

FCC ID: 2A92JGD-AP08 Report No.: 18220WC30255901 Page 1 of 40

FCC Test Report

Applicant

Guangzhou Golden Diamond Electric Appliance

Co., Ltd

Address

43 Lianglong South Street, Oversea Chinese

Science and Technology Industrial Park,

Huashan Town, Huadu District, Guangzhou,

510800, China

Product Name : Video speaker

Report Date

Jan. 31, 2024

Shenzhen Anbotek Compliance Laboratory Limited











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TEST REPORT

Applicant : Guangzhou Golden Diamond Electric Appliance Co., Ltd

Manufacturer : Guangzhou Golden Diamond Electric Appliance Co., Ltd

Product Name : Video speaker

Test Model No. : GD-AP08

Reference Model No. : N/A

Trade Mark : Pronext

Rating(s) : Input: 13.5V---4A (with DC 11.1V, 7200mAh battery inside)

Test Standard(s) 47 CFR Part 15.247 ANSI C63.10-2020

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:	Nov. 30, 2023
Date of Test:	Nov. 30, 2023 ~ Jan. 30, 2024
	Nian xiu Chen
Prepared By:	Anbor An rek abores Anbo
Anbotek Anbotek Anbotek	(Nianxiu Chen)
	Bolward pan
Approved & Authorized Signer:	o. W. Wolek Aupole. Vun
upo kek upotek Aupote k potek a	(Edward Pan)







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Revision History

	Report Version	Description	Issued Date
Ī	Anbore ROO gootek Ant	Original Issue.	Jan. 31, 2024
,e)	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Ant
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1. General Information

1.1. Client Information

Applicant	:	Guangzhou Golden Diamond Electric Appliance Co., Ltd		
Address : 43 Lianglong South Street, Oversea Chinese Science and Technol Industrial Park, Huashan Town, Huadu District, Guangzhou, 51080				
Manufacturer	:	Guangzhou Golden Diamond Electric Appliance Co., Ltd		
Address	43 Lianglong South Street, Oversea Chinese Science and Technology Industrial Park, Huashan Town, Huadu District, Guangzhou, 510800, China			
Factory	:	Guangzhou Golden Diamond Electric Appliance Co., Ltd		
Address	:	43 Lianglong South Street, Oversea Chinese Science and Technology Industrial Park, Huashan Town, Huadu District, Guangzhou, 510800, China		

1.2. Description of Device (EUT)

76. YUA		The Man
Product Name	:	Video speaker
Test Model No.	:	GD-AP08
Reference Model No.	:	N/A hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Pronext
Test Power Supply	:	AC 120V, 60Hz for Adapter/ DC 11.1V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Manufacturer: SHENZHEN FUJIA APPLIANCE CO.,LTD MODEL: FJ-SW20171354000 INPUT: 100-240V~ 50/60Hz 1.5A Max OUTPUT: 13.5A 4.0A 54.0W
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79sk Anborek Anborek Anborek Anborek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	Monopole Antenna
Antenna Gain(Peak)		2.16dBiotek Anbotek Anbotek Anbotek Anbotek Anbotek
Domorky		The state of the s

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.







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1.3. Auxiliary Equipment Used During Test

Title		Manufacturer	Model No.	Serial No.	
	botek / Anboten	Anbotek Anbotek	Anbo. An abotek	Anbores / Anb	

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Ootek Ootek	2402	20 rek	2422	40	2442	60	2462
1 botek	2403	21	2423	41	2443	61.1001e	2463
2 2 bo	2404	22	2424	42 Anbo	2444	rek 62 Anbo	2464
3	bote 2405 Mb	23	2425	o ^{tel} 43 An	2445	botel 63	2465
4	2406	24	2426	44	2446	64	2466
And 5	2407	Ant 25	2427	45	2447	65	2467
And Grek	2408	26	2428	46	2448	66	2468
7	2409	27. ^{nb}	2429	47 Anbor	2449	ek 67 _{Amb} o	2469
8 And	2410	28 And	2430	otek 48 Ank	2450	68 N	2470
9 An	2411	29	2431	49	2451	69	2471
Anborto	2412	Aug 30	2432	50 ^k	2452	70	2472
Arign	2413	31	2433	51° ek	2453	71 potek	2473
12	2414	32	2434	52 _{nb} ote	2454	72	2474
13Anbox	2415	iek 33 Anbo	2435	otek 53 Anb	2455 nbox	73	2475 M
otek 14 Ank	2416	potek 34 N	2436	54	2456 And	74	2476
nbote15	2417	35	2437	55	2457	75 _k	2477
_{An} 16	2418	36	2438	56 rek	2458	An 76	2478
17° tek	2419	37 otek	2439	57 botel	2459	77	2479
18,000°	2420	38 _{Mb} o	2440	58	2460, 10016	78	2480 M
otek 19 Anb	2421	39	2441 M	59	2461	Oles - Vill	Jek-



Hotline

www.anbotek.com.cn

400-003-0500



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1.5. Description of Test Modes

Pretest Modes	Descriptions
Anborek TM1nboren	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2 Anborek	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
otek Anbotek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
Inbores And TM4 And	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Andorek TM5, potek	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
Anbotek TM6 Anbotek	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

1.6. Measurement Uncertainty

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

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.









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1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anborek / Anbore	Ant P rek
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	P PART
Maximum Conducted Output Power	Mode1,2,3	P
Channel Separation	Mode4,5,6	upor Pk
Number of Hopping Frequencies	Mode4,5,6	Anb P tek
Dwell Time	Mode4,5,6	A'CP
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	PARTE
Band edge emissions (Radiated)	Mode1,2,3	PAR
Emissions in frequency bands (below 1GHz)	Mode1,2,3	upone P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Anbor P. ek
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbor





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1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

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

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.







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1.10. Test Equipment List

Cond	ucted Emission at A	C power line				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
2 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	tek /Anbotek	Anborsk Aborek

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Item 1		Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
		Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	ootek N/A	2023-10-16	2024-10-15	
70	2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19	
	An3ote	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25	
Ī	4.nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22	
	5 P	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11	
X.E	6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22	



Hotline



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Ote.	And	otek pupo.	N. ak	-boye.	VU _P	ysio
	edge emissions (Ra sions in frequency ba		Auporgoiek.	Anbotek	Aupoter.	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbole 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Aupolek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emiss	sions in frequency ba	ands (below 1GHz)	Anbore	Aurabotek	Anboiek	Anbo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
. 2	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Anistel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5,00	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	y Aupon	k Anbotek



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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 **Monopole Antenna** which permanently attached, and the best case gain of the antenna is **2.16 dBi**. It complies with the standard requirement.





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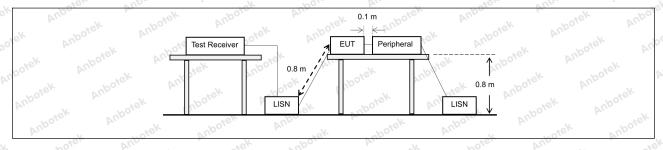
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the result back onto the AC power line on are band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that my frequency or frequencient t exceed the limits in the f	nected to the at is conducted es, within the ollowing table, as			
spotek Anboy	Frequency of emission (MHz)	Conducted limit (dBµV)				
YII.	Anbore Anbore	Quasi-peak	Average			
Aupor Ar.	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5	56 An	46			
VII.	5-30 And 5	60	50 PER AND			
k Aupor K Ai.	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2	Anbores.	Aug			
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un					

3.1. EUT Operation

Operating Envi	ronment:	Aupo, ok	bojek .	Aupote,	And	nboiek	Anborr
Test mode:	hopping) w 2: TX-π/4-I (non-hoppi 3: TX-8DP	rith GFSK ma DQPSK (Nor ng) with π/4	odulation. n-Hopping): K DQPSK mod oping): Keep	eep the EU ulation.	ontinuously tran T in continuousl continuously tra	ly transmitting	g mode

3.2. Test Setup





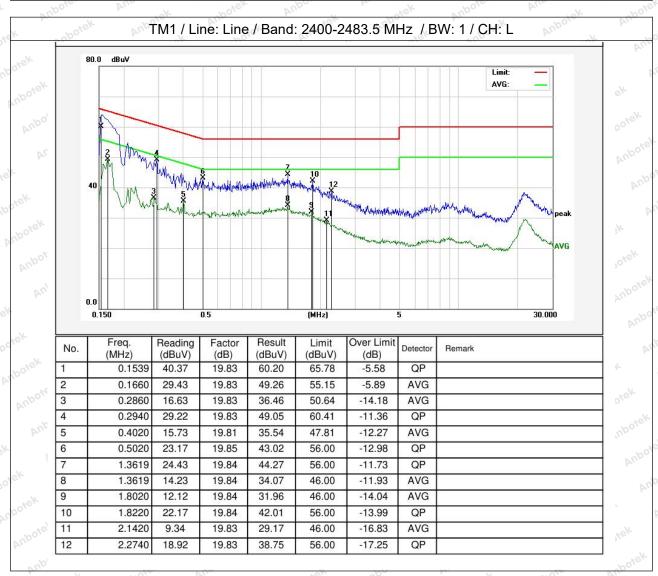
Hotline



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3.3. Test Data

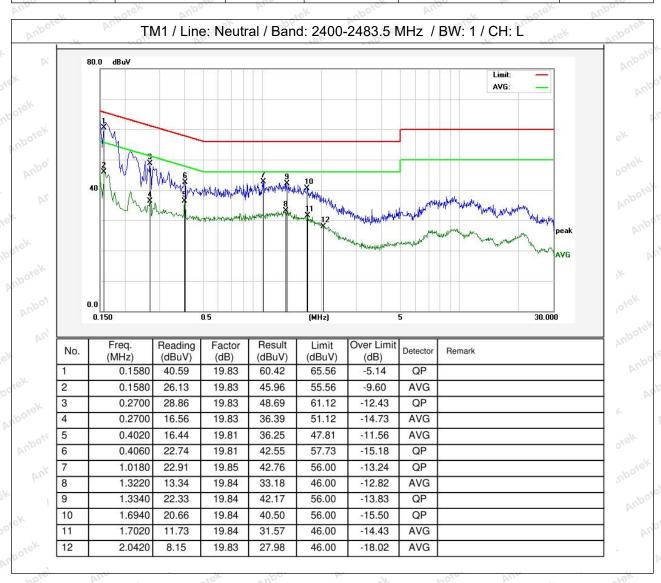
Temperature:	24.8 °C	Humidity:	50.8 %	Atmospheric Pressure:	101 kPa
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Temperature: 24.8 °C Humidity: 50.8 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
rest requirement.	
abotek Anbo.	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
Test Limit:	ensure that the 20 dB bandwidth of the emission, or whatever bandwidth
rest Limit.	may otherwise be specified in the specific rule section under which the
	equipment operates, is contained within the frequency band designated in
upotek Aupo,	the rule section under which the equipment is operated.
To Selvetto al Anboren	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements,
Test Method:	use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
Anbo	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
Sorek Anbore	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
otek Aupa	(OBW/RBW)] below the reference level. Specific guidance is given in
	4.1.6.2.
Dragadura, "otek	d) Step a) through step c) might require iteration to adjust within the
Procedure:	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).
	1 20







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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

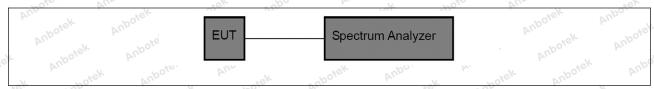
hopping) with GFSK modulation.

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

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

hopping) with 8DPSK modulation.

4.2. Test Setup



4.3. Test Data

P	Temperature:	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
	remperature.	P23.4 C M	Trufflidity.	40 /0	Autiospheric Flessure.	IUINFA

Please Refer to Appendix for Details.







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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5
Anbotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Procedure:	f) Trace: Max-hold. g) Allow trace to stabilize.
	h) Use the marker-to-peak function to set the marker to the peak of the emission.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.
	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

70	Operating Envi	nment: Anborek Anborek Anborek Anborek Anborek Anborek	.
7	Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non hopping) with GFSK modulation. 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mod (non-hopping) with π /4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.	otek de mbote

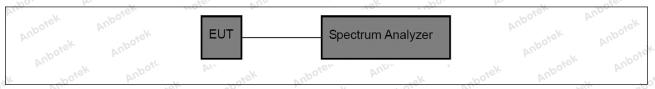






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5.2. Test Setup



5.3. Test Data

10	Taustin a na trongo 🎊	25.4 °C	11	40.0000	Atus a sub suis Dussalvus	404 LD=
	Temperature:	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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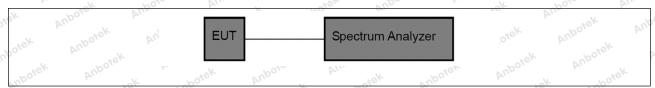
6. Channel Separation

Npo. k.	- tour All the tour and the tour
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2
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. 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 Envi	onmentiek Anborek Anborek Anborek Anborek
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 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

Temperature:	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
17	- 01	D11.	100	A04 .	0,1,2

Please Refer to Appendix for Details.









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7. Number of Hopping Frequencies

Up. Selver		- Dy.) -	·	
Test Requirement:	47 CFR 15	5.247(a)(1)(iii)	Anbo	2K	abotek	Anbore	All. otek
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	2483.5 MH occupancy period of 0 employed. transmissi	7 CFR 15.247(Iz band shall u on any chann 0.4 seconds mu Frequency ho ons on a particuls are used.	use at least nel shall not ultiplied by to opping syste	15 chan be grea he num ems may	nels. The iter than (ber of ho avoid or	e average tim 0.4 seconds pping channo suppress	ne of within a els
Test Method:	ANSI C63.	.10-2020, secti	ion 7.8.3	<i>/</i> -	nbotek	Aupo, ek	hoiek.
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Procedure: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	spectrum a a) Span: T channels t range of o be clearly b) RBW: T 30% of the c) VBW ≥ d) Sweep: e) Detecto f) Trace: M	o identify clear channel spac RBW. No faster than r function: Pea	gs: band of ope ports, it cou s multiple s ly the indivi- sing or the 2 n coupled (a	eration. I ld be ne pans, to dual cha 0 dB ba	Dependin cessary to allow the annels, se ndwidth,	g on the nun to divide the e individual c et the RBW t	nber of frequency hannels to o less than
Anbotek Anbotek	all of the h regulatory	ove necessary opping frequer limit shall be d ot of the data s	ncies. Com letermined	pliance of	of an EU lumber of	Γ with the ap hopping cha	propriate

7.1. EUT Operation

Operating Envir	ronment:
Test mode:	 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX-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.

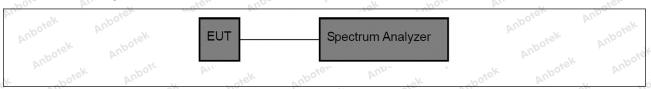






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7.2. Test Setup



7.3. Test Data

10	Taustin a na trongo 🎊	25.4 °C	11	40.0000	Atus a sub suis Dussalvus	404 LD=
	Temperature:	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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8. Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4
	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.
Anborek Anborek Anborek 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. Use the following spectrum analyzer settings to determine the dwell time per
	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









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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

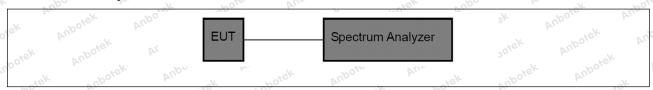
Operating Environment:

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:	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	3
		4.1				

Please Refer to Appendix for Details.







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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.
	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
	The limit is based on the highest in-band level across all channels measured
Procedure:	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.
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) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the









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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.

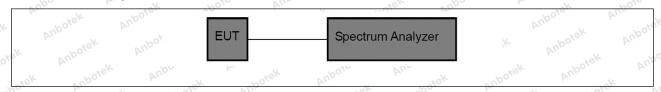
9.1. EUT Operation

Operating Environment:

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
- 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
- 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 π /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

9.2. Test Setup

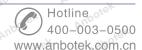
Test mode:



9.3. Test Data

Temperature	: 25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 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 compecified in § 15.209(a)(see § 15.2	ly with the
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
ok spotek	0.009-0.490	2400/F(kHz)	300
inpose Aug	0.490-1.705	24000/F(kHz)	30
hotek Anbo.	1.705-30.0	30	30
Ant sk shotek	30-88	100 **	3,ek Anbore
Anbort All	88-216	150 **	3
soiek Anbor	216-960	200 **	3
Test Limit:	Above 960	500 ragraph (g), fundamental emissi	MOSE. MU
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ng under this section shall not be z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitted as 15.231 and 15.241. The tighter limit applies at the bein the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9–sion limits in	
Test Method:	ANSI C63.10-2020 section	6.10° Anbores Anbores	3k Aupotek
Procedure:	ANSI C63.10-2020 section	6.10.5.2	otek Anbotek

10.1. EUT Operation

	Operating Envir	onment:					Aupotek	Anbo
20,0	Test mode:	hopping) with 2: TX-π/4-DC (non-hopping	n GFSK modu QPSK (Non-H g) with π/4 DC ((Non-Hoppi	ulation. lopping): Keep QPSK modula ng): Keep the	the EUT ir	nuously transn n continuously itinuously trans	transmitting	mode

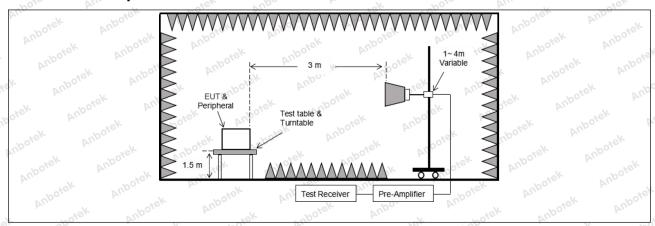






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10.2. Test Setup



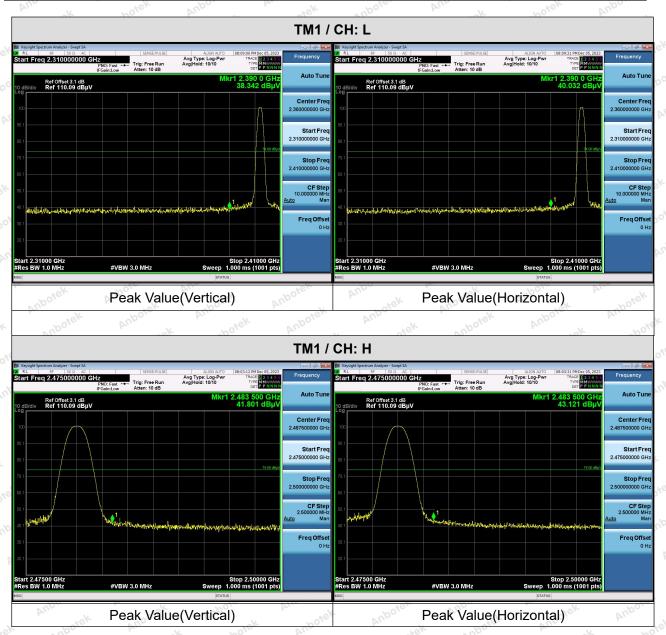




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10.3. Test Data

Temperature: 25.4 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note:

- 1. 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(GFSK) mode.







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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 compecified in § 15.209(a)(see § 15.2	ly with the
otek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
otek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
hotek Anbotek	1.705-30.0	30° kek nbo	30
Vupotek Vupotek	30-88 88-216	100 ** 150 **	3
Anbotek Anbote	216-960 Above 960	200 ** 500	3 sek
Test Limit: Anbotek	intentional radiators operatifrequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not bz, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt§ 15.231 and 15.241. In 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	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9—sion limits in
Test Method:	ANSI C63.10-2020 section	6.6.4 And	SK Wipole
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore	otek Anboten

11.1. EUT Operation

	Operating Envir	onment:					Aupotek	Anbo
20,0	Test mode:	hopping) with 2: TX-π/4-DC (non-hopping	n GFSK modu QPSK (Non-H g) with π/4 DC ((Non-Hoppi	ulation. lopping): Keep QPSK modula ng): Keep the	the EUT ir	nuously transn n continuously itinuously trans	transmitting	mode

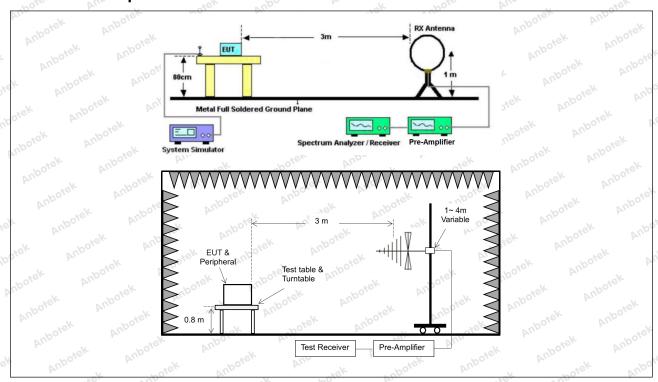






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11.2. Test Setup





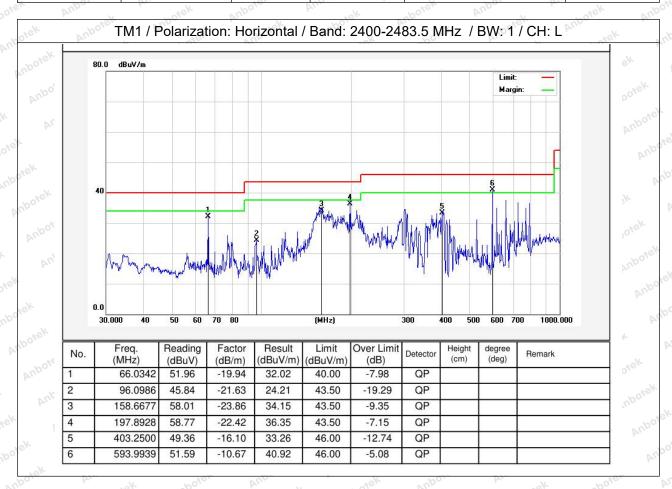


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11.3. Test Data

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

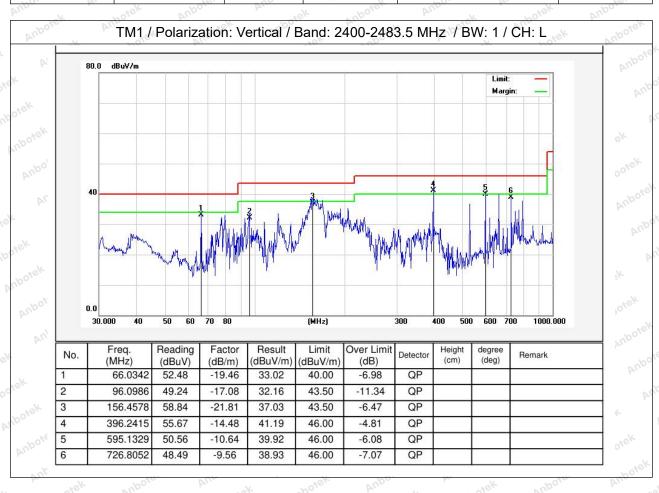
Temperature:	24.1 °C	VUPO	Humiditv:	50%	"Upo	Atmospheric Pressure:	101 kPa
	- : VA			Z(5, 12	(2/4)	7 turrespirerite 1, 8 2 2 2 2 11 2 1	y





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Temperature: 24.1 °C Humidity: 50 % Atmospheric Pressure: 101 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 be omply with the radiated emission $\overline{b}(c)$.	
k Aupotek Vupo,	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 0000
inpoter Aug	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
Anbo	30-88	100 **	3 ek Anbore
	88-216	150 **	3
	216-960	200 **	3 pore. And
	Above 960	500 More Andre	3 rek
	frequency 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	470-806 MHz. ed under other
	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 and on measurements employing	uency bands 9– sion limits in
Test Method:	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a these three bands are base	peak detector except for the frequency above 1000 MHz. Radiated emised on measurements employing	uency bands 9– sion limits in

12.1. EUT Operation

Operating Envi	ronment: And
Test mode:	 TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

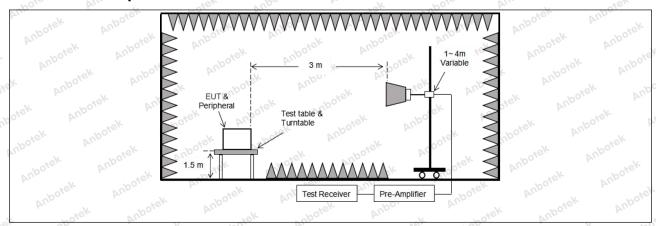






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12.2. Test Setup







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12.3. Test Data

Temperature: 24.1 °C	Humidity: 50 %	Atmospheric Pressure:	101 kPa
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Yur ok	hotek Anb		atek anbott	And	r hotek	Anbo.
			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.09	15.27	43.36	74.00	-30.64	Vertical
7206.00	29.09	18.09	47.18	74.00	-26.82	Vertical
9608.00	30.23	23.76	53.99	74.00	-20.01	Vertical
12010.00	Aupote * A	iek .	abořek Anb	74.00	otek Anbote	Vertical
14412.00	"Upo*sk	Anbo.	hoisk b	74.00	otek ont	Vertical
4804.00	28.38	15.27	43.65	74.00	-30.35	Horizontal
7206.00	29.60	18.09	47.69	74.00	-26.31	Horizontal
9608.00	28.63	23.76	52.39	74.00	-21.61	Horizontal
12010.00	otek * Aupo	-k 20	ick Aupote	74.00	· nbotek	Horizontal
14412.00	notek* An	bose Vinn	tek ab	74.00	ok hote	Horizontal
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	17.47	(db/iii)	32.74	54.00	-21.26	Vertical
7206.00	17.47 18.12 18.12	18.09	36.21	54.00	-17.79	Vertical
9608.00	19.25	23.76	43.01	54.00	-10.99	Vertical
12010.00	**	upotek An	20, 2K	54.00	bing.	Vertical o
14412.00	Aupo *	potek	Aupore Ac	54.00	ipotek Aupt	Vertical
4804.00	16.73	15.27	32.00	54.00	-22.00	Horizontal
7206.00	18.66	18.09	36.75	54.00	-17.25	Horizontal
9608.00	17.94 ho	23.76	41.70	54.00	-12.30	Horizontal
12010.00	* *	otek Aupot	N 200	54.00	Anbo	Horizontal
14412.00	4 ×	siek sul	Oton Pupp	54.00	ek Aupor	Horizontal



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				hotek	Anbor	
			ГМ1 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
Motek	Aupo	potek	upor Au	otek on	potek Anbo	Vertical
7323.00	28.94	18.02	46.96	74.00	-27.04	Vertical
9764.00	29.24	23.80	53.04	74.00	-20.96	Vertical
12205.00	ek * nbotek	Anbo.	, hotek	74.00	Ans	Vertical
14646.00	* * *	tek Aupote	Pur Vie	74.00	Aupo	Vertical
4882.00	28.08	15.42	43.50	74.00	-30.50	Horizontal
7323.00	29.59	18.02	47.61	74.00	-26.39	Horizontal
9764.00	28.33	23.80	52.13	74.00	-21.87	Horizontal
12205.00	* otek	Anbore	And	74.00	YUPO, OK	Horizontal
14646.00	P.T.	nbotek	Aupo.	74.00	Anbore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.20	15.42	32.62	54.00	-21.38	Vertical
7323.00	18.22	18.02	36.24	54.00	-17.76	Vertical
9764.00	19.11	23.80	42.91	54.00	-11.09	Vertical
12205.00	k ¥upor	N Diek	anboter	54.00	aborek	Vertical
14646.00	otek * Anboti	And	sk spojek	54.00	ki, pojek	Vertical
4882.00	16.64	15.42	32.06	54.00	-21.94	Horizontal
7323.00	18.22	18.02 A	36.24	54.00	-17.76	Horizontal
9764.00	18.45	23.80	42.25	54.00	11.75 And	Horizontal
12205.00	Anbotek	Anb.	botek	54.00	wotek a	Horizontal
14646.00	* botek	Anbo	D. C. C.	54.00	And	Horizontal





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er And	, siek	"upo,	VII.	-poter	And	ate ^K
		٦	ГМ1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.38	15.58	43.96	74.00		Vertical
7440.00	28.95	17.93	46.88	74.00	-27.12	Vertical
9920.00	29.79	23.83	53.62	74.00	-20.38	Vertical
12400.00	* Stek	anboren	Anb	74.00	Aupor	Vertical
14880.00	* Vup	iek upołek	Anbo	74.00	Anbore	Vertical
4960.00	28.15	15.58	43.73	74.00	-30.27	Horizontal
7440.00	29.62	17.93	47.55	74.00	-26.45	Horizontal
9920.00	29.01	23.83	52.84	74.00	-21.16	Horizontal
12400.00	Anb * * ek	abotek	Aupo, k	74.00	Anbore, An	Horizontal
14880.00	Alabo, ak	hotek	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	18.32	15.58	33.90	54.00	-20.10	Vertical
7440.00	19.23	17.93	37.16	54.00	-16.84	Vertical
9920.00	19.66	23.83	43.49	54.00	-10.51	Vertical N
12400.00	* * sboick	Aupor	hotek	54.00	Aug	Vertical
14880.00	* * *	sk Vupoje.	Ann	54.00	Vupo,	Vertical
4960.00	18.08	15.58 NO	33.66	54.00	-20.34	Horizontal
7440.00	19.59	17.93	37.52 M	54.00	-16.48	Horizontal
9920.00	18.35	23.83	42.18	54.00 And	±11.82	Horizontal
12400.00	* totek	Anbores	Aur Stek	54.00	100. br.	Horizontal
14880.00	An*	* Upotek	Anbo	54.00	Aupole	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(GFSK) 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 -----

