

FCC ID: 2AV7N-DK-10S Report No.: 18220WC40002901 Page 1 of 30

FCC Test Report

Applicant

GUANGZHOU RANTION TECHNOLOGY CO., LTD.

Address

Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, Greater Bay Area, No. 28 Huangpu Park West Road, Huangpu District, Guangzhou, China.

Product Name

ELECTRONIC KEYBOARD

Report Date

Apr. 20, 2024



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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Anbotek				
Product Safety				
			Ant hotek	
Report No.: 18	220WC40002901	FCC ID: 2AV	7N-DK-10S	Page 4 of 30
	TES	FREPOR	Anbotek Anbotek	Anbotek Anbotek
Applicant	: GUANGZHOU RA	NTION TECHNOLO	OGY CO., LTD.	
Manufacturer	: GUANGZHOU RA	NTION TECHNOLO	OGY CO., LTD.	nbotek Anbote
Product Name	: ELECTRONIC KEY	YBOARD		
Test Model No.	: DK-10S			
Reference Model No	b. : MN/A And			
Trade Mark	: DONNER			
Rating(s)	Input: 5-9V- Capacity: Lithium-i 47 CFR Part 15.24	on: DC 3.7V, 2000r I 7	nAh Anbotek	
Test Standard(s)		15.247 Meas Guid	ance v05r02	Anbotek A

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:

Jan. 08, 2024

Date of Test:

Prepared By:

Jan. 08, 2024 to Jan. 25, 2024

siana Ella

(Ella Liang)

Bolward pan

(Edward Pan)

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

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Revision History

Report Ver	rsion		Description			Issued	Date	
R00	nbotek Ant	otek	Original Issue.	Inbotek	Anbote.	Apr. 20	, 2024	Anbote
k Anbo, P	Anbotek	Anboren	Anto	Anbotek	K Anbo	botek	Anbotek	Anbo
or An anbotek	Anboten	Anberbote	k Anbotek	Anbor	atek A'	Anbotek	Anboter	4

Anbc

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1. General Information

1.1. Client Information

Applicant	: GUANGZHOU RANTION TECHNOLOGY CO., LTD.	hove
Address	 Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, Greater Bay Area, No. 28 Huangpu Park West Road, Huangpu District, Guangzhou, China. 	Ano
Manufacturer	: GUANGZHOU RANTION TECHNOLOGY CO., LTD.	A No.
Address	 Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, Greater Bay Area, No. 28 Huangpu Park West Road, Huangpu District, Guangzhou, China. 	botek
Factory	: Jiangmen Duole Technology Co., Ltd.	Anbore
Address	Building 9, No. 52, Baotang Road, Tangxia Town, Pengjiang District, Jiangmen City, China.	Aup

1.2. Description of Device (EUT)

-100 pr		- noter And the noter And the set
Product Name	:	ELECTRONIC KEYBOARD
Test Model No.	:	DK-10S
Reference Model No.	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	DONNER
Test Power Supply	:	AC 120V/60Hz for adapter; DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	MODEL: XY-1304-5V2A INPUT: 100-240V~ 0.35A 50/60Hz Output: 5V 2000mA
RF Specification		20
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40 otek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK and have have have have have
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-5dBi hotek Anborek Anborek Anborek Anborek Anborek Anborek
		ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the

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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
An Anboten	And hotek Anbotek	Anbor An potek	Anboter And And

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Ootek	2402	Anit 10 tek	2422	20	2442	30	2462
1 potek	2404	11	2424	21	2444	31 nbote	2464
× 2	2406 bott	12	otex 2426 1001	22 Anbo	2446	rek 32 Anbr	2466
3	pote 2408 pm	13	2428	potek 23 Ar	2448	bote ^k 33 N	2468
4	2410	^{nbo1} 14	2430	24	2450	34	2470
Anbe 5 ek	2412	Anton	2432	25	2452	35	2472
And otek	2414	16	2434	26 ⁰¹⁶¹⁶	2454	36 botek	2474
7	2416	17 ^{.nb01}	2436	K 27 Anbot	2456	ek 37 Anbo	2476 ¹⁰⁰
8	2418	tek 18 Anbr	2438	otek 28 An	2458		2478
9	2420	bote ^k 19 A	2440	29	2460	39	2480

1.5. Description of Test Modes

Pretest Modes

TM1

Descriptions Keep the EUT connect to AC power line and works in continuously transmitting mode (BLE 1M)

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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB ak abotek Anbote Anti-
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 eva This uncertainty represents an expanded uncertain level using a coverage factor of k=2.	

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	oten Anbl stek	botek P A
Conducted Emission at AC power line	Mode1	Anbot P
Occupied Bandwidth	Mode1	AntPrek
Maximum Conducted Output Power	Mode1	Panbotek
Power Spectral Density	Mode1	ek P Anbo
Emissions in non-restricted frequency bands	Mode1	potek P An
Band edge emissions (Radiated)	Mode1	A ^{ptote}
Emissions in frequency bands (below 1GHz)	Mode1	AnbPek
Emissions in frequency bands (above 1GHz)	Mode1	Photek
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek Anbot	etek Anbor

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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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1.10. Test Equipment List

Conducted	Emission at AC power line
WO.	

200	i Pi V	Lote Ans		4	Pr. Ve	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
× 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
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	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek Anbotek	ek Anbo
	your your	pr.	der vob		ing you	- P

Maxir Powe	pied Bandwidth num Conducted Out r Spectral Density sions in non-restricte	ote. And .ok	Anbotek A Anbotek	Anbotek Anbotek	Anbotek An Anbotek	botek Anbor Anbotek An
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Ant IAnt	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/Asnbo	2023-10-16	2024-10-15
_ж 2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
,3 [≮]	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
Ani4otel	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5.00	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6 P	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

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	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	2023-10-12	2024-10-11	
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11	
1° ^K 3	Double Ridged Horn Antenna SCHWARZBECK		BBHA 9120D	02555	2022-10-16	2025-10-15	
nboten 4	EMI Test Software		N/A	N/A	And	Anbotek	
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11	
6	6 Spectrum Analyzer Rohde & Schwarz		FSV40-N	101792	2023-05-26	2024-05-25	
^{e¥} 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24	

Emissions in frequency bands (below 1GHz)

	biene in nequency be					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11
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
5.00	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/A N/A	Anbore Anbore	k Anbotek

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2. Antenna requirement

		Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
		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 otek Anbot	of an antenna that uses a unique coupling to the intentional radiator shall be
e		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 -5dBi . It complies with the standard requirement.

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3. Conducted Emission at AC power line

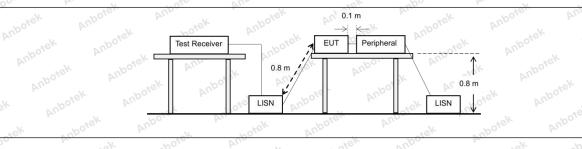
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on ar band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that by frequency or frequencies t exceed the limits in the for	nected to the at is conducted es, within the ollowing table, as		
botek Anbor	Frequency of emission (MHz)	Conducted limit (dBµV)	An otek		
	Anbo k sotek Anbore	Quasi-peak	Average		
Anbor An.	0.15-0.5	66 to 56*	56 to 46*		
Test Limit:	0.5-5 det moote And	56	46		
	5-30 M	60	50 ten And		
	*Decreases with the logarithm of the frequency.				
Test Method:	ANSI C63.10-2020 section 6.2	An botek Anboten	And		
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un				

3.1. EUT Operation

Operating Environment:

Test mode:	1: TX mode(BLE 1M): Keep the EUT connect to AC power line and works in
Test mode:	continuously transmitting mode (BLE 1M)

3.2. Test Setup



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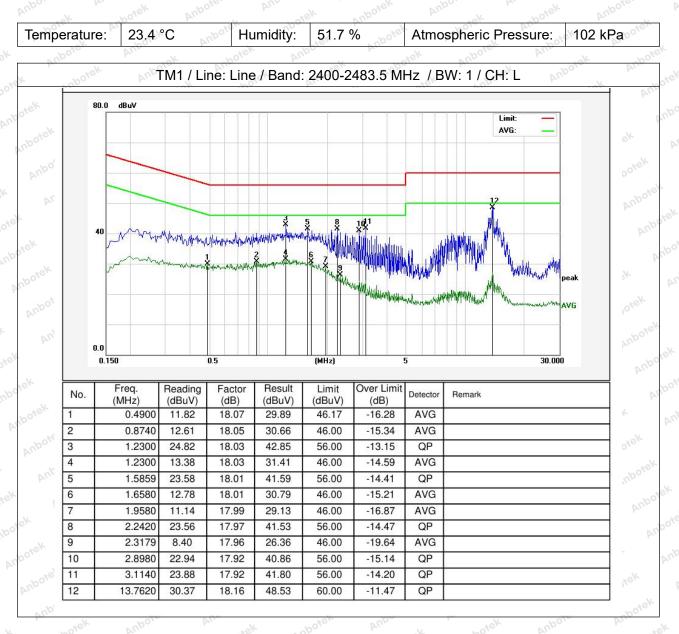
Address:1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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3.3. Test Data

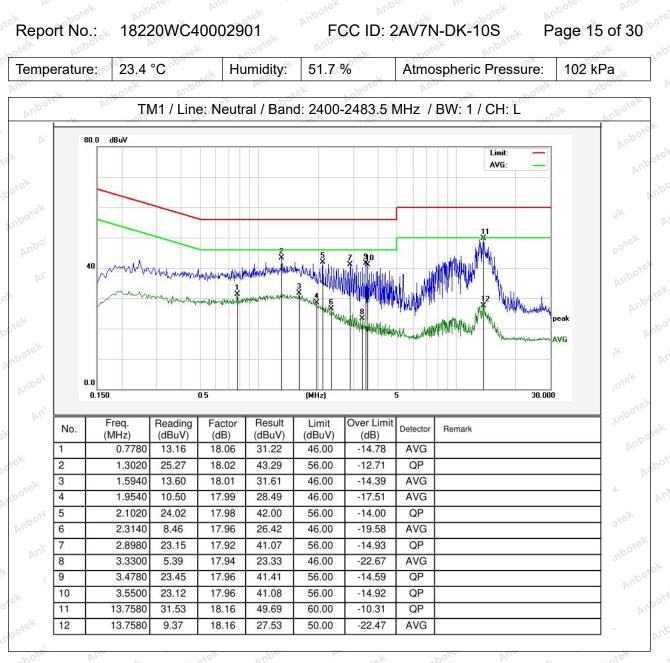


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Note: Only record the worst data in the report.

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4. 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.
k Anbotek Anbote	 b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold.
otek Anbore An	e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize.
Procedure:	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.
tek anbotek Anb	11.8.2 Option 2
Anbotek Anbotek A	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.
Anbotek Anbotek Anbotek 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 En	vironment:						
Test mode:	1: TX mode(BLE	1M): Keep the	EUT conne	ect to AC	bower li	ne and wo	rks in another
Test mode.	continuously tran	smitting mode	(BLE 1M)	No.	notek	Anbor	An

4.2. Test Setup

4.3. Test Dat Temperature:	t a 25.6 °C	anbotek	nidity: 45 %	Anborek An	spheric Pressure	e: 101 kPa
--------------------------------------	-----------------------	---------	--------------	------------	------------------	------------

Please Refer to Appendix for Details.

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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit: Anooree	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 Envi	ronment:	nbotek	Anbore	Annotek	Anbotet	Anbo	- n
Test mode:		· · · · · · · · · · · · · · · · · · ·	eep the EUT o mode (BLE		C power lin	e and works in	ek bri

5.2. Test Setup

	Anbore	EUT	0.0	Spect	trum Analyzer		
¥.	Anbotek	Anbor		.eX	aboten	Anb	

5.3. Test Data

	- 00			6 U /	20.		5.2
Tempera	ture:	25.6 °C	Humidity	/: 45 %	Atmospheric I	Pressure: 101 kl	Pa
_XO*1	~ (V		× ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	a par	101	10V	No.

Please Refer to Appendix for Details.

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AUP



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Anbo

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	ironment:					aboten			
Test mode:	1: TX mo	de(BLE	1M): Keep t	he EUT	connect	t to AC powe	er line an	d works	in
Test mode.	continuo	usly trans	smitting mo	de (BLE	1M)				abo ¹

6.2. Test Setup

	EUT	Spectrum Analyzer
nbotek	~ 20	 N 0)-

6.3. Test Data

Temperature:	25.6 °C	Anboi	Humidity:	45 %	Anbote	Atmospheric Pressure:	101 kPa

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7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Diek Diek 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:	abotek	Anboro	Pup	otek	Anbotek	Anbo	к. К.
Test mode:	1: TX mode(BL	.E 1M): Ke	ep the EUT	connect	to AC	power line	and works in	
rest mode.	continuously tra	ansmitting	mode (BLE	1M)	nbote	AUD	in the	otek

7.2. Test Setup

	Anborek	EUT	Spect	rum Analyzer		
×	Anbotek	Anbor	.ek	aboten	Anb	

7.3. Test Data

ck.	Temperature:	25.6 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
	-101 ND	ak .	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Di.	der von	No.

Please Refer to Appendix for Details.

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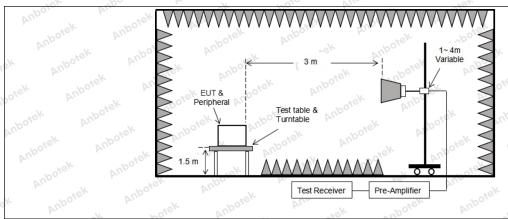
8. Band edge emissions (Radiated)

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	ly with the
Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
tek nbotek	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz) 30	30
	30-88	100 **	3 et abore
	88-216	150 **	3
	216-960	200 **	3 boten And
Test Limit:	Above 960	500 poter Andre	3 rek np
	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 emise of on measurements employing	470-806 MHz. aed 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 Anbotek

8.1. EUT Operation

Operating Envi	ronment:	nbotek	Anbo	P.	botek	Anboter	Ann	Net	
Test mode:	1: TX mode(BLE continuously tra	· 600	•		to AC po	ower line an	d works	'in	P

8.2. Test Setup



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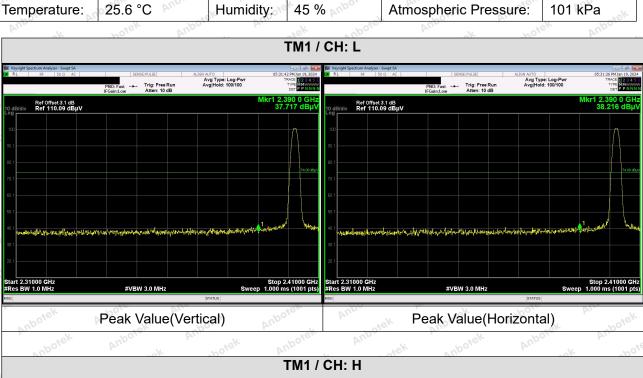


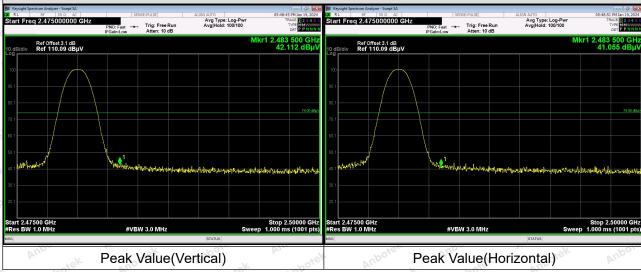


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8.3. Test Data





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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9. Emissions in frequency bands (below 1GHz)

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
Anbotek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Anbotek Anbotek	1.705-30.0 30-88 88-216	30 100 ** 150 **	30 3 3
Anborek Anbore	216-960 Above 960	200 ** 500	3
Test Limit: Drek Anborek Anbor	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. aed under other band edges. measurements uency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		
Procedure:	ANSI C63.10-2020 section	6.6.4 ph	otek Antotek

9.1. EUT Operation

Operating Envir	onment:	nbotek	Anbo	Airebotek	Anboter	Ann	
Test mode:	1: TX mode(Bl	LE 1M): Kee	p the EUT cor	nnect to AC p	ower line an	d works in	v
lest mode.	continuously tr	ansmitting n	node (BLE 1M	Anbois			

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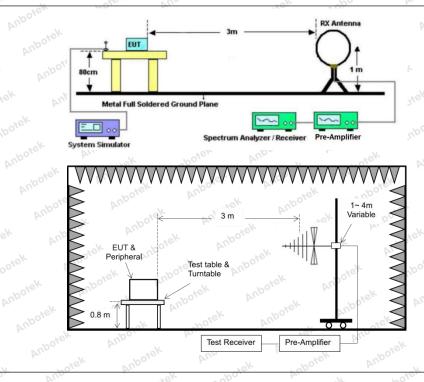
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9.2. Test Setup



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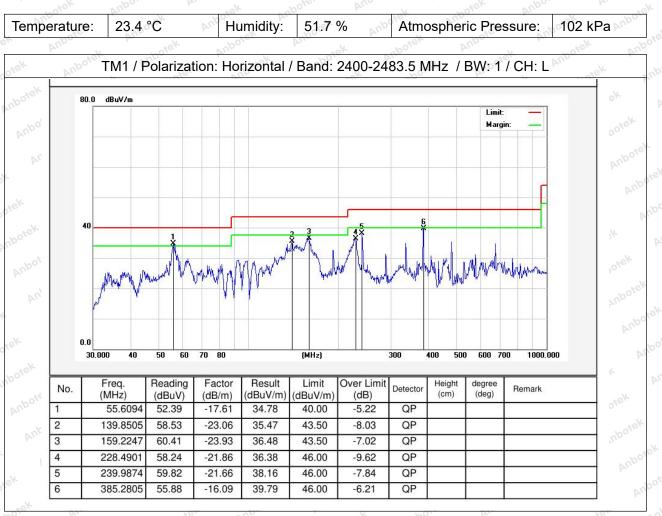




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9.3. Test Data

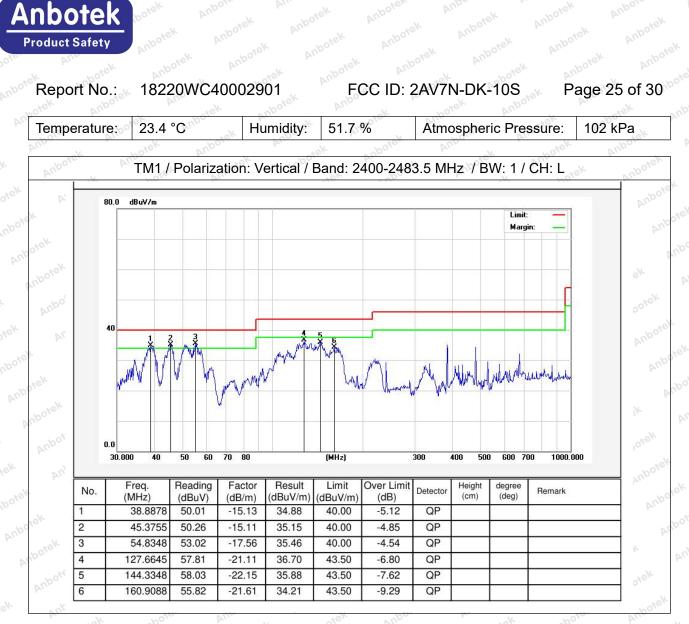
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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Note: Only record the worst data in the report.

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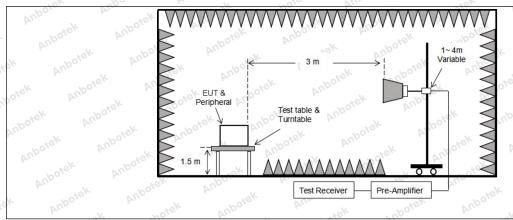
10. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background by the radiated emission $\overline{b}(c)$.	
K Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Anbotek Anbotek	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: Drek 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. aed under other band edges. measurements uency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		tek Anbo.
Procedure:	ANSI C63.10-2020 section	6.6.4 M	por An

10.1. EUT Operation

Operating Envir	onment:	nbotek	Anbo	p.,	ootek	Anboter	And	stek N
Test mode:	1: TX mode(BLE continuously tra	- WO -	•		o AC po	ower line an	d works i	n ob ^{otek}

10.2. Test Setup



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10.3. Test Data

Temperature:	25.6 °C	H	umidity:	45 % Antone	Atmospheric Pressure:	101 kPa
000	- An	. ho.	Pre-	100	NUN.	ek soo.

		-	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	28.54	15.27	43.81	74.00	-30.19	Vertical
7206.00	28.59	18.09	46.68	74.00	-27.32	Vertical
9608.00	29.47	23.76	53.23	74.00	-20.77	Vertical
12010.00	Anbote * Ar	ek a	hotek Anb	74.00	otek Anbote	Vertical
14412.00	anbo*ek	Anbo	hotek P	74.00	stek ont	Vertical
4804.00	28.20	15.27	43.47	74.00	-30.53	Horizontal
7206.00	29.15	18.09	47.24	74.00	-26.76	Horizontal
9608.00	28.15	23.76	51.91	74.00	-22.09	Horizontal
12010.00	potek * Anbo	k no	rek Anbore.	74.00	L nbotek	Horizontal
14412.00	-botek * An	port Ant	atek anbo	74.00 ⁰⁰⁰	where the state	Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.81	15.27	32.08	54.00	-21.92	Vertical
7206.00	17.64	18.09	35.73	54.00	-18.27	Vertical
9608.00	18.94	23.76	42.70	54.00	-11.30	Vertical
12010.00	worker.	Anboten An	-xek	o ^{rek} 54.00 M ^{bc}	-k vi	Vertical o
14412.00	And * tek	nbotek	Anbo	54.00	pote And	Vertical
4804.00	16.53	15.27	31.80	54.00	-22.20	Horizontal
7206.00	18.18	18.09	36.27	54.00	-17.73	Horizontal
9608.00	17.66	23.76	41.42	54.00	-12.58	Horizontal
12010.00	tek *	otek Anbor	pr. not	54.00	Ann	Horizontal
14412.00	*	botek Ant	oto And	54.00	ek Aupo	Horizontal
		le la	- 6	0 V V	N	10

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		٦	ГM1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	28.09	15.42	43.51	74.00	-30.49	Vertical
7320.00	28.56	18.02	46.58	74.00	-27.42	Vertical
9760.00	28.97	23.80	52.77	74.00	-21.23	Vertical
12200.00	ek * spotek	Anbor	hotek	74.00	Ann	Vertical
14640.00	*	rek Anbore	Ann	74.00	Anbo	Vertical
4880.00	28.01	15.42	43.43	74.00	-30.57	Horizontal
7320.00	29.02	18.02	47.04 M	74.00	-26.96	Horizontal
9760.00	27.87	23.80	51.67	74.00 MM	-22.33	Horizontal
12200.00	* votek	Anbore	Ann	74.00	nbor pr.	Horizontal
14640.00	Art atek	nbotek	Anbor	74.00	Anboren	Horizontal
Average value:				·		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	16.90	15.42	32.32	54.00	-21.68	Vertical
7320.00	17.50	18.02	35.52	54.00	-18.48	Vertical
9760.00	18.79	23.80	42.59	54.00	-11.41	Vertical
12200.00	k Anbore	An	Anboten	54.00	abotek	Vertical
14640.00	otek * Anbot	And	ek abotek	54.00	Amorek	Vertical
4880.00	16.64	o ^{rek} 15.42 m ^{bo}	32.06	54.00	-21.94	Horizontal
7320.00	18.53	18.02	36.55	54.00	-17.45	Horizontal
9760.00	17.96	23.80	41.76	54.00	ote-12.24 prof	Horizontal
12200.00	Anboten	Anbu	abotek	54.00	wotek a	Horizontal
14640.00	* botek	Anbore	Ar. stek	54.00	And	Horizontal

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		-	TM1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.22	15.58	43.80	74.00	-30.20 m ^{or}	Vertical
7440.00	28.72	17.93	46.65	74.00	-27.35	Vertical
9920.00	29.67	23.83	53.50	74.00	-20.50	Vertical
12400.00	k Pit wotek	Anboten	And	74.00	Anbor	Vertical
14880.00	* And	rek nbotel	Anbo	74.00	Anbore	Vertical
4960.00	oo ^{tel} 28.15 M ⁰⁰	15.58	43.73	74.00	-30.27	Horizontal
7440.00	29.23	17.93	47.16	74.00	-26.84	Horizontal
9920.00	28.25	23.83	52.08	74.00	-21.92	Horizontal
12400.00	Anv *	abotek	Aupo, b	74.00	Inboten Ant	Horizontal
14880.00	Arthore	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	18.02	15.58	33.60	54.00	-20.40	Vertical
7440.00	18.77	17.93	36.70	54.00	50°-17.30 pm	Vertical
9920.00	19.44	23.83	43.27	54.00	-10.73	Vertical
12400.00	k * nbotek	Anbor	prinotek	54.00	And	Vertical
14880.00	* spot	Anboro	Annotek	54.00	Anbo	Vertical
4960.00	17.82	otek 15.58 noot	33.40	54.00 otek	-20.60	Horizontal
7440.00	nb ^{ot} 19.33 Ant	17.93	o ^{tek} 37.26 ph ⁰	54.00	-16.74	Horizontal
NOV		~0. P.		-X0"		~K N0.

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54.00 9

54.00

54.00

-12.06

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Remark:

9920.00

12400.00

14880.00

1. Result =Reading + Factor

18.11

*

* .0

23.83

 "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

41.94

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Horizontal

Horizontal

Horizontal



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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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