

Anbotek

Anbolek

Report No.:1819C40015612501 FCC ID: 2AHN6-AUBS104

# FCC Test Report

Applicant : Bytech NY Inc.

Address 2585 West 13th Street, Brooklyn NY 11223,

**United States** 

Product Name : Bluetooth Speaker

Report Date : Sept. 10, 2024

Shenzhen Anbotek Compliance Laboratory Limited

Anbolek









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#### Shenzhen Anbotek Compliance Laboratory Limited







## **TEST REPORT**

Applicant : Bytech NY Inc.

Manufacturer : Shenzhen Ground Enterprises Co., Ltd

Product Name : Bluetooth Speaker

Model No. : SI-AU-BS-104, SP-099

Trade Mark : Sharper Image

Rating(s) : Input: 5V-- 1A (with DC 3.7V, 2000mAh battery inside)

47 CFR Part 15.247

Test Standard(s) : ANSI C63.10-2020

KDB 558074 D01 15.247 Meas Guidance v05r02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:	Aug. 13, 2024	
Anborek Anbo	William Augores Aug	
Date of Test:	Aug. 13, 2024 to Aug. 26, 2024	Po.
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Prepared By:	Tex supoles Aug	
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Aupotek Aupotek Aupotek Hipotek	Idward pan	
Approved & Authorized Signer:	Aupo, b	184
	(Edward Pan)	







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Report No.:1819C40015612501 Anbotek FCC ID: 2AHN6-AUBS104

### **Revision History**

¢	Anbotek	Auporek	Anbo	Revision	History	P.L.	Anbotek	Vuporer Potek
otek	Repo	rt Version		Descrip	tion		Issued	Date
Anboksk	Aupole	R00	ipotek	Original I	ssue.	Anbotek	Sept. 10,	2024
AND	otek An	o tok	Anborek	Aupote Olek	Aupolek	Anbole	'ek V	abotek
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### 1. General Information

### 1.1. Client Information

D'.	16 10 V
Applicant	: Bytech NY Inc. 18th Amboret Andrew Andrew Andrew
Address	: 2585 West 13th Street,Brooklyn NY 11223, United States
Manufacturer	: Shenzhen Ground Enterprises Co., Ltd
Address	6th Floor, Building F, MingYueHuaDu, Gonghe industrial Rd., XiXiang, Bao'an, Shenzhen China 518102
Factory	: Shenzhen Ground Enterprises Co., Ltd
Address	6th Floor, Building F, MingYueHuaDu, Gonghe industrial Rd., XiXiang, Bao'an, Shenzhen China 518102

### 1.2. Description of Device (EUT)

Jek Vupo		And
Product Name	:	Bluetooth Speaker
Model No.	:	SI-AU-BS-104, SP-099 (Note: All samples are the same except the model number, so we prepare "SI-AU-BS-104" for test only.)
Trade Mark	:	Sharper Image
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	:	eN/A Anbote Amotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotte Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-0.68dBi
Domonic		John Marie Colon American Colon Colo

#### Remark:

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









### 1.3. Auxiliary Equipment Used During Test

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

### 1.4. Operation channel list

Operation Band:

Operation E	Band:	" upo"	by.	200	Vie. Vur		U/GK
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
O Vupo.	15k 2402 Ant	otek 20 A	2422	, 40	2442	60 tek	2462
oter 1 Ar	2403	Anbol21	2423	41,1ek	2443	61	2463 nbole
Anbolek 2	2404	22	2424	42	2444	62	ote* 2464 An
Aup 3, ex	2405	23,botek	2425	43	otek 2445 And	63	2465
Albolek	2406	× 24	2426 May 2426	44	2446	nbole 64	2466
5 Anbo	2407	25	2427 N	45	2447	65	2467
otek 6	100 10 2408 AT	26	2428	46	2448	66	2468
Votor	2409	Anb 27	2429	47	2449	67 Anbo	2469
Anb 8 tek	2410	28	2430	48 Anbott	2450	ote* 68 N	10010 2470 AT
Anba otek	2411,010	29 nb 0 1	2431	rek 49 Ari	2451	69	2471
10	2412 nbo	ek 30 kup	2432	300 × 50	2452	70°K	2472
11 Anb	2413	notel 31	2433	51	2453	And 71 1000	2473
12 po <sup>tek</sup>	2414	32	2434	52 otek	2454	72	10 2474 Anbo
Anbolis	2415	33	2435	53	× 2455, nbot	73 And	2475
14	2416	34 nbot	2436	54	2456 A	po <sup>1/2</sup> 74	2476
15 nbole	2417	35	ootek 2437 Ant	55	2457	Anb 075	2477
ek 16 Ant	otek 2418 Andi	36	2438	Anbors 56	2458	76	2478
17 xek 17	2419	37 <sub>k</sub>	2439	⊾ 57°	2459	77, <sub>nbote</sub>	2479
18	2420	ьп <mark>38</mark>	2440	58 0010	2460	× 78 Ant	otek 2480 And
And 19	2421	39	2441	× 59 Anbe	2461	motek -	Aupolek-







### 1.5. Description of Test Modes

Pretest	Modes	Descriptions
nek AnboTN	1 Anboro	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
NTA ATIO	2 And	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
Anbotek TIV	3 Alek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
Aupoles IN	4 Ando	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Aupore IN	5 Anbotek	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
TIV	6k Aupor	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

### 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Anbote Anbote
Occupied Bandwidth	925Hz Andrew Andrew Andrew
Conducted Output Power	0.76dBek Anbore
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: 4.46dB; Vertical: 5.04dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

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









#### 1.7. Test Summary

10 100 100	VII.	18%
Test Items	Test Modes	Status
Antenna requirement	Notek / Anbotek	Vupb.
Conducted Emission at AC power line	Mode1,2,3	Pupo
Occupied Bandwidth	Mode1,2,3	P And
Maximum Conducted Output Power	Mode1,2,3	ookek P
Channel Separation	Mode4,5,6	Auporch
Number of Hopping Frequencies	Mode4,5,6	AUB LOK
Dwell Time Notek Amorek Amorek	Mode4,5,6	Panbole
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	ek P Ant
Band edge emissions (Radiated)	Mode1,2,3	Notek P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	, Pr
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Polek
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek	Anbok

### 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.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.







#### 1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 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

Cond	ucted Emission at A	C power line	Aupoler	Aug. Olek	Aupolek	Aupo,
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
holek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
,200h	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Ann	Aupliek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Occupied Bandwidth

Maximum Conducted Output Power

**Channel Separation** 

**Number of Hopping Frequencies** 

**Dwell Time** 

Anbotek

Emissions in non-restricted frequency bands

(e)	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
77	Constant 1 Temperature Humidity Chamber		ZHONGJIAN	ZJ- KHWS80B	N/A Ando	2023-10-16	2024-10-15
	2 <sub>Anb</sub>	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
,	3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
2/5	4	MXA Spectrum Analysis	, botok KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
70	5	Oscilloscope	Tektronix noo	MDO3012	C020298	2023-10-12	2024-10-11
	16°016	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



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	sions in frequency ba edge emissions (Ra	ands (above 1GHz)	Anboren A	"un Polek	Anborek	Aupo Stek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
e×1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
nb 2ek	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
300	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4 🕟	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Vupole,	Aug Yek
5	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
<sup>nbolo</sup> 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

VUPO	K holek	Anbore An	rek	Aupolok	Aup.	abolek
Emiss	sions in frequency b	ands (below 1GHz)	Vupo Fek	Vupojek	Anbore	A. Spotek
ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
otet	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2,104	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3 nb	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A/pore	Aupor	ek Anborek
ootek	k Vupo-	Anbotek Anbotes	iek Vupo	cek Aup	Olek Vup	ibolek Anbo

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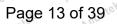
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Report No.:1819C40015612501 FCC ID: 2AHN6-AUBS104

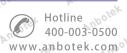
### 2. Antenna requirement

Test 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 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 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 -0.68dBi. It complies with the standard requirement.







### 3. Conducted Emission at AC power line

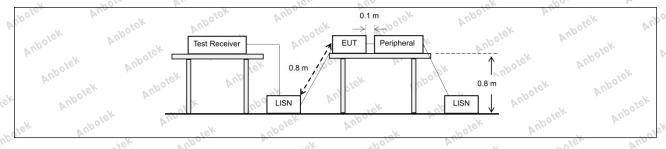
Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c) section, for an intentional radiator that is designed to be connected to public utility (AC) power line, the radio frequency voltage that is conductable onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following tal measured using a 50 µH/50 ohms line impedance stabilization network (LISN).						
abotek Anbot	Frequency of emission (MHz)	Conducted limit (dBµV)	Aupo				
A	olek Vun	Quasi-peak	Average				
ekabole Ans	0.15-0.5	66 to 56*	56 to 46*				
Test Limit:	0.5-5	56 And	46				
Polek Vupos	5-30	60 abores Ar	50				
liek Wupolek	*Decreases with the logarithm of the frequency.						
Test Method:	ANSI C63.10-2020 section 6.2	Auporer, Yun	Vupolek b				
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-				

### 3.1. EUT Operation

Operating Envi	ronment:	bolek	Aupolo	bu. Polek	Vupo ier	Ans
Test mode:	1: TX-GFSK (Non- hopping) with GFS 2: TX-π/4-DQPSK (non-hopping) with 3: TX-8DPSK (Nor hopping) with 8DP	K modulation. (Non-Hopping) π/4 DQPSK m n-Hopping): Kee	: Keep the El lodulation. ep the EUT in	JT in continuous	ly transmittin	g mode

### 3.2. Test Setup

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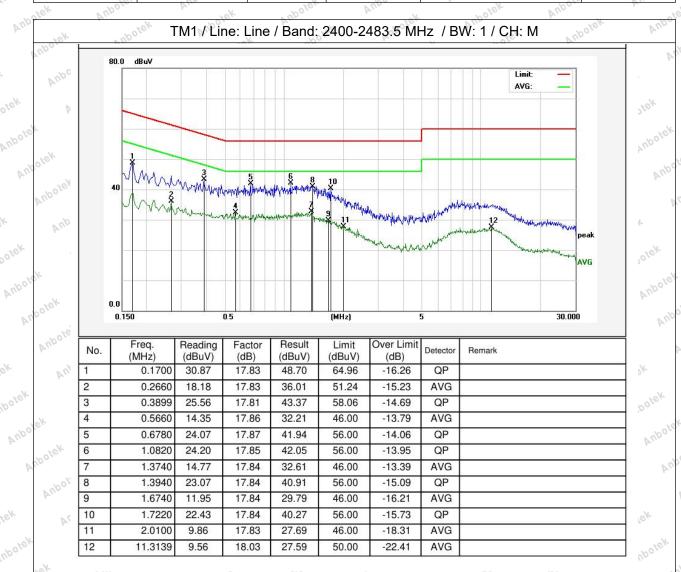






#### 3.3. Test Data

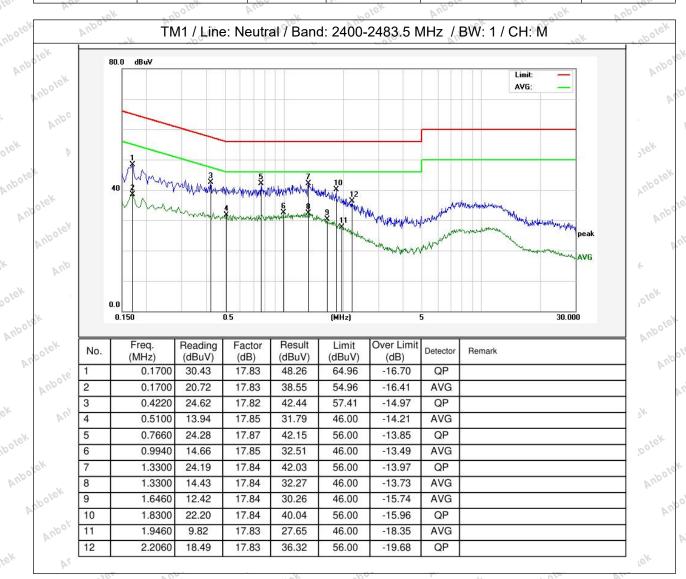
Temperature: 24.8 °C Humidity: 55 % Atmospheric Pressure: 101 kPa







Temperature: 24.8 °C Humidity: 55 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.





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### 4. Occupied Bandwidth

Ant	tok Vulgo, to take Thouse My, token
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:  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
Aupotek Vipotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:  a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between
potek Vupotek Vu	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.
Vupotek Vupotek	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.
Procedure:	d) Step a) through step c) might require iteration to adjust within the specified range.
Vporek Vuporek	e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used. f) Use the 99% power bandwidth function of the instrument (if available) and report the management bandwidth.
Vek Vuporek Vupo	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
upotek Vupotek	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.
Aupotek Aupote	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).
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### 4.1. EUT Operation

Operating Environment:

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

hopping) with GFSK modulation.

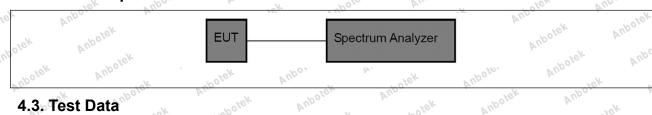
Test mode:

2: TX-π/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 (nonhopping) with 8DPSK modulation.

#### 4.2. Test Setup



#### 4.3. Test Data

	Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





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### 5. Maximum Conducted Output Power

VIII	rek "Up, "K "Por W.
Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Anbotek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
potek Aupotek Aug	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:
Aupotek Aupote	<ul> <li>a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.</li> <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> </ul>
Procedure: hotek	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
Wupotek Wupote	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.
opotek Vupotek	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 analyzer.

### 5.1. EUT Operation

Y-	Operating Envir	onment:	sporek Aupo,	rotek.	Vupole.	VIII
000	Test mode: Anbore	hopping) with GFSK 2: TX-π/4-DQPSK (Non-hopping) with π	Non-Hopping): Keep th r/4 DQPSK modulatior	ne EUT in continuo	ously transm	itting mode
	Aupotek A	3: TX-8DPSK (Non-line) hopping) with 8DPSI	Hopping): Keep the EU K modulation.	JT in continuously	transmitting	mode (non-







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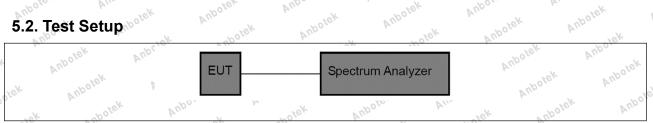
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# 5.2. Test Setup



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### 5.3. Test Data

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Temperature:	25.5 °C	Humio	dity: 47 %	Atmospheric	c Pressure:	101 kPa	
Anbo	leio.	Anbore	b.	"Upole"	AUG	hotek	_
Please Refer to	o Appendix	for Details.	tek Vupor	W.	"pope"	Vun	V

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Shenzhen Anbotek Compliance Laboratory Limited





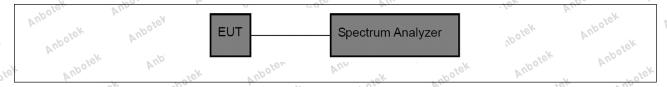
### 6. Channel Separation

D.	16.
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek  Anbotek  Anbotek	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.
Procedure:	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.
Aupotek Aupotek Aupoten	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

P	Operating Envir	onment:	Anbole	Ali.	Aupoter	Pup.	Spokek	DU
3K	Test mode:	4: TX-GF with GFS 5: TX-π/4 (hopping 6: TX-8D	SK modulation 4-DQPSK (Ho ) with π/4 DQ PSK (Hopping	,. pping): Keep th PSK modulatio g): Keep the El	ne EUT in cor n.	usly transmitting ntinuously transm	nitting mode	ek ek
90	Vie. VIII.	with 8DP	SK modulatio	n.º	rek	Vupor W.	You	2001

### 6.2. Test Setup



#### 6.3. Test Data

	Temperature:	25.5 °C	, hotel Hi	umidity: 47 %	Alla	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







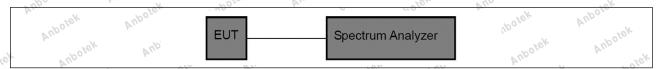
## 7. Number of Hopping Frequencies

D.,	16 VID VID
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:  Anborek  Anborek  Anborek	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
Wipotek Wipotek  Wipotek Wipotek  Wipotek Wipotek	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
Procedure:	30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
ek Aupotek Aupo	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 E	Environment:	Aupolek	Aup	abolek	Aupor	Polek.
Test mode:	with GFSK 5: TX-π/4-D (hopping) w	modulation,. QPSK (Hopp ith π/4 DQPS	oing): Keep the SK modulation.	EUT in contin	uously transm	mode (hopping) itting mode mode (hopping)
Ye.Y	with 8DPSk	modulation.	Polek V.	upo.	rek	Anbore Air

### 7.2. Test Setup



### 7.3. Test Data

	C 55 7 .	- 67.74			10.17		~~~	
Temperature:	25.5 °C	H	umidity:	47 %	VUD	Atmospheric Pressure:	101 kPa	h.
, , , , , , , , , , , , , , , , , , ,		~00	and the			18/11119		

Please Refer to Appendix for Details.







8. Dwell Time	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:  Anborek  Anborek  Anborek	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress 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
ootek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.  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.
Anbotek Anbotek Anbotek Anbotek 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 with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
Aur Vipotek	Anbo ok Anborek Anbore An Anborek
Anbo	Use the following spectrum analyzer settings to determine the dwell time per hop:
upotek Vupotek Vupotek	<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 last transmission for the hop are clearly captured. Setting the sweep time to</li> </ul>
Otek Anbotek Anbotek	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 channel.
Aupolek Aupolek	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 the end of the last transmission. The dwell time per hop is the time between







these two markers.

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

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

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

### 8.1. EUT Operation

### Operating Environment:

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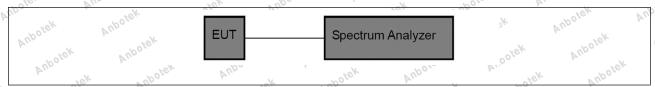
4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..

Test mode:

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

6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

#### 8.2. Test Setup



#### 8.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmosph	neric Pressure:	101 kPa	"pol
10.0	10 Dir.	J 1/4	34	Q <sub>V</sub>	1. //.	10. L	100

Please Refer to Appendix for Details.









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

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	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
Aupotek Vipotek Vipotek	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.
Dotek Anbotek	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.
ek Anbotek Anbotek Anbote	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.
otek Aupotek	The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure:	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
upotek Vupotek	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
otek Anbotek Anbotek  Anbotek Anbotek	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)
Aupotek Aupotek	below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth







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

### 7.8.7.2 Band-edges

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

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

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

#### 9.1. EUT Operation

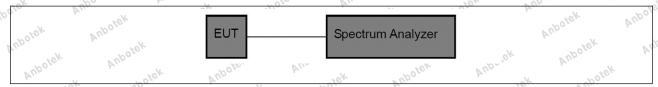
#### Operating Environment:

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (nonhopping) with GFSK modulation.
- 2: TX-π/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 (nonhopping) with 8DPSK modulation.

Test mode:

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

### 9.2. Test Setup



#### 9.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







### 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	oly with the
upotek Vupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Aupor A. Moiel	0.009-0.490	2400/F(kHz)	300 Nove
upolek Aup	0.490-1.705	24000/F(kHz)	30 Ans
b. rek vup	1.705-30.0	30° Aupo	30
Aupo. W.	30-88	100 ** Anb	3
rek apolek	88-216	150 **	3 tek Anbo
orek	216-960 Above 960	200 ** 500	3 3 500 Tel
Test Limit:	100	ragraph (g), fundamental emissi	17/1
Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-part of kHz, 110–490 kHz and a	z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241.  It is, the tighter limit applies at the bin the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	ted under other band edges. measurements uency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		k Aupore,
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Dole. Vien
10.1. EUT Operatio	n <sup>Anbore</sup> K hotek	Aupoles Aug	Aupolek Aul

### 10.1. EUT Operation

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	Operating Envir	onment:	"olek	Aupoles	Vun.	upotek	Aupo.	hr.
Cotek	Aupolek	hopping) with	GFSK modu	ılation.	k spoke	nuously transm	VV	ek
nbotek	Test mode:	2: TX-π/4-DQ (non-hopping)				ocontinuously ti	ransmitting mo	ode,
V. Vup.	lek Vupore	3: TX-8DPSK hopping) with			ne EUT in con	tinuously transr	nitting mode (	non-





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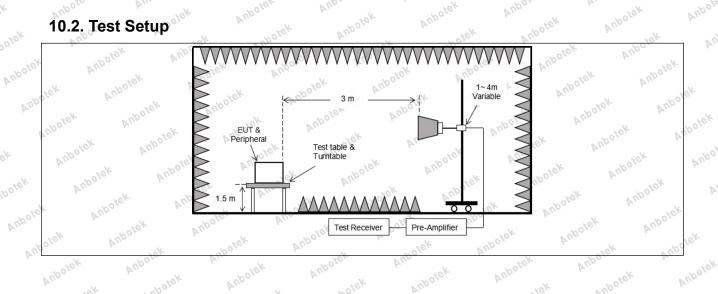
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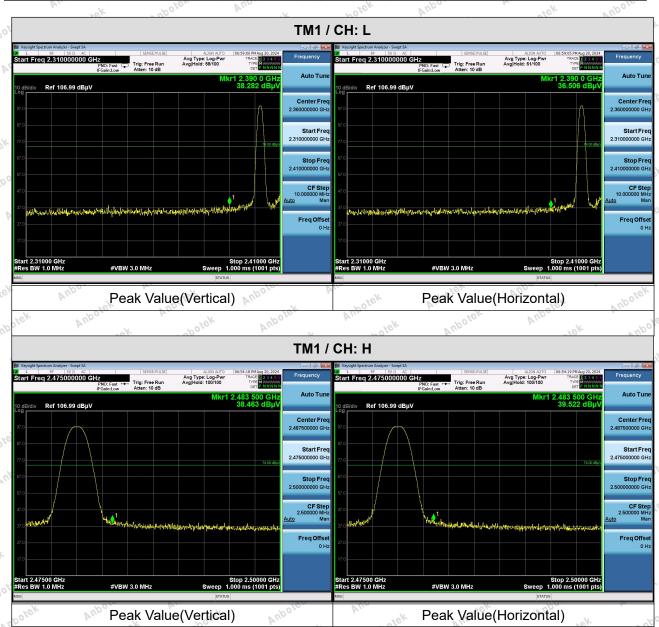
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### 10.3. Test Data

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



#### Remark:

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- When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.
- 2. During the test, pre-scan all modes, the report only record the worse case mode.









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

VI.	16 VUD.	PO, W.	0/6.
Test Requirement:		, In addition, radiated emissions d in § 15.205(a), must also comp	
rek anboren		ecified in § 15.209(a)(see § 15.2	
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Aupoles Aug	0.009-0.490	2400/F(kHz)	300
Thotek Aupor	0.490-1.705	24000/F(kHz)	30 And
All Selver	1.705-30.0	30 Anbo	30 nbole
Y Vipore VI	30-88	100 ** Note:	3
K Polek	88-216	150 **	3tek Anbe
Oten And	216-960	200 **	3 (60)
rek vupole.	Above 960	500 100	3 upor
Test Limit:  Anborek  Anborek  Anborek  Anborek  Anborek	intentional radiators operatifrequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above	e, the tighter limit applies at the b	e located in the 470-806 MHz. ed under other pand edges.
Potek Vupotek Vupotek	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emised ad on measurements employing	uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M	V ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	k Aupoles
Procedure:	ANSI C63.10-2020 section	6.6.4 And	Dole. VIII
- V.	70. b.	V. V	100

### 11.1. EUT Operation

0. 1		. ~	200	A	. 010	D1.	187	· U/
ly.	Operating Envir	onment:	VIII.	Auporek	Aug	nbotek	Aupor	<i>b</i> .
	Anbotek	hopping)	with GFSK m	odulation.	ne EUT in conti	Aupo	, ove	3K
1	Test mode:	(non-hop	ping) with π/4	DQPSK mod		ole, Vi	, ek n	Poler
00	Tiek Vupore.		PSK (Non-Howith 8DPSK		the EUT in con	tinuously transi	mitting mode (r	non-





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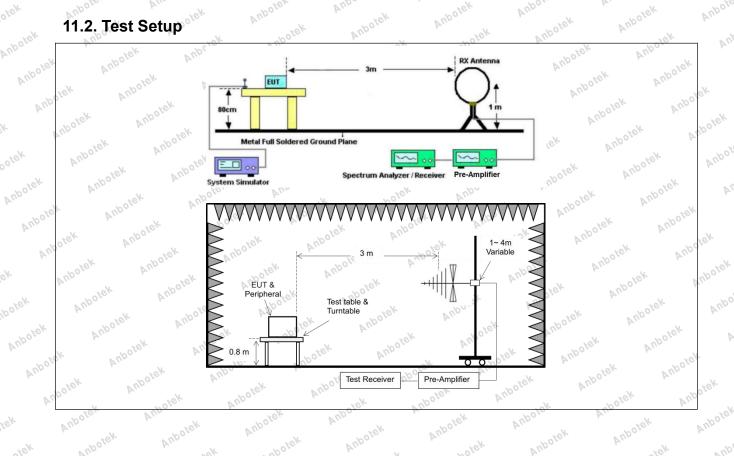
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# 11.2. Test Setup



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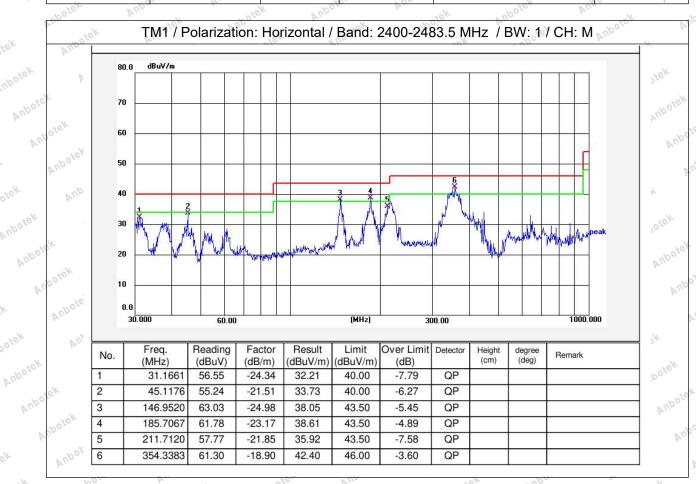




### 11.3. Test Data

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

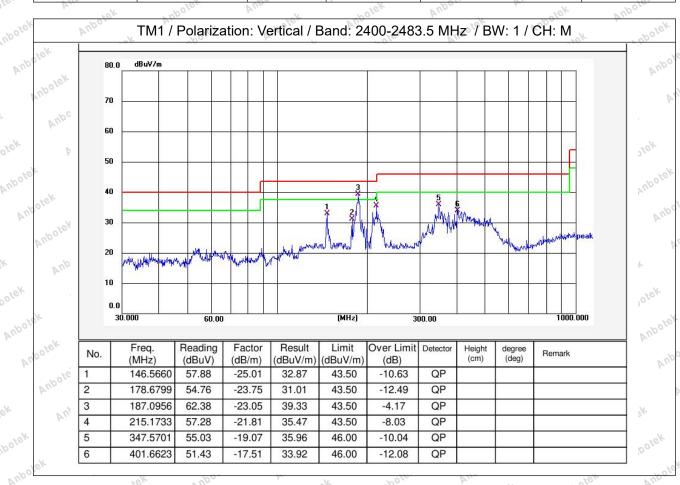
Temperature: 24.4 °C Humidity: 48 % Atmospheric Pressure: 101 kPa







Temperature: 24.4 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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

Test Requirement:		ons which fall in the restricted back comply with the radiated emission 5(c)).`	
Tupofek Vupofek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Aupor K World	0.009-0.490	2400/F(kHz)	300 Jolek
Vuporer Vur	0.490-1.705	24000/F(kHz)	30
r otek Ant	1.705-30.0	30	30
Anbo	30-88 88-216	100 ** 150 **	3
stek Vupoter	216-960	200 **	3
o kotek	Above 960	500	3 shorek An
Test Limit:	184 140	ragraph (g), fundamental emiss	W.
rotek Anbore		ing under this section shall not b	
And		z, 76-88 MHz, 174-216 MHz or	
Vuporer, Vur		hese frequency bands is permit	ted under other
" otek An	sections of this part, e.g., §		otek Aupo.
And		e, the tighter limit applies at the b	
rek Vuporer	. 0	in the above table are based on	" LLb.
po kek		peak detector except for the freq above 1000 MHz. Radiated emis	
upotek Anbe		ed on measurements employing	
W. Volek Vuporer	detector.	a on measurements employing	Anb
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 N	V 140*	k Vupolek
Procedure: N	ANSI C63.10-2020 section	6.6.4 Met Mi	Poles Vup
12.1. EUT Operatio	NAnbore, And	Aupoles Aupo	Anbolek Anbe

### 12.1. EUT Operation

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P.	1100	'On 40.	· · · · · · · · · · · · · · · · · · ·	1.0	1-01	Dr.	. 48,	V U.S.
	Operating Envir	onment:	"Olek	'upoter	And	* upolek	Aupo.	h.,
Cotek	Aupolek	hopping) with	GFSK modula	ation.	shote)	nuously transmi	, ov	Ys
nbotek	Test mode:	2: TX-π/4-DQl (non-hopping)				continuously tr	ansmitting mo	ide,
V. Vup.	lek Vupore	3: TX-8DPSK hopping) with			EUT in cont	inuously transn	nitting mode (ı	non-



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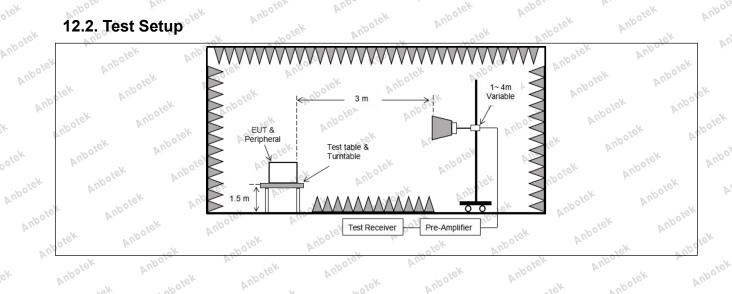
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# 12.3. Test Data

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The second secon	010	7.,	184	1 UN	. 100
Tomporoturo	22.8 °C	Llumiditu	49 %	Atmoonhoria Drocoura	101 kPa
lemperature:	22.0 C	Humidity:	49 70	Atmospheric Pressure:	IUIKPa
- 000		1-0/-	Dr.	16,	_\/_ !

_	N. rek	apolen	AUG.	hotek	Anbo	rek	Aupolo			
100	TM1 / CH: L									
	Peak value:									
,	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization			
	4804.00	30.44	15.27	45.71	74.00	-28.29	Vertical			
	7206.00	31.04	18.09	49.13	74.00	-24.87	Vertical			
	9608.00	32.99	23.76	56.75	74.00	-17.25	Vertical			
100	12010.00	* "pole"	Aupo	, vo.	74.00	P.II.	Vertical			
	14412.00	*	otek Anbo	Ver. Vue	74.00	olek Vupe	Vertical			
	4804.00	30.54 And	15.27	45.81	74.00	-28.19	Horizontal			
	7206.00	32.43	18.09	50.52	74.00	-23.48	Horizontal			
	9608.00	29.64	23.76	53.40	74.00	-20.60	Horizontal			
	12010.00	Ano*	Pupolek	Aupor	74.00	Aupoter	Horizontal			
	14412.00	K#Upose	V. Orek	Aupolek	74.00	k upotek	Horizontal			
	Average value:									
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization			
	4804.00	19.82	15.27	35.09	54.00	-18.91	Vertical			
	7206.00	20.07	18.09	38.16	54.00	-15.84	Vertical			
	9608.00	22.01	23.76	45.77 over	54.00	-8.23	Vertical			
	12010.00	* 1001	sk Aupor	p. ·	54.00 mo	S. Aug	Vertical			
	14412.00	* *	otek Ank	Olek Vup.	54.00	potek Aug	Vertical			
	4804.00	18.89	15.27	34.16	54.00	-19.84	Horizontal			
	7206.00	21.49	18.09	39.58	54.00	-14.42	Horizontal			
	9608.00	18.95	23.76	42.71	54.00	-11.29	Horizontal			
	12010.00	Vut.	Aupolek .	Aupore.	54.00	Anbores	Horizontal			
1	14412.00	*Anbolo	17.	k "Upole,	54.00	2000	Horizontal			

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1	VUn		/ <sub>00</sub>	ГМ1 / CH: М	A	,,,	- 40 L
	Peak value:						
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
	4882.00	30.46	15.42	45.88	74.00	-28.12	Vertical
	7323.00	30.89 km²°	18.02	48.91 N	74.00	-25.09	Vertical
	9764.00	32.00	23.80	55.80	74.00	-18.20	Vertical
	12205.00	Anb *	abotek	Anbot	74.00	Aupolek	Vertical
	14646.00	Anbo*	Viek Viek	Aupolek	74.00	"potek	Vertical
	4882.00	30.24	15.42	45.66	74.00	-28.34	Horizonta
	7323.00	32.42	18.02	50.44	74.00	-23.56	Horizonta
	9764.00	29.34	23.80	53.14	74.00	-20.86	Horizonta
	12205.00	potek * And	. Sk	sporek An	74.00	rotek b	Horizonta
	14646.00	"POIGH*	Anbolo	Clek	74.00	And	Horizonta
	Average value:						
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
	4882.00	19.55 mo <sup>re</sup>	15.42	34.97	54.00	-19.03	Vertical
	7323.00	20.17	o <sup>telk</sup> 18.02 And	38.19	54.00	-15.81	Vertical
	9764.00	21.87	23.80	45.67	54.00	-8.33	Vertical
	12205.00	Aupore*	Vun	, upotek	54.00	shoick	Vertical
	14646.00	" up, lek	Anbor	Potek	54.00	Al.	Vertical
	4882.00	18.80	15.42	34.22	54.00	-19.78	Horizonta
(	7323.00	21.05	18.02,0010	39.07	54.00	-14.93 h	Horizonta
	9764.00	19.46	23.80	otek 43.26 And	54.00	-10.74	Horizonta
	12205.00	work *	Poles Vu	rek .	54.00	100 K	Horizonta
	14646.00	W. K.	Pupolek	Aupo	54.00	Aupotek	Horizonta

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Vupo, W.		Pu.	V	POLEK V	up	10K
			TM1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	30.73	15.58	46.31	74.00	-27.69	Vertical
7440.00	30.90	17.93	48.83	74.00 M	-25.17	Vertical 📈
9920.00	32.55	23.83	56.38	74.00	-17.62	Vertical
12400.00	Anbote * P	"I'EK	Aupoles	74.00	"polek	Vertical
14880.00	Vupo*ek	Aupois	abolek	74.00	b.	Vertical
4960.00	30.31	15.58	45.89	74.00	-28.11	Horizontal
7440.00	32.45	17.93	50.38	74.00	-23.62	Horizontal
9920.00	30.02	23.83	53.85 m	74.00	~~~ -20.15 mo	Horizontal
12400.00	olek * Anb	oto Am	Viek Vi	74.00	· ek	Horizontal
14880.00	"Sek*	Anbotek A	Wo - CK	74.00	Aupor	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	20.67	15.58	36.25	54.00	-17.75	Vertical (%)
7440.00	21.18	ntel 17.93 And	39.11	54.00	-14.89 And	Vertical
9920.00	22.42	23.83	46.25	54.00	7.75	Vertical
12400.00	abote*	Vupo.	, otek	54.00	Aug	Vertical
14880.00	* tek	Anbolek	Vun.	54.00	Anbore	Vertical
4960.00	20.24	15.58	35.82	54.00	-18.18	Horizontal
7440.00	22.42	17.93	40.35	54.00	-13.65	Horizontal
9920.00	19.36 noot	23.83	43.19	54.00 km	-10.81	Horizontal
12400.00	*	potek Ant	, b.	54.00	Poles Vu	Horizontal
14880.00	"upole * B	-olek	Aupole	54.00	" upolek	Horizontal

#### Remark:

- 1. Result =Reading + Factor
- 2. Test frequency are from 1GHz to 25GHz, "\*" 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

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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

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----- End of Report

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