

Address

Report No.:1819C40036212501

FCC ID: 2BKTR-Y12

FCC Test Report

Applicant : Guangzhou Blue Light Electronic Technology

Co.,Ltd.

No 9, Meidong Industry Zone, Tieshanhe

Road,Huashan Town, Huadu District,

Guangzhou, GUANGDONG, China

Product Name : CD PLAYER

Report Date : Sept. 23, 2024

Shenzhen Anbotek







FCC ID: 2BKTR-Y12

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FCC ID: 2BKTR-Y12

TEST REPORT

Applicant : Guangzhou Blue Light Electronic Technology Co.,Ltd.

Manufacturer : Guangzhou Blue Light Electronic Technology Co.,Ltd.

Product Name : CD PLAYER

Model No. : Y12, A12, F01, F02, F03, F05, F06, F07, F08, F09

Trade Mark : THINKYA

Rating(s) : Input: 5V-2A(with DC 3.7V, 1800mAh Battery inside)

47 CFR Part 15.247

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

KDB 558074 D01 15.247 Meas Guidance v05r02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

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Revision History

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Aupore	Report Version	Description	Issued Date
Aup	spotek AriROO Arbos	Original Issue.	Sept. 23, 2024
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FCC ID: 2BKTR-Y12

1. General Information

1.1. Client Information

- M - 100°		
Applicant	:	Guangzhou Blue Light Electronic Technology Co.,Ltd.
Address	:	No 9,Meidong Industry Zone,Tieshanhe Road,Huashan Town, Huadu District, Guangzhou,GUANGDONG, China
Manufacturer	:	Guangzhou Blue Light Electronic Technology Co.,Ltd.
Address	:	No 9,Meidong Industry Zone,Tieshanhe Road,Huashan Town, Huadu District, Guangzhou,GUANGDONG, China
Factory	:	Guangzhou Blue Light Electronic Technology Co.,Ltd.
Address	:	No 9,Meidong Industry Zone,Tieshanhe Road,Huashan Town, Huadu District, Guangzhou,GUANGDONG, China

1.2. Description of Device (EUT)

"/po h.	N.	The state of the s
Product Name	:	CD PLAYER And And The
Model No.	:	Y12, A12, F01, F02, F03, F05, F06, F07, F08, F09 (Note: All samples are the same except the model number, so we prepare "Y12" for test only.)
Trade Mark	•	THINKYA And Tell House And Tell And Tell And Tell And Tell And
Test Power Supply	:	DC 5V from Adapter input AC 120V/60Hz, DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency		2402MHz to 2480MHz
Number of Channel	•	79 Andrew Andrew Andrew Andrew Andrew Andrew
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type		PCB Antenna
Antenna Gain(Peak)		-0.58dBi

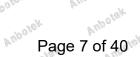
Remark:

- (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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Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequ (MF
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Anbott	2403	210010	2423	41 Anb	2443	61	246
2,0,0	2404	22 _{Mnbo}	2424	42	2444	62	246
3 4400	2405	otek 23	2425	43	2445	63	240
4	2406	24	2426	44	2446	64	246
1001015	2407	25	2427	45	2447,001	65 Anbox	246
6	2408	26	2428	46	2448	10 ^k 66 M	240
7 digital	2409	27	2429 ,,,,,,,	47	2449	100 67	246
8	4 2410 Anbolt	28	2430	100 ¹⁶ 48	2450	68	247
9 000	2411 N	29	2431	49	2451	69,010	24
10	2412	30	2432	50	2452	70	247
Anbort 11	2413	31	2433	51 nbols	2453	71	00 247
12	2414	32 nb 018	2434	52	o ^{tolk} 2454 An	72	24
13100100	2415	ok 33 _M /h	2435	53	2455	73	24
14 Anbc	2416	34	2436	54	2456	74	247
15 N	2417	35	2437	55	2457	75 ¹⁰⁰¹⁰⁰	247
16	2418	36 tok	2438	56	2458	76 And	24
17,0%	2419	37	2439	57 Anbo	2459	0010 ^K 77	247
18	2420	38	2440	o ^{vel*} 58 🏄	2460	78	248
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1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1k Andol	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Interest TM2 or the A	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
Ann Thotel TM3 Anbotel	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
AnbotekTM4 Anbotes	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
otek AntiTM5 Antion	Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.
Andolek TM6	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

1.6. Measurement Uncertainty

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Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz 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
Dwell time	2% Anbores Anthone Anbores An

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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Anboick 1.7. Test Summary

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Test Items	Test Modes	Status
Antenna requirement	Willow I Will Wolsk	Robo
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	P
Maximum Conducted Output Power	Mode1,2,3	Pilode
Channel Separation	Mode4,5,6	Pool
Number of Hopping Frequencies	Mode4,5,6	Р
Dwell Time Anbotek Anbotek	Mode4,5,6	Р
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	Р
Band edge emissions (Radiated)	Mode1,2,3	P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	Anbore P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	P

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FCC ID: 2BKTR-Y12

1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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

1.9. Disclaimer

- 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.
- The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 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.
- Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- The authenticity of the information provided by the customer is the responsibility of the customer 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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Report No.:1819C40036212501

FCC ID: 2BKTR-Y12

1.10. Test Equipment List

Aupolek	Cond	ucted Emission at A	C power line	Andolak	Vipolo	k holek	Wipolog.
AUDO	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
P	n ^{p 0} 10 ¹⁰	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
ipolek	2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
Vuporok	3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	VApoles	And Otak
o'up,	4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Dwell Time

Emissions in non-restricted frequency bands
Occupied Bandwidth

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
PUADIO,	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	pol ^{ek} N/A	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5,00	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



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Report No.:1819C40036212501

FCC ID: 2BKTR-Y12 Anbolek

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		edge emissions (Ra sions in frequency ba		Aupolek B	Viparak	Antolek Antolek	Will a William	
	Item	Equipment No.	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	6
/0°0	1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22]
2.9	2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16	100
	3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15	8.00
.o\4	4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Woolek	And order	
000	5	Horn Antenna	A-INFO DO PER	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11	N-
	6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05	,g 0°
	Z^{abc}	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06	0

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Up	Emiss	sions in frequency ba	ands (below 1GHz)	Vupa _{le.}	VII.	Anioolek	Aulto	8.
Vupo	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	N.
Vu,	1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	*10
	2	Pre-amplifier	SONOMA	310N N	186860	2024-01-17	2025-01-16	, o.
oke K	3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22	Vupo.
Aupole, of	4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11	P.
Augo	5	EMI Test Software EZ-EMC	SHURPLE	N/A Doles	N/A	otok / Anbore	/ Arlos	P/r
r.	Anbolis	k Wipolgu	Anbotok Anbo	Pupo	upolak	Anboiek An	ote, William	,botek

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2. Antenna requirement

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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.

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2.1. Conclusion

The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is -0.58dBi. It complies with the standard requirement.

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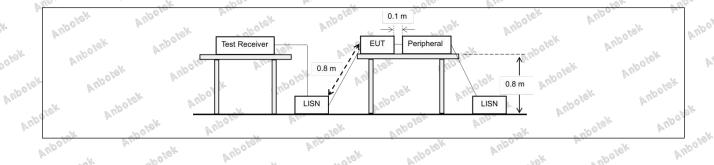
3. Conducted Emission at AC power line

"/c" 100, h.		- an	-M.				
Selek Aupolek I	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator t						
up all all all all all all all all all al	public utility (AC) power line, the radio frequency voltage that is conducted						
Test Requirement:	back onto the AC power line on an						
Aupolek Aupole	measured using a 50 μH/50 ohms	band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network					
"Potely Willes	(LISN)." Antion of the Antion	W. Ok apolow	Vun				
William Cole	Frequency of emission (MHz)	Conducted limit (dBµV)	alt alpollo.				
Top Winds	All	Quasi-peak	Average				
Test Limit:	0.15-0.5	66 to 56*	56 to 46*				
Jest Lillin.	0.5-5	56	46				
Jigk anbote.	5-30 Anth	60	50				
Vilga, " Clay	*Decreases with the logarithm of th	ne frequency.	-p0/8/4				
Test Method:	ANSI C63.10-2020 section 6.2	Motor Wiporg	Vi.				
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-				
3.1. EUT Operation	Aupotek Aupote Aupote	K Antolon Ann	upolek Aupol				

3.1. EUT Operation

Operating Env	1: TX-GFSK (N	on-Hopping): Keep SFSK modulation.	the EUT in co	ntinuously tran	smitting mode	(non-
Test mode:	2: TX-π/4-DQP	SK (Non-Hopping): with π/4 DQPSK m		in continuousl	y transmitting	mode
K Anbo alek	3: TX-8DPSK (Non-Hopping): Kee DPSK modulation.	p the EUT in c	ontinuously tra	nsmitting mode	e (non-

3.2. Test Setup









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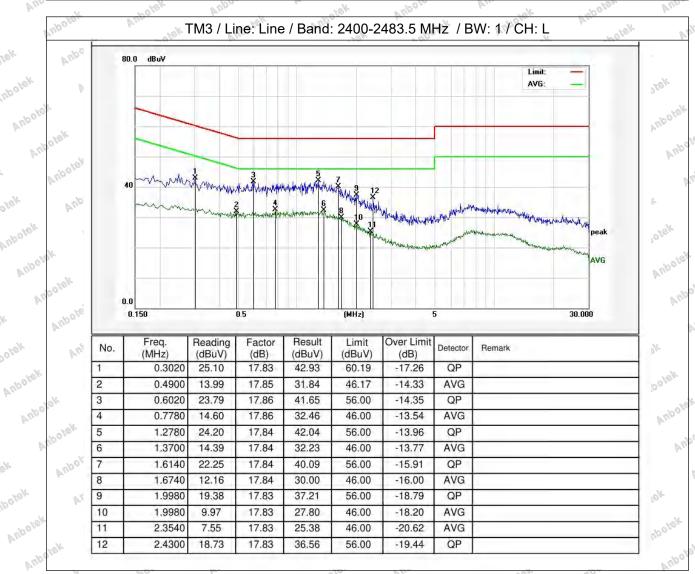
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3.3. Test Data

23.3 °C 101 kPa 52 % Atmospheric Pressure: Temperature: Humidity:





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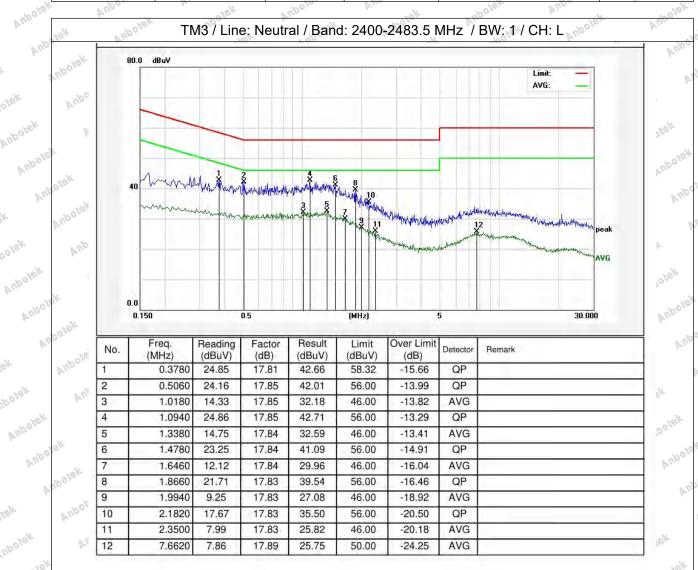
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Temperature:	23.3 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
7/8**	" Up -		100		- 874.



Note:Only record the worst data in the report.





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4. Occupied Bandwidth

W WOLLD	alek Auto
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
Aupolek Aupolek Aupolek Aupolek	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
Olek William Wolek W.	(OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the
Procedure: Antiotek	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
Stek Viljolek Vil	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
Anbotek Anbotek	placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
Aupotek Aupor	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	Total August Was The Table August All The

4.1. EUT Operation

Operating Env	ironment:	And a	* Alatodak	Anborn	W. Car	Anboles	8
Test mode:	1: TX-GF	SK (Non-Hopp	ing): Keep the	EUT in contir	nuously transmit	ting mode (no	n-







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hopping) with GFSK modulation.

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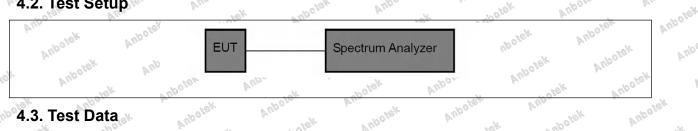
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- 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (nonhopping) with 8DPSK modulation.

4.2. Test Setup

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4.3. Test Data

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Temperature:	23.4 °C	Humidity	: 54 %	Atmosphe	ric Pressure:	101 kPa
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Please Refer to	Appendix for [Details.	anbolon.	VUD.	"polok	WUDO.

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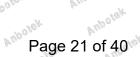
5. Maximum Conducted Output Power

	"poro" All	and the state of t
9	Test Requirement:	47 CFR 15.247(b)(1)
No.	Test Limit: Anbotek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
500	Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
	ofek Vupolek	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
	Anbotek Anbotek	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
	k Anbotok Anbos	hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW.
03.	Procedure:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold.
	Anborek Anborek	g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the
	Anbolok Anbol	emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
500	ek Anboien Ar	j) A spectral plot of the test results and setup description shall be included in the test report.
1	polek Anbolek	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
	W. Villa Villa Color	analyzer.

5.1. EUT Operation

Operating Envi	ronment:	Vu.	a nibolek	Wupper	, bolek	Anboto
Test mode:	hopping) with G 2: TX-π/4-DQPS (non-hopping) w 3: TX-8DPSK (N	on-Hopping): Keep FSK modulation. SK (Non-Hopping) vith π/4 DQPSK m Jon-Hopping): Kee DPSK modulation): Keep the E nodulation. ep the EUT i	UT in continue	ously transmittir	ng mode





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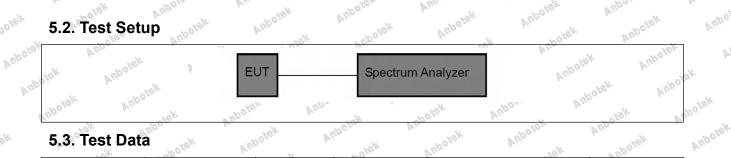
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5.3. Test Data

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5.3. Test Dat	a a noolek	Wupolok 's	Tupo por b	Arboiek Ar	poten.	A upotek
Temperature:	23.4 °C	Humidity:	54 %	Atmospheric	Pressure:	101 kPa
Please Refer to	Appendix fo	or Details. And the same	Anboundary	Anbolek	Anbolo col	Sk Wupolek

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Please Refer to Appendix for Details.

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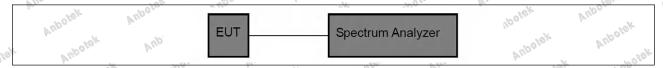
6. Channel Separation

- 100° P.	
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Andotek Andotek Andotek Andotek Andotek Andotek Andotek Andotek	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.
Procedure: https://www.	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
ek Anbolek Anbol	Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

6.1. EUT Operation

	Operating Envir	onment:	Wup Offer.	19 L	Vipolek	Wippe	"potok
	Wupoles.				T in continuous	ly transmitting n	node (hopping)
M.	alolole le		K modulation,.		ho EUT in conti	nuously transmi	tting mode
	Test mode:		with π/4 DQP			nuousiy iransini	turig mode
26	tek Ande					sly transmitting	mode (hopping)
	olek Wipo		SK modulation		VUD.	polek.	Wupor.

6.2. Test Setup



6.3. Test Data

Temperature: 23.4 °C Humidity: 54 % Atmospheric Pressure: 1	101 kPa
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Please Refer to Appendix for Details.







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Report No.:1819C40036212501

FCC ID: 2BKTR-Y12

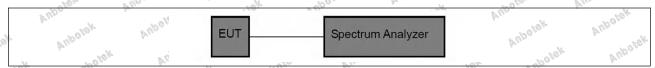
7. Number of Hopping Frequencies

700, 14.	- Christian Control of the Control o
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anborek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. 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
Polek Willolok	regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.
100	20x 8x.

7.1. EUT Operation

127.7	4.DV	_ 6W	W.	Lock V	gra-	
Operating Envir	onment:	worky.	Wup Ores	Vu.	a upo tek	Will an
k Alpolek	with GFSK	modulation,.	. W	n continuously to	Wille	Notok
Test mode:	(hopping) w	ith π/4 DQPSK	modulation.	"Olek Vupo	No.	lode Anio
Anboick Anbo		K (Hopping): K modulation.	eep the EUT	in continuously	transmitting n	node (hopping)

7.2. Test Setup



7.3. Test Data

Temperature:	23.4 °C	Anbo.	Humidity:	54 %	Atmospheric Pressure:	101 kPa	8
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Please Refer to Appendix for Details.





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Report No.:1819C40036212501 Anbolok

FCC ID: 2BKTR-Y12

8. Dwell Time

Aupolek	Test Requirement:	47 CFR 15.247(a)(1)(iii)
olek Anbolek	Test Limit: Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Aupole,	Test Method:	ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
a upojek Pul	Anbotek Anbotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.
ar arion	Wipolek Wipolek Dofek Wipolek Tr Wipole	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.
Wupo, Wupolek	ek Anbolek Anbolek Anbolek	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
anbolek Notek	Procedure:	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:
orek Vupe	upotek Vupotek Vupotek Vupotek	 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
Anbotek Anbotek	orek Anborek Anbor	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
²⁰ / ₀ / ₀ / ₀ / ₀	Aupotek Aupotek	channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at







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the end of the last transmission. The dwell time per hop is the time between these two markers.

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

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

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

8.1. EUT Operation

Operating Environment:

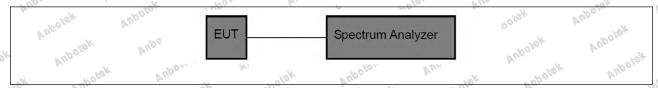
4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,...

Test mode:

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

Jr.	Temperature:	23.4 °C	Ann	Humidity:	54 %	Vup.	Atmosph	eric Pressure:	101 kPa	100
	L. U.	79		-440.	160				0	

Please Refer to Appendix for Details.









FCC ID: 2BKTR-Y12

9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Aupolek Vilpolek Vilpolek Vilpolek	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
Test Limit:	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 §
Test Method:	15.209(a) is not required. ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbore Antotek An	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
Anbotek Anbotek	measurements at the allocated band-edges which shall be repeated with hopping enabled. Connect the primary antenna port through an attenuator to the spectrum
lek Anbolek Ar	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
Aupotek Aupotek	be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure:	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
Kupotek Vupotek	required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.
Anbolek Anbo	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
Vipolek Vupolek	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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exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

7.8.7.2 Band-edges

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

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

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

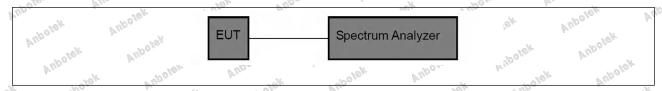
9.1. EUT Operation

Operating Environment:

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

9.2. Test Setup

Test mode:



9.3. Test Data

Temperature: 23.4 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa	VUDO
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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 I in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	oly with the
Wipolek Wipolek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Wupajan Yun	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Wugoog Wak	1.705-30.0	100 **	30
les Vipeles	88-216 216-960	150 ** 200 **	3 abotok
Test Limit:	Above 960 ** Except as provided in pa	500 ragraph (g), fundamental emissi	ions from
Anbolek Anbole	intentional radiators operati frequency bands 54-72 MH	ng under this section shall not b z, 76-88 MHz, 174-216 MHz or	e located in the 470-806 MHz.
Anbolek An	sections of this part, e.g., §		's bolek
olek Vupolek Vupolek	The emission limits shown employing a CISPR quasi-r	e, the tighter limit applies at the bein the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emise	measurements juency bands 9–
Wupa _{fak} Wupa _{fa}		d on measurements employing	
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M	7.70	Dolek Alpolek
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Spolek Wipos
10.1. EUT Operatio	n Antiotek Antion otek	Augora, Vuoden	Was alpostely. Wile

10.1. EUT Operation

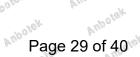
	Operating Envir	onment:	Vupa.	the state of the s	Vupo _{lo} ,	Vila	Will Otel
	V upa				EUT in contir	nuously transmitt	ing mode (non-
\4-	- Anboro		vith GFSK m DQPSK (No		p the EUT in	continuously tra	nsmitting mode
. 0	Test mode:	(non-hopp	ing) with π/4	DQPSK modula	ation.	holek Anb	2 h
97		3: TX-8DP	PSK (Non-Ho	pping): Keep the	EUT in cont	inuously transmi	tting mode (non-
	bolek Anbo	hopping) v	vith 8DPSK r	modulation.	10 k	"upolon	AMP



Hotline

www.anbotek.com

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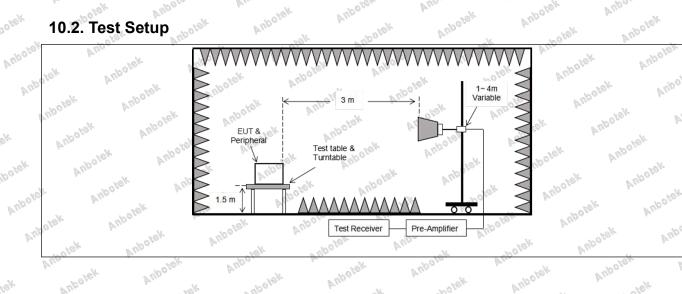
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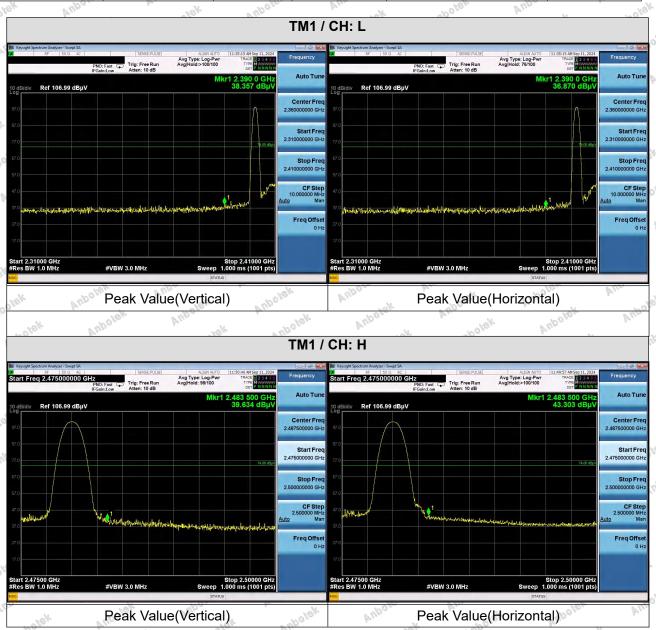




FCC ID: 2BKTR-Y12

10.3. Test Data

Temperature: 23.9 °C Humidity: 52 % Atmospheric Pressure: 101 kPa



Remark:

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1. During the test, pre-scan all modes, the report only record the worse case mode.

Note: When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.







FCC ID: 2BKTR-Y12

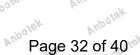
11. Emissions in frequency bands (below 1GHz)

Upolas Vun	Frequency (MHz)	Field strength	Measuremei
Aupolok Aupole	ley Wupoley Wupoles	(microvolts/meter)	distance (meters)
apole And	0.009-0.490	2400/F(kHz)	300
W.	0.490-1.705	24000/F(kHz)	30 NO
Pupos b	1.705-30.0	30 And	30
k hotek	30-88	100 **	3
Ofor Alle	88-216	150 **	3
alek anbore.	216-960	200 **	3 4p0 s
Test Limit:	Above 960	500 Market And	3
Vi.		aragraph (g), fundamental emiss ting under this section shall not b	
Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators opera frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	ting under this section shall not burners, 76-88 MHz, 174-216 MHz or these frequency bands is permit	be located in the 470-806 MHz. tted under other band edges. In measurement quency bands is soon limits in
Test Method:	intentional radiators opera frequency bands 54-72 Mł However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and these three bands are bas	ting under this section shall not be Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permit §§ 15.231 and 15.241. The tighter limit applies at the limit in the above table are based on the peak detector except for the free above 1000 MHz. Radiated emissed on measurements employing 16.6.4	be located in the 470-806 MHz. tted under other band edges. In measurement quency bands is soon limits in

11.1. EUT Operation

	Operating Envir	onment:	Anbo	POTOK	Vupole	View Stok	Wilpotely.
	A.Tibo				UT in conti	nuously transmi	tting mode (non-
V.	700/0"	hopping) w	ith GFSK mo	odulation.	Av.	tok "upo"	VII.
	Toot mode: walk	2: TX-π/4-[DQPSK (Nor	n-Hopping): Keep	the EUT in	n continuously tr	ansmitting mode
	Test mode:			DQPSK modulat		"O!O!	100,
) Y		3: TX-8DP	SK (Non-Ho	oping): Keep the	EUT in con	tinuously transn	nitting mode (non-
	abolek Anbu		ith 8DPSK n		, o _/	* upoler	Ann





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Report No.:1819C40036212501 Anbolek FCC ID: 2BKTR-Y12

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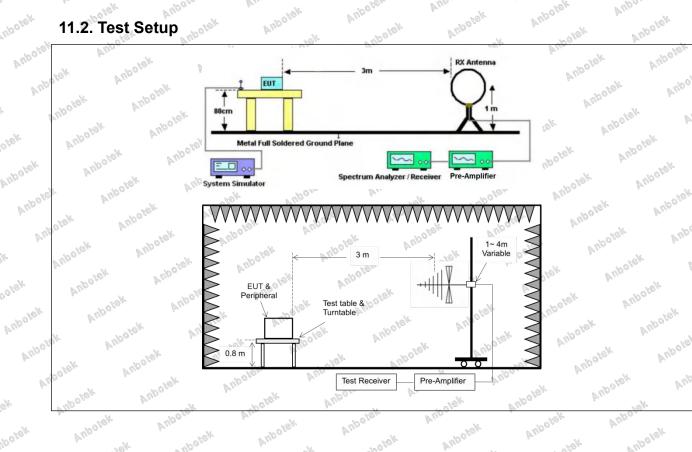
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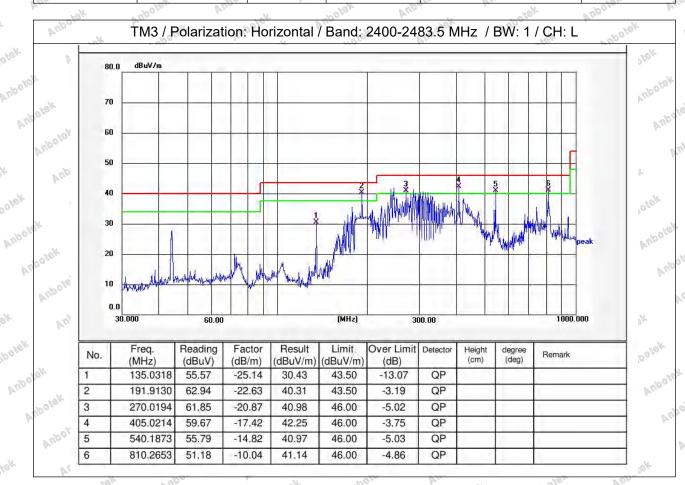


FCC ID: 2BKTR-Y12

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: 22.9 °C Humidity: 53 % Atmospheric Pressure: 101 kPa







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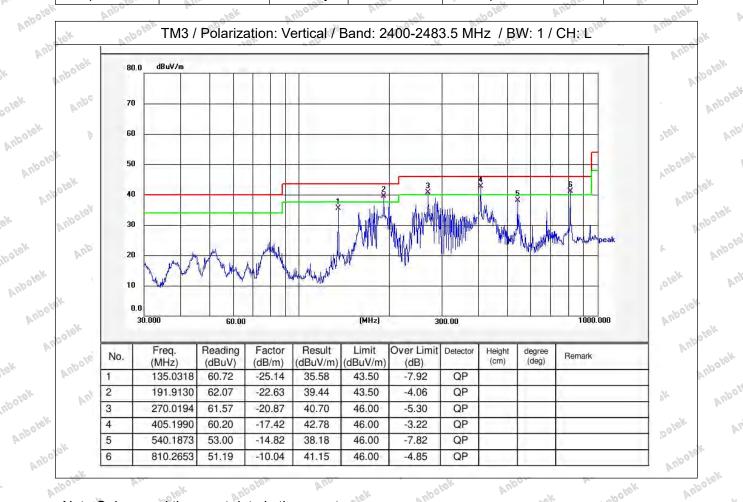
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Report No.:1819C40036212501

FCC ID: 2BKTR-Y12

Temperature: 22.9 °C Humidity: 53 % Atmospheric	Pressure: 101 kPa
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Note:Only record the worst data in the report.

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Report No.:1819C40036212501

FCC ID: 2BKTR-Y12

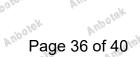
12. Emissions in frequency bands (above 1GHz)

V Lips		ons which fall in the restricted ba	
Test Requirement:	in § 15.205(a), must also co in § 15.209(a)(see § 15.205	omply with the radiated emission $\delta(c)$).	limits specified
Wpoley Wunder	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Aug dien Aug	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Williams Wille	1.705-30.0 30-88	30 100 **	30 3 10 10 10 10 10 10 10 10 10 10 10 10 10
otek Vupos	88-216 216-960	150 ** 200 **	3 abotek patrolek
Anbores Ans	Above 960	500	3 notek
Test Limit:	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emiss ng under this section shall not b z, 76-88 MHz, 174-216 MHz or	e located in the 470-806 MHz.
k Anbolok An	sections of this part, e.g., §	hese frequency bands is permit § 15.231 and 15.241. , the tighter limit applies at the b	's abole's
Anbotek Anbotek	The emission limits shown in employing a CISPR quasi-page 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	measurements juency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		Dolek Vipolek
Procedure:	ANSI C63.10-2020 section	6.6.4 o le l'annual de la contraction de la cont	Alpotek Augore
12.1. EUT Operation	n Autores Autores	Anbotek Anbo	Aupoles Aupoles

12.1. EUT Operation

	Operating Envir	onment:	yupo.	10 10 k	Wupolo	Vien	anbotek
	V Up a				EUT in contir	nuously transmittii	ng mode (non-
\4-	Wipole		with GFSK m		n the FUT in	continuously tran	smitting mode
	Test mode:			DQPSK modula		"olek Wulder	omitting mode
34		3: TX-8DF	PSK (Non-Ho	pping): Keep the	EUT in cont	tinuously transmit	ting mode (non-
	"POIGH WUDO	hopping) v	with 8DPSK r	modulation.	, e/A	"pole" V	Un





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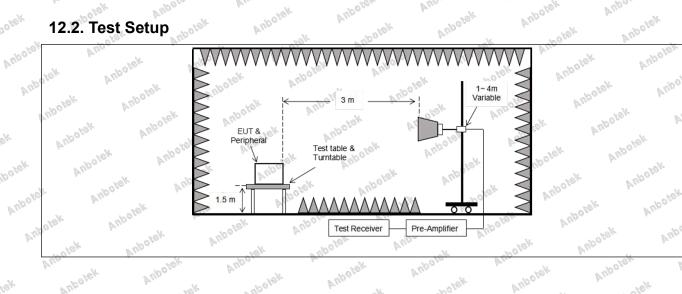
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Report No.:1819C40036212501 Anbolok

FCC ID: 2BKTR-Y12

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12.3. Test Data	W.Upojek	Vupojek	Aupolak	Augolek Tholek	Wupo, lek
Temperature: 23.3 °C	Humidity:	54.7 %	Atmospheri	c Pressure:	101 kPa

tok Aupoles	**************************************	- Kolok	Nup.	**************************************	W Up or	
ok Wilhous.		- VUP	TM3 / CH: L	k	**	
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	29.43	15.27	44.70	74.00	-29.30	Vertical
7206.00	30.20	18.09	48.29	74.00	-25.71	Vertical
9608.00	31.80	23.76	55.56	74.00	-18.44	Vertical
12010.00	* %	ek anbo	ick Vup.	74.00	otek Vupe	Vertical
14412.00	Olek * Milo	- A	solek ar	74.00	10/4	Vertical
4804.00	29.61	15.27	44.88	74.00	-29.12	Horizontal
7206.00	31.21	18.09	49.30	74.00	-24.70	Horizontal
9608.00	29.20	23.76	52.96	74.00	-21.04	Horizontal
12010.00	*\tho\te.	Plan.	100101	74.00	r dolog	Horizontal
14412.00	Volt * Nove	k Napo	1000	74.00	B-1-	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.81	15.27	34.08	54.00	-19.92	Vertical
7206.00	19.23	18.09	37.32	54.00	-16.68	Vertical
9608.00	20.82	23.76	44.58	54.00	-9.42	Vertical
12010.00	*	20 k 211	Often Ville.	54.00	hotek Ant	Vertical
14412.00	Woley * W	lo o	"Polok	54.00	in Cick	Vertical
4804.00	17.96	15.27	33.23	54.00	-20.77	Horizontal
7206.00	20.27	18.09	38.36	54.00	-15.64	Horizontal
9608.00	18.51	23.76	42.27	54.00	-11.73	Horizontal
12010.00	* * Anbores	Wille	A Authore	54.00	Node No	Horizontal
14412.00	* * *	ich Wings	N. N.	54.00 NO		Horizontal

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Report No.:1819C40036212501 Anbolok

FCC ID: 2BKTR-Y12

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"IGH "Up.	Hey Wupp.	You You	otek Anb	200	cotok Ar	Poles Vur
Anbo	abolok Ar	Pole W.	abolek	Auporen V.	no nek	Anbolek
40°	j6*	7	TM3 / CH: M	- dla	~12 m	No.
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	31.45 MAG	15.42	44.87	74.00 And	-29.13	Vertical 🔊
7323.00	30.05	18.02	48.07	74.00	-25.93	Vertical
9764.00	30.81	23.80	54.61	74.00	-19.39	Vertical
12205.00	Wipofe.	8 42 pm	8 11 10 10 K	74.00	1010 lelk	Vertical
14646.00	*10101	Pupo.	hotok.	74.00	P. F.	Vertical
4882.00	29.31	15.42	44.73	74.00	-29.27	Horizontal
7323.00	31.20	18.02	49.22	74.00	-24.78 not	Horizontal
9764.00	28.90 M	23.80	52.70	74.00	-21.30	Horizontal
12205.00	" Olok*	Vupope. V	lo.	74.00	Vup.	Horizontal
14646.00	Vun *	A No o tak	Vup.	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	18.54	3010 ¹⁶ 15.42 M ¹⁰	33.96	54.00	-20.04	Vertical
7323.00	19.33	18.02	37.35	54.00	-16.65	Vertical
9764.00	20.68	23.80	44.48	54.00	-9.52	Vertical
12205.00	* North	Vupor	B.	54.00	Ville	Vertical
14646.00	*	Viljoke.	VU _D	54.00	Willpes	Vertical
4882.00	17.87	15.42	33.29	54.00	-20.71 ······	Horizontal
7323.00	19.83 not	18.02	37.85 M	54.00	-16.15	Horizontal
9764.00	19.02	23.80	42.82	54.00	-11.18	Horizontal
12205.00	*	"Potek	Vupor !	54.00	Vupoles.	Horizontal
14646.00	Anbox*	No.	Anboren	54.00	ant otel	Horizontal
	Peak value: Frequency (MHz) 4882.00 7323.00 9764.00 12205.00 14646.00 4882.00 7323.00 9764.00 12205.00 14646.00 Average value: Frequency (MHz) 4882.00 7323.00 9764.00 12205.00 14646.00 4882.00 7323.00 9764.00 12205.00 14646.00 4882.00 7323.00	Peak value: Frequency (MHz) (dBuV) 4882.00 29.45 7323.00 30.05 9764.00 30.81 12205.00 * 14646.00 * 4882.00 29.31 7323.00 31.20 9764.00 28.90 12205.00 * 14646.00 * Average value: Frequency (MHz) (dBuV) 4882.00 18.54 7323.00 19.33 9764.00 20.68 12205.00 * 14646.00 * 4882.00 17.87 7323.00 19.83 9764.00 19.02 12205.00 *	Peak value: Frequency (MHz) (dBuV) (dB/m) 4882.00 29.45 15.42 7323.00 30.05 18.02 9764.00 30.81 23.80 12205.00 * 14646.00 * 4882.00 29.31 15.42 7323.00 31.20 18.02 9764.00 28.90 23.80 12205.00 * Average value: Frequency (MHz) (dBuV) (dB/m) 4882.00 18.54 15.42 7323.00 19.33 18.02 9764.00 20.68 23.80 12205.00 * 14646.00 * 4882.00 17.87 15.42 7323.00 19.83 18.02 9764.00 19.02 23.80 12205.00 *	TM3 / CH: M Peak value: Frequency (MHz) Reading (dBuV) Factor (dB/m) Result (dBuV/m) 4882.00 29.45 15.42 44.87 7323.00 30.05 18.02 48.07 9764.00 30.81 23.80 54.61 12205.00 * 4882.00 29.31 15.42 44.73 7323.00 31.20 18.02 49.22 9764.00 28.90 23.80 52.70 12205.00 * 4846.00 * Average value: Frequency (MHz) (dBuV) (dB/m) (dBuV/m) 4882.00 18.54 15.42 33.96 7323.00 19.33 18.02 37.35 9764.00 20.68 23.80 44.48 12205.00 * 44.48 12205.00 * 33.29 7323.00 19.83 18.02 37.85 9764.00 19.02 23.80 42.82	TM3 / CH: M Peak value: Frequency (MHz) Reading (dBuV) Result (dBuV/m) Limit Line (dBuV/m) 4882.00 29.45 15.42 44.87 74.00 7323.00 30.05 18.02 48.07 74.00 9764.00 30.81 23.80 54.61 74.00 12205.00 * 74.00 74.00 4882.00 29.31 15.42 44.73 74.00 7323.00 31.20 18.02 49.22 74.00 9764.00 28.90 23.80 52.70 74.00 12205.00 * 74.00 74.00 Average value: * 74.00 Frequency (MHz) Reading (dBuV) Result (dBuV/m) (dBuV/m) 4882.00 18.54 15.42 33.96 54.00 7323.00 19.33 18.02 37.35 54.00 12205.00 * 54.00 54.00 14646.00 * 54.00 14646.00	TM3 / CH: M Peak value: Frequency (MHz) Reading (dBuV) Factor (dBuV) Result (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) 4882.00 29.45 15.42 44.87 74.00 -29.13 7323.00 30.05 18.02 48.07 74.00 -25.93 9764.00 30.81 23.80 54.61 74.00 -19.39 12205.00 * 74.00 -40.00 -19.39 12205.00 * 74.00 -29.27 7323.00 31.20 18.02 49.22 74.00 -29.27 7323.00 31.20 18.02 49.22 74.00 -24.78 9764.00 28.90 23.80 52.70 74.00 -21.30 12205.00 * 74.00 -21.30 -21.30 4882.00 18.54 15.42 33.96 54.00 -20.04 7323.00 19.33 18.02 37.35 54.00 -9.52 12205.00 <td< td=""></td<>

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FCC ID: 2BKTR-Y12

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			TM3 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.72	15.58 nb	45.30	74.00 M	-28.70	Vertical
7440.00	30.06	17.93	47.99	74.00	-26.01	Vertical
9920.00	31.36	23.83	55.19	74.00	-18.81	Vertical
12400.00	100 to 16	Vupo.	"Olok	74.00	91112	Vertical
14880.00	*	Anbole.	Wille	74.00	V4000	Vertical
4960.00	29.38	15.58	44.96	74.00	-29.04	Horizontal
7440.00	31.23	17.93	49.16	74.00	-24.84	Horizontal
9920.00	29.58	23.83	53.41	74.00	-20.59	Horizontal
12400.00	*	apolek b	Up a grant	74.00	Vupo _{log} V	Horizontal
14880.00	Wupot *		Anbolok	74.00	" upoles.	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	19.66	15.58	35.24	54.00	18.76 M	Vertical
7440.00	20.34	17.93	38.27	54.00	-15.73	Vertical
9920.00	21.23	23.83	45.06	54.00	-8.94	Vertical
12400.00	*****	2 40 to k	NU30	54.00	Mupole	Vertical
14880.00	1 1/1 × 0 × 1	polok.	Vupole	54.00	V Lip O lok	Vertical
4960.00	19.31	15.58	34.89	54.00	-19.11 ₁₀ 16	Horizontal
7440.00	21.20 00	17.93	39.13	54.00 MOO	-14.87	Horizontal
9920.00	18.92	23.83	42.75	54.00	-11.25 Ani	Horizontal
12400.00	Wholes * W	-6K	anboiek	54.00	Notok	Horizontal
14880.00	100 NON	Vulcas	Fig.	54.00	V4	Horizontal

Remark:

- 1. Result =Reading + Factor
- Test frequency are from 1GHz to 25GHz, "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.
- 3. Only the worst case is recorded in the report.





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Report No.:1819C40036212501 FCC ID: 2BKTR-Y12

APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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