

 Report No.:
 182519C400124101
 FCC ID: 2BBPLTBKMS19-1
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# FCC Test Report

Applicant : TRUSTSTONE GROUP, LLC

Address : 1370 Broadway, 9th floor, New York, NY 10018, United States

Product Name : KARAOKE WIRELESS LED MIC

Report Date : Aug. 01, 2024



# Shenzhen Anbotek

### 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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# TEST REPORT

### Applicant

TRUSTSTONE GROUP, LLC

TRUSTSTONE GROUP, LLC

KARAOKE WIRELESS LED MIC

Manufacturer

Product Name

Model No.

TB-KMS19, TB-KMS19-RFL, TB-KMS19-RHF, TB-KMS19-GVF, TB-KMS19-TS7, TB-KMS19-TDY, TB-KMS19-SWP, TB-KMS19-FLC, WN-TB-KMS19-DB1

Trade Mark

Rating(s)

Test Standard(s)

Input: 5V= 1A (with DC 3.7V, 1200mAh battery inside)

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

N/Astek

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:

Jun. 28, 2024

Date of Test:

Jun. 28, 2024 to Jul. 22, 2024

Ella Lano

Prepared By:

(Ella Liang)

Bolward pan

(Edward Pan)

Approved & Authorized Signer:

### Shenzhen Anbotek Compliance Laboratory Limited

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# **Revision History**

Report Vers	sion		Description			Issued	d Date	
R00	botek Ant	otek	Original Issue.	Anbotek	Anbote	Aug. 01	1, 2024	Anbote
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or An	Anboten	Anberbote	k Anbotek	Anbor	A	Anbotek	Anboten	A Ko

Anbc

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# 1. General Information

# 1.1. Client Information

Applicant	:	TRUSTSTONE GROUP, LLC
Address	:	1370 Broadway, 9th floor, New York, NY 10018, United States
Manufacturer	:	TRUSTSTONE GROUP, LLC
Address	:	1370 Broadway, 9th floor, New York, NY 10018, United States
Factory	:	TRUSTSTONE GROUP, LLC
Address	:	1370 Broadway, 9th floor, New York, NY 10018, United States

# 1.2. Description of Device (EUT)

·	- Contraction	
Product Name	:	KARAOKE WIRELESS LED MIC
Model No.	:	TB-KMS19, TB-KMS19-RFL, TB-KMS19-RHF, TB-KMS19-GVF, TB- KMS19-TS7, TB-KMS19-TDY, TB-KMS19-SWP, TB-KMS19-FLC, WN-TB- KMS19-DB1 (Note: All samples are the same except the model number and appearance color, so we prepare "TB-KMS19" for test only.)
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbo
Test Power Supply	:	AC 120V/60Hz for Adapter, DC 3.7V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/Aotek Anbolat And abotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbore An obotek Anboret Anbert Anbertek Anborek An
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	1.7dBi <sup>vet</sup> Anderset Anderset Anderset Anderset
		ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the

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## 1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
ak abotek Anboten	And otek unbotek	Anbon An abotek	Anbore And

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### 1.4. Operation channel list

Operation Band:

Operation D	and.	r. v	10 <sup>76</sup>	DU.	49x		Mr. V.
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0 Anbote	2402	20 00	2422	40	e* 2442,00te	60	2462
tek 1 Anbr	2403	Jek 21	ote <sup>k</sup> 2423 pr <sup>b0</sup>	41	2443 And	61 Anb	2463
bote <sup>k</sup> 2	2404	22	2424	42	2444	62 f	2464
31	2405	23	2425	Anboid 43	2445	63	2465
4 dotek	2406	And 24 tek	2426	м <sup>4</sup> 4	2446	64	2466
5 botek	2407	25	2427	45	2447	65 more	2467
× 6 000	2408 2408	26	2428 M	46 Anbo	2448	tek 66 Anbr	2468
	100 <sup>101</sup> 2409 pm	27	2429	poter 47 An	2449	bote <sup>k</sup> 67	2469
8	2410	28	2430	48	2450	68	2470
And 9 tek	2411	29	2431	49	2451	69	2471
10 Notest	2412	30	2432	50	2452	70 botek	2472
11	2413	31 <sup>nbore</sup>	2433	K 51 Anbot	2453	et 71 anbo	2473
12	2414 M	tek 32 And	2434	otek 52 Ant	2454	ote <sup>k</sup> 72	2474 M
13	2415	100 <sup>10</sup> 33	2435	53	2455	73	2475
nboid 14	2416	34	2436	54	2456	74.ek	2476
15	2417	35	2437	55	2457	75 otek	2477
16	2418	36 bote	2438	56 note	2458	76	2478
17 Anbor	2419	e <sup>k</sup> 37 pn <sup>bo</sup>	2439	tek 57 unb	2459 <sup>(100)</sup>	77 AM	o <sup>te<sup>x</sup> 2479 M<sup>4</sup></sup>
<sup>10<sup>k</sup> 18 <sup>Mn1</sup></sup>	2420	oo <sup>tek</sup> 38 M	2440	58	2460	78	2480
no <sup>stel</sup> 19	2421	39	2441	59	2461	Aupor	A. nbotek
Lotek	AUpo,-	Nex.	aboter	Ann	~otek	Aupor	P

### Shenzhen Anbotek Compliance Laboratory Limited

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# 1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1nboten A	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Anbotek TM2 Anbotek	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
nboten Anb	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Anborek TM5 potek Ar	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
Anbotek TM6 Anbotek	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

### 1.6. Measurement Uncertainty

Uncertainty
3.4dB
925Hz det Anboret Anboret Anboret
0.76dB
1.24dB
1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
3.53dB
Horizontal: 3.92dB; Vertical: 4.52dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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# 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Annotek / Anboten	AnuPotek
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	PAR
Maximum Conducted Output Power	Mode1,2,3	P P
Channel Separation	Mode4,5,6	Pk
Number of Hopping Frequencies	Mode4,5,6	Anbor Potek
Dwell Time	Mode4,5,6	P P
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	Pano
Band edge emissions (Radiated)	Mode1,2,3	P An
Emissions in frequency bands (below 1GHz)	Mode1,2,3	nbore P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Anbore P.ek
Note: tek potek Anbore Anbore Anbore Anbore	Ant stek	Anbor

P: Pass

N: N/A, not applicable

### Shenzhen Anbotek Compliance Laboratory Limited

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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.
- The test report is invalid if there is any evidence and/or falsification. 2.
- The results documented in this report apply only to the tested sample, under the conditions and 3. modes of operation as described herein.
- This document may not be altered or revised in any way unless done so by Anbotek and all 4. 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 6 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
--	--	-----------	----------	-------	------------

00	· pri	Note. Ano		X	ps. V	in Oter
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
بم 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
ptek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3 of	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Arootek	Anbor
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11
he.	tode Hou	P.T.	der not		od you	er bler

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

		- 0 M	K h0.				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
1 «*	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	pote <sup>k</sup> N/A An	2023-10-16	2024-10-15	
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19	
Ant3ote	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05	
4. <sup>nb</sup>	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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		Anbotan	Ano	Anbotek	Anbo, potek
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
EMI Test Software EZ-EMC			N/A	And	Anbotek
Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6 Spectrum Analyzer Rohde & Schwarz		FSV40-N	102150	2024-05-06	2025-05-05
		TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06
	sions in frequency ba Equipment EMI Test Receiver EMI Preamplifier Double Ridged Horn Antenna EMI Test Software EZ-EMC Horn Antenna Spectrum Analyzer	EMI Test ReceiverRohde & SchwarzEMI PreamplifierSKET ElectronicDouble Ridged Horn AntennaSCHWARZBECKEMI Test Software EZ-EMCSHURPLEHorn AntennaA-INFOSpectrum AnalyzerRohde & Schwarz	sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.EMI Test ReceiverRohde & SchwarzESR26EMI PreamplifierSKET ElectronicLNPA- 0118G-45Double Ridged Horn AntennaSCHWARZBECKBBHA 9120DEMI Test Software EZ-EMCSHURPLEN/AHorn AntennaA-INFOLB-180400- KFSpectrum AnalyzerRohde & SchwarzFSV40-NAmplifierTalent MicrowaveTLLA18G40	Sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.Serial No.EMI Test ReceiverRohde & SchwarzESR26101481EMI PreamplifierSKET ElectronicLNPA- 0118G-45SKET-PA- 002Double Ridged Horn AntennaSCHWARZBECKBBHA 9120D02555EMI Test Software EZ-EMCSHURPLEN/AN/AHorn AntennaA-INFOLB-180400- KF8Spectrum AnalyzerRohde & SchwarzFSV40-N102150AmplifierTalent MicrowaveTLLA18G40 2302280223022802	sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.Serial No.Last Cal.EMI Test ReceiverRohde & SchwarzESR261014812024-01-23EMI PreamplifierSKET ElectronicLNPA- 0118G-45SKET-PA- 0022024-01-17Double Ridged Horn AntennaSCHWARZBECKBBHA 9120D025552022-10-16EMI Test Software EZ-EMCSHURPLEN/AN/A/Horn AntennaA-INFOLB-180400- KFJ21106062 

Emissions in frequency bands (below 1GHz)

	biolio in noquolloy be					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antore	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5 nb	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/A not	ak Anbo	k Anbotek

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# 2. Antenna requirement

		Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
		ensure that no antenna other than that furnished by the responsible party
	Test Requirement:	shall be used with the device. The use of a permanently attached antenna or
		of an antenna that uses a unique coupling to the intentional radiator shall be
8		considered sufficient to comply with the provisions of this section.

## 2.1. Conclusion

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 1.7dBi. It complies with the standard requirement.

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# 3. Conducted Emission at AC power line

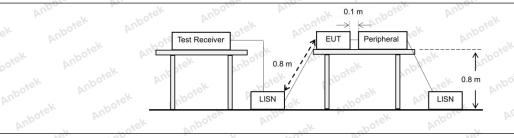
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on ar band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that ny frequency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

# 3.1. EUT Operation

### **Operating Environment:**

And	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-
tek nbore.	hopping) with GFSK modulation.
Test mode:	2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode
Test mode:	(non-hopping) with $\pi/4$ DQPSK modulation.
lek ab	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-
Anbore An	hopping) with 8DPSK modulation.

# 3.2. Test Setup



### Shenzhen Anbotek Compliance Laboratory Limited

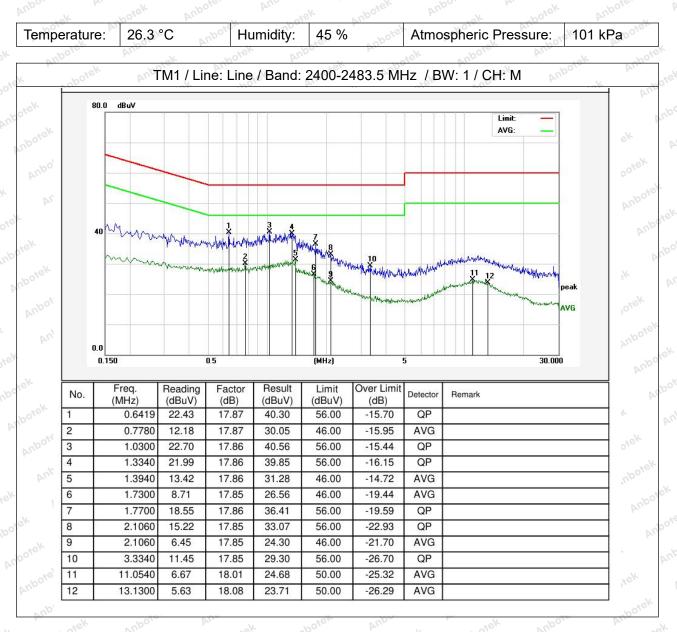
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### 3.3. Test Data

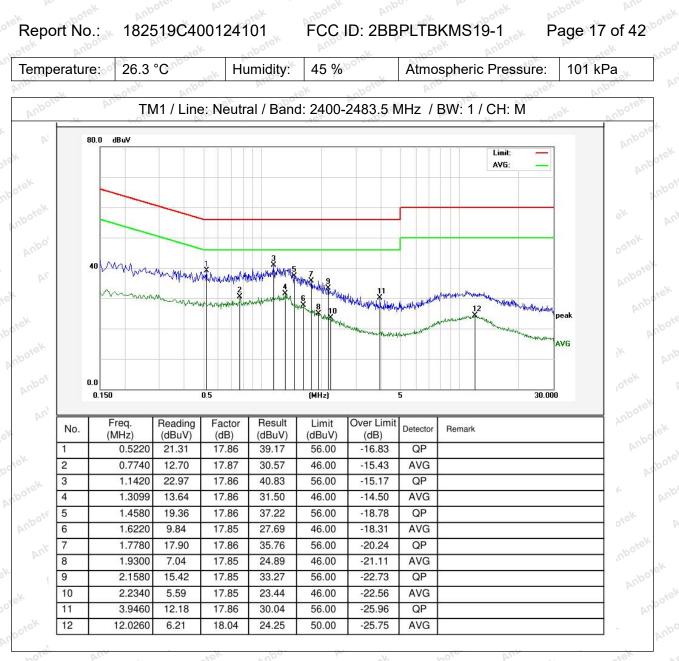


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### Note:Only record the worst data in the report.

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# 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	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 Anb nbotek Anbotek Anb	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 Anbotek	<ul><li>frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.</li><li>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.</li></ul>
tek Anbore Ant botek Anborek A Anborek Anborek	<ul> <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> <li>d) Step a) through step c) might require iteration to adjust within the</li> </ul>
Procedure:	<ul><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</li></ul>
ek Anbotek Anbotek Ar	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.
Anbotek Anbotek Anbotek Anbotek	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
Anboten Anbo	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.
Anbotek Anbotek Anbotek	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:

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

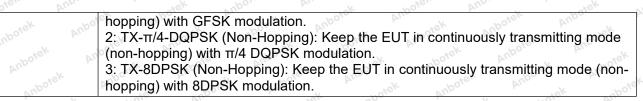
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# 4.2. Test Setup

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~	Anbotek	Anbore.	T Ka	aboitek	Anbor	р. Ро.	- otek	Anboten	Anbore.	K sofek	

### 4.3. Test Data

Tempe	rature:	26.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa	Anbo

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
otek Anbotek Ant	settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
	<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:	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.
botek Anbor P	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.
Antotek Anbotek	NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied
ek Anbotek Anbo	bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

# 5.1. EUT Operation

Operating Envi	ronment: Anbol K Anbole Anbole And tek sobolek
Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi$ /4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

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# 5.2. Test Setup

Anbotek		EUT	Spec	trum Analyzer	AU		Anbotek
k Anbo	Anborc	A'''	Anboter	And-	Anbotek	Anbotek Anbotek	Anbote.

### 5.3. Test Data

Temperature:	26.3 °C	_*eK	Humidity:	45 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.

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Anbotek Product Safety

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# 6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: http://www.andorek	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:	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.
ter Anbo botek Anbotek A 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 Envir	ronment:
Test mode:	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX- $\pi$ /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with $\pi$ /4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

# 6.2. Test Setup

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poter			EUT		Spectrum A	nalyzer			botek	
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And	obotek		r M					abotek		
npo.	p.,	L	notor	Ann	de <sup>k</sup>	10.0	00,	P	K NO	10,

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### 6.3. Test Data

Temperature:	26.3 °C	Hum	idity:	45 % 🔊	010	Atmospheric Pr	essure:	101 kF	Da tok
And	hotek I	rupo.	Þ.,	×ek	abote.	Ann	~ot	3K	Anbo.
Please Refer to	Appendix for	Details.							

Please Refer to Appendix for Details.

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# 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
Procedure:	<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> <li>c) VBW ≥ RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> <li>e) Detector function: Peak.</li> </ul>
tek Anbore Ann hootek Anborek A Anborek Anborek Anborek Anborek	<ul> <li>f) Trace: Max-hold.</li> <li>g) Allow the trace to stabilize.</li> <li>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.</li> </ul>

# 7.1. EUT Operation

Operating Env	ironment; otek Anbot An otek Anbote, And tek mbotek A
Test mode:	<ul> <li>4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.</li> <li>5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.</li> <li>6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.</li> </ul>

# 7.2. Test Setup

EUT	Spectrum Analyze			zer
hoter		τ	rek	nibor

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### 7.3. Test Data

Temperature:	26.3 °C	Anbo	Humidity:	45 % August	At	tmospheric Pres	sure:	101 kP	a
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Please Refer to	o Appendix	for Detail	S. Anb						

Please Refer to Appendix for Details.

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# Report No.: 182519C400124101

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# 8. Dwell Time

hipor Air	I nboter And k hotek Anbo' An ek nboter
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
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 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 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.
Procedure:	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 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:
	<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> <li>c) Sweep time: Set so that the start of the first transmission and end of the</li> </ul>
ek Anbotek Ar	<ul> <li>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.</li> <li>d) Use a video trigger, where possible with a trigger delay, so that the start of the</li></ul>
	the transmission is clearly observed. The trigger level might need adjustmer to reduce the chance of triggering when the system hops on an adjacent channel.
	<ul> <li>e) Detector function: Peak.</li> <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>

### 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

Operating I	Environment:
Test mode:	<ul> <li>4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.</li> <li>5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.</li> <li>6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.</li> </ul>

## 8.2. Test Setup

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Anbore	Anboten	Anb	ek botek	Anbort	

### 8.3. Test Data

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Tempera	ature:	26.3 °C	An	Humidity:	45 %	anb	Atmospheric Pre	essure:	101 kPa	nborr
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Please Refer to Appendix for Details.

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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 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
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.
	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: orek potek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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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ek spotek	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 nbotek Anb	measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.
	and the stek unbotek Anbor An at hotek Anbore An
	7.8.7.2 Band-edges
abotek Anbo.	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
And tek nbotel	the hopping sequence shall include the lowest and highest channels.
	tek Anbore, And tek anborek Anbor An horek Anbore
Anboten And	For measurements with the hopping disabled the analyzer screen shall
	clearly show compliance with the requirement within 10 MHz of the allocated band-edge.
	Anbores And Anborek Anborek Anbores A
	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.

Operating Envir	onment:
nbotek Anbote Anbotek Anbo	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode
Anbotek A	(non-hopping) with $\pi/4$ DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- hopping) with 8DPSK modulation.
Test mode:	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
notek Anbotek	<ul> <li>5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.</li> <li>6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping)</li> </ul>
AUD	with 8DPSK modulation.

# 9.2. Test Setup

eY	Anbot	EUT		Spectrum	Analyzer	
p <sup>o</sup>	All	Anb	- Vo	hotek	Anbor	

### 9.3. Test Data

	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			<u>V</u> 100.		2		202		
Temperatu	ire:	26.3 °C	Anbore	Humidity:	45 %	Anbotet	Atmospheric Pr	essure:	101 kPa	, <b>T</b>
100				-x6"	,	7	-V 10'	1×1		

Please Refer to Appendix for Details.

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Anbc



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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			
Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
k hotek	0.009-0.490	2400/F(kHz)	300 0000			
nboten And	0.490-1.705	24000/F(kHz)	30 otek			
and anbore.	1.705-30.0	30° http://www.atek	30			
Anbo k hotek	30-88	100 **	3tek Anbore			
aboten Anbe	88-216	150 **	3			
An otek Anbore	216-960	200 **	3 bote And			
Anbe	Above 960	500	3 notek anbr			
Test Limit: of an and an and an	<ul> <li>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</li> </ul>					
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anboic			
Procedure:	ANSI C63.10-2020 section	6.10.5.2	por An potek			

# 10.1. EUT Operation

Operating Envir	ronment:
Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi$ /4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

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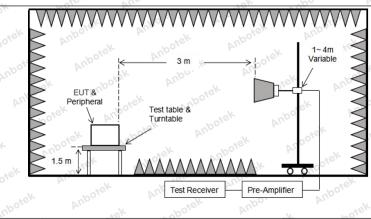
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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# 10.2. Test Setup



### Shenzhen Anbotek Compliance Laboratory Limited

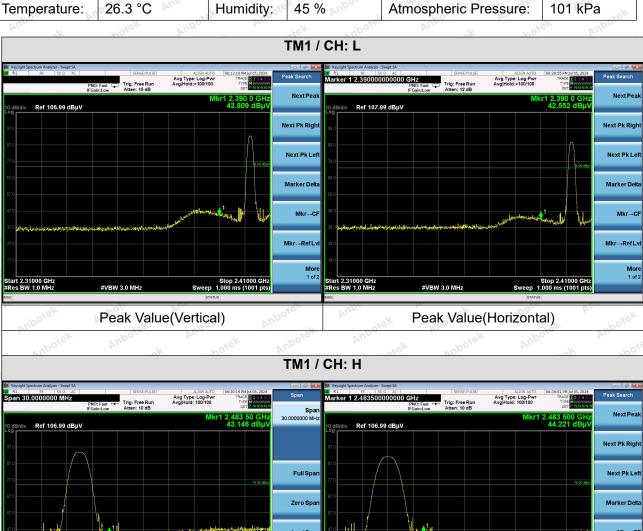
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com

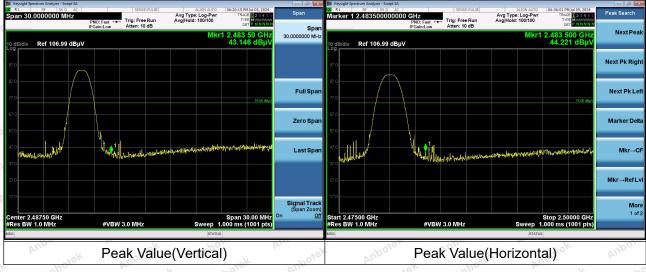




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## 10.3. Test Data





### 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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# Report No.: 182519C400124101 FCC ID: 2BBPLTBKMS19-1

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

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also comp cified in § 15.209(a)(see § 15.2	ly with the			
k Anbotek Anbot otek Anbotek An	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
nbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30			
Anbotek Anbote.	1.705-30.0 30-88	30 100 **	30 3			
Anbote: Ant	88-216 216-960	150 ** 200 **	3			
Test Limit: Stek	Above 9605003Test Limit:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9– 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.					
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M					
Procedure:	ANSI C63.10-2020 section	6.6.4 ph	pore Am			

# 11.1. EUT Operation

Operating Envir	ronment:
Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi$ /4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

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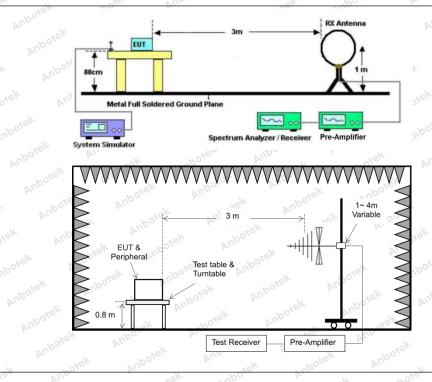
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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# 11.2. Test Setup



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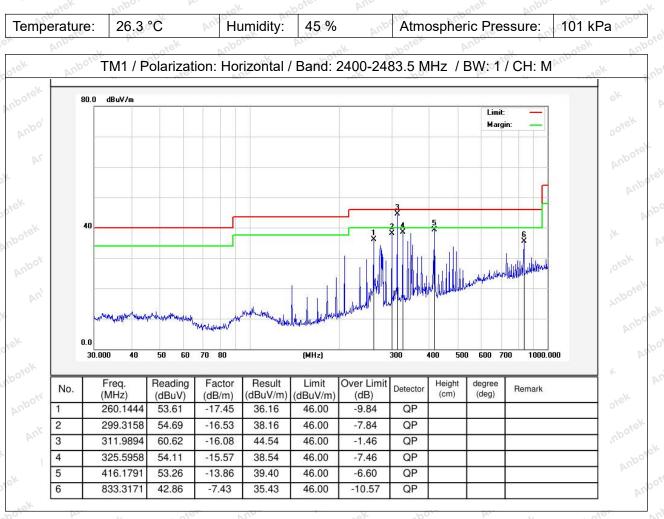




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### 11.3. Test Data

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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Report No.: 182519C400124101 FCC ID: 2BBPLTBKMS19-1 Page 36 of 42 26.3 °C 45 % Temperature: Humidity: Atmospheric Pressure: 101 kPa TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M 80.0 dBuV/m Limit Margin 40 6 X 0.0 30.000 40 60 70 80 (MHz) 400 500 600 700 1000.000 50 300 Result Over Limit Freq. Reading Factor Limit Height degree Detector Remark No. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) (cm)(deg) 43.50 QP 207.8501 48.67 -19.66 29.01 -14.49 1 2 299.3158 45.77 46.00 -16.76 QP -16.53 29.24 3 312.1794 48.61 -16.07 32.54 46.00 -13.46 QP 4 346.8092 43.35 -14.78 28.57 46.00 -17.43 QP 40.70 -13.86 46.00 -19.16 QP 5 416.1791 26.84 6 833.3171 35.46 -7.43 28.03 46.00 -17.97 QP

Note:Only record the worst data in the report.

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# Report No.: 182519C400124101 FCC ID: 2BBPLTBKMS19-1

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

Test Requirement:		ons which fall in the restricted background by the radiated emission $\overline{b}(c)$ .			
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)		
abotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 100 100 100 100 100 100 100 100 100		
Anbotek Anboter	1.705-30.0 30-88	30 100 **	30		
Anbotek Anbote	88-216	150 **	3		
Anbotek Anbol	216-960 Above 960	200 ** 500	3 stek onb		
Test Limit: Ster Anborek	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9– 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.				
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M				
Procedure:	ANSI C63.10-2020 section	6.6.4 M	pore Ant Anbotek		

# 12.1. EUT Operation

Operating Envir	ronment:
Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi$ /4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

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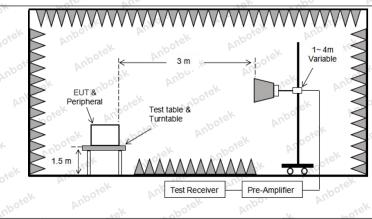
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# 12.2. Test Setup



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### 12.3. Test Data

Temperature:	26.3 °C	Humidity:	45 % Anbol	Atmospheric Pressure:	101 kPa
2014		.  ×.		10V	

		-	TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.98	15.27	44.25	74.00	-29.75	Vertical
7206.00	29.83	18.09	47.92	74.00	-26.08	Vertical
9608.00	31.27	23.76	55.03	74.00	-18.97	Vertical
12010.00	Anbote * Ar	io-	botek Anb	74.00	otek Anbot	Vertical
14412.00	nbo*ek	Anbo	hotek A	74.00	atek ant	Vertical
4804.00	29.20	15.27	44.47	74.00	-29.53	Horizontal
7206.00	30.67	18.09	48.76	74.00	-25.24	Horizontal
9608.00	29.01	23.76	52.77	74.00	-21.23	Horizontal
12010.00	potek * Anbo	k no	rek Anbote.	74.00	hotek	Horizontal
14412.00	-botek * An	port Ant	stek anbc	74.00	ak pote	Horizontal

### Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.36	15.27	33.63	54.00	-20.37	Vertical
7206.00	18.86	18.09	36.95	54.00	-17.05	Vertical
9608.00	20.29	23.76	44.05	54.00	-9.95	Vertical
12010.00	woter.	Anboten An		54.00 M <sup>00</sup>	-k - ve	Vertical
14412.00	And *	nbotek	Anbor	54.00	bote. And	Vertical
4804.00	17.55	15.27	32.82	54.00	-21.18	Horizontal
7206.00	19.73	18.09	37.82	54.00	-16.18	Horizontal
9608.00	18.32	23.76	42.08	54.00	-11.92	Horizontal
12010.00	tek *	otek Anbor	ak hot	54.00	And	Horizontal
14412.00	k house	botek Ant	ofo And	54.00	ek Anbo	Horizontal
		111-	19.	0× 1	V	la VIII

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		٦	ГM1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	29.00	15.42	44.42	74.00	-29.58	Vertical
7323.00	29.68	18.02	47.70	74.00	-26.30	Vertical
9764.00	30.28	23.80	54.08	74.00	-19.92	Vertical
12205.00	ek * nbotek	Anbor	hotek	74.00	Annatek	Vertical
14646.00	*	rek Anbore	And	74.00	Anbo	Vertical
4882.00	28.90	15.42	44.32	74.00	-29.68	Horizontal
7323.00	30.66	18.02	48.68	74.00	-25.32 mo <sup>rr</sup>	Horizontal
9764.00	28.71	23.80	52.51	74.00 PM	-21.49	Horizontal
12205.00	* sotek	Anbore	And	74.00	upo. A.	Horizontal
14646.00	Alt atek	nbotek	Anbor	74.00	Anboren	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	18.09	15.42	33.51	54.00	-20.49	Vertical
7323.00	18.96	18.02	36.98	54.00	-17.02 And	Vertical
9764.00	20.15	23.80	43.95	54.00	-10.05	Vertical
12205.00	k Anbore	Ann	Anboten	54.00	obotek	Vertical
14646.00	otek * Anbot	And	ek abotek	54.00	pr	Vertical
4882.00	17.46	o <sup>16</sup> 15.42	32.88	54.00	-21.12	Horizontal
7323.00	19.29	18.02	37.31	54.00	-16.69	Horizontal
9764.00	18.83	23.80	42.63	54.00	60te - 11.37 pr. 1	Horizontal
12205.00	Anboten	Anbo	abotek	54.00	notek A	Horizontal
14646.00	* botek	Anbote	Andek	54.00	And	Horizontal

Anb

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			TM1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.27	15.58	44.85	74.00	-29.15	Vertical
7440.00	29.69	17.93	47.62	74.00	-26.38	Vertical
9920.00	30.83	23.83	54.66	74.00	-19.34	Vertical
12400.00	* wotek	Anboter	Anbe	74.00	Anbor	Vertical
14880.00	* Aup	ek spotel	Aupor	74.00	Anboten	Vertical
4960.00	28.97 M	15.58	44.55	74.00	-29.45	Horizontal
7440.00	30.69	17.93	48.62	74.00	-25.38	Horizontal
9920.00	29.39	23.83	53.22	74.00	-20.78	Horizontal
12400.00	And *	abotek	Anbor	74.00	Inboten Ant	Horizontal
14880.00	Art O	p	Anboten	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	19.21	15.58	34.79	54.00	-19.21	Vertical
7440.00	19.97	17.93	37.90	54.00	200 <sup>40-</sup> 16.10 pm	Vertical
9920.00	20.70	23.83	44.53	54.00	-9.47	Vertical <sup>M</sup>
12400.00	k * nbotek	Anbor	protek	54.00	Ann	Vertical
14880.00	* 50%	anboro.	Ann	54.00	Anbo	Vertical
	-10 A		201 20			0.07

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## 9920.00

4960.00

7440.00

12400.00

14880.00

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.

34.48

38.59

42.56

54.00

54.00

54.00

54.00

54.00

-19.52

-15.41

-11.44

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

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

18.90

20.66

18.73

\*

\* .0

15.58

17.93

23.83

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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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