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Report No.:1812C40049012502 FCC ID: 2A5PJ-TM277

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Page 1 of 35

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FCC Test Report

Applicant

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Dongguan Dareu Electronics Audio Co., LTD

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Address

Room 301, Building 3, No.3 Yuhua Rd., Juzhou area, Shijie Town, Dongguan, China

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Product Name Mouse

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Report Date

Sept. 25, 2024

Anbotek Anbote Compliance Laboratory Limited Shenzhen Anbotek * Approved ,nbotek Anbotek nbotek

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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 Fechnology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China, 💥 Email: service@anbotek.com Tel:(86)0755-26066440

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Report No.:1812C40049012502 Anbotek FCC ID: 2A5PJ-TM277

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Contents

1. General Information		Aupore	<i>V</i>	×	no ^{ter}	And
1.1. Client Information	,o- 	abotek	Anbo	· · · · ·	- otek	Anbo
1.2. Description of Device (EUT)	Aupor			boken	Aur	
1.3. Auxiliary Equipment Used Durin	g Test	Anbo	······································		KUPOL	,
1.4. Operation channel list	Au.	*	oler			
1.5. Description of Test Modes		P.	. let	VUD01er	b?	
1.6. Measurement Uncertainty			KUPO.		, tek	Ancolo
1.7. Test Summary 1.8 Description of Test Eacility	sby		npoter.		·	hote
1.9 Disclaimer	Notek	AUDO		lek 1	nbote	<i>K</i> 6,
1.10. Test Equipment List		boten	Ano		otek	Anb
2 Antenna requirement	Anbore	P.I.	K b	nboten	And	. No.
2.1 Canalizian	hotek	A ND.		botek	Anbo	
2.1. Conclusion		lek Au	Pole.		6	nbotok
 General Information			nboyek.	Kupor		-botek
3.1. EUT Operation		upor.			oter	Ann
3.2. Test Setup						Vupor,
3.3. Test Data	1400 L		n nb			
4. Occupied Bandwidth	bolek		·····		Vopole.	b.i.
4.1. EUT Operation	A	10 da	0r	Ano		yek.
4.2. Test Setup	Anbo			popole.	Pur	
4.3. Test Data		tek V	100		×,	nbor
5. Maximum Conducted Output Power			Anboter	Anu		nbotek
5.1 FUT Operation	oter P	IND . OK	abote	k Pu	00°	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
5.2. Test Setup	olek	Aupo.			npole	Pur.
5.3. Test Data	Aun		Ant			<u>k</u> j
6. Channel Separation	Anbore	Am	Yoy	Aupoter	And	
6.1 EUT Operation	nbotek	Anbo	Ň	botek	Ant	,010
6.2 Test Setup		, tek	upote:	<i>k</i> o		abolet
6.3. Test Data	ik And		otek	Aupo,		K
7 Number of Hopping Frequencies	rek	Anboten	And	×,	abotek	Anbo
	ð	botek	Aupo,		, tek	Anbo
7.1. EUI Uperation	Aupote			10010X		
7.2. Test Getup 7.3. Test Data	~otek	Aupore		, tek	A nbote	
	Van	do. 4	oter	Anb		~otek
o. Dweil Hme	Aupolic	· · · · · · · · · · · · · · · · · · ·	alek	VUPOREL	<i>b</i> o	×
8.1. EUT Operation		orek	hup.	۳ ۵	, eok	
8.2. Test Setup 8.3. Test Data	~ ^^	104				
8.3. Iest Data		Augor		10/	upoter.	
 6.3. Test Data 7. Number of Hopping Frequencies 7.1. EUT Operation	bands		Anbo		nbotek.	
9.1. EUT Operation	Anbo		<u>k</u>	nbor-		<u>م</u> ۲
9.2. Test Setup 9.3. Test Data	Vpoter.	Ann	191		<i>bupo</i>	
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Shenzhen Anbotek Compliance Laboratory Limited

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1	APPENDIX APPENDIX	I TEST SE	TUP PHOTO)GRAPH GRAPH	nbotek		ek Am	nb ^{otek}	Aupolon		hotek
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,botek Hotline 6 400-003-0500 www.anbotek.com^o Anb

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Report No.:1812C40049012502 FCC ID: 2A5PJ-TM277 Page 4 of 35

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۹ ب	Ano Andorek Ar	botek	TEST REPORT
Арр	licant Anbotak	0.000	Dongguan Dareu Electronics Audio Co., LTD
Man	ufacturer	: P	Dongguan Shijie Mingxiang electronics factory
Proc	luct Name	:	Mouse And Andreas Andreas Andreas Andreas
Mod	el No.	ier 	TM277M, M512
Trac	le Mark	nbolo	N/A Anbolek Anbolek Anbolek Anb
Rati	ng(s) Manarak	Anbe	Input: 5V- 300mA Battery Capacity: DC 3.7V, 500mAh
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:

Aug. 26, 2024

Date of Test:

Prepared By:

Aug. 26, 2024 to Sept. 13, 2024

Secilia Chen

(Cecilia Chen)

Idward pan

(Edward Pan)

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

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

Hotline 400-003-0500 www.anbotek.com





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Anbotek Revision History

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Report Version			Description			ไรรเ		е ^к	
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Report No.:1812C40049012502 Anbotek FCC ID: 2A5PJ-TM277

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Anbote Anbotek 1. General Information

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1.1. Client Information

Applicant	: Dongguan Dareu Electronics Audio Co., LTD
Address	Room 301, Building 3, No.3 Yuhua Rd., Juzhou area, Shijie Town, Dongguan, China
Manufacturer	: Dongguan Shijie Mingxiang electronics factory
Address	No. 172, East Technology Road, Shijie Town, Dongguan City, Guangdong Province, China
Factory	: Dongguan Shijie Mingxiang electronics factory
Address	No. 172, East Technology Road, Shijie Town, Dongguan City, Guangdong Province, China
1.2. Descriptio	n of Device (EUT) hove Andrea Andrea Andrea Andrea Andrea Andrea Andrea

1.2. Description of Device (EUT)

Product Name	:	Mouse Anbotek Anbotek Anbotek Anbotek
Model No.	:	TM277M, M512 (Note: All samples are the same except the model number, so we prepare "TM277M" for test only.)
Trade Mark	:	N/Astek Anborek Anborek Anborek Anborek Anborek
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz; DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Ando tek Anbotek Anbote An
RF Specification		·
Operation Frequency	:	2403MHz to 2480MHz
Modulation Type	:	GFSK Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbo
Antenna Type	:	PCB Antenna Antoniek Antoniek Antoniek Antoniek
Antenna Gain(Peak)	:	2.78dBi Anbolek Anbolek Anbolek Anbolek Anbolek
		ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the

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User's Manual.

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Report No.:1812C40049012502 Anbotek FCC ID: 2A5PJ-TM277

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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
1.4 Operation chan	nol list Anbor	Anboten Anboten	Ann

1.4. Operation channel list

Operation Band:

operation	Dana.	AMP		K ab		. N.	hor
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1 Ano.	2403 M	otek 5 A	2407	eloda 19	2414	13 tek	2419
ten 2 A	2426	Anbore6	2422	10 vek	2436	14	× 2439 000
nb ^{otek} 3	2441	Antorek	2445	11 ote	2459	15	oter 2453
Anbelek	2463	8 nbotek	2466	12	otek 2473 And	16 An	2480
1.5. Desc	ription of Te	st Modes	otek Anbo	rek Vir	abotek	Anboten	Ann

1.5. Description of Test Modes

×4	Pretest Modes		Descriptions
noote	MTM1	p. abol	Keep the EUT in continuously transmitting mode (non-hopping).
an	TM2	p.,	Keep the EUT in continuously transmitting mode (hopping).

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Andotek Andotek
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB tek Anbolek Anbolek
Conducted Spurious Emission	1.24dB
Dwell Time	2% And tek Anbolek Anbor
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dBoten And And Andotek Andotek Ando
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

level using a coverage factor of k=2.

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Anbotek Nota 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbore Am	Anbote
Conducted Emission at AC power line	Mode1 Mode1	K P Anto
Occupied Bandwidth	Mode1	otek P
Maximum Conducted Output Power	Mode1	-boteP
Channel Separation	Mode2	Prek
Number of Hopping Frequencies	Mode2	P
Dwell Time And	Mode2	P
Emissions in non-restricted frequency bands	Mode1,2	P
Band edge emissions (Radiated)	Mode1	Note P
Emissions in frequency bands (below 1GHz)	Mode1	Anbote P
Emissions in frequency bands (above 1GHz)	Mode1 motek	AP ^{oro}

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Report No.:1812C40049012502 FCC ID: 2A5PJ-TM277

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.

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Report No.:1812C40049012502 Anbotek FCC ID: 2A5PJ-TM277

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Anbotek 1.10. Test Equipment List

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		NOV.	10 V C V	~ QV	No.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Anbo	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
P	n ^{botek}	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
tek abotek	Anbo 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
Anbotek	3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/Aotok	Ayboro	Annotek
Anb	ote ^k 4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11
	Yo.	~ ⁰⁰	h	VIII		104 10	*

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Dwell Time

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation Number of Hopping Frequencies

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Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Antgote	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	po ^{te^xN/A}	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
ж З	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
100 ¹ 4 ^r	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5.	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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	edge emissions (Ra sions in frequency ba		Anbotek A	Anbotek	Anbotek	Anbotek
ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Da
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-2
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-1
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-1
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A N/A	Alootek	Anbor
1e'5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-1
nb6rek	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-0
<u>X</u> upc	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-0

Emissions in frequency bands (belo	ow 1GHz)
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tem	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	Anto 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 ^{botett}	N/A	otek Anbote	K Anbo

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ek.	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to	
tek Anbou	ensure that no antenna other than that furnished by the responsible party	ex-
Test Requirement:	shall be used with the device. The use of a permanently attached antenna or	
aboten And	of an antenna that uses a unique coupling to the intentional radiator shall be	botek
All holen	considered sufficient to comply with the provisions of this section.	14-
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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 2.78dBi. It complies with the standard requirement. ANDO Anbote

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### 3. Conducted Emission at AC power line

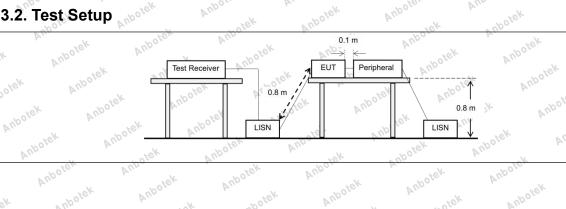
Allek Anbolek A	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted					
Test Requirement:	back onto the AC power line on an 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 fo	s, within the ollowing table, as			
And	Frequency of emission (MHz)	Conducted limit (dBµV)	ek nbolet			
k Anbore Am	lek aboten And	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5	56 hbote A	46			
rek nboten	5-30 Jotek And	60	50			
Anbor An.	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2	abotek Anboto	Ann otek A			
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli					
3.1. EUT Operation	Anbotek Anbote An.	K Anboren And	abotek Anbotek			

### 3.1. EUT Operation

#### **Operating Environment:**

1: TX (Non-Hopping): Keep the EUT in continuously transmitting mode (non-Test mode: hopping). Anb.

### 3.2. Test Setup



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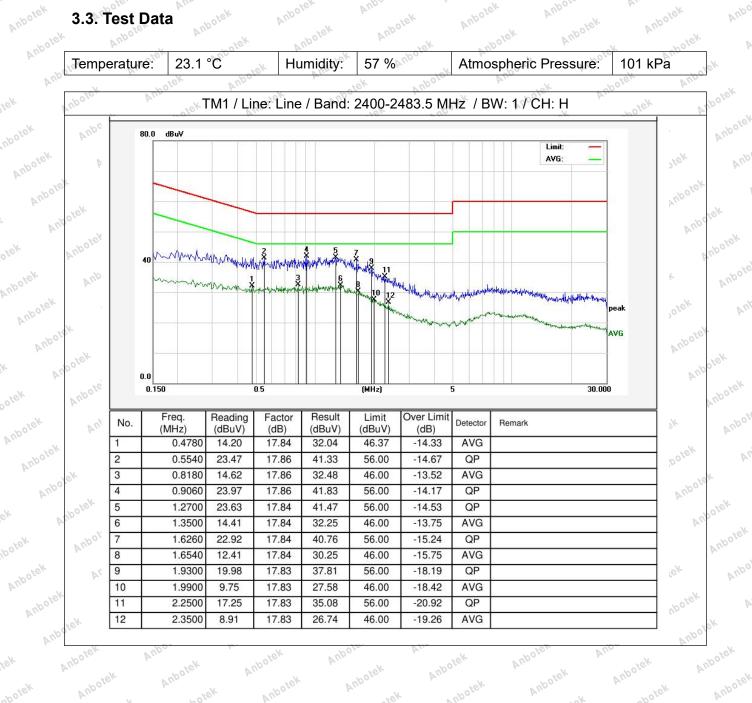
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3.3. Test Data



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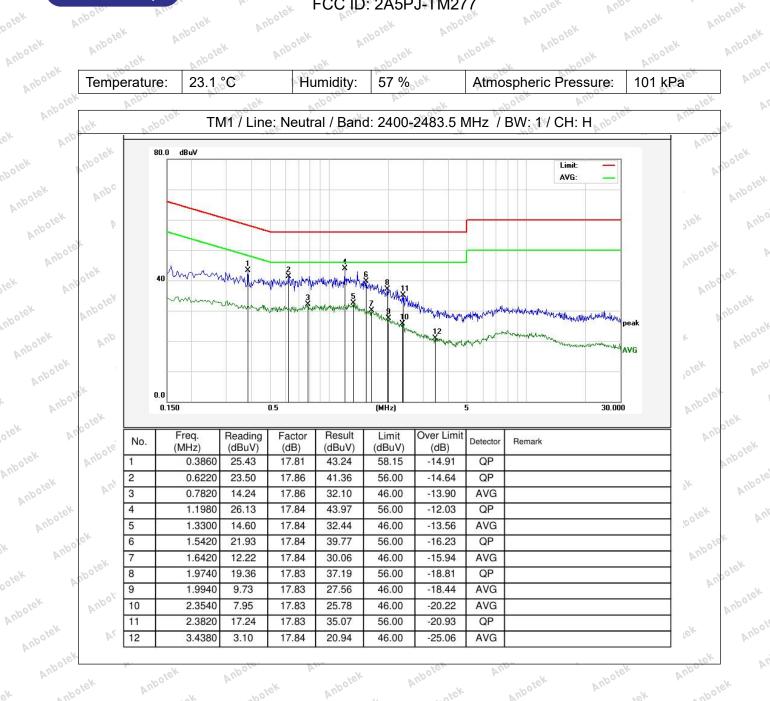
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### 4. Occupied Bandwidth

poter	Test Requirement:	47 CFR 15.247(a)(1)
Anbo	Test Limit: Anbolek	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
bote bote	Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02
lek nbote	Anbotek Anbotek Anbotek Anbotek Anbotek Anbote Anbotek Anbote Anbotek Anbotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to $5\%$ of the OBW and VBW abolt he at least three times the DBW.
hek.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	<ul> <li>5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.</li> <li>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2.</li> </ul>
nbo A	Procedure: housek	<ul> <li>d) Step a) through step c) might require iteration to adjust within the specified range.</li> <li>e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.</li> <li>f) Use the 99% power bandwidth function of the instrument (if available) and</li> </ul>
otek Anbo	tek Anbotek Anbo nbotek Anbotek A	report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
yk pote ^k	Andotek Anbotek Anbotek	power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

### 4.1. EUT Operation

### **Operating Environment:**

1: TX (Non-Hopping): Keep the EUT in continuously transmitting mode (non-Test mode:

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### 4.3. Test Data

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4.3. Test Data	a Anbotek	Anbotek	Anbotek	Anbotek An	potek	Anbotek
Temperature:	24.7 °C	Humidity:	51 %	Atmospheric Pre	essure:	101 kPa
Please Refer to	Appendix for Det	ails. Anboten	tek Anbote	K Anbotek	Anbo	otek Anbotek

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### 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Anbotek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Antotek Anbotek Anbotek Anbotek Anbotek Anbotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
Anbole An Anbotek An otek Anbotek	<ul> <li>b) RBW &gt; 20 dB bandwidth of the emission being measured.</li> <li>c) VBW ≥ RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> <li>e) Detector function: Peak.</li> </ul>
Procedure:	<ul> <li>f) Trace: Max-hold.</li> <li>g) Allow trace to stabilize.</li> <li>h) Use the marker-to-peak function to set the marker to the peak of the emission.</li> <li>i) The indicated level is the peak output power, after any corrections for</li> </ul>
botek Anbotek A	external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum
5.1. EUT Operation	analyzer Anbolek Anbole An Anbolek Anbole An

### 5.1. EUT Operation

Operating Envi	ronment:	Ann	nbotek	Anbo	w.	Ant
Test mode:	1: TX (Non-Hop hopping).	oping): Keep the E	EUT in contin	uously transr	nitting mode (no	on-

### 5.2. Test Setup

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<i>K</i>	Temperature:	24.7 °C	Humidity:	51 %	Atmospheric P	ressure: 1(	)1 kPa
botek	Please Refer to	Appendix for D	etails.	Anbotek	Anbotek Anb	Anbotek A.	Anbotek

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# Anbotek 6. Channel Separation

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est Requirement:	47 CFR 15.247(a)(1)
est Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
nbotek Anb Anbotek Anbotek Anbotek Anbotek Anbotek Anbo	<ul> <li>The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:</li> <li>a) Span: Wide enough to capture the peaks of two adjacent channels.</li> <li>b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.</li> <li>c) Video (or average) bandwidth (VBW) ≥ RBW.</li> </ul>
Procedure: hoole Anbolek Anbolek Anbolek Anbolek	<ul> <li>d) Sweep: No faster than coupled (auto) time.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Max-hold.</li> <li>g) Allow the trace to stabilize.</li> <li>Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate</li> </ul>
. tek	regulatory limit shall be determined. A spectral plot of the data shall be

### 6.1. EUT Operation

Operating Env	vironment:	Anboten	Ann	Anbotek	Anbo	n abovek
Test mode:	2: TX (Ho	pping): Keep	the EUT in co	ontinuously tr	ansmitting mo	de (hopping).
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Anb	stek Anbo	Yek	EUT	Spectru	um Analyzer	Anbo	otek	Anbo
lek l	Anbolek I	Inbotek	nbotek A	nb ^{ot-}	P	Anbotek	Anbotek	6
botek	6.3. Test Dat	a Anborrotek	A. Anbotek	Anbote	Annabotek	Anbotek	Anbo	JK-
An. Cote	Temperature:	24.7 °C	Humidity:	51 %	Atmospher	ic Pressure:	101 kPa	, tel
Anbo	Please Refer to	Appendix for D	etails. Anbotek	Anbot	botek Anbot	sk Aupor	er An	D'up

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### 7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbolek Anbolek Anbolek Anbolek Anbolek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400- 2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	<ul> <li>The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:</li> <li>a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.</li> <li>b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.</li> </ul>
Procedure: https://www.andorek	<ul> <li>c) VBW ≥ RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Max-hold.</li> <li>g) Allow the trace to stabilize.</li> </ul>
ek Anbotek A nbotek Anbotek	It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

### 7.1. EUT Operation

Operating Envi	ronment:	Anbor	Anbolet.	Anbote. 1	Ann abotek	Anbotek
Test mode:	2: TX (Hoppi	ng): Keep the E	EUT in continuc	ously transmitti	ng mode (hopp	ping), hooter
7.2. Test Set	up Anbotek	Anbo botek	Anbotek	Anbore	Anbotek	Anboten
Anbotek Anbr	abotek	EUT	Spectrum	n Analyzer	ek Anbr	nbotek Anbo
Anbote	Ann nbotek	And	r. wolek	Anboi	A	Anbotek
7.3. Test Dat	a Anbotek	Anboten	Ann	Anbotek	Anbornootek	Anbotek
Temperature:	24.7 °C 0010	Humidity:	51 % notek	Atmospheri	c Pressure:	101 kPa
abolet Ano		tek Aupor	b.	rek nbott	Ann	de de

### Please Refer to Appendix for Details.

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#### Report No.:1812C40049012502 Anbotek FCC ID: 2A5PJ-TM277 Anboli

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#### Anbotek ,otek 8. Dwell Time

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Test Requirement:	47 CFR 15.247(a)(1)(iii)
ek Anbo hotek Anbotek Test Limit: Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400- 2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress
Anbo abolek Ar	transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.
And	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
And Anbotek Anbotek Anbotek Anbotek	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel
Procedure:	for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
Ant Anbolek Ant	Use the following spectrum analyzer settings to determine the dwell time per hop:
botek Anbotek	<ul> <li>a) Span: Zero span, centered on a hopping channel.</li> <li>b) RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected transmission time per hop.</li> </ul>
Anbotek Anbote	<ul> <li>c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period =</li> </ul>
Anotek An	<ul> <li>1/hopping rate) should achieve this.</li> <li>d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment</li> </ul>
nbotek Anbolek	to reduce the chance of triggering when the system hops on an adjacent channel. e) Detector function: Peak.
Anbotek Anboter	<ul> <li>f) Trace: Clear-write, single sweep.</li> <li>g) Place markers at the start of the first transmission on the channel and at</li> </ul>

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Hotline 5 400-003-0500 www.anbotek.com Anb





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#### Report No.:1812C40049012502 FCC ID: 2A5PJ-TM277

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the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is  $3 / 0.5 \times 10$ , or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

### 8.1. EUT Operation

#### Operating Environment:

Test mode: 2: TX (Hopping): Keep the EUT in continuously transmitting mode (hopping).

### 8.2. Test Setup



### 8.3. Test Data

h.		VUn			10010
Temperature:	24.7 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa
	015	Dr.	1. P. V		V 60.

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# Anbotek 9. Emissions in non-restricted frequency bands

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Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
et Anbor p	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
nboter And	is operating, the radio frequency power that is produced by the intentional
tek aboten	radiator shall be at least 20 dB below that in the 100 kHz bandwidth within
Anbore Ar.	the band that contains the highest level of the desired power, based on
sotek Anbor	either an RF conducted or a radiated measurement, provided the transmitter
Test Limit:	demonstrates compliance with the peak conducted power limits. If the
Ant Ant	transmitter complies with the conducted power limits based on the use of
All	RMS averaging over a time interval, as permitted under paragraph (b)(3) of
tek Anbore	this section, the attenuation required under this paragraph shall be 30 dB
in the second	instead of 20 dB. Attenuation below the general limits specified in §
boten And	15.209(a) is not required.
All de la	An oter Any cet abo
Test Method:	ANSI C63.10-2020 section 7.8.7
potek Anbor	KDB 558074 D01 15.247 Meas Guidance v05r02
Ano	7.8.7.1 General considerations
k nboter An	To demonstrate compliance with the relative out-of-band emissions
P.	requirements conducted spurious emissions shall be measured for the
otek Anbor	transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers.
-k wotek	Frequency hopping shall be disabled for this test with the exception of
aboten And	measurements at the allocated band-edges which shall be repeated with
All aboter	hopping enabled.
Anbore An	ek nooten And k notek Andor h atek
otek Anbo	Connect the primary antenna port through an attenuator to the spectrum
Anb	analyzer input; in the results, account for all losses between the unlicensed
K aboten Al	wireless device output and the spectrum analyzer. The frequency range of
All	testing shall span 30 MHz to 10 times the operating frequency and this may
otek Anbore	be done in a single sweep or, to aid resolution, across a number of sweeps.
lo tek	The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a
aboten Anos	coupled sweep time with a peak detector.
All boken	And week Andor A. tek Andore.
Procedure:	The limit is based on the highest in-band level across all channels measured
Theedure.	using the same instrument settings (resolution bandwidth of 100 kHz, video
Ano	bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To
et solet P	help clearly demonstrate compliance a display line may be set at the
en bui	required offset (typically 20 dB) below the highest in-band level. Where the
otek Anboic	highest in-band level is not clearly identified in the out-of-band
10- Clek	measurements a separate spectral plot showing the in-band level shall be
abolek Anb	provided. And
All botek	And k hotek Anbor An tek hoter
Aupore Ann	When conducted measurements cannot be made (for example a device with
atek and	integrated, non-removable antenna) radiated measurements shall be used.
Anbu	The reference level for determining the limit shall be established by
ak abotek	maximizing the field strength from the highest power channel and measuring
No. An.	using the resolution and video bandwidth settings and peak detector as
tek anbore.	described above. The field strength limit for spurious emissions outside of
rok be	restricted-bands shall then be set at the required offset (typically 20 dB)
hotek Anbor	below the highest in-band level. Radiated measurements will follow the
Anp-	standards measurement procedures described in Clause 6 with the

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exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

#### 7.8.7.2 Band-edges

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

### 9.1. EUT Operation

Operating Envir	ronment:	An	Anboten	And	nbotek	Anbo
Test mode:	1: TX (Non- hopping).	Hopping): Kee	ep the EUT in	continuously tra	insmitting mo	de (non- ^{bolle}
ok abotek		oing): Keep the	e EUT in cont	inuously transmi	itting mode (h	opping).

### 9.2. Test Setup

EUT	Spectrum Analyzer
NUN.	100°

### 9.3. Test Data

			N/V.				he h
0	Temperature:	24.7 °C	Humidity:	51 %	Anbotek	Atmospheric Pressure:	, 101 kPa ⊾ ^{∿00}
	10.				5 · · · · · · · · · · · · · · · · · · ·		

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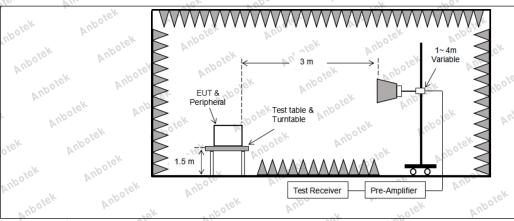
Test Limit:(microvolts/meter)dist (metrovolts/meter)Test Limit:0.009-0.4902400/F(kHz)3000.490-1.70524000/F(kHz)301.705-30.0303030-88100 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions to intentional radiators operating under this section shall not be loc frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-4However, operation within these frequency bands is permitted u sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band The emission limits shown in the above table are based on mea employing a CISPR quasi-peak detector except for the frequency 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission these three bands are based on measurements employing an a detector.Test Method:ANSI C63.10-2020 section 6.10	n fall in the th the ).`
O.490-1.70524000/F(kHz)301.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions fintentional radiators operating under this section shall not be loc frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-4However, operation within these frequency bands is permitted u sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band The emission limits shown in the above table are based on mea employing a CISPR quasi-peak detector except for the frequence 90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission 	asurement ance ters)
Image: Test Method:Image: Image:	Ann
30-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions fintentional radiators operating under this section shall not be loc frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-4However, operation within these frequency bands is permitted u sections of this part, e.g., §§ 15.231 and 15.241.In the emission table above, the tighter limit applies at the band The emission limits shown in the above table are based on mea employing a CISPR quasi-peak detector except for the frequence 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission these three bands are based on measurements employing an a 	n nbore
Test Limit:88-216150 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions fintentional radiators operating under this section shall not be loc frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-4 However, operation within these frequency bands is permitted u sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band The emission limits shown in the above table are based on mea employing a CISPR quasi-peak detector except for the frequency 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission these three bands are based on measurements employing an ar detector.Test Method:ANSI C63.10-2020 section 6.10	A.
Test Limit:216-960 Above 960200 ** 5003** Except as provided in paragraph (g), fundamental emissions to intentional radiators operating under this section shall not be loc frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-4 However, operation within these frequency bands is permitted u sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band The emission limits shown in the above table are based on mea employing a CISPR quasi-peak detector except for the frequency 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission these three bands are based on measurements employing an ar detector.Test Method:ANSI C63.10-2020 section 6.10	AUL
Above 9605003Test Limit:** Except as provided in paragraph (g), fundamental emissions to intentional radiators operating under this section shall not be loc frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-4 However, operation within these frequency bands is permitted u sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band The emission limits shown in the above table are based on mea employing a CISPR quasi-peak detector except for the frequency 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission these three bands are based on measurements employing an ad detector.Test Method:ANSI C63.10-2020 section 6.10	Jo.
Above 9605003Test Limit:** Except as provided in paragraph (g), fundamental emissions to intentional radiators operating under this section shall not be loc frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-4 However, operation within these frequency bands is permitted u sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band The emission limits shown in the above table are based on mea employing a CISPR quasi-peak detector except for the frequency 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission these three bands are based on measurements employing an ad detector.Test Method:ANSI C63.10-2020 section 6.10	Ore
<ul> <li>Intentional radiators operating under this section shall not be loc frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-4 However, operation within these frequency bands is permitted u sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band The emission limits shown in the above table are based on mea employing a CISPR quasi-peak detector except for the frequence 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission these three bands are based on measurements employing an ar detector.</li> <li>Test Method:</li> </ul>	Nek
	nder other edges. surements y bands 9- limits in
KDB 558074 D01 15.247 Meas Guidance v05r02	Anbo
Procedure: ANSI C63.10-2020 section 6.10.5.2	N/

### 10. Band edge emissions (Radiated)

### 10.1. EUT Operation

Operating Env	ironment:	Anbo	bolek	Anbote	Am	Anbotek
Test mode:	1: TX (Non-H hopping).	lopping): Keep	the EUT in co	ntinuously tran	smitting mode	(non-
40.2 Toot S	bin botek	AUPO	, otek	Auport	P.	hoter

### 10.2. Test Setup



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Page 26 of 35

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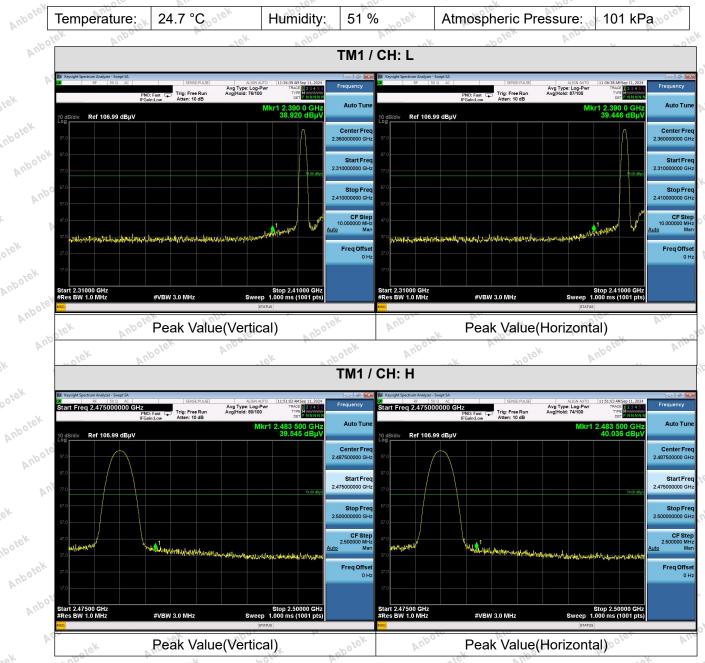
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### Anbotel 10.3. Test Data



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

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Test Requirement:	restricted bands, as define	l), In addition, radiated emissions ed in § 15.205(a), must also com pecified in § 15.209(a)(see § 15.2	ply with the
nbote. Am	Frequency (MHz)	Field strength	Measurement
Anbotek Anbo	A. Anbotek Anbote	(microvolts/meter)	distance (meters)
hotek Anbo	0.009-0.490	2400/F(kHz)	300
And	0.490-1.705	24000/F(kHz)	30 nbotek
k Anbote. A	1.705-30.0	A 30 Solek Ant	30
k hotek	30-88	100 **	3tek Anbe
oten And	88-216	150 ** tet	3
tek nboter	216-960	200 **	3. nb 010 P
			-
Test Limit:	Above 960 ** Except as provided in p	500 paragraph (g), fundamental emiss	3 sions from
Test Limit: Anbolek	** Except as provided in p intentional radiators opera frequency bands 54-72 M However, operation within	paragraph (g), fundamental emiss ating under this section shall not l Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permi	sions from be located in the 470-806 MHz.
Anborek Test Limit: Anborek Anborek Anborek	** Except as provided in p intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g.,	paragraph (g), fundamental emiss ating under this section shall not l Hz, 76-88 MHz, 174-216 MHz or a these frequency bands is permi §§ 15.231 and 15.241.	sions from be located in the 470-806 MHz. tted under other
Anbolek Test Limit: Anbolek Anbolek	** Except as provided in p intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abov	baragraph (g), fundamental emiss ating under this section shall not l Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permi §§ 15.231 and 15.241. /e, the tighter limit applies at the	sions from be located in the 470-806 MHz. tted under other band edges.
Anborek Test Limit: Anborek Anborek Anborek Anborek Anborek	** Except as provided in p intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi	baragraph (g), fundamental emiss ating under this section shall not l Hz, 76-88 MHz, 174-216 MHz or a these frequency bands is permi §§ 15.231 and 15.241. Ve, the tighter limit applies at the n in the above table are based or -peak detector except for the free	sions from be located in the 470-806 MHz. tted under other band edges. n measurements quency bands 9–
Anbolek Test Limit: Anbolek Anbolek Anbolek Anbolek Anbolek	** Except as provided in p intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and	baragraph (g), fundamental emiss ating under this section shall not l Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permi §§ 15.231 and 15.241. ve, the tighter limit applies at the n in the above table are based or peak detector except for the free above 1000 MHz. Radiated emi	sions from be located in the 470-806 MHz. tted under other band edges. measurements quency bands 9– ssion limits in
Anbolek Test Limit: Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek	** Except as provided in p intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and	baragraph (g), fundamental emiss ating under this section shall not l Hz, 76-88 MHz, 174-216 MHz or a these frequency bands is permi §§ 15.231 and 15.241. Ve, the tighter limit applies at the n in the above table are based or -peak detector except for the free	sions from be located in the 470-806 MHz. tted under other band edges. measurements quency bands 9– ssion limits in
Test Limit:	** Except as provided in p intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas	baragraph (g), fundamental emiss ating under this section shall not l Hz, 76-88 MHz, 174-216 MHz or a these frequency bands is permi §§ 15.231 and 15.241. we, the tighter limit applies at the n in the above table are based or peak detector except for the free above 1000 MHz. Radiated emised on measurements employing n 6.6.4	sions from be located in the 470-806 MHz. tted under other band edges. measurements quency bands 9– ssion limits in

#### Anbotek otek 11 Fmissions in bands (below 1GHz)

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### 11.1. EUT Operation

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Operating Envir	ronment:	Upo. K.	bolek A	nbote. An	otek a	nbotek
Test mode:	1: TX (Non-Ho hopping).	pping): Keep the	e EUT in conti	nuously transmi	tting mode (no	on-
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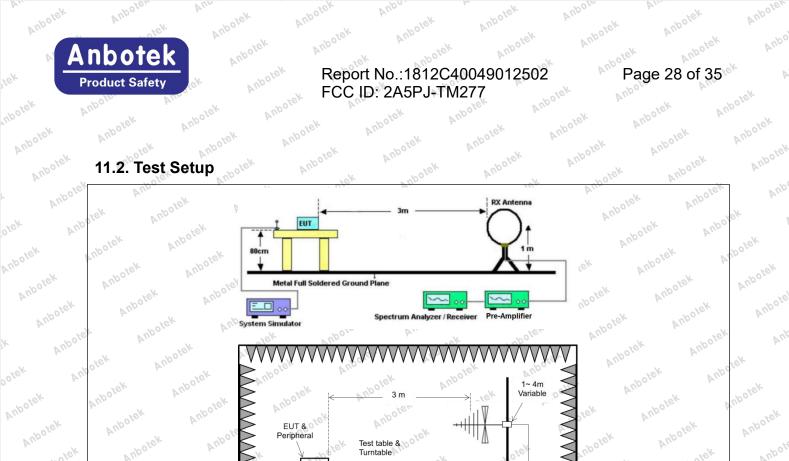
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Test Receiver

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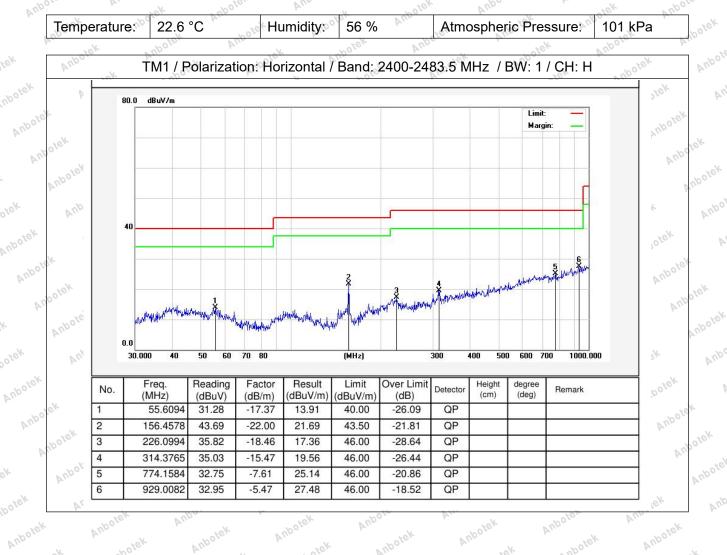
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### Anbotet 11.3. Test Data

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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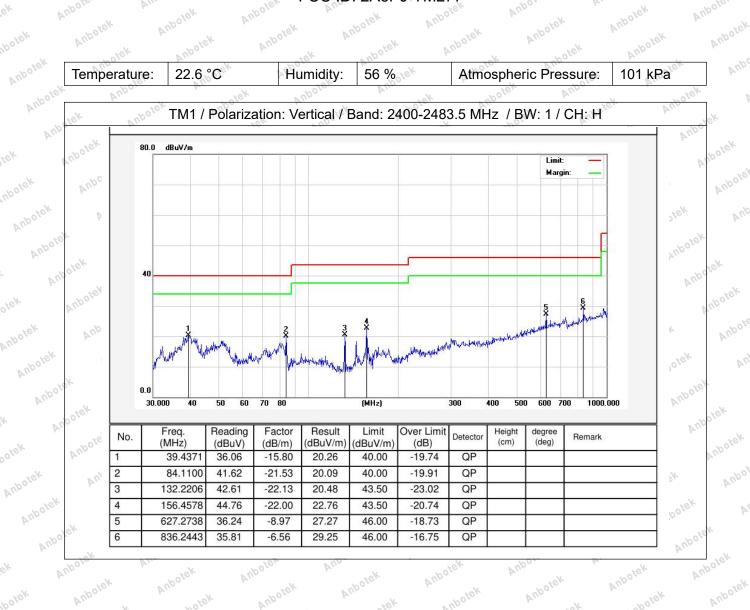
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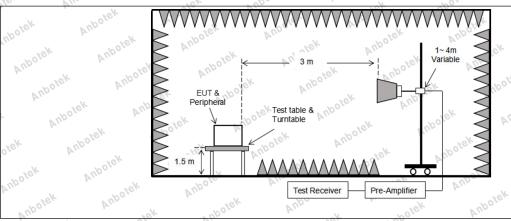
Test Requirement:		ons which fall in the restricted b omply with the radiated emission 5(c)).`	
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
aboten And	0.009-0.490	2400/F(kHz)	300
Ar. ek nt	0.490-1.705	24000/F(kHz)	30 nb ^{oto}
K Anbor A.	1.705-30.0	30 K hotek Anb	30
k hotek	30-88	100 **	3ter Ant
oten And	88-216	150 ** tek https://	3
rek nboten	216-960	200 **	3 nbor
Anbor A. rek	Above 960	500 boten And	3 tek
100° M	troquoney bands 5/-72 MH	Iz, 76-88 MHz, 174-216 MHz or	
Antotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	However, operation within the 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 frequency bands is permit	ted under other band edges. measurements quency bands 9- ssion limits in
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	However, operation within the 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	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 free above 1000 MHz. Radiated emis ed on measurements employing 6.6.4	ted under other band edges. measurements quency bands 9- ssion limits in

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

### 12.1. EUT Operation

lek.	Operating Envir	ronment:	Anbor	A. bolek	Anboren	Ann	Anbotek
nbotek	Test mode:	1: TX (Non- hopping).	Hopping): Keep	o the EUT in	continuously tra	ansmitting mode	e (non- notek
Anboten	12.2. Test Se	tup Anbotek	Anbo	sk anbo	tek Aupore	Lek abote	k Aupoten

### 12.2. Test Setup



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### Anbotek 12.3. Test Data

12.3. Test Da	ta Anbotek	Anbotek	Anbo. nbotek	Anbotek Ar	hbote.	Antootek
Temperature:	24.7 °C	Humidity:	51 %	Atmospheric Pr	essure:	101 kPa
ek npo	he.	Polo	Der.	1er	AUD	

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4	Peak value:						
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
~	4806.00	29.14	15.27	44.41	74.00	-29.59	Vertical
×-	7209.00	30.28	18.09	48.37	74.00	-25.63	Vertical
00%	9612.00	31.51	23.76	55.27	74.00	-18.73	Vertical
	12015.00	* Am	tek hoo	lek Aupt	74.00	otek Anbo	Vertical
<i>b</i> . <i>c</i>	14418.00	potek * Anb	e e e e e e e e e e e e e e e e e e e	botek An	74.00	, otek	vo Vertical
	4806.00	29.50	15.27	44.77	74.00	-29.23	Horizontal
	7209.00	30.16	18.09	48.25	74.00	-25.75	Horizontal
	9612.00	29.32	23.76	53.08	74.00	-20.92	Horizontal
-V ₈	12015.00	*nbote.	Ann	Anbotek	74.00	k soutek	Horizontal
100	14418.00	ek * npole	k Aupo	and indi	74.00	P.I.	Horizontal

#### Average value:

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Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization	Anbor
4806.00	18.52	15.27	33.79	54.00	-20.21	Vertical	b.
7209.00	19.31	18.09	37.40	54.00	-16.60	Vertical	
9612.00	20.53	23.76	44.29	54.00 NO	-9.71	Vertical	ove ^k
12015.00	* Ann	to Mar	otek Anb	54.00	botek Ant	Vertical	Lotek
14418.00	nbotek * Ar	100- K	holek	54.00	tek.	Vertical	2 nbc
4806.00	17.85	15.27	33.12	54.00	-20.88	Horizontal	Aupo
7209.00	19.22	18.09	37.31	54.00	-16.69	Horizontal	N
9612.00	18.63	23.76	42.39	54.00	-11.61	Horizontal	
12015.00	* Anboten	Dun	ek nbote	54.00	the show	Horizontal	]
14418.00	* *	rek Aupo	-K - K	otet 54.00 pm ^{bc}	to. An	Horizontal	otek
Anbotek Ant	or potek p	nbotek Ar	bote. An	Anbotek A	nbotek An	Anbotek	Anbotek

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Anbot	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
P	4882.00	29.16 Mm ⁰	15.42	44.58	o ^{tek} 74.00 ^{knb}	-29.42	Vertical 🔊
6	7323.00	30.13	18.02 N	48.15	74.00	-25.85	Vertical
otek	9764.00	30.52	23.80	54.32	74.00	-19.68	Vertical
	12205.00	Anbo*	Ann	Anbotek	74.00	botek	Vertical
Anbotek	14646.00	*nbotek	Anbo	hotek	74.00	Am	Vertical
Anbo	4882.00	29.20	15.42	44.62	74.00	-29.38	Horizontal
b.	7323.00	30.15	18.02	48.17Anbo	74.00	otek -25.83 Anbo	Horizontal
P	9764.00	o ^{tek} 29.02 M ^{nb}	23.80	52.82	74.00	-21.18	Horizontal
ek.	12205.00	~otek*	Anbote. A	, tek	74.00	And	Horizontal
botek	14646.00	And *	nbotek	Anbor	74.00	Anboro	Horizontal
,Q~	A						

#### Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	18.25	otek 15.42 And	33.67	54.00	-20.33 And	Vertical
7323.00	19.41	18.02	37.43	54.00	-16.57	Vertical
9764.00	20.39	23.80	44.19	54.00	-9.81	Vertical
12205.00	* tek	Anbor	Attek	54.00	And	Vertical
14646.00	A ** atek	Anboten	Anbo	54.00	Anbors	Vertical
4882.00	17.76	15.42	33.18	54.00	e [★] -20.82 ^{mo^{te}}	Horizontal
7323.00	18.78 no ⁶	18.02	Net 36.80 mb	54.00 And	-17.20	Horizontal
9764.00	19.14	10 ⁰¹⁶¹ 23.80 ^{Mn1}	42.94	54.00	-11.06	Horizontal
12205.00	*	abotek	Anbor	54.00	Anboten	Horizontal
14646.00	Anbot*	Am	Anboten	54.00	abotek	Horizontal
and Anbolek	Anbotek	Anborek	Anbotek	Anbore Anbotek	Anbotek	Anboten Abotek

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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 ⁰⁰	29.43	15.58 And 15	45.01	NON 74.00 MAD	-28.99	Vertical	
7440.00	30.14	17.93	48.07 AN	74.00	-25.93	Vertical	
9920.00	31.07	23.83	54.90	74.00	-19.10	Vertical	
12400.00	abotek	Anbo	h. botek	74.00	Anbotek	Vertical	
14880.00	* olek	Anbotek	Ano	74.00	Anbo	Vertical	
4960.00	29.27	15.58	44.85	74.00	-29.15	Horizontal	
7440.00	30.18 ^{,000}	17.93	e ^k 48.11 _{An} bo ^k	74.00	-25.89	Horizontal	
9920.00	29.70	23.83	53.53	po ^{vek} 74.00 p ^{nb}	-20.47	Horizontal	
12400.00	*	abotek A	Upor N.	74.00	Anbore. A	Horizontal	
14880.00	Anbor *	A. otek	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	19.37	15.58	34.95 Ano	54.00	o ^{tek} -19.05 And	Vertical	
7440.00	20.42	17.93	38.35	54.00	-15.65	Vertical	
9920.00	20.94	23.83	44.77	54.00	-9.23	Vertical	
12400.00	Ame * tek	Anbotek	Anbo	54.00	Anbois	Vertical	
14880.00	Ant	hotek	Anbotok	54.00	Anboten	Vertical	
4960.00	19.20	15.58	34.78	54.00	-19.22	Horizontal	
7440.00	20.15 00	17.93	38.08	10 ⁴ 54.00 pm ⁰⁰	-15.92	Horizontal	
9920.00	19.04	ote 23.83 pr	42.87 And	54.00	b ^{oter} -11.13 A ^{nt}	Horizontal	
12400.00	nboter * A	1. CK	botek	54.00	abotek	Horizontal	

#### Remark:

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1. Result =Reading + Factor

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Anbotek Test frequency are from 1GHz to 25GHz, "*" means the test results were attenuated more than An12. 20dB below the permissible limits, so the results don't record in the report. Anbotek Anbotek

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Anbote Page 35 of 35 Anbotek

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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 Shenzhen Anbotek Compliance Laboratory Limited

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