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FCC Test Report

DONGGUAN LOYFUN INDUSTRIAL CO.,LTD **Applicant**

Room 101, Building 2, No 54, Xikeng road, Puxin

village, Shipai town, Dongguan, Guangdong, Address

China.

Bluetooth Speaker Product Name

Report Date : Aug. 30, 2023

Shenzhen Anbotek Compliance Laboratory Limited











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TEST REPORT

Applicant : DONGGUAN LOYFUN INDUSTRIAL CO.,LTD

Manufacturer : DONGGUAN LOYFUN INDUSTRIAL CO.,LTD

Product Name : Bluetooth Speaker

Test Model No. : M8

Reference Model No. : M1, M26, M56PRO, M17, M19, M28, M65, A01, A8PRO

Trade Mark : N/A

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

Test Standard(s) : 47 CFR Part 15.247

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. 03, 2023	
anbotek Anbotek Anbotek		
Date of Test:	Aug. 03, 2023 to Aug. 18, 2023	
Anbotek Anbotek Anbotek	Anbore Anboren Anboren Anboren	
ak Anbotek Anbotek Anbo	Tu Tu Hong	
Prepared By:	nbotek Anbo ok botek Anbote	Vu
bors Amborek Anborek Anborek	(TuTu Hong)	
	Anbotek Anbotek Anbotek	
	Bolward pan	
Approved & Authorized Signer:	sek obotek Aupo, W. Jotek Au	pot'
k Aupoter Aur tek upotek Aupo,	(Edward Pan)	







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Revision History

	Report Version	Description	Issued Date
	Anbore R00 potek An	Original Issue.	Aug. 29, 2023
9,	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Ant
10	ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter





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1. General Information

1.1. Client Information

Applicant	: DONGGUAN LOYFUN INDUSTRIAL CO.,LTD
Address	Room 101,Building 2,No 54, Xikeng road,Puxin village,Shipai town, Dongguan, Guangdong, China.
Manufacturer	: DONGGUAN LOYFUN INDUSTRIAL CO.,LTD
Address	Room 101,Building 2,No 54, Xikeng road,Puxin village,Shipai town, Dongguan, Guangdong, China.
Factory	: DONGGUAN LOYFUN INDUSTRIAL CO.,LTD
Address	Room 101,Building 2,No 54, Xikeng road,Puxin village,Shipai town, Dongguan, Guangdong, China.

1.2. Description of Device (EUT)

YOU UP		K hore Ar.
Product Name	:	Bluetooth Speaker
Test Model No.	:	M8 Anborek Anborek Anborek Anborek Anborek
Reference Model No.	:	M1, M26, M56PRO, M17, M19, M28, M65, A01, A8PRO (Note: All samples are the same except the model number & appearance color, so we prepare "M8" for test only.)
Trade Mark	:	N/A Anbore And Anborek Anborek Anborek Anborek Anborek
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 Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 And otek Anborek Anbore Anborek Anborek Anborek Anborek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	1.9 dBi (Provided by customer)
Remark: (1) For a mospecifications or the U		detailed features description, please refer to the manufacturer's er's Manual.





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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter(RE)	Xiaomi Anootek	MDY-11-EX	SA62212LA04358J





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1.4. Operation channel list

hoge.							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
P.O. O. Sep	2402	20	2422	40 borek	2442	60	2462
· 1 _{Anbote}	2403	× 21 00°	2423	41	2443 hote	61	2463
tek 2 Anb	2404	22	otek 2424 Mbo	42	2444	62 And	2464
New 3	2405	23	2425	43	2445	63	2465
4	2406	^{nb0} 24	2426	Arrbo144	2446	64	2466
Anbot 5	2407	25	2427	45	2447	65	2467
A 6	2408	26	2428	46	2448	66	2468
Zupore.	2409	27, noote	2429	47 bot	2449	67	2469
iek 8 Aupo	2410	18 NO	2430	48	ote* 2450 Anb	68	2470
notek 9	2411 And	29	2431	49	2451	⁶⁹	2471
10	2412	30	2432	Anbotto	2452	70 no	2472
And 11,ek	2413	Anba 31	2433	51	2453	7.1	2473
12	2414	32	2434	52°	2454	72	2474
13	2415	33 ^{1/2016}	2435	× 53, nbot	2455	73	2475 DOTE
14 Anbo	2416	rek 34 Anb	2436	sex 54 m	2456 Maria	74	2476 And
otek 15 An	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	Anbot 76	2478
1704	2419	And 37, 64	2439	Anbore	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59 nbote	2461	ek - Mbot	- Anbor

1.5. Description of Test Modes

Pretest Modes	Descriptions				
Anbotek TM1otek Anbo	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.				
TM2 TM2 TM2	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.				
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.				
TM4 Anborek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.				
Anborek TM5*ek Anbore	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.				
Amborek TM6 botek Ant	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.				





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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
This uncertainty represents an expanded uncertainty represents a property represents a property representation of the property represents a property representation of the property represents a property representation of the property repr	ainty 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	sk bosek / Auposes	P
Conducted Emission at AC power line	Mode1,2,3	PARTE.
Occupied Bandwidth	Mode1,2,3	P. Au
Maximum Conducted Output Power	Mode1,2,3	nbote P.
Channel Separation	Mode4,5,6	Anbore P
Number of Hopping Frequencies	Mode4,5,6	AP OF
Dwell Time* Anborek Anborek Anborek	Mode4,5,6	Panbo
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	P Ant
Band edge emissions (Radiated)	Mode1,2,3	hore P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	Anbore P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	ATP
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	tek Anbot





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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.:184111

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. 184111.

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.518128





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1.9. Test Equipment List

Cond	ucted Emission at A	C power line				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
بر ا د 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
zek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	tek /Anbotek	ek apotek

Dwell Time

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
1	MXG RF Vector Signal Generator	Agilent	N5182A	MY481806 56	2022-10-13	2023-10-12	
2	Power Meter	Agilent	N1914A	MY500011 02	2022-10-26	2023-10-25	
3	DC Power Supply	IVYTECH	IV3605	1804D360 510	2022-10-22	2023-10-21	
4 4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22	
5	Oscilloscope	Tektronix	MDO3012	C020298	2022-10-19	2023-10-18	

	sions in frequency ba edge emissions (Ra		Aupolek	Anbotek Anbotek	Anboiek A.	Anbotek Anb
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Anbo	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2022-10-13	2023-10-12
_K 3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
o [₹] €¥	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupotek b	hotek A
nb5 ^{rek}	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7 AC	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24







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040.	An	otek anber	L.	- polici	V.L.	-otole
Emiss	sions in frequency ba	ands (below 1GHz)	Aupor	Ar. aboyek	Anboren	Androtek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
nb4ek	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupole,	Andorsk





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2. Antenna requirement

bolek Anbore	An intentional radiator shall be designed to ensure that no antenna other
And k hotek	than that furnished by the responsible party shall be used with the device.
Test Requirement:	The use of a permanently attached antenna or of an antenna that uses a
Ar. otek Anbot	unique coupling to the intentional radiator shall be considered sufficient to
Aupo K	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 1.9 dBi . It complies with the standard requirement.





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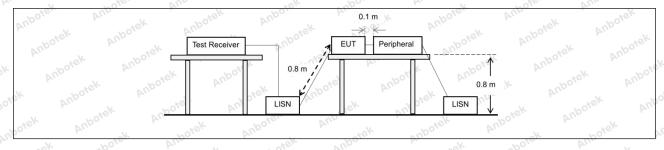
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the report back onto the AC power line on an	that is designed to be con adio frequency voltage tha	nected to the at is conducted		
band 150 kHz to 30 MHz, shall not exceed the limits in the following tab measured using a 50 μH/50 ohms line impedance stabilization network (LISN).					
aboiek Ando	Frequency of emission (MHz)	Conducted limit (dBµV)	r rotek		
Ar. abover	And k hotek Anbo.	Quasi-peak	Average		
Tablinait Siek	0.15-0.5	66 to 56*	56 to 46*		
Test Limit:	0.5-5 And	56 MATER AND	46		
All.	5-30 kno	60	50 And		
Aupo, K A.	*Decreases with the logarithm of t	he frequency.			
Test Method:	ANSI C63.10-2013 section 6.2 ANSI C63.10-2020 section 6.2	Aupotek Aupotek	Anbotek A		
Propodura:	Refer to ANSI C63.10-2013 section line conducted emissions from un		od for ac power-		
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un		od for ac power-		

3.1. EUT Operation

Operating Environment:	ore Allinotek Anbortek Anbortek Anbortek
Anbotek Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-π/4 DQPSK (Non-Hopping): Keep the EUT in continuously
Test mode:	transmitting mode (non-hopping) with π/4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting
rek Anbotek Anbo.	mode (non-hopping) with 8DPSK modulation.

3.2. Test Setup



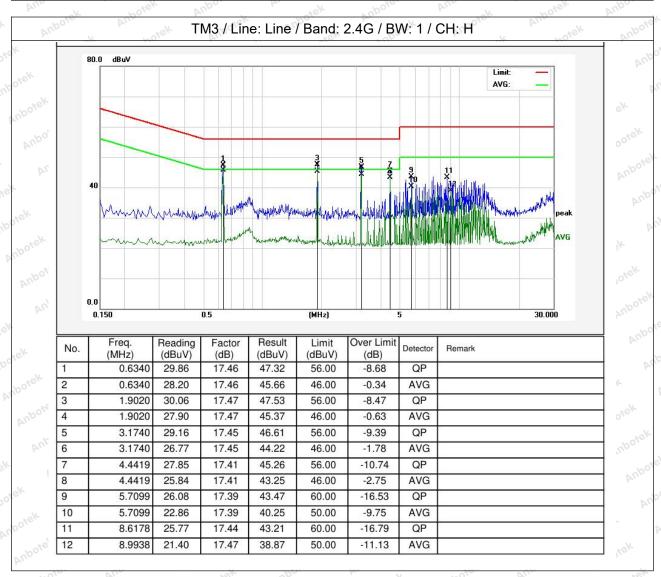




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3.3. Test Data

Temperature: 22.5 °C Humidity: 56 % Atmospheric Pressure: 98 kPa

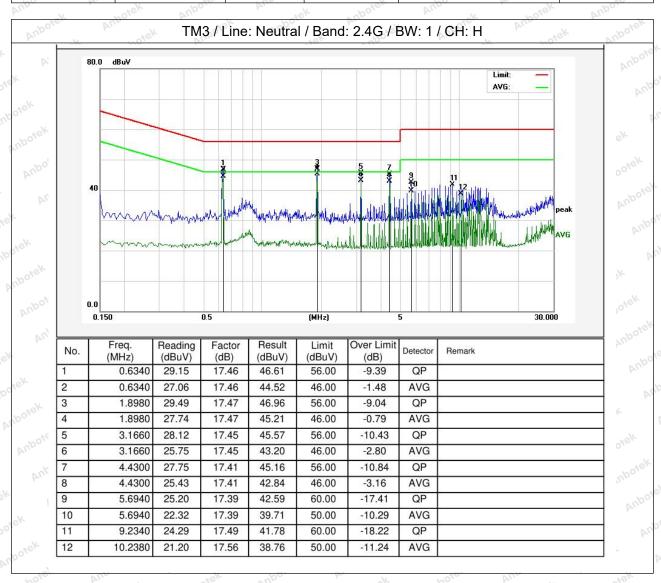






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Temperature: 22.5 °C Humidity: 56 % Atmospheric Pressure: 98 kPa



Note: Only record the worst data in the report.







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 7.8.7, For occupied bandwidth measurements, use the procedure in 6.9.2.
	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.
botek Anbotek	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five 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 video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. 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 4.1.5.2.
	d) Steps a) through c) might require iteration to adjust within the specified tolerances.e) The dynamic range of the instrument at the selected RBW shall be more
Anbotek Anbotel	than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the
Procedure:	reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the
	spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta
	function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn
	the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
	j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value, then it shall be
	as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest









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frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

k) The occupied bandwidth shall be reported by providing 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).

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- 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 measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.1. EUT Operation

Operating Environment:	Vu. Viek	Anbotek	Anbo	A.	abotek	Anbore	Vu.	rek
Test mode:	1: TX-GFSk mode (non- 2: TX-π/4 D transmitting	hopping) wit QPSK (Non	th GFSK m -Hopping):	odulatio Keep th	n. ne EUT in	n continuous	iek ar	nbote Anb



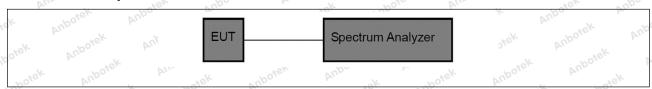




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3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

4.2. Test Setup



4.3. Test Data

Temperature:	23.3 °C	Humidity:	57.0 %	Atmospheric Pressure:	102 kPa
iciliperature.	20.0 0	Trumuity.	37.3 70	Authosphiche i ressure.	102 Ki a

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: ek Anborek	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 C63.10-2013, section 7.8.5 ANSI C63.10-2020, section 7.8.5
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. The hopping shall be disabled for this test:
obotek Anbotek An	 a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured.
Anbotek Anbotek	 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak.
tek Aupotek Aupot	6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the
potek Anbotek	emission.d) The indicated level is the peak output power, after any corrections for external attenuators and cables.e) A plot of the test results and setup description shall be included in the test
Procedure:	report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied
ek Vupotek Vur	bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.
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
y Aupotek Aupote	settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured.
potek Anbotek A	 c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Anbotek Anbotek	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
k Aupotek Aupo	emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables.









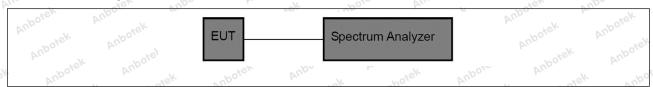
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Pole K	otek	i) A spectral	plot of the	e test resu	ts and setup	description	shall be inclu	ded in
anboten An		the test repo	La U	V	otek Anb	And.	**************************************	botek
"Olek							here the pow	
AUG							the occupie	d'upo,
anbote.	AUR	bandwidth o	of the unlic	ensed wire	eless device	rather than	a spectrum	hote
k potek	aupost.	analyzer.	.el	abotek	Aupo	rojek.	Anbore	Ans

5.1. EUT Operation

Operating Environment	Mupor An Notek Anboten And tek Anbotek Anbor A
Anbotek Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-π/4 DQPSK (Non-Hopping): Keep the EUT in continuously
Test mode:	transmitting mode (non-hopping) with π/4 DQPSK modulation.
k abotek Anbo	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting
Air.	mode (non-hopping) with 8DPSK modulation.
piek Aupo, W.	otek anbore And ak potek Anbor Ar otek

5.2. Test Setup



5.3. Test Data

Temperature:	23.3 °C	Humidity:	57.9 %	Atmospheric Pressure:	102 kPa
1 2			0.10 /0 /0	, (4)(100 p.1.01.10	

Please Refer to Appendix for Details.



Hotline



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6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	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 C63.10-2013, section 7.8.2 ANSI C63.10-2020, section 7.8.2
	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: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. 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 plot of the data shall be included in the test report.
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.
	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 Enviro	nment:	nbotek	Anbo.	b,	otek Anbo	And	otek Anbore
Test mode:		4: TX-GFSK ((hopping) with				ously transmi	tting mode





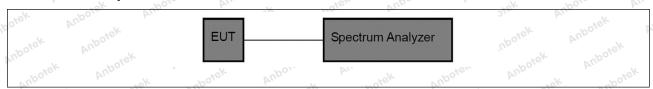




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> 5: TX- π /4 DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

6.2. Test Setup



6.3. Test Data

Те	emperature:	23.3 °C	Humidity:	57.9 %	Atmospheric Pressure:	102 kPa	NOON
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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: Anborek Anborek 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 C63.10-2013, section 7.8.3 ANSI C63.10-2020, section 7.8.3
Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto.
tek Anbotek Ant	e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.
Anbotek Anbotek	It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
ootek Anbotek An	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
Anbotek Anbotek Anbotek Anbotek	 be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time.
Potek Aupotek Vipe	e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
Anbotek Anbotek Anbotek Anbotek	It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.





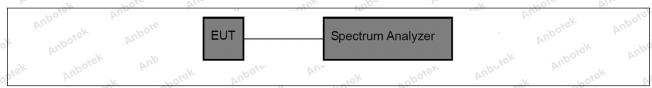


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7.1. EUT Operation

Operating Environment:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Anbotek Anbotek	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.
otek Anbotek Anbo	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.
inpotek Aupo ok	potek Aupote, Au

7.2. Test Setup



7.3. Test Data

Temperature:	23.3 °C	Humidity:	57.9 %	Atmospheric Pressure:	102 kPa
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Please Refer to Appendix for Details.





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8. Dwell Time

Papo, A. A.	Tapos to a control of the control of
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anborek Anborek Anborek 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 C63.10-2013, section 7.8.4 ANSI C63.10-2020, section 7.8.4
Anbotek Anbotek Anbot	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be
	set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger
	level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold.
	Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.
Procedure:	Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and
	calculate the total number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the
	requirements / analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of
	operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation. The measured transmit time and time between hops shall be consistent with
	the values described in the operational description for the EUT. 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







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the last transmission.

The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.

The EUT shall have its hopping function enabled. Compliance with the 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.

Use the following spectrum analyzer settings to determine the dwell time per hop:

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop.
- c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this.
- d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel
- e) Detector function: Peak.
- f) Trace: Clear-write, single sweep.
- g) Place markers at the start of the first transmission on the channel and at 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.









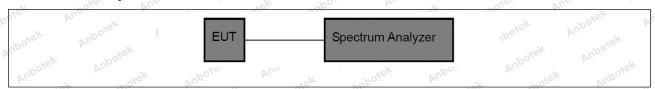
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,ek	abotek	Aupo		-otek	anbore	VIII	*eK	abotek	PUPP.
Aupola		V 2./ A.	-		5.0		-		e dwell time
hotek	Aupo.	per hop	by the r	number	of hops in tl	he observ	vation p	eriod.	M. Stek

8.1. EUT Operation

Operating Environment:	Pak Posek Vupose Vuposek Vuposek Vuposek Vuposek
tokek Pupotek Vipo	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
Test mode:	mode (hopping) with π/4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode
Anbotek Anboten	(hopping) with 8DPSK modulation.

8.2. Test Setup



8.3. Test Data

Temperature: 23.3 °C Humidity: 57.9 % Atmospheric Pressure	: 102 kPa	
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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)
Test Limit: 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 C63.10-2013 section 7.8.8 ANSI C63.10-2020 section 7.8.7
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek tek Anbotek Anbotek tek Anbotek Anbotek	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. 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 instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.
	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
Procedure:	hopping enabled.
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
	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.







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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 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:	or Anborek Anbores Anno Anborek Anborek Anborek
otek anbotek A	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting
Aupo, W.	mode (non-hopping) with GFSK modulation.
hotek Anbo	2: TX-π/4 DQPSK (Non-Hopping): Keep the EUT in continuously
And ok hotek	transmitting mode (non-hopping) with π/4 DQPSK modulation.
Anbore. And	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting
K. Stek Anboie	mode (non-hopping) with 8DPSK modulation.
Test mode:	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode
ok botek Anbi	(hopping) with GFSK modulation,.
pore And	5: TX-π/4 DQPSK (Hopping): Keep the EUT in continuously transmitting
sotek Anbore A	mode (hopping) with π/4 DQPSK modulation.
Aug K Potek	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode
Aupoter Aupo	(hopping) with 8DPSK modulation.
botek Anbord	Air sek upoter Ando k potek Anbore Air

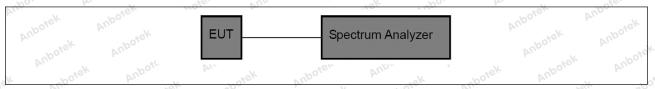






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9.2. Test Setup



9.3. Test Data

Temperature:	23.3 °C	Humidity:	57.9 %	Atmospheric Pressure:	102 kPa
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Please Refer to Appendix for Details.





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10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
k Aupotek Aupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
or bu	0.009-0.490	2400/F(kHz)	300 Mboto
aboiek Ando	0.490-1.705	24000/F(kHz)	30 Stek
Al. Otek Vupoter	1.705-30.0	30° Mek nobo	30
Anbo. K k. hotek	30-88	100 **	3,ek Anbore
Toot Direct	88-216	150 **	3
Test Limit:	216-960	200 **	3 pore And
Anbo	Above 960	500 hotel Ando	3 stek ships
upotek Aupotek Auc	intentional radiators operatifrequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	e located in the 470-806 MHz.
Anbotek Anbotek	sections of this part, e.g., §§ 15.231 and 15.241.	Anbotek Anbote An	botek Anbotek
Test Method:	ANSI C63.10-2013 section ANSI C63.10-2020 section		Pupoter, Vupo
Procedure:	ANSI C63.10-2013 section	6.10.5.2	
pore Aug	ANSI C63.10-2020 section	6.10.5.2	sk upotek

10.1. EUT Operation

Operating Environment:	Aupotek Aupotek Aupotek Aupotek Aupote
k Anbore Anbor	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 π /4 DQPSK modulation.
arbotek Anbotek	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
VII. Otek Vupotek	And And Andrew Andrew Andrew Andrew Andrew

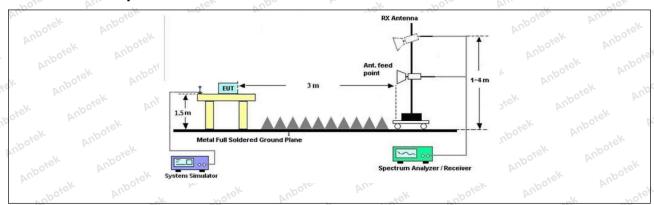






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10.2. Test Setup









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10.3. Test Data

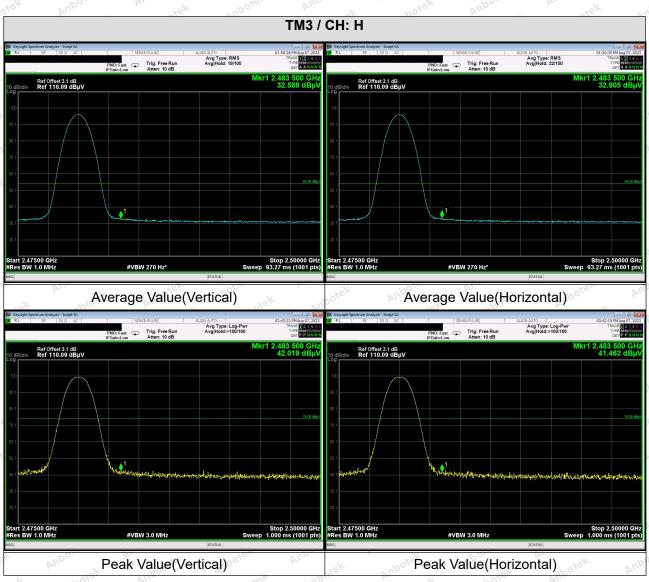
Temperature: 23.3 °C Humidity: 57.9 % Atmospheric Pressure: 102 kPa







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Remark: Only the worst case is recorded in the report.





Hotline

www.anbotek.com.cn

400-003-0500





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11. Emissions in frequency bands (below 1GHz)

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
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
ore Am	0.009-0.490	2400/F(kHz)	300
abotek Anbo.	0.490-1.705	24000/F(kHz)	30
Tiek Vupotek	1.705-30.0	30	30
	30-88	100 **	3,ek nbore
Toot Direct	88-216	150 **	3
Test Limit:	216-960	200 **	3bote And
	Above 960	500	3 rek no
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operat frequency bands 54-72 MH	aragraph (g), fundamental emissi ing under this section shall not b dz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2013 section ANSI C63.10-2020 section		
Procedure:	ANSI C63.10-2013 section ANSI C63.10-2020 section	botek Anb	Anbotek Ar
	LOV	PO. D	S. VUD.

11.1. EUT Operation

Operating Environment:	Aupotek Aupotek Aupotek Aupotek Aupote
k Anbore Anbor	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 π /4 DQPSK modulation.
arbotek Anbotek	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
VII. Otek Vupotek	And And Andrew Andrew Andrew Andrew Andrew

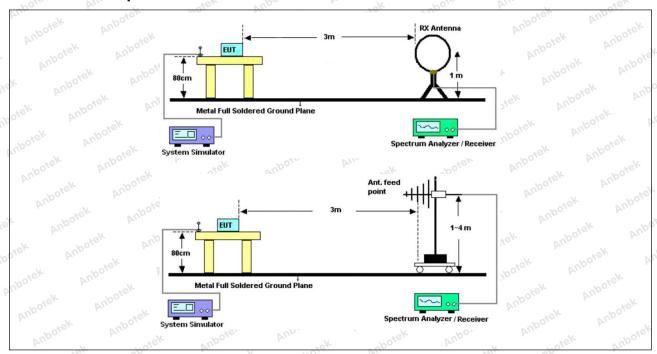






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11.2. Test Setup



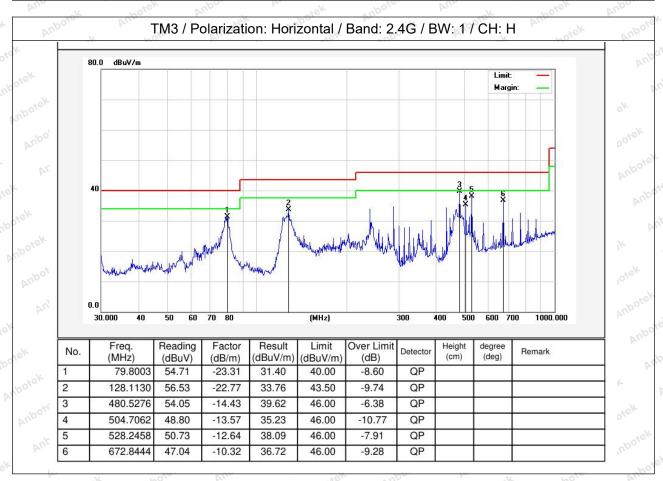




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11.3. Test Data

Temperature: 22.9 °C Humidity: 56.7 % Atmospheric Pressure: 101.1 kPa

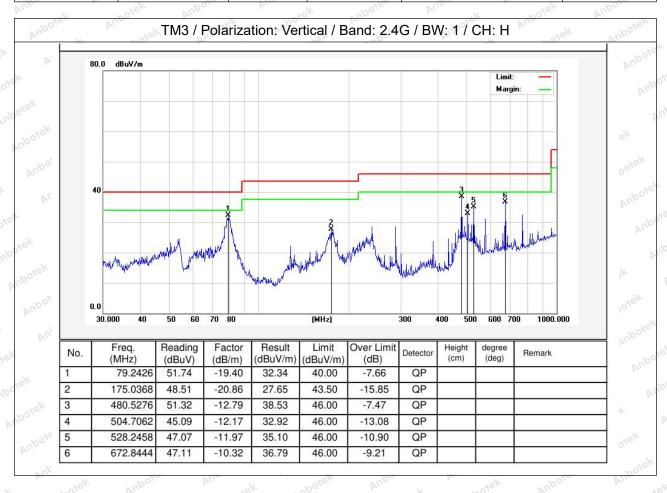






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Temperature: 22.9 °C Humidity: 56.7 % Atmospheric Pressure: 101.1 kPa



Note: Only record the worst data in the report.







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12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted back comply with the radiated emission 5(c)).`	
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
orek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
hotek Anbotek	1.705-30.0	30° Arek noo	30
Anbotek Anbotek	30-88 88-216	100 ** 150 **	3 Mark
Test Limit:	216-960 Above 960	200 ** 500	3 of And
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	** Except as provided in pa intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or chese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2013 section ANSI C63.10-2020 section		
Procedure:	ANSI C63.10-2013 section ANSI C63.10-2020 section	poter Anbe	Anbotek A

12.1. EUT Operation

Operating Environment:	Aupotek Aupotek Aupotek Aupotek Aupote
k Anbore Anbor	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 π /4 DQPSK modulation.
arbotek Anbotek	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
VII. Otek Vupotek	And And Andrew Andrew Andrew Andrew Andrew

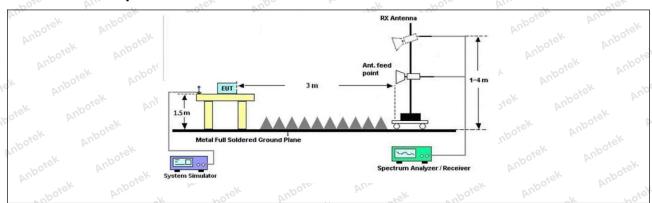






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12.2. Test Setup





Hotline



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12.3. Test Data

Temperature: 22.1 °C	Humidity: 56	% Atmospheric Pressure:	102 kPa
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- Jan	PO. VIII		TMO / OUT-	**	-k ⁰ 10	b1.
			TM3 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	27.41	15.27	42.68	74.00	-31.32	Vertical
7206.00	28.53	18.09	46.62	74.00	-27.38	Vertical
9608.00	29.43	23.76	53.19	74.00	-20.81	Vertical
12010.00	Aupoter* A	, e ^k	abotek Anb	74.00	otek Anbote	Vertical
14412.00	"Upo*sk	Anbo, ok	hojek b	74.00	iek ont	Vertical
4804.00	27.76	15.27	43.03	74.00	-30.97	Horizontal
7206.00	28.79	18.09	46.88	74.00	-27.12	Horizontal
9608.00	28.34	23.76	52.10	74.00	-21.90	Horizontal
12010.00	otek * Wpo.	- V- 100	iek Vupoje,	74.00	hotek	Horizontal
14412.00	hotek*	Ooter Amb	sek spo	74.00	L bore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.79	15.27	32.06	54.00	-21.94	Vertical
7206.00	17.56	18.09	35.65	54.00	-18.35	Vertical
9608.00	18.45	23.76	42.21	54.00	-11.79	Vertical
12010.00	N. S.	Aupolei Au	iek .	54.00	by by	Vertical
14412.00	And *ek	abotek	Aupo, K	54.00	ipole And	Vertical
4804.00	16.11	15.27	31.38	54.00	-22.62	Horizontal
7206.00	17.85	18.09	35.94	54.00	-18.06	Horizontal
9608.00	17.65 00°	23.76	41.41	54.00	-12.59	Horizontal
12010.00	***	otek Wupos	K 1-04	54.00	Vup.	Horizontal
14412.00	4 ×	stek ont	Oton Augo	54.00	ek Aupos	Horizontal



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			ГМ3 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	27.43	15.42	42.85	74.00	-31.15	Vertical
7323.00	28.38	18.02	46.40	74.00	-27.60	Vertical
9764.00	28.44	23.80	52.24	74.00	-21.76	Vertical
12205.00	ek * spojek	Anborr	h worek	74.00	And	Vertical
14646.00	* * *	tek Wipose	Pun de	74.00	Aupo	Vertical
4882.00	27.46	15.42	42.88	74.00	-31.12	Horizontal
7323.00	28.78	18.02	46.80	74.00	-27.20	Horizontal
9764.00	28.04	23.80	51.84	74.00	-22.16	Horizontal
12205.00	* otok	Anbore	And	74.00	YUPO, OK	Horizontal
14646.00	ATA STOK	nbotek	Aupo	74.00	Aupore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	16.52	15.42	31.94	54.00	-22.06	Vertical
7323.00	17.66	18.02	35.68	54.00	-18.32	Vertical
9764.00	18.31	23.80	42.11	54.00	-11.89	Vertical
12205.00	k *upor	N. Siek	anbotek	54.00	boiek	Vertical
14646.00	otek * Anboti	And	sk spojek	54.00	poiek .	Vertical
4882.00	16.02	15.42	31.44	54.00	-22.56	Horizontal
7323.00	17.41	18.02 A	35.43	54.00	-18.57	Horizontal
9764.00	18.16	23.80	41.96	54.00	-12.04	Horizontal
12205.00	Aupoton	Anbo	abořek	54.00	rotek D	Horizontal
14646.00	* ~ ~ ~ ~ ~	VUPO.	W. rek	54.00	VUD.	Horizontal



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en Aug	riek	vupo,	VII.	Poter	AUD	rick
		٦	ГМ3 / СН: Н			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	27.70	15.58	43.28	74.00	-30.72	Vertical
7440.00	28.39	17.93	46.32	74.00	-27.68	Vertical
9920.00	28.99	23.83	52.82	74.00	-21.18	Vertical
12400.00	* P*	anbore.	Anti-	74.00	Aupo,	Vertical
14880.00	* Vup	iek upołek	Anbo	74.00	Anbore.	Vertical
4960.00	27.53 And	15.58	43.11.00°	74.00	-30.89	Horizontal
7440.00	28.81	17.93	46.74	74.00	-27.26	Horizontal
9920.00	28.72	23.83	52.55	74.00	-21.45	Horizontal
12400.00	AUD * "SK	abotek	Aupo, k	74.00	Aupore, Au	Horizontal
14880.00	Alapo, ak	Kotek	Anbores	74.00	anbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	17.64	15.58	33.22	54.00	-20.78	Vertical
7440.00	18.67	17.93	36.60	54.00	17.40 M	Vertical
9920.00	18.86	23.83	42.69	54.00	-11.31	Vertical V
12400.00	k * spojek	Aupor	hotek	54.00	Aug	Vertical
14880.00	* * *	sk Vupoje.	Ann	54.00	Vupo.	Vertical
4960.00	17.46	15.58 NO	33.04	54.00	-20.96	Horizontal
7440.00	18.78	17.93	otel 36.71 pho	54.00	-17.29	Horizontal
9920.00	18.06	23.83	41.89	54.00 And	±12.11	Horizontal
12400.00	* tek	Anbores	Aur Stek	54.00	Ipo. br.	Horizontal
14880.00	An*	* Upotek	Anbo	54.00	Anbore	Horizontal

Remark:

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







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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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

