

Report No.: FCC ID: 2BFZ6-1 18220WC40076901 Page 1 of 30

# **FCC Test Report**

Applicant

**Skeeter Enterprises** 

Address

8184 Compass Pointe E Wynd NE, Leland, North Carolina, 28451, United States

**Stadia Neptune Product Name** 

: May 25, 2024 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





FCC ID: 2BFZ6-1

Page 2 of 30

## Contents

1. General Information	Ano		Kerport		6
1.1. Client Information 1.2. Description of Device (EUT)		Anu Anborak	hribotek borek	Anbo	6 6
1.3. Auxiliary Equipment Used Duri 1.4. Operation channel list	ng Test		,	karodna	7 7
1.5. Description of Test Modes 1.6. Measurement Uncertainty	aotek Anb			otok Ano	
1.8. Description of Test Facility	Anborok	, all and all and all and all all all all all all all all all al	An <sup>boten</sup> f		
1.10. Test Equipment List	Anbol	Anbotek			
2. Antenna requirement	Ano				12
2.1. Conclusion	sk Aupo.	stek Anbote	K pobote	tek nbo	
3. Conducted Emission at AC power line	oten Anu	101	over pob	-yr	
<ol> <li>1.1. Cheffit Mitorination</li> <li>1.2. Description of Device (EUT)</li> <li>1.3. Auxiliary Equipment Used Durin</li> <li>1.4. Operation channel list</li> <li>1.5. Description of Test Modes</li> <li>1.6. Measurement Uncertainty</li> <li>1.7. Test Summary</li> <li>1.8. Description of Test Facility</li> <li>1.9. Disclaimer</li> <li>1.10. Test Equipment List</li> <li>2. Antenna requirement</li> <li>2.1. Conclusion</li> <li>3. Conducted Emission at AC power line</li> <li>3.1. EUT Operation</li> <li>3.2. Test Setup</li> <li>3.3. Test Data</li> <li>4. Occupied Bandwidth</li> <li>4.1. EUT Operation</li> <li>4.2. Test Setup</li> <li>4.3. Test Data</li> </ol>	A horodek A horodek	hoo	nhonet k	na <sup>sato</sup> da. As <sub>tod</sub> a	
4. Occupied Bandwidth	A	Anbore	Ancobatek	Anborek	
4.1. EUT Operation 4.2. Test Setup	K	ek kubotel	Anbotek	pan <sup>boter</sup>	
4.3. Test Data	<sup>00</sup> 014		rekkupo	<u>to Pur</u>	
5. Maximum Conducted Output Power		pore Ann	Notok Pr	boten Ant	17
5.1. EUT Operation 5.2. Test Setup 5.3. Test Data	Anbotek Notek	Autoon A	paloonek 	httpoter Suborok	
6. Power Spectral Density		Anbore	Ann	popotek	
<ul> <li>4.2. Test Setup</li></ul>	Net	ek Anbore potek Anbo	ek andoi	<sup>sho</sup> daya 	
6.3. Test Data 7. Emissions in non-restricted frequency					
7.1. EUT Operation 7.2 Test Setup	Ann	Anboren	Anbo'	Antotek Antotek	
<ul> <li>7.3. Test Data</li> <li>8. Band edge emissions (Radiated)</li> <li>8.1. EUT Operation</li> </ul>	Anbu	k anbotek	Anbor	*borel	
8.1. EUT Operation	ten Anbe	<sup>to</sup> day, <sup>y</sup> ayo,	ek Aupon		
<ul> <li>8.2. Test Setup</li> <li>8.3. Test Data</li> <li>9. Emissions in frequency bands (below 9.1. EUT Operation</li> </ul>				)	<u>v</u> 20
9. Emissions in frequency bands (below	1GHz)	Antoptek	Anbo.	n	
9.2 Test Setun					23
9.3. Test Data	ek Anbote		K nbord	K	24

Shenzhen Anbotek Compliance Laboratory Limited						
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Report No.: 18220WC40076901	FCC ID: 2BFZ6-1	Page 3 of 30
10. Emissions in frequency bands (above 1GHz	z)	
10.1. EUT Operation	botek Anbol Al	26 A
10.2. Test Setup	hun her	
10.3. Test Data	and the second sec	27
APPENDIX I TEST SETUP PHOTOGRAPH	stek sobote And	
APPENDIX II EXTERNAL PHOTOGRAPH	to tek Mbor	
APPENDIX III INTERNAL PHOTOGRAPH	lage lage lage lage lage lage lage lage	

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Anbotek			Anbore An Anborek An	
Product Safety			Anbotek	
And			TC-1 Anbotek	
Report No.:	18220WC40076901	FCC ID: 2BF	Z6-1	Page 4 of 30
		And stek M		
	· Skeeter Enterp	ST REPOF	R Anbotek Anbote	
Applicant	: Skeeter Enterp	rises		
Manufacturer	: Anteral	Anbotek Anbotek		
Product Name	: Stadia Neptune	And Anbotek Anbot		
Test Model No.			tek nbote	
Reference Mode	el No. : N/A	tek nboten		
Trade Mark	Anbotek : N/A An			
Rating(s)	: Input: 5V-0.24	A (with DC 3.3V, 5000	mAh battery inside	) Anboten Anbo

#### Test Standard(s)

47 CFR Part 15.247 ANSI C63.10-2020 KDB 558074 D01 15.247 Meas Guidance v05r02

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:

Apr. 15, 2024

Date of Test:

Prepared By

Apr. 15, 2024 to Apr. 26, 2024

Nian Xiu Chen

(Nianxiu Chen)

Bolward pan

Approved & Authorized Signer:

(Edward Pan)

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## Report No.: 18220WC40076901 FCC ID: 2BFZ6-1 Page 5 of 30

#### **Revision History**

Report Vers	sion		Description			Issued	Date	
R00	otek Ant	otek	Original Issue.	Anbotek	Anbore.	May 25	, 2024	Anbc
Anbo Anborek	Anbotek	unbote.	Ant	Anbotek	Anbo K	botek	Anbotek	P,
atek anbotek	Anboten	Anusbote	k Anbotek	Anbor	otek A	nbotek	Anboten	K

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#### FCC ID: 2BFZ6-1

Page 6 of 30

## 1. General Information

#### 1.1. Client Information

Applicant	:	Skeeter Enterprises
Address	:	8184 Compass Pointe E Wynd NE, Leland, North Carolina, 28451, United States
Manufacturer	:	Anteral Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Address	:	Calle Tajonar 22. 31006, Pamplona Spain
Factory	:	Anteral Anborek Anborek Anborek Anborek Anborek Anborek
Address	:	Calle Tajonar 22. 31006, Pamplona Spain

#### 1.2. Description of Device (EUT)

Product Name	:	Stadia Neptune
Test Model No.	:	1 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Reference Model No.	:	N/Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anb
Test Power Supply	:	AC 120V/60Hz for Adapter; DC 3.3V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek

#### **RF Specification**

Operation Frequency	••	2402MHz to 2480MHz
Number of Channel	:	40 <sup>4</sup> Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK Anborek Anborek Anborek Anborek Anborek Anborek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	2 dBinbore And Anborek Anborek Anborek Anborek Anborek Anbor
Remark: (1) All of the RF specif	icat	ion are provided by customer.

(1) All of the KF specification are provided by customer.
 (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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### Report No.: 18220WC40076901 FCC ID: 2BFZ6-1 Page 7 of 30

#### 1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.	
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J	

#### 1.4. Operation channel list

**Operation Band:** 

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Ootek	2402	And 10 tek	2422	20	2442	30	2462
1 potek	2404	11	2424	21	2444	31 mbote	2464
× 2 000	2406 bott	12	otek 2426 Mot	22 Anbo	2446	ret 32 Anbe	2466
3	bote 2408 And	13	2428	otek 23 Ar	2448	botex33 N	2468
4	2410	n <sup>bo1</sup> 14	2430	24 Anto 24	2450	34	2470
Anbe 5 tek	2412	Anbois	2432	25	2452	35	2472
And sotek	2414	16	2434	26	2454	36 botek	2474
7	2416	17 <sup>.nb01</sup>	2436	× 27 <sub>Anbot</sub>	2456	ek 37 Anbo	<sup>ek</sup> 2476
8 400	2418	18 And	2438	ote <sup>k</sup> 28 Ant	2458		2478 M
9	2420	bote <sup>k</sup> 19	2440	29	2460	39	2480

#### 1.5. Description of Test Modes

Pretest Mo	des
∽o <sup>te</sup> TM1	Anbot

#### Descriptions Keep the EUT in continuously transmitting mode with GFSK modulation.

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#### Report No.: 18220WC40076901

FCC ID: 2BFZ6-1

Page 8 of 30

#### 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Antorek Antorek Antorek
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Conducted Spurious Emission	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
The measurement uncertainty and decision risk evants of the second secon	

#### 1.7. Test Summary

Test Items	Test Modes	Status	
Antenna requirement	poter And otek	botek P Ar	
Conducted Emission at AC power line	Mode1	Anbot P	
Occupied Bandwidth	Mode1	AntPrek	
Maximum Conducted Output Power	Mode1	Rhotek	
Power Spectral Density	Mode1	ek P Anbot	
Emissions in non-restricted frequency bands	Mode1	pote <sup>k</sup> P An	
Band edge emissions (Radiated)	Mode1	nboteP	
Emissions in frequency bands (below 1GHz)	Mode1	nbPiek	
Emissions in frequency bands (above 1GHz)	Mode1	Photek	
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek Anbot	otek Anbote	

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#### FCC ID: 2BFZ6-1

Page 9 of 30

#### 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

Shenzhen Anbotek Compliance Laboratory Limited. 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, 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.
  - 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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FCC ID: 2BFZ6-1

Page 10 of 30

#### 1.10. Test Equipment List

Conducted Emission at AC power line

200	·	Loter Drug	20	X- 200	10° V	and the second second
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
۰ 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
ptek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3 of	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Avootek	Anboil
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11
- Au		Ronde & Ochwarz	Lou 13	100320	2023-10-12	×2024-1

#### Power Spectral Density Emissions in non-restricted frequency bands Occupied Bandwidth

Maxii	num Conducted Out	put Power	A	bote.	Ant	- wotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1pnt	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/Aprilo	2023-10-16	2024-10-15
<sub>e</sub> 2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
oo' <b>3</b> *	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
Ani4ote	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5.00	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

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FCC ID: 2BFZ6-1

Page 11 of 30

	edge emissions (Ra sions in frequency ba		Anboro	Ano	Anbotek	Anbo
Item	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	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
* <sup>ek</sup> 3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nboten 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	And	Anbotek
40 <sup>b</sup> 5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
<sup>%7</sup>	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24
19.	apor Am	V Loter	ann	19.	,00°	Pr. V

Emissions in frequency bands (below 1GHz)

	biolic in inequelley be					
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
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antore	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5mb	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A noot	Anborr	K Anbotek

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FCC ID: 2BFZ6-1

Page 12 of 30

#### 2. Antenna requirement

hotek Anbo.	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
And k botek	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
An stek anbot	of an antenna that uses a unique coupling to the intentional radiator shall be
K Anbor A	considered sufficient to comply with the provisions of this section.

#### 2.1. Conclusion

The antenna is a **PCB Antenna** which permanently attached, and the best case gain of the antenna is **2 dBi**. It complies with the standard requirement.

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FCC ID: 2BFZ6-1

Page 13 of 30

AUR

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

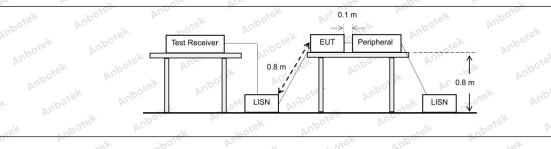
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that ny frequency or frequencies at exceed the limits in the f	nected to the at is conducted es, within the ollowing table, as		
botek Anbort	Frequency of emission (MHz)	Conducted limit (dBµV)	Allek		
	Anbo k hotek Anboro	Quasi-peak	Average		
Anbor An	0.15-0.5	66 to 56*	56 to 46*		
Test Limit:	0.5-5 tek photo And	56 poret pri	46		
	5-30	60	50 ten And		
	*Decreases with the logarithm of the frequency.				
Test Method:	ANSI C63.10-2020 section 6.2	An botek Anboten	Annotek		
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un				

#### 3.1. EUT Operation

#### **Operating Environment:**

1: TX mode: Keep the EUT in continuously transmitting mode with GFSK Test mode: modulation.

#### 3.2. Test Setup



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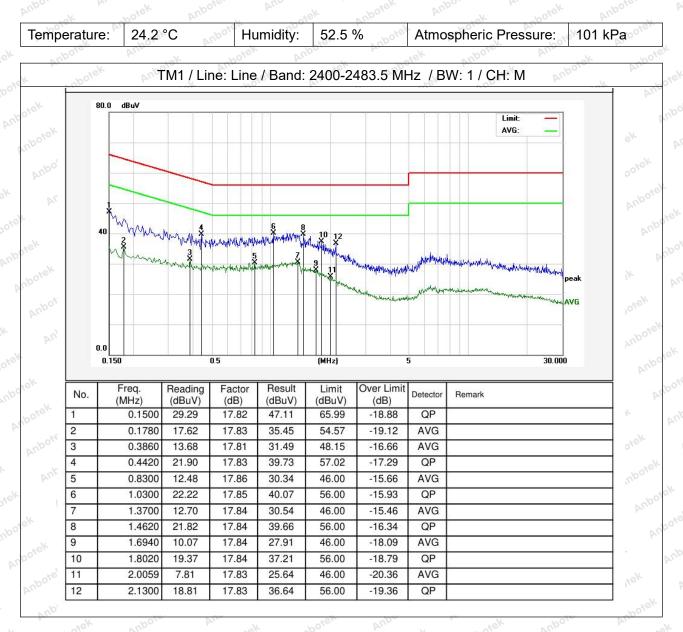




FCC ID: 2BFZ6-1

Page 14 of 30

#### 3.3. Test Data

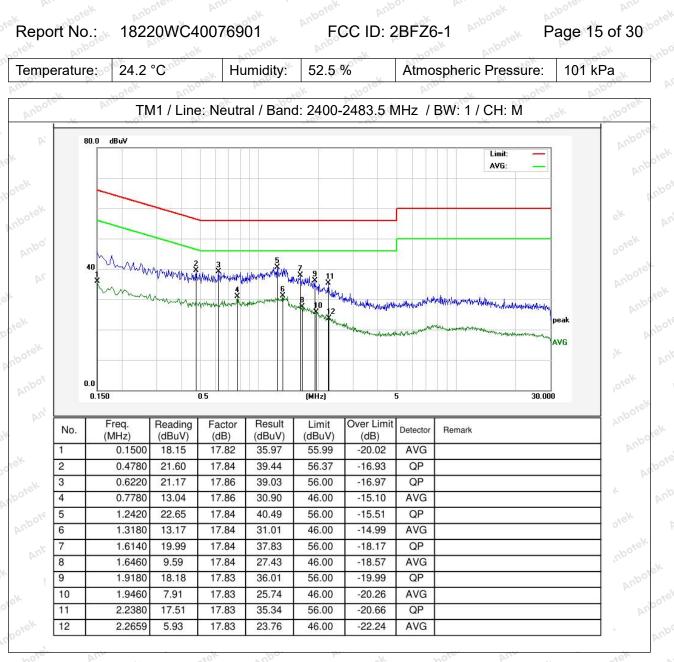


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Note: Only record the worst data in the report.

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#### Report No.: 18220WC40076901

FCC ID: 2BFZ6-1

Page 16 of 30

## 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	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.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq$ 12 x RBW
k Anbotek Anbotek	<ul> <li>b) Set the VBW ≥ [3 × RBW].</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max-hold.</li> <li>e) Sweep = No faster than coupled (auto) time.</li> </ul>
Procedure:	<ul> <li>f) Allow the trace to stabilize.</li> <li>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</li> </ul>
tek Anbotek Anbote tek Anbotek Anbo	<ul> <li>amplitude" value, then it shall be as close as possible to this value.</li> <li>11.8.2 Option 2</li> <li>The automatic bandwidth measurement capability of an instrument may be</li> </ul>
Anbotek Anbotek	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.
Antotek Anbotek	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

Operating Env	vironment:	Ann	anbotek	Anbo	~botek	Anbore
Test mode:	1: TX mode: Kee	o the EUT in c	ontinuously	transmitting mo	de with GFSK	nboter
Test mode.	modulation.	K abote.	Ant	K hotek	Anbo.	A. stek

#### 4.2. Test Setup

		EUT	Spectrum A	Analyzer			
4.3. Test Dat	ta <sup>otek</sup> An-	otek Anbotek	Anbu Anborek	K Anbotek	Anboten	Anbotel Anbotel	r Stek
Temperature:	25.5 °C	Humidity: 4	47 %	Atmospheric	Pressure:	101 kPa	~0

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#### FCC ID: 2BFZ6-1

Page 17 of 30

#### 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit: Anborek Anborek Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek	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

Operating Envir	ronment:	oboiek	Anbors	Du.	~otek	Anboten	Anb.	ek	
Test mode:	1: TX mode: modulation.	Keep the E	UT in continu	iously tr	ansmit	tting mode	with GFS	SK <sup>o</sup> tek	-Pr.

#### 5.2. Test Setup

		EUT	Spect	trum Analyzer	
	botek				
×		nbor	. ek	boten An	

#### 5.3. Test Data

			000	70, 70,	
ATT ATT		1000	17.01	A NOTO A ANT	10115
Plemperature:	25.5 °C	Humidity:	4/%	Atmospheric Pressure:	∣ 101 kPa
	NO CONTRACTOR	105			DAL
	V	K NO.		10. MAN	- A

Please Refer to Appendix for Details.

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AND



Anbotek Product Safety

#### Report No.: 18220WC40076901

#### FCC ID: 2BFZ6-1

Anbo

Anbo

Page 18 of 30

## 6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	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.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

#### 6.1. EUT Operation

Operating Env	rironment:	Anboten	Anbe	nbotek	Anbor	Annotek
Test mode:	1: TX mode: Keep	the EUT in	continuously	transmitting n	node with GFSK	AUP
Test mode.	modulation.					abor

Anb

#### 6.2. Test Setup

) <sup>v</sup> 1	P	_~~~	N 6 8 4	Wite
		EUT	Sp	ectrum Analyzer
		- Qa - 794	τ-	N :- 0)~

Anbote

#### 6.3. Test Data

Temperature:	25.5 °C	Anbo	Humidity:	47 %	Anbote	Atmospheric Pressure:	101 kPa

#### Please Refer to Appendix for Details.

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Anbotek Product Safety

#### Report No.: 18220WC40076901

FCC ID: 2BFZ6-1

Page 19 of 30

#### 7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek	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

Operating Envir	ronment:	pri abotek	Anboro	Annotek	Anbotek	Aupo	* ek
Test mode:	1: TX mode: modulation.	Keep the El	JT in continu	ously transn	nitting mode v	with GFSK	b. hotek
	100		ak			A	111-

### 7.2. Test Setup

	Anbotek	EUT	Spect	rum Analyzer		
×	Antotek	Anbore		-boten	Anbu	

#### 7.3. Test Data

Tempera	ature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
201	A 10-		10v	Dr.	der opt	X

Please Refer to Appendix for Details.

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FCC ID: 2BFZ6-1

Page 20 of 30

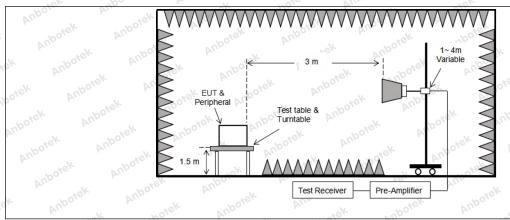
## 8. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also comp cified in § 15.209(a)(see § 15.2	ly with the
K Anbotek Anbot otek Anbotek An	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
unbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Anbotek Anbo.	1.705-30.0 30-88 88-216	30 100 ** 150 **	30 3 3
Anbotek Anbote	216-960 Above 960	200 ** 500	3
Test Limit: Die Anborek	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 these three bands are base detector.	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	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anbore
Procedure:	ANSI C63.10-2020 section	6.10.5.2 photos photos	orek Annotek

### 8.1. EUT Operation

Operating Envir	ronment:	nbotek	Anbor	An	Anboten	And	
Test mode:	1: TX mode: k modulation.	Keep the EU <sup>-</sup>	Γ in continuou	sly transmitti	ng mode witl	n GFSK	rek .

#### 8.2. Test Setup



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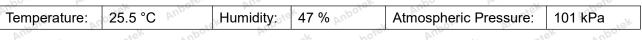


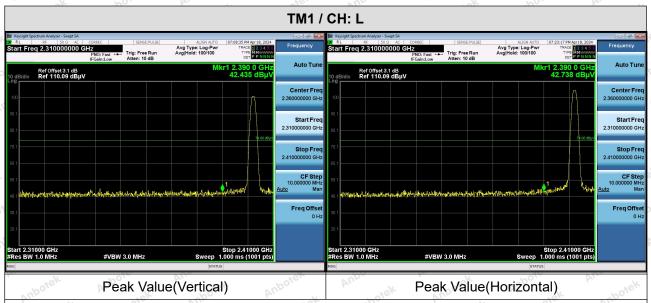


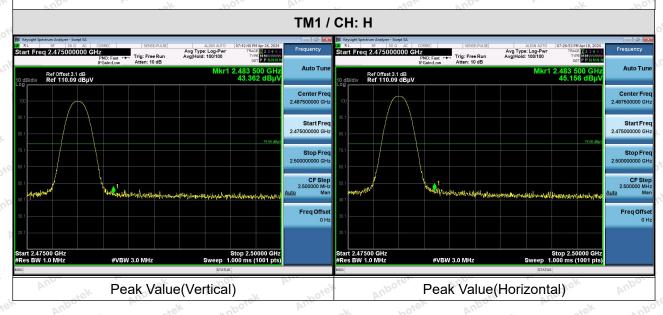
FCC ID: 2BFZ6-1

Page 21 of 30

#### 8.3. Test Data







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

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FCC ID: 2BFZ6-1

#### 9. Emissions in frequency bands (below 1GHz)

Frequency (MHz)Field strength (microvolts/meter)Measurement distance (meters)0.009-0.4902400/F(kHz)3000.490-1.70524000/F(kHz)301.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9– 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector	Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	bly with the
0.490-1.70524000/F(kHz)301.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements 	k Anbotek Anbot	Frequency (MHz)		distance
1.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9– 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average	k hotek	0.009-0.490	2400/F(kHz)	300 mbore
30-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9– 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average	nboten Anbe	0.490-1.705	24000/F(kHz)	30
88-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9– 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average	arek unboter	1.705-30.0		30 AND
Z16-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9– 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average	Anboy k hotek	30-88		
Above 9605003Test Limit:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9– 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average	aboten Anbe	la l		- V. to 2'
Test Limit: ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9– 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average	Ar. stek unbote		200 **	3 boten And
intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average	Anbo. A.	Above 960	500 Martek Ando	3 dek onb
	nbotek Anbotek	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	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	e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9– ssion limits in
Test Method:         ANSI C63.10-2020 section 6.6.4           KDB 558074 D01 15.247 Meas Guidance v05r02	Test Method:			ek Anbore
Procedure: ANSI C63.10-2020 section 6.6.4	Procedure:	ANSI C63.10-2020 section	6.6.4 An	por An otek

### 9.1. EUT Operation

3	Operating Envir	onment:	nbotek	Anbo	Anotek	Anboter	Ann	Nek	20
	Test mode:	1: TX mode:	Keep the EU	T in continuc	ously transmitt	ing mode wi	th GFSK	10- Io-	- P -
2	0- ·	modulation.	Pr.	-V	ter and	5	×e <sup>k</sup>	bo'	

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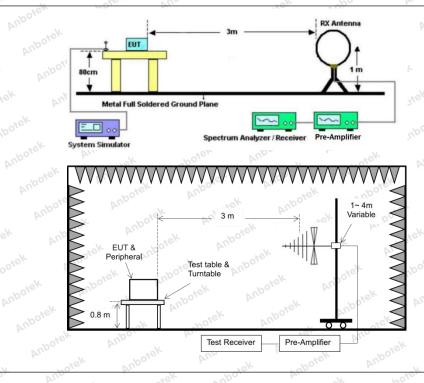


#### Report No.: 18220WC40076901 FCC

FCC ID: 2BFZ6-1

Page 23 of 30

#### 9.2. Test Setup



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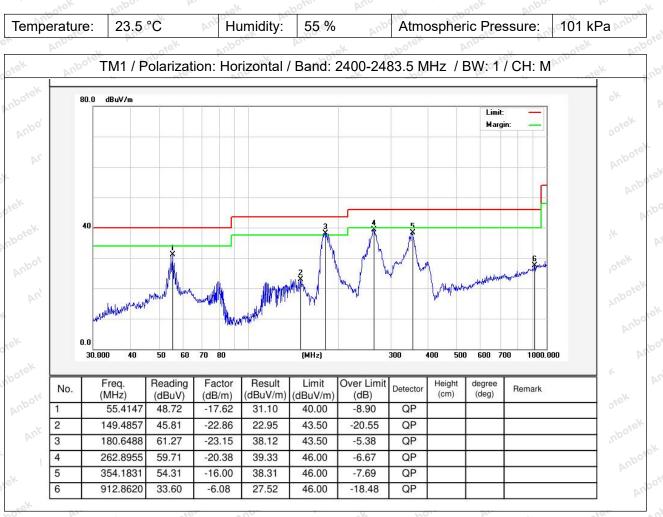




Page 24 of 30

#### 9.3. Test Data

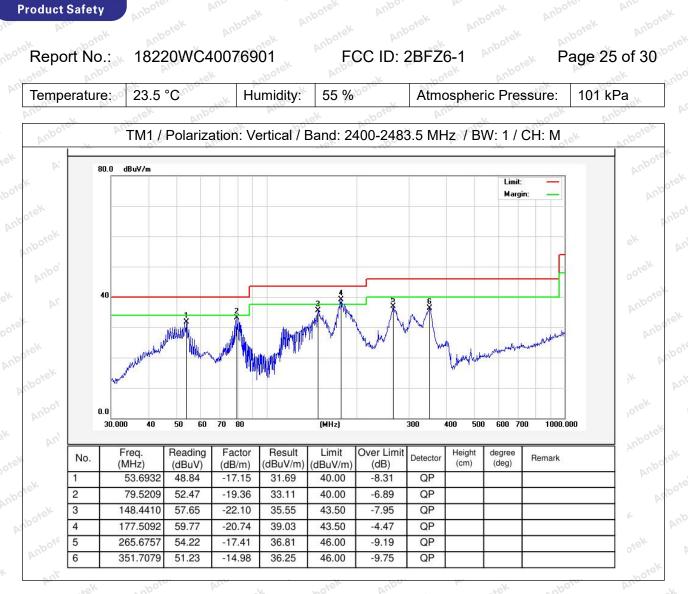
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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Note: Only record the worst data in the report.

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#### Report No.: 18220WC40076901

FCC ID: 2BFZ6-1

Page 26 of 30

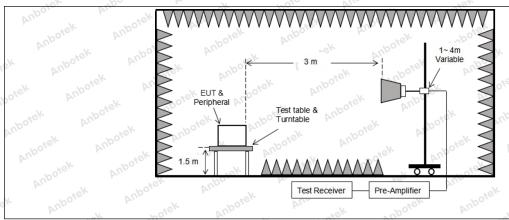
### 10. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background by the radiated emission $\overline{5}(c)$ ).	
ik Anbotek Anbot otek Anbotek An	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
v wotek	0.009-0.490	2400/F(kHz)	300 000
nboten And	0.490-1.705	24000/F(kHz)	30 otek
and and the Anbore	1.705-30.0	30 At mbs	30 An
Anbo k hotek	30-88	100 **	3rek Anbore
Anboten And	88-216	150 **	3 rel
A. stek Anbore	216-960	200 **	3 boten Ant
Test Limit:	Above 960	500 Andrew Andrew	3 notek anbr
nbotek And nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek tek Anbotek Anbote tek Anbotek Anbote	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 ing under this section shall not b iz, 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	e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anbore
Procedure:	ANSI C63.10-2020 section	6.6.4	
PIN K POLEN	Anto sek	Abor Att	Loter Anto

#### 10.1. EUT Operation

Operating Envi	ronment:	nbotek	Anbore	An	Anboten	Anbe	20
Test mode:	1: TX mode: I	Keep the EU	T in continuou	isly transmittir	ng mode with	I GFSK	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
i cot modo.	modulation.	Ann	v vote	anbo.	Pr	ek abot	10.

#### 10.2. Test Setup



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Anbotek Product Safety

#### Report No.: 18220WC40076901

FCC ID: 2BFZ6-1

Page 27 of 30

#### 10.3. Test Data

Temperature:	23.5 °C	Humidity:	55 % Anboi	Atmospheric Pressure:	101 kPa
20V	de de	0. P.		600	K No.

	TM1 / CH: L								
Peak value:	Peak value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization			
4804.00	28.08	15.27	43.35	74.00	-30.65	Vertical			
7206.00	28.21	18.09	46.30	74.00	-27.70	Vertical			
9608.00	28.93	23.76	52.69	74.00	-21.31	Vertical			
12010.00	Anbote * Ar	in sek	botek Anb	74.00	otek Anbote	Vertical			
14412.00	anbo*ek	Anbo	hotek p	74.00	stek ont	Vertical			
4804.00	27.78	15.27	43.05	74.00	-30.95	Horizontal			
7206.00	28.59	18.09	46.68	74.00	-27.32	Horizontal			
9608.00	27.95	23.76	51.71	74.00	-22.29	Horizontal			
12010.00	otek * Anbo	p.	rek Aupote.	74.00	hotek	Horizontal			
14412.00	botek* An	pore And	stek anbo	74.00	ak bote	Horizontal			

#### Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.35	15.27	31.62	54.00	-22.38	Vertical
7206.00	17.26	18.09	35.35	54.00	-18.65	Vertical
9608.00	18.40	23.76	42.16	54.00	-11.84	Vertical
12010.00	h	Anboten An	ASS ASS	54.00	-k	Vertical **
14412.00	Ann *	nbotek	Anbor	54.00	boten And	Vertical
4804.00	16.11	15.27	31.38	54.00	-22.62	Horizontal
7206.00	17.62	18.09	35.71	54.00	-18.29	Horizontal
9608.00	17.46	23.76	41.22	54.00	-12.78	Horizontal
12010.00	stek *	otek Anbo.	ak not	54.00	And	Horizontal
14412.00	nbor *	botek Ant	oto. And	54.00	ek Anbo	Horizontal
		le la		6 Y Y Y	M	No. Dur

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1001

Report No.:	18220WC400	abotek	FCC ID:	hotek.	Anbote, A	ge 28 of 30
			ГM1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	27.63	15.42	43.05	74.00	-30.95	Vertical
7320.00	28.18	18.02	46.20	74.00	-27.80	Vertical
9760.00	28.43	23.80	52.23	74.00	-21.77	Vertical
12200.00	ek * obotek	Anbor	pr. hotek	74.00	Annatek	Vertical
14640.00	*	tek Anbore	Ann	74.00	Anbo	Vertical
4880.00	27.59	15.42	43.01	74.00	-30.99	Horizontal
7320.00	28.46	18.02	46.48	74.00	-27.52	Horizontal
9760.00	27.67	23.80	51.47	74.00	-22.53	Horizontal
12200.00	* wotek	Anboten	And	74.00	upo. Pr.	Horizontal
14640.00	Alt atek	nbotek	Anbo	74.00	Anboro	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	16.44	15.42	31.86	54.00	-22.14	Vertical
7320.00	17.12	18.02	35.14	54.00	-18.86	Vertical
9760.00	18.25	23.80	42.05	54.00	-11.95	Vertical
12200.00	k Anbore	Ann	Anboten	54.00	abotek	Vertical
14640.00	otek * Anbot	And	ek abotek	54.00	All	Vertical
4880.00	16.22	of 15.42	31.64	54.00	-22.36	Horizontal
7320.00	17.97	18.02	35.99	54.00	-18.01	Horizontal
9760.00	17.76	23.80	41.56	54.00	-12.44 M <sup>06</sup>	Horizontal
12200.00	Antotek	And	abotek	54.00	wotek A	Horizontal
14640.00	* botek	Anbor	An	54.00	And	Horizontal

#### Shenzhen Anbotek Compliance Laboratory Limited

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botek Δ **Product Safety** 

		•	TM1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	27.76	15.58	43.34	74.00	-30.66	Vertical
7440.00	28.34	17.93	46.27	74.00	-27.73	Vertical
9920.00	29.13	23.83	52.96	74.00	-21.04	Vertical
12400.00	A* wotek	Anboten	And	74.00	Anbor	Vertical
14880.00	* And	tek nbote	Anbo.	74.00	Anbore.	Vertical
4960.00	o <sup>ne</sup> 27.73 M <sup>00</sup>	15.58	43.31	74.00	-30.69	Horizontal
7440.00	28.67	17.93	46.60	74.00	-27.40	Horizontal
9920.00	28.05	23.83	51.88	74.00	-22.12	Horizontal
12400.00	Anu *	hotek	Anbo, P	74.00	nbote. An	Horizontal
14880.00	Ar*Dor	hotek	Anbore	74.00	Anbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	17.56	15.58	33.14	54.00	-20.86	Vertical
7440.00	18.39	17.93	36.32	54.00	-17.68	Vertical
9920.00	18.90	23.83	42.73	54.00	-11.27	Vertical
12400.00	* * nbotek	Anbo	hotek	54.00	Anno	Vertical
14880.00	*	sk Anboro	Ans	54.00	Anbo	Vertical
4960.00	17.40	15.58 no <sup>ot</sup>	32.98	54.00	-21.02	Horizontal
7440.00	18.77 Ant	17.93	36.70 × <sup>00</sup>	54.00	-17.30	Horizontal
9920.00	17.91	23.83	41.74	54.00	-12.26	Horizontal

#### Remark:

12400.00

14880.00

- 1. Result =Reading + Factor
- "\*" means the test results were attenuated more than 20dB below the permissible limits, so the 2. results don't record in the report.

54.00

54.00

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Horizontal

Horizontal



#### Report No.: 18220WC40076901 FCC ID: 2BFZ6-1 P

Page 30 of 30

#### **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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