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FCC Test Report

Applicant	: Shenzhen Minsuo Industrial Co.,Ltd.
	Anboi An botek Anboter Anbotek Anbotek Anboi
tek nbotek	12th floor, Block B, Tengyao Building, No. 268
Address	: Gushu 2nd road, Xixiang Town, Bao'an,
	Shenzhen, China

Bone Conduction Earphone Product Name

: Dec. 19, 2023 **Report Date**



Shenzhen Anbotek Compliance Laboratory Limited

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





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Report No.: 1	18220WC30255501	FCC ID: 2AOV6-HP-582
	Anboten TES	ST REPORT
Applicant	: Shenzhen Minsu	uo Industrial Co.,Ltd.
Manufacturer	: Shenzhen Minsu	uo Industrial Co.,Ltd.
Product Name	Bone Conductio	n Earphone
Test Model No.	: HP-582	
Reference Model	No. : Ao scan mobile	
Trade Mark	botek : N/A	
Rating(s)	: Input: 5V 1A(v	vith DC 3.7V, 160mAh battery inside)
Test Standard(s)		

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:

Date of Test:

Prepared By:

Nov. 29, 2023

Nov. 29, 2023 to Dec. 11, 2023

Nian Xiu Chen

(Nianxiu Chen)

Idward pan

(Edward Pan)

pproved & Authorized Signer:

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.

Hotline 400-003-0500 www.anbotek.com.cn



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Revision History

Report Version	Description	Issued Date
Anborek R00 potek	Original Issue.	Dec. 19, 2023
Anborek Anborek	Anboren Anborek Anborek	Anboi Anbotek Anbotek Anb
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Anbc

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1. General Information

1.1. Client Information

Applicant	:	Shenzhen Minsuo Industrial Co.,Ltd.
Address		12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road, Xixiang Town, Bao'an, Shenzhen, China
Manufacturer	:	Shenzhen Minsuo Industrial Co.,Ltd.
Address	:	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road, Xixiang Town, Bao'an, Shenzhen, China
Factory	:	Shenzhen Minsuo Industrial Co.,Ltd.
Address	:	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road, Xixiang Town, Bao'an, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Bone Conduction Earphone
Test Model No.	:	HP-582 http://www.upotek.and.org
Reference Model No.	:	Ao scan mobile (Note: All samples are the same except the model number, so we prepare "HP-582" for test only.)
Trade Mark	:	N/A Andorek Andorek Andorek Andorek Andorek Andorek Andorek
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 of Antonek Anborek Anborek Anborek Anborek Anborek
RF Specification		
Operation Frequency	-	2402MHz to 2480MHz
Number of Channel	:	79 Anno abotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK
Antenna Type	:	Ceramics Antenna
Аптенна туре		

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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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
At abotek Anboten	And otek unbotek	Anbor An botek	Anboren Ano

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1.4. Operation channel list

Operation Band:

Operation D	and.	F. V		Alle	79x		in v
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0 Anbore	2402	20 00	2422	40	2442 bole	60	2462
tek 1 Anb	2403	10 K 21	ote ^k 2423 pr ^{b0}	41 And	2443 Anto	61 And	2463
botek2 A	2404	22	2424	42	2444	62	2464
34	2405	23	2425	Anborda	2445	63	2465
4 dotek	2406	Anno 24	2426	44	2446	64	2466
5 botek	2407	25	2427	45	2447	65,0010	2467
e ^k 6	2408 2408	26	2428 NO	46 Anbo	2448	ret 66 prob	2468
	2409 M	27	2429	potek 47 An	2449	67 N	2469
.8	2410	28	2430	48	2450	68	2470
Anbo 9 tek	2411	29	2431	49	2451	69	2471
Anbo 10 otek	2412	30	2432	50 ^{oten}	2452	70 otek	2472
11	2413	31 ^{nbor}	2433	K 51 Anbot	2453	ek 71 no	2473
12	2414	1 ^{ek} 32 And	2434	otek 52 Ant	2454	otet 72	00 ¹⁶ 2474 M
13 An	2415	iootek33 P	2435	53	2455	73	2475
Anboild	2416	34	2436	54	2456	74.04	2476
M15	2417	35	2437	55 · · · ·	2457	75 otek	2477
16	2418	36 poter	2438	56 noote	2458	76	2478
* 17Anbor	2419	e ^k 37 _{An} bo	2439	tek 57 Anb	2459 Mar	77 × 77	ote ⁴ 2479 pr/
otek 18 Ant	2420	oote ^k 38 M	2440	58	2460	78	2480
nb ^{otel} 19	2421	39	2441	59	2461	Anbor-ek	abo <u>t</u> ek

1.5. Description of Test Modes

Pretest Modes	Descriptions
tek Andro TM1 Anborek	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2 Anbore	Keep the EUT in continuously transmitting mode (non-hopping) with π /4-DQPSK modulation.
Andorek TM3 ^{tek} Andor	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Anbotek TM4 ^{nbotek}	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ -DQPSK modulation.

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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz
Conducted Output Power	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

level using a coverage factor of k=2

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1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	An abotek / Anbote	AnuPotek
Conducted Emission at AC power line	Mode1,2	Р
Occupied Bandwidth	Mode1,2	PAN
Maximum Conducted Output Power	Mode1,2	P
Channel Separation	Mode3,4	Pk
Number of Hopping Frequencies	Mode3,4	Anbor P tek
Dwell Time And	Mode3,4	P
Emissions in non-restricted frequency bands	Mode1,2,3,4	PAND
Band edge emissions (Radiated)	Mode1,2	P Ant
Emissions in frequency bands (below 1GHz)	Mode1,2	nbot P
Emissions in frequency bands (above 1GHz)	Mode1,2	Anbore P.ek
Note: P: Pass of Annote	Antonek Anborek	Anborshote

N: N/A, not applicable

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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

	· P. V	and Ano		K	ps. V	in Oter
Item	Equipment	Manufacturer	Model No.	Serial No.	Ke ^k 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 Anbo	rek /Anborek	Anboisek
	Your You	p.,	Non No		all abor	. Pr.

Occupied Bandwidth Maximum Conducted Output Power Channel Separation Number of Hopping Frequencies Dwell Time Emissions in non-restricted frequency bands

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24			-V 10 ¹	Del Vi
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	pote ^k N/A ^{An}	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
An3ote	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4 . ^{nb}	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5 🖻	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	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	Anbotek	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
3	Double Ridged Horn Antenna SCHWARZBECK		BBHA 9120D	02555	2022-10-16	2025-10-15
^{1b} 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	And	Anbotek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
^{رو/۲}	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
Antote	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.nb	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/A noot	ek Anbo	k Anbotek

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2. Antenna requirement

hotek Anbo	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
And k hotel	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
ek Anbotek Anbr	of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

2.1. Conclusion

The antenna is a Ceramics Antenna which permanently attached, and the best case gain of the antenna is 2.5dBi . It complies with the standard requirement.

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AUR

3. Conducted Emission at AC power line

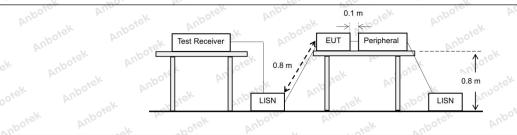
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that ny frequency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

3.1. EUT Operation

Operating Environment:

Anbo	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-
Test mode:	hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode
hbotek Anbo.	(non-hopping) with $\pi/4$ -DQPSK modulation.

3.2. Test Setup



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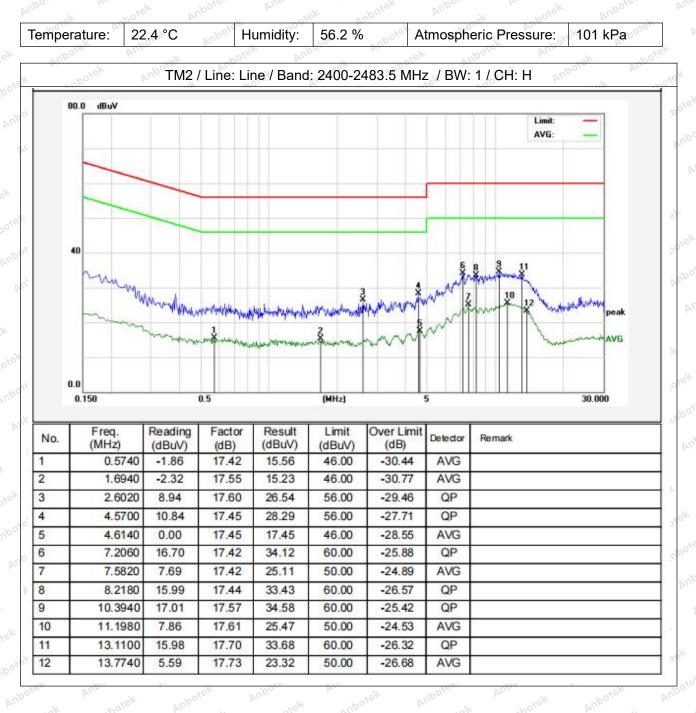
Address:1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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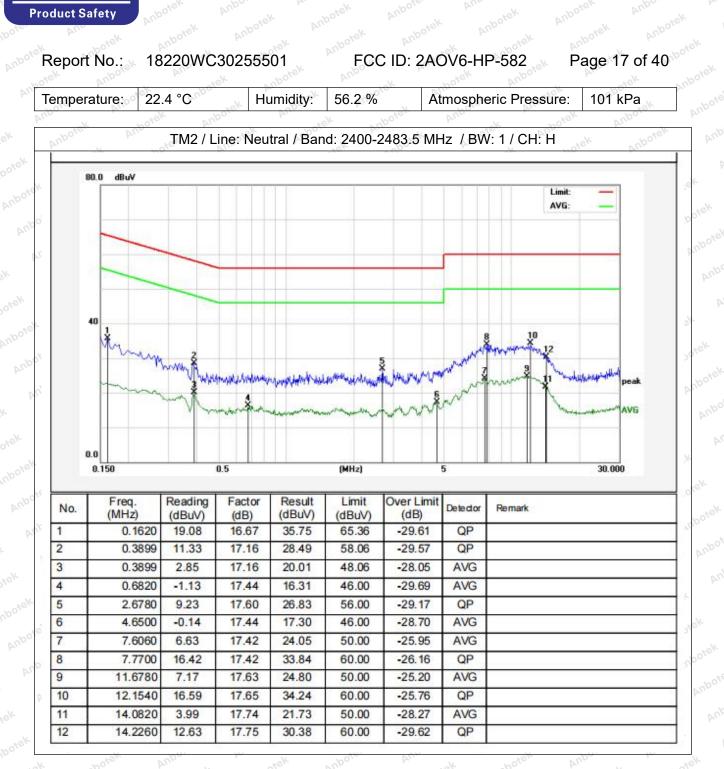
3.3. Test Data



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Note: Only record the worst data in the report.

Anbotek

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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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.
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
Anbotek Anbotek Anto nbotek Anbotek Anto nbotek 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
Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	 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 shall be at least three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required keeping the signal.
	 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. d) Step a) through step c) might require iteration to adjust within the
Procedure:	 a) Step a) intologn step b) might require iteration to adjust within the specified range. b) 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. f) Use the 99% power bandwidth function of the instrument (if available) and 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.
	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
notek anbu.	the plot(s).

4.1. EUT Operation

Operating Environment:

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

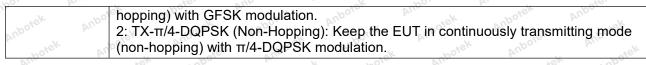
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4.2. Test Setup

EUT	Spectrum Analyzer
	20°

4.3. Test Data

		- L L L						
Temperature:	25.2 °C	h.	Humidity:	43 %	P.U.	Atmospheric	Pressure:	101 kPa

Please Refer to Appendix for Details.

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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	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
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. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW.
Procedure:	 d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold.
	g) Allow trace to stabilize.h) Use the marker-to-peak function to set the marker to the peak of the emission.
	 i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report.
	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
ek Anborer Ano	analyzer.

5.1. EUT Operation

Operating Envi	ronment:	Anbore An	ak Anboten	Anbe	abotek
Test mode:	hopping) with GFS 2: TX-π/4-DQPSK	Hopping): Keep the EU K modulation. (Non-Hopping): Keep t π/4-DQPSK modulatic	he EUT in conti	tek abotel	Anbo

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5.2. Test Setup

4	Anbotek		EUT	Spec	trum Analyzer	PU		Anbotek	
o ^{xe}	K Anbotek	Anbore	Annbotek	Anboter	And	Anborek	Anbotek	Anbor	

5.3. Test Data

Temperature:	25.2 °C	_1eK	Humidity:	43 %	Atmospheric Pressure:	101 kPa
AV .	- No	~O.	12×1	_101	No. No.	~O.

Please Refer to Appendix for Details.

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6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anborek	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
Procedure: Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek	 The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. 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. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
botek Anbotek A Anbotek Anbotek Anbotek Anbotek	Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

6.1. EUT Operation

Operating Envi	ronment:	Annotek	Anboten	Anbe	ek anbot	ek Anbore	pin d
Test mode:	3: TX-GFSK with GFSK m 4: TX-π/4-DC (hopping) wit	nodulation,.	ig): Keep the	e EUT in co	poten An	0° 0 / (Lotek

6.2. Test Setup

ek Anbotek An	bot EUT	-	Spectrum A	Analyzer	,k otek	Anbotek	Anbor	0
poter And hotek	Anbore	Ann	abotek	Anbo.				20
6.3. Test Data	Anbotek	Anbor	Anbotek	Anboten	Anboth	anbot	ek *ek	

Temperature:	25.2 °C	Pupo.	Humidity:	43 % _{M⁰⁰}	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.

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FCC ID: 2AOV6-HP-582

7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	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	 The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: 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. 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. c) VBW ≥ RBW.
Procedure:	 d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
Anbotek Anbotek Anbotek 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:	Anbo.	Anotek		Anbotek	P.C
Test mode:	3: TX-GFSK (H with GFSK mo 4: TX-π/4-DQF (hopping) with	odulation,. PSK (Hopping): Keep the E	otek Anbore	Ant	ig) ie ^k

7.2. Test Setup

		EUT	Spectrum A	Analyzer		
7.3. Test Dat	ta ek	potek Anbore	An- Anbotek Anbotek	k anbotek	Anbotek Anbotek	Anbo. Anbotek
Temperature:	25.2 °C	Humidity:	43 %	Atmospheric	Pressure:	101 kPa

Please Refer to Appendix for Details.

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8. Dwell Time

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Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	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 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
	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 ha 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.
	the last transmission. 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. The EUT shall have its hopping function enabled. Compliance with the
Procedure:	requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary wit 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 for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
	Use the following spectrum analyzer settings to determine the dwell time pe hop:
	 a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop.
	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 =
	1/hopping rate) should achieve this.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 to reduce the chance of triggering when the system hops on an adjacent
Anbotek Anbot	channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at

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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.

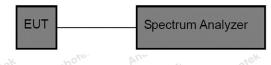
The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

8.1. EUT Operation

Ope	rating Env	vironment:	
KOM	npo.	2. TV CEEK	

Test mode: with GFSK modulation,.) 🖂
4: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode	
(hopping) with π/4-DQPSK modulation.	

8.2. Test Setup



8.3. Test Data

Temperature:	25.2 °C	Humidity:	43 %	abote	Atmospheric Pressure:	101 kPa
20	MA		A72	N. V. V.	02	

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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek	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 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.
botek Anbotek A Anbotek Anbotek A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure: oriek	The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.
	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the

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Anbotek Anbotek	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
K Anboten Anbo	measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.
	7.8.7.2 Band-edges
nbotek Anbote.	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.
Anbotek Anbot	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 Envi	ronment:
Anbotek Anbote Anbotek Anb	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4-DQPSK modulation.
Test mode:	 3: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 4: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode
9.2 Test Set	hopping) with π/4-DQPSK modulation.

9.2. Test Setup

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Anbo		EUT	Spectrur	n Analyzer	•	abotek	
Anbor							
Anboter							

9.3. Test Data

1	Temperature:	25.2 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa	-

Please Refer to Appendix for Details.

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10. 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 woo
k Anbotek Anbon	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
v sotek	0.009-0.490	2400/F(kHz)	300 10010
nboten Anbo	0.490-1.705	24000/F(kHz)	30 John
atek unboter	1.705-30.0	30° All atek mbo	30
Anbor	30-88	100 **	3 ck noore
aboten Anbo	88-216	150 ** Noter M	3
Ar. stek unbote	216-960	200 **	3 boten And
Anbo. A.	Above 960	500 Martel Anabo	3 rek np
Test Limit: Ster 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	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	e located in the 470-806 MHz. ted under other oand edges. measurements uency bands 9– tsion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anbore
Procedure:	ANSI C63.10-2020 section	6.10.5.2	por Arr
k. K holen	And sek	por pri	Loter Ano

10.1. EUT Operation

Operating Envir	onment:	nbotek	Anbo		tek Anbot	And	stek M
Test mode:	hopping) w 2: TX-π/4-I	K (Non-Hopping ith GFSK modu DQPSK (Non-H ng) with π/4-DC	ilation. opping): Kee	ep the EU⊺	por Pr.	dek	Anboter

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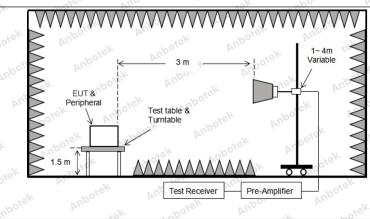
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10.2. Test Setup



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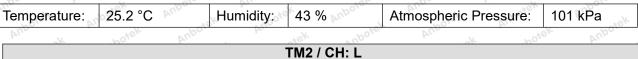


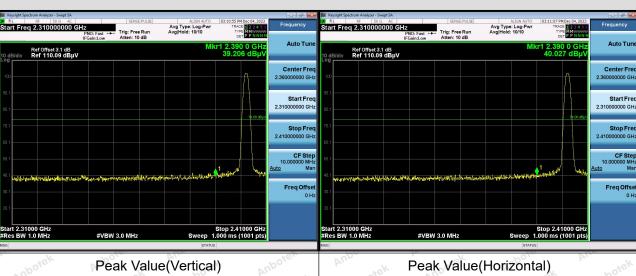


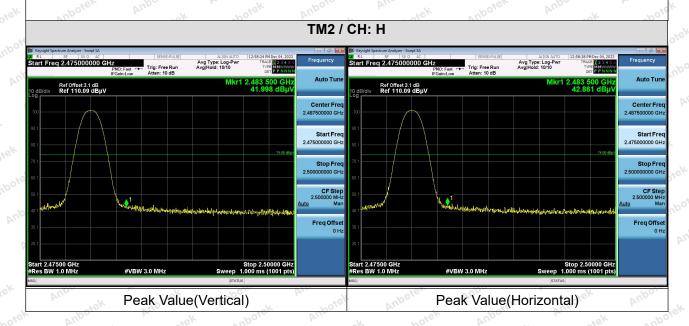
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10.3. Test Data







Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 2. 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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11. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also comp ccified in § 15.209(a)(see § 15.2	ly with the 🔊 🔍
tek unbotek Anbor	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
botek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Ant hotek Anbotek	1.705-30.0	30	30 400
And otek Anbotek	30-88 88-216	100 ** 150 **	3
Anbo tek nbote	216-960	200 **	3 oter Ano
Test Limit:	Above 960	500 botek Anbo	3 tek
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek tek Anbotek Anbote	intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		sk Anbote.
Procedure:	ANSI C63.10-2020 section	6.6.4 Ant	por An abotek

11.1. EUT Operation

Operating Envir	onment:	4 Anbotek	Anbo	h. botel	Anbore	Ann	N N
Test mode:	hopping) w 2: TX-π/4-	K (Non-Hopping /ith GFSK modu DQPSK (Non-H ing) with π/4-DC	ilation. opping): Kee	p the EUT i		stek unt	over

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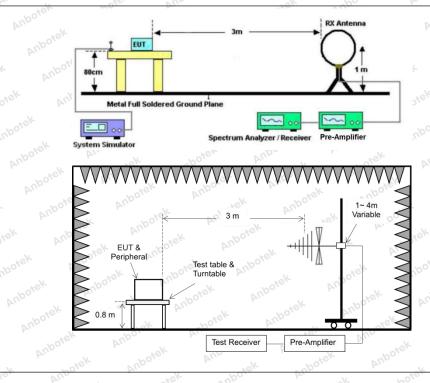
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11.2. Test Setup



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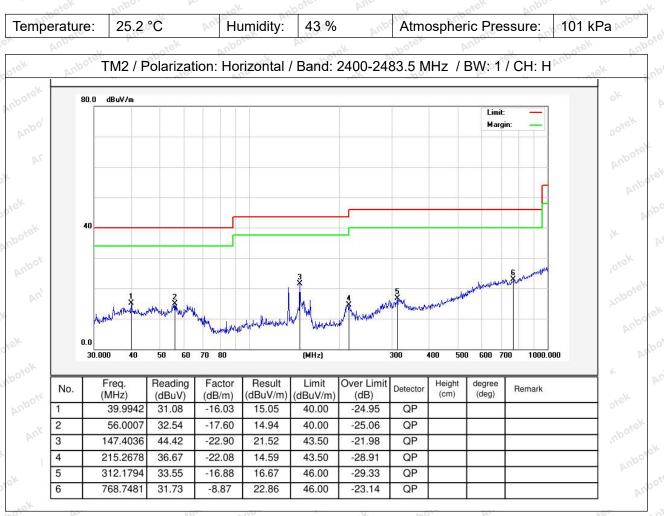




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11.3. Test Data

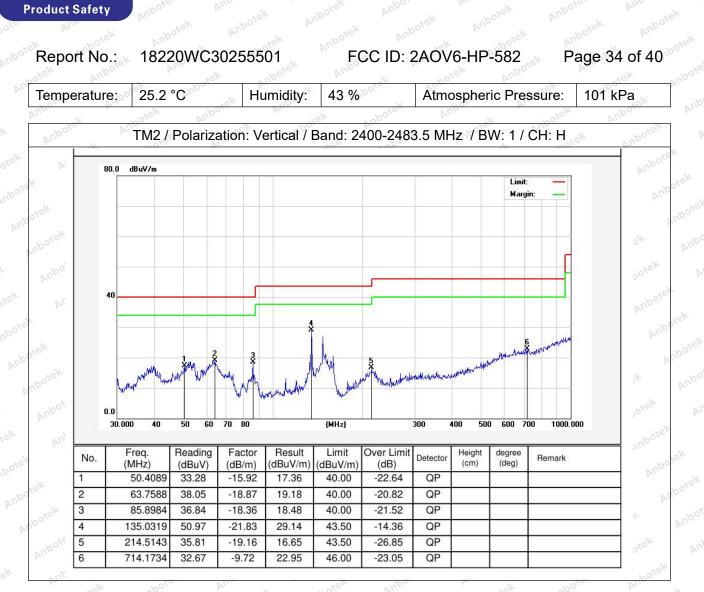
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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Note: Only record the worst data in the report.

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12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted ba omply with the radiated emissior 5(c)).`	
Anbotek Anbot otek Anbotek An	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
k hotek	0.009-0.490	2400/F(kHz)	300 mbore
nboten And	0.490-1.705	24000/F(kHz)	30 otek
Ar atek Anborer	1.705-30.0	30° At noo	30
Anboy k hotek	30-88	100 **	3 tek Anbore
aboten Anb	88-216	150 ** A	3
An otek Anbore	216-960	200 **	3 boten Ant
Test Limit:	Above 960	500	3 otek anb
nbołek Anbołek	intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissi ing under this section shall not b lz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ak Anbore
Procedure:	ANSI C63.10-2020 section	6.6.4 Ant	201- All hotek

12.1. EUT Operation

Operating Envir	ronment:	botek Anbo.	with the	stek Anbore.	And otek Ar
Test mode:	hopping) with GFS	K modulation. (Non-Hopping):	Keep the EU	upor pr	nsmitting mode (non-

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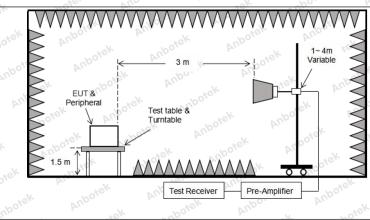
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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12.2. Test Setup



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12.3. Test Data

Temperature:	25.2 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa
202	Ye to	o. h.	No. No.	N02	ek vo.

		-	TM2 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.85	15.27	44.12	74.00	-29.88	Vertical
7206.00	29.73	18.09	47.82	74.00	-26.18	Vertical
9608.00	31.13	23.76	54.89	74.00	-19.11	Vertical
12010.00	Anbote * Ar	No.	abotek Anb	74.00	otek Anbote	Vertical
14412.00	anbo*sk	Anbo	hotek A	74.00	stek ant	Vertical
4804.00	29.09	15.27	44.36	74.00	-29.64	Horizontal
7206.00	30.52	18.09	48.61	74.00	-25.39	Horizontal
9608.00	28.96	23.76	52.72	74.00	-21.28	Horizontal
12010.00	potek * Anbo	ak ho	rek Anbote	74.00	t nbotek	Horizontal
14412.00	-botek* An	pore Ant	atek anbo	74.00 ⁰⁰⁰	elt pote	Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.23	15.27	33.50	54.00	-20.50	Vertical
7206.00	18.76	18.09	36.85	54.00	-17.15	Vertical
9608.00	20.15	23.76	43.91	54.00	-10.09	Vertical
12010.00	notet.	Anboten An	-sek	54.00 M ⁰⁰	-k ve	Vertical
14412.00	Ant * tek	nbotek	Anbor	54.00	bote. And	Vertical
4804.00	17.44	15.27	32.71	54.00	-21.29	Horizontal
7206.00	19.58	18.09	37.67	54.00	-16.33	Horizontal
9608.00	18.27	23.76	42.03	54.00	-11.97	Horizontal
12010.00	stek *	otek Anbor	ak hot	54.00	And	Horizontal
14412.00	nbo *	botek Ant	ore And	54.00 NO	ek Anbo	Horizontal
		111-	191	0× 1	V	la VIII

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		٦	ГМ2 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	28.87	15.42	44.29	74.00	-29.71 -29.71	Vertical
7323.00	29.58	18.02	47.60	74.00	-26.40	Vertical
9764.00	30.14	23.80	53.94	74.00	-20.06	Vertical
12205.00	ek * nbotek	Anbor	pr. hotek	74.00	Ano	Vertical
14646.00	* ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	rek Anbore	Ann	74.00	Anbo	Vertical
4882.00	28.79	15.42	44.21	74.00	-29.79	Horizontal
7323.00	30.51	18.02	48.53	74.00	-25.47	Horizontal
9764.00	28.66	23.80	52.46	74.00	-21.54	Horizontal
12205.00	* otek	Anboten	Ann	74.00	NUPOL PL	Horizontal
14646.00	A* atek	Anbotek	Anbor	74.00	Anbort	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.96	15.42	33.38	54.00	-20.62	Vertical
7323.00	18.86	18.02	36.88	54.00	-17.12 Ant	Vertical
9764.00	20.01	23.80	43.81	54.00	-10.19	Vertical
12205.00	k Anbore	An	Anboten	54.00	abotek	Vertical
14646.00	otek * Anbot	Aup	ek abotek	54.00	pri	Vertical
4882.00	17.35	ot ^{ek} 15.42 m ^{bo}	32.77	54.00	-21.23	Horizontal
7323.00	19.14	18.02	37.16	54.00	-16.84	Horizontal
9764.00	18.78	23.80	42.58	54.00	-11.42	Horizontal

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12205.00

14646.00

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Hotline 400–003–0500 www.anbotek.com.cn

PUD

54.00

54.00



Horizontal

Horizontal

		-	ГМ2 / СН: Н			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.14	15.58	44.72	74.00	-29.28	Vertical
7440.00	29.59	17.93	47.52	74.00	-26.48	Vertical
9920.00	30.69	23.83	54.52	74.00	-19.48	Vertical
12400.00	* wotek	Anboten	And	74.00	Anbor	Vertical
14880.00	* Ano	ek nbotel	Anbo	74.00	Anbote	Vertical
4960.00	28.86 M	15.58	14.44 vol	74.00	-29.56	Horizontal
7440.00	30.54	17.93	48.47	74.00	-25.53	Horizontal
9920.00	29.34	23.83	53.17	74.00	-20.83	Horizontal
12400.00	And *	abotek	Anbor	74.00	Inboten An	Horizontal
14880.00	Ar*DO.	hotek	Anboren	74.00	nbotek	Horizontal
Average value:						Average value:
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatior
4960.00	19.08	15.58	34.66	54.00	-19.34	Vertical
7440.00	19.87	17.93	37.80	54.00	-16.20	Vertical
9920.00	20.56	23.83	44.39	54.00	-9.61	Vertical
12400.00	k *nboter	Anbo	abotek	54.00	An	Vertical
14880.00	* * spote	k Aupor	K notek	54.00	And	Vertical
4960.00	18.79	ot ^{ex} 15.58	34.37	54.00	-19.63	Horizontal
7440.00	20.51	17.93	po ^{tek} 38.44 ph ^{bb}	54.00	-15.56	Horizontal
9920.00	18.68	23.83	42.51	54.00	-11.49	Horizontal
12400.00	*orek	Anbor	All	54.00	10- vek	Horizontal
14880.00	Alt * alt	boten	And	54.00	anbor 1	Horizontal

Remark:

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

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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

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