhou) Technical Service Co., Ltd
Manufacturer	P	Tuqu (Huizhou) Technical Service Co., Ltd
Product Name	:	USB wireless adapter
Model No.	e* :	Mini SE
Trade Mark	pope.	CarlinKit, Loadkey
Rating(s)	And	Input: 5V1A
Test Standard(s)	:	47 CFR Part 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2020

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.

Date of Receipt:

Jul. 16, 2024

Date of Test:

Prepared By:

Jul. 17, 2024 to Aug. 29, 2024

Tu Tu Hong

(TuTu Hong)

Idward pan

(Edward Pan)

Hotline

www.anbotek.com

400-003-0500

Approved & Authorized Signer:

#### Shenzhen Anbotek Compliance Laboratory Limited

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### Anbotek Revision History

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Report Version			Descriptio	n	Issue	ek A	
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Anbolek	Anboren	Anbo	Anbotek	Anbornotek	Anbotek	Anborentek	A nbotek
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### Anbotek 1. General Information

### 1.1. Client Information

Applicant	: Tuqu (Huizhou) Technical Service Co., Ltd					
Address	<ul> <li>401-A1 and 402-B1, Building 9, Phase I of Intelligent Manufacturing Port,</li> <li>Huicheng Bay Area, Liandong U Valley, Shuikou Street, Huizhou City, China</li> </ul>					
Manufacturer	: Tuqu (Huizhou) Technical Service Co., Ltd					
Address	<ul> <li>401-A1 and 402-B1, Building 9, Phase I of Intelligent Manufacturing Port, Huicheng Bay Area, Liandong U Valley, Shuikou Street, Huizhou City, China</li> </ul>					
Factory	: Tuqu (Huizhou) Technical Service Co., Ltd					
Address	<ul> <li>401-A1 and 402-B1, Building 9, Phase I of Intelligent Manufacturing Port, Huicheng Bay Area, Liandong U Valley, Shuikou Street, Huizhou City, China</li> </ul>					
1.2. Description of Device (EUT)						

### 1.2. Description of Device (EUT)

-V	71	ter the second sec
Product Name	:	USB wireless adapter
Model No.	:	Mini SE Andorek Andorek Andorek Andore
Trade Mark	:	CarlinKit, Loadkey
Test Power Supply	:	DC 5V notek Andrew Andrew Andrew Andrew Andrew
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	NAK Anbolek Anbol tek anbolek Anbole An
RF Specification		vo.
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40 mbotek Anbote Anto Anto Anto Anbotek
Modulation Type	:	GFSK Andrek Andre Andrek Andrek Andrek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-13.7dBi hotek Anbolek Anbolek Anbolek Anbolek
Remark:		Anbor An otek Anbore An Lek nootek ARO
		ation are provided by customer.
(2) For a more detaile User's Manual.	eu le	eatures description, please refer to the manufacturer's specifications or the

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User's Manual.

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# Anbotek Shenzhen Anbotek Compliance Laboratory Limited

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### 1.3. Auxiliary Equipment Used During Test

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1.3. Auxiliary Equip	ment Used During Tes	botek Anbotek	Anbore An.	tek Ar
Title	Manufacturer	Model No.	Serial No.	
Hyundai Mobis	HYUNDAI MOBIS CO.,Ltd	APB12F0CG Input: DC 12V, 5A	k Anolyk	Anbotek
Anbor A. Anbotek	Anbote. And	Anbotek Anbo	otek Anbotek	Anbore

### 1.4. Operation channel list

Operation Band:

- N-	D.1.							
Channel Frequency (MHz)				Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2402	nbot 10	2422	20	2442	30	× 2462 no ve		
2404	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2424	21 10	2444,0010	31 Ano	2464		
2406	12 nbotek	2426	22	oter 2446 And	32 M	2466		
2408	13	10 <sup>k</sup> 2428 M <sup>nbo</sup>	23	2448	nbote 33	2468		
oolek 2410 hoo	14	2430	1 <sup>10</sup> 24	2450	34	2470		
100 <sup>10</sup> 2412	15	2432	25	2452	3500tek	2472		
2414	Anboild	2434	26	2454	36 Aupo	2474 <sup>Anbo</sup>		
2416	A17	2436	27 Anbote	2456	otek 37	100 <sup>10</sup> 2476		
2418	18 nbote	2438	ter 28 An	2458	38	2478		
2420	over 19 Ant	2440	29	2460	39 <sub>6</sub> K	2480		
000 100	ien Aun	2420 19	2420 19 2440	2420 19 2440 29	2420 19 2440 29 2460	All oten and ext abo		

## 1.5. Description of Test Modes

Pretest Modes	Descriptions					
Anboro TM1 potek	Keep the EUT works in continuously transmitting mode (BLE 1M)					
Anbore TM2	Keep the EUT works in continuously transmitting mode (BLE 2M)					
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#### Report No.:182512C400451102 Anbotek FCC ID: 2BKBF-MINIBOX Anbol Anbotek

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# Anbotek 1.6. Measurement Uncertainty

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Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dBiek Anbole Antoni
Occupied Bandwidth	925Hz, otek Anbole And And
Conducted Output Power	0.76dB thotek Anbore And thotek
Power Spectral Density	0.76dB
Conducted Spurious Emission	A 1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

level using a coverage factor of k=2

### 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	totek Axooten	Ann Bek
Conducted Emission at AC power line	Mode1,2	And
Occupied Bandwidth	Mode1,2	P
Maximum Conducted Output Power	Mode1,2	PAN
Power Spectral Density	Mode1,2	P
Emissions in non-restricted frequency bands	Mode1,2	Anboter
Band edge emissions (Radiated)	Mode1,2	Aupher
Emissions in frequency bands (below 1GHz)	Mode1,2	Bupok
Emissions in frequency bands (above 1GHz)	Mode1,2	A P N

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N: N/A, not applicable

# Anbotek Shenzhen Anbotek Compliance Laboratory Limited

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### Report No.:182512C400451102 FCC ID: 2BKBF-MINIBOX

### 1.8. Description of Test Facility

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

#### FCC-Registration No.:434132

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. 434132.

### **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

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Product Safety

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

### 1.9. 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.
  - 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.

### Shenzhen Anbotek Compliance Laboratory Limited

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# Anbotel 1.10. Test Equipment List

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Aupoten	Cond	ucted Emission at A	C power line	h nbotek	Anbore	k All botek	Anboten
Anbo	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
P	n <sup>boten</sup>	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055 M	2024-01-18	2025-01-17
botek	Anbo 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
nbotek	3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2024-01-17	2025-01-16
Am	st <sup>el</sup> 4	Artificial Mains Network	Schwarzbeck	PVDC 8301	8301- 00097	2024-01-17	2025-01-16
	Anto tek	Artificial Power Network	Schwarzbeck	PVDC 8301	8301- 01021	2024-01-17	2025-01-16
lek.	6 <sup>nbc</sup>	Software Name EZ-EMC	Farad Technology	ANB-03A	Ando N/A	Anbois	Anbotet
10.		700 N	v volo	DI	191	6 MD-	Y.

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#### Occupied Bandwidth Maximum Conducted Output Power Power Spectral Density

Powe	r Spectral Density	ed frequency bands	Anbote,	ek Anb <sup>c</sup>	tek Anbote	otek Anbote	e¥-
ltem	Equipment	Manufacturer	Model No.	Serial No.	No Last Cal. Ani	Cal.Due Date	100%
1Anb	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	Anto N/A	2023-10-16	2024-10-15	An
<u>ж</u> 2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19	
,3 <sup>6</sup>	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05	ek.
4 ote	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21	100'
5 1	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11	D'
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03	
ek	Auporo, Au.	-botek Anbotek	Anorek	Anbote	k Aupor	ek nbolek	
NoK.	Anbore	Al. abolet	AUD	· ·	otek Anbo	. p.	Yoy.

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por		edge emissions (Ra sions in frequency ba		Anbotek	Anbo	Anbotek	Anbore
Anbor	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Anbo	1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
P	2 50'	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
hotek	3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
Anbotek	4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Albotek	Anbor
And	o <sup>te</sup> 5	Horn Antenna	hotek A-INFO novek	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
	Anb6rek	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	ote102150	2024-05-06	2025-05-05
otek	$X^{\nu \rho_c}$	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06
N		Note Atte	oten	VUD	No.	. db0	p. v

Emissions in frequency bands (below 1GHz)
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ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3410	Bilog Broadband Antenna	Schwarzbeck	VULB9163	110 345	2022-10-23	2025-10-22
4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A <sup>bover</sup>	N/A	otek Anbote	K Ando

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# Anbotek 2. Antenna requirement

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20.	18 A	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to	
	tek Anbour	ensure that no antenna other than that furnished by the responsible party	ex-
VUD.	Test Requirement:	shall be used with the device. The use of a permanently attached antenna or	
	nboten Ano	of an antenna that uses a unique coupling to the intentional radiator shall be	botek
	atek anboten	considered sufficient to comply with the provisions of this section.	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		

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### 2.1. Conclusion

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The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is -13.7dBi. It complies with the standard requirement. AUPO Anbote

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# 3. Conducted Emission at AC power line

Allek Anboltek	Refer to 47 CFR 15.207(a), Excep section, for an intentional radiator public utility (AC) power line, the ra	that is designed to be con	nected to the				
Test Requirement:	back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 μH/50 ohms (LISN).	y frequency or frequencie exceed the limits in the f	s, within the ollowing table, as				
Ann	Frequency of emission (MHz)	Conducted limit (dBµV)	ek nbolet				
Anbore An	lek spoter And	Quasi-peak	Average				
The second second	0.15-0.5	66 to 56*	56 to 46*				
Test Limit:	0.5-5	56 hote A	46				
ex aboten	5-30 Jole And	60	50 oto				
Anbore An.	*Decreases with the logarithm of the frequency.						
Test Method:	ANSI C63.10-2020 section 6.2	botek Anborc	Am				
Procedure:	Refer to ANSI C63.10-2020 sectio line conducted emissions from unl		od for ac power-				
3.1. EUT Operation	all aboter Ano	K Anbotek Anbo	hotek Anbolek				

### 3.1. EUT Operation

### Operating Environment:

10.V		V 10				P.1	
Operating Envir	onment: Mo	Ver Aur	atek	Anbotek	Anbo	r obolek	Anb
Test mode:	1: TX mode(E 1M) 2: TX mode(E	"We we have a second se	nboter.	AUD	v	tek Anbo	
Anboten	2M)	Anbolek	Anbo	ek Au	oo <sup>tek</sup> p	nbole. A	nbotek
3.2. Test Setu	up Aun dr	s abote	Aupo	v.	~ otek	Anbor	p.

AND

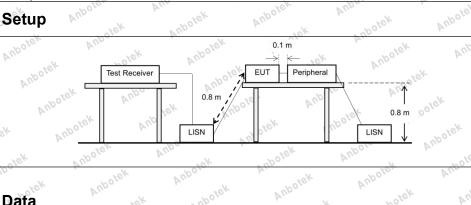
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### 3.2. Test Setup

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### 3.3. Test Data

Anbotek Not applicable. The EUT is powered by DC 5V battery inside, so there is no need to conduct this test.

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# Anbotek 4. Occupied Bandwidth

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47 CFR 15.247(a)(2)
Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
<ul> <li>11.8.1 Option 1</li> <li>The steps for the first option are as follows:</li> <li>a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less</li> </ul>
than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak.
<ul><li>d) Trace mode = max-hold.</li><li>e) Sweep = No faster than coupled (auto) time.</li><li>f) Allow the trace to stabilize.</li></ul>
g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below
the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.
11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be
employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\ge$ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation
function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.

### 4.1. EUT Operation

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nv stek	Operating Envir	onment:	. nbote	3k Auporo	-k vc	tek Anbol	er Aup	.tek
Anbe	tek Anbolek		(BLE 1M): K	eep the EUT w	orks in contin	uously transm	tting mode (BL	E
Aup,	Test mode:	1M) 2: TX mode	(BLE 2M): K	eep the EUT w	orks in contin	uously transmi	tting mode (BL	E lek
	upor h	2M)	Aupore	Alter	a nboten	And	-botek	ANDOL
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### Anbotek o'ek 4.2. Test Setup

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nbotel	otek Anbotek	6	EUT	Spec	ctrum Analyzer	Anbot	ek Anbo	rek Ant
<i>Vn</i> .	4.3. Test Data	ano tek	Anboten	Ano	Anbotek	Anbor Ar	Anbotek A	Anbotek
	Temperature:	24.8 °C	Ant Hum	idity: 51 %	Atmosp	heric Pressure:	101 kPa	Anbo

### 4.3. Test Data

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Temperature:	24.8 °C	Humidi	ty: 51 %	Atmospher	ric Pressure:	101 kPa
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Please Refer to	Appendix to	r Details.	Ano	et spotet	Anbo	v hotek

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Please Refer to Appendix for Details. Anbotek

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# Anbotek 5. Maximum Conducted Output Power

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Test Requirement:	47 CFR 15.247(b)(3)
Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power
5.1. EUT Operation	Anborek Anborek Anborek Anborek Anborek Anborek

### 5.1. EUT Operation

Operating Envir	ronment:	tek Anbote.	Aur	tek nbote	Anbo	N.
Test mode:	1: TX mode(BLE 1M) 2: TX mode(BLE 2M)	nboten And	N.	botek Ant		. otek
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### 5.2. Test Setup



### 5.3. Test Data

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nbotek	5.3. Test Data	Anbors Anborek	Anbolek	Anboten	Anbotek	Anbotek	Anborek
nbr	Temperature:	24.8 °C	Humidity:	51 % <sup>6,6</sup>	Atmospheric	Pressure:	101 kPa
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# Anbotek 6. Power Spectral Density

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47 CFR 15.247(e)
Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

### 6.1. EUT Operation

Operating Envi	ronment:	Anboter	Anv	lan Hay	otek Anbor	k h	otek
ek Anbotek		le(BLE 1M): K	eep the EUT	works in cont	inuously transm	itting mode (B	LE
Test mode:	1M) 2: TX moo	le(BLE 2M): K	eep the EUT	works in cont	inuously transm	itting mode (B	LE tek
nor r	2M)	Anbore	Amerek	Anboten	And	Anborek (	Anbo
6.2. Test Set	upotek	Anboten	Anv	Anbotek	Anbo	Anbotek	Anbor

### 6.2. Test Setup

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### 6.3. Test Data

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Temperature:	24.8 °C	Humidity:	51 %	Atn	nospheric Pressu	re: 101 kPa	
101	000		00	Re.		Du	

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# Anbotek 7. Emissions in non-restricted frequency bands

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7. Emissions in	non-restricted frequency bands
Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek Anbotek Anbotek Test, Eimit: Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3
7.1. EUT Operation	Anbore An Anborek Anboren Anborek Anborek Anborek Anbor

### 7.1. EUT Operation

Operating Envi	ronment:	tek Anboten	And	-ok noote	k Aupo.	 К.
Test mode:	1: TX mode(BLE 1M) 2: TX mode(BLE 2M)	nboten And	Ne	hotek Ant	20° - M	10K
7.2. Test Set	Aupor	Anbotek	Anbotek	Anbotek	Anbotek	Anboth

### 7.2. Test Setup



### 7.3. Test Data

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00	Temperature:	24.8 °C	Humidity:	51 % 10 Jek	Atmospheric	Pressure:	101 kPa
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Please Refer to Appendix for Details.

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## Anbotek Shenzhen Anbotek Compliance Laboratory Limited

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Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Fechnology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China Tel:(86)0755-26066440 Email:service@anbotek.com

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### Anbotek Report No.:182512C400451102 Anbotek FCC ID: 2BKBF-MINIBOX Anbot

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Test Requirement:	restricted bands, as define	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
nbotek Anbo	0.009-0.490	2400/F(kHz)	300 100
A	0.490-1.705	24000/F(kHz)	30 Anboro
Aupo. K.	1.705-30.0	30 And	30
work abotek	30-88	100 **	BIER AND
ore An.	88-216	150 **	3 tek
Lotek Anbou	216-960 Above 960	200 ** 500	3 tek
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	ing under this section shall not b Iz, 76-88 MHz, 174-216 MHz or these frequency bands is permit § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on peak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	470-806 MHz. and edges. measurements uency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section	6.10 Anoten Ano	K NOV

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### 8.1. EUT Operation

	Operating Envir	onment:	Anbo	ь "У	otek A	hbote. An	atek.	Anbotek
	Anbo		de(BLE 1M):	Keep the	EUT works i	n continuously	transmitting	mode (BLE
ŀ	Test mode:	1M) 2 <sup>.</sup> TX mor		Keen the	FUT works in	n continuously	transmitting	mode (BLE
	tek Aupotek	2M)		nbotek inc	Andorika	n oonan dously	Anbo	
	tek nbol	iek A'	nbor ok	ph. botek	Auporo	Pur Pur	ek Anbo	tek Aups
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### Anbotek otek 8.2. Test Setup

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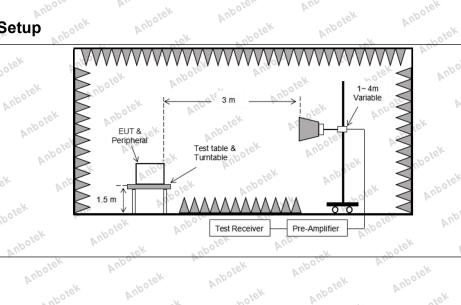
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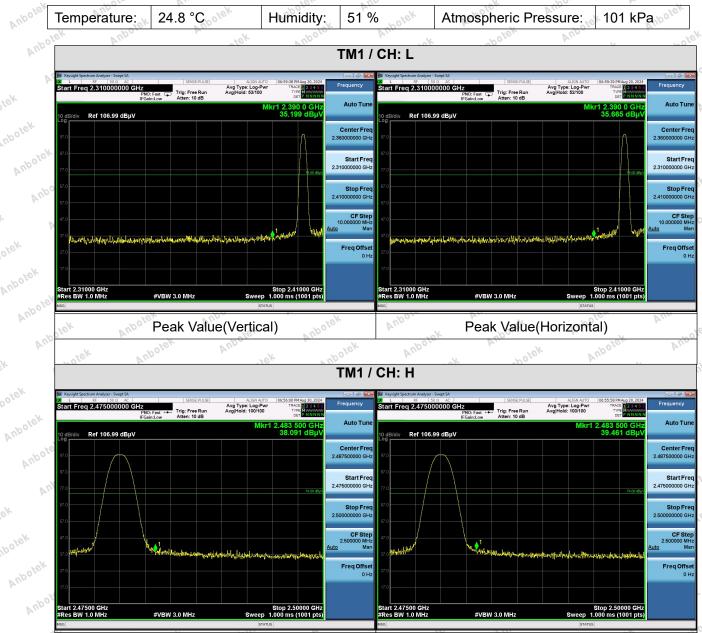
### 8.3. Test Data

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### Remark:

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1. During the test, pre-scan all modes, the report only record the worse case mode.

Note: When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable. Anbote

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Peak Value(Vertical)



Peak Value(Horizontal)

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Field strength (microvolts/meter) 2400/F(kHz) 24000/F(kHz) 30 100 **	Measurement distance (meters) 300 30
24000/F(kHz) 30	300 And 30 And
24000/F(kHz) 30	30 notes
30 Solek Anbe	1. K. K.
	30
	30 AUD
150 **	3
200 **	3 nbotek
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z, 76-88 MHz, 174-216 MHz or these frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis	470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in
664 Ander Ander	. Alla
leas Guidance v05r02	otek Anbor
	500 ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing 6.6.4

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### 9.1. EUT Operation

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Test mode:	2: ŤX mode(BLE 2	M): Keep the EUT	r works in cont	inuously transi	mitting mode (BLE
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abotek Anbo	ter Ano otek	Anbotek	Anbor	h. nbotek	Anbore Ant

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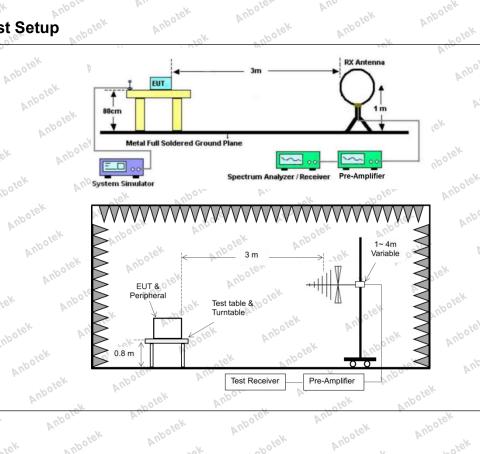
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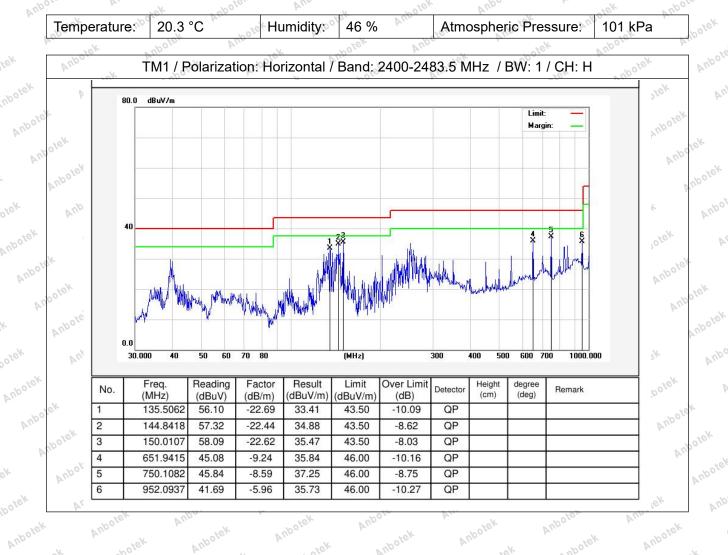
### 9.3. Test Data

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The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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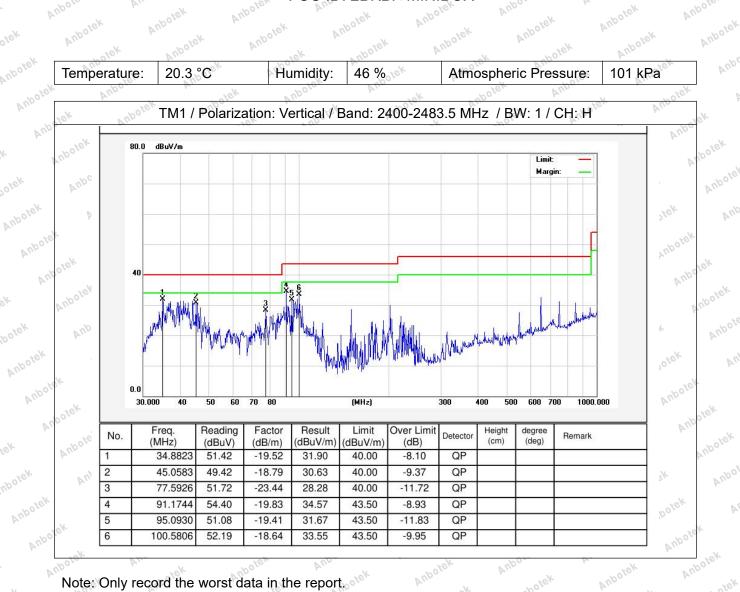
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Note: Only record the worst data in the report.

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Test Requirement:		ons which fall in the restricted ba omply with the radiated emission 5(c)).`	
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
anboten Ano	0.009-0.490	2400/F(kHz)	300
A. tek An	0.490-1.705	24000/F(kHz)	30 hupor
Aupo	1.705-30.0	30 set abotek And	30
k spolek	30-88	100 **	3ten And
Alle	88-216	150 ** Anboro	13 tek holo
otek Anbore	216-960	200 **	3 noor
oo rek	Above 960	500 Loter And	2
est Limit:	** Except as provided in pa	ragraph (g), fundamental emissi	ons from
Test Limit: Anbou Anbotek Anbot ek Anbotek Anbotek nbotek Anbotek hotek Anbotek	** Except as provided in pa intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis	e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9– ssion limits in
Test Limit: Anbor Anbotek Anbot tek Anbotek Anbotek nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	** Except as provided in pa intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq	e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9– ssion limits in
Test Limit: Anbouck Anbouck Anbouck Anbouck Anbouck Anbouck Anbouck Anbouck Anbouck Anbouck Anbouck	** Except as provided in pa intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a these three bands are base	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. b, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing 6.6.4	e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9– ssion limits in

#### Anbotek otek 10. Emissions in frequency bands (above 1GHz)

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### 10.1. EUT Operation

Operating Envir	ronment:	or k.	botek Anbr	te. An	wotek An	oolek
Anbo	1: TX mode(BLE	: 1M): Keep the	EUT works in o	continuously t	ransmitting mo	de (BLE
Test mode:	1M) 2: TX mode(BLE	2M): Keep the	EUT works in	continuously t	ransmitting mo	de (BLE
tek Anboter	2M)	Anbotek	Anbo	abotek	Anboro	P.,
wotek Anbo	tek Anbo	k anbotek	Anboro	An	Anboten	And

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#### Report No.:182512C400451102 Anbotek FCC ID: 2BKBF-MINIBOX

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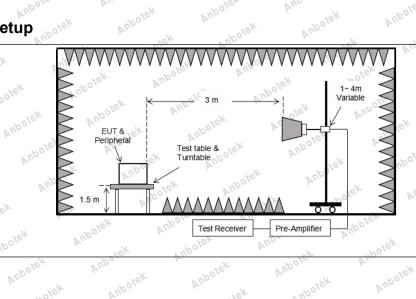
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### Anbotek otek 10.2. Test Setup

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# Anbotek 10.3. Test Data

10.3. Test Da	ta Anbotek	Anbotek	Anboic	Anbotek	Anboten	Anbotek
Temperature:	22.5 °C	Humidity:	51.1 %	Atmospheric I	Pressure:	101 kPa
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		-	TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	27.96	15.27	43.23	74.00	-30.77	Vertical
7206.00	28.11	18.09	46.20	74.00	-27.80	Vertical
9608.00	28.79	23.76	52.55	74.00	-21.45	Vertical
12010.00	* All	tek nbo	rek Aup	74.00	otek Anbo	Vertical
14412.00	potek * Anb		botek An	74.00	lek p	vo Vertical
4804.00	27.67	15.27	42.94	74.00	-31.06	Horizontal
7206.00	28.45	18.09	46.54	74.00	-27.46	Horizontal
9608.00	27.90	23.76	51.66	74.00	-22.34	Horizontal
12010.00	*nbote.	Am	( nbotek	74.00	k sbotek	Horizontal
14412.00	ex * nbote	k Aupo	where the	* 74.00 mot	Atr.	Horizontal

### Average value:

olariza		Over Lir (dB)		Limit (dBuV/	Result IBuV/m)	-	Factor (dB/m)	Reading (dBuV)	;y	Frequency (MHz)
Vertic	0.%	-22.50	) 	54.00	31.50	3	15.27	16.23	e <sup>k</sup>	4804.00
Vertic	5 <u>_</u> 1et	-18.75	ິີ	54.00	35.25	. dt	18.09	17.16	Notek	7206.00
Vertic	8	-11.98	DANDON	54.00	42.02		× 23.76	18.26	10-	9608.00
Vertic	Vup.	potek	0	54.00	Aur	nboter	otek	*	) Aupo	12010.00
Vertic	0	~otek	) v	54.00	1ek	above	.o.	er * Ar	)	14412.00
lorizo	3	-22.73	0	54.00	31.27	P.	15.27	16.00		4804.00
lorizo	3	-18.43	9 <sup>×</sup>	54.00	35.57	P.P	18.09	17.48	5.4	7206.00
lorizo	3	-12.83	Dotek	54.00	41.17	·	23.76	17.41	10M	9608.00
lorizo	nbotel	ek.	ົ	54.00	Anbore	Nay o		*AUPOLO	) oter	12010.00
lorizo	<i>b</i> .	Ma		o <sup>ve</sup> 54.00		- o.K	ter Aut	* Anbo	)	14412.00
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Anbore	Peak value:						
Anbot	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
P	4880.00	10 27.51 M	15.42	42.93	o <sup>ven</sup> 74.00 <sup>knio</sup>	-31.07	vovertical ⊳∿
,eK	7320.00	28.08	18.02	46.10	74.00	-27.90	Vertical
hotek	9760.00	28.29	23.80	52.09	74.00	-21.91	Vertical
	12200.00	Anbo*	Ann	Anbotek	74.00	-botek	Vertical
Anbotek	14640.00	*nbotek	Anbo	hotek	74.00	Am	Vertical
Anbo	4880.00	27.48	15.42	42.90	74.00	-31.10	Horizontal
b.	7320.00	28.32	18.02	46.34 <sup>nb</sup>	74.00	o <sup>rek</sup> -27.66 pr <sup>b0</sup>	Horizontal
P	9760.00	o <sup>vek</sup> 27.62 M <sup>nb</sup>	23.80	51.42	<sup>00</sup> 74.00	-22.58	Horizontal
tek.	12200.00	botek*	Anbore. A	n	74.00	Anbo	Horizontal
nbotek	14640.00	And *	nbotek	Aupor	74.00	Anbore	Horizontal
'UD-	A						

### Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	16.32	otek 15.42 And	31.74	54.00	-22.26 And	Vertical
7320.00	17.02	18.02	35.04	54.00	-18.96	Vertical
9760.00	18.11	23.80	41.91	54.00	-12.09	Vertical
12200.00	*tek	Anbor	Att	54.00	And	Vertical
14640.00	A"*	Anboten	Aupo.	54.00	Anbore	Vertical
4880.00	16.11	15.42	31.53	54.00	-22.47 <sup>00<sup>16</sup></sup>	Horizontal
7320.00	17.83 M <sup>bo</sup>	18.02	Nex 35.85 Not	54.00 <sup>Anu</sup>	-18.15	Horizontal
9760.00	17.71	100 <sup>101</sup> 23.80 Ant	41.51	54.00	-12.49	Horizontal
12200.00	knoc *	abolek	Anbor	54.00	Anboten	Horizontal
14640.00	Anbol*	An	Anboten	54.00	abotek	Horizontal
Ann Anbolek	Anbotek	Anbotek	Anbotek	Anbors	Anbotek	Anboren aborek

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#### Report No.:182512C400451102 Anbotek FCC ID: 2BKBF-MINIBOX

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Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	27.64	15.58 15.58	43.22	oter 74.00 prof	-30.78	Vertical
7440.00	28.24	17.93	46.17 AM	74.00	-27.83	Vertical
9920.00	28.99	23.83	52.82	74.00	-21.18	Vertical
12400.00	abottek	Anbors	K. bolek	74.00	Am	Vertical
14880.00	* tek	Anborek	And	74.00	Anbor	Vertical
4960.00	27.62	15.58	43.20	74.00	-30.80	Horizontal
7440.00	28.53	17.93	46.46 mo <sup>64</sup>	74.00	-27.54 NO	Horizontal
9920.00	28.00	23.83 And	51.83	o <sup>vek</sup> 74.00 p <sup>nb</sup>	-22.17	Horizontal
12400.00	*	abolek A	upo. K	74.00	Anbore A	Horizontal
14880.00	Anbor *	A	Anbolek	74.00	, nbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	17.44	15.58	33.02 And	54.00	o <sup>vek</sup> -20.98 k <sup>nb</sup>	Vertical
7440.00	18.29	17.93	36.22	54.00	-17.78	Vertical
9920.00	18.76	23.83	42.59	54.00	-11.41	Vertical
12400.00	Ant *	Anbotek	Anbo	54.00	Anbore	Vertical
14880.00	AUP	hotek	Anbotek	54.00	Anbolek	Vertical
4960.00	17.29	15.58	32.87,00 <sup>10</sup>	54.00	-21.13	Horizontal
7440.00	18.63	17.93	36.56	10 <sup>K</sup> 54.00 100	-17.44	Horizontal
9920.00	17.86	23.83	41.69	54.00	12.31 Ant	Horizontal

#### Remark:

Anbote

12400.00

14880.00

- 1. Result =Reading + Factor
- Ant2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the nbote Anbo results don't record in the report. Anb' Anbotel Anbotek

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Only the worst case is recorded in the report. 3. Anbote

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### Shenzhen Anbotek Compliance Laboratory Limited

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Report No.:182512C400451102 FCC ID: 2BKBF-MINIBOX



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

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Please refer to separated files Appendix I -- Test Setup Photograph RF Anbotek

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### 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

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Anbotek End of Report

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# Anbotek Shenzhen Anbotek Compliance Laboratory Limited

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