

Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 1 of 39

FCC Test Report

Applicant : DGL Group LTD.

Address 2045 Lincoln Highway, 3rd Floor, Edison, NJ

08817, United States

Product Name : Wireless Karaoke Speaker Mic

Report Date : Sep. 06, 2023

Shenzhen Anbotek Compliance Laboratory Limited







Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 2 of 39

Contents

	ral Information	900					VUR.	```مىرىيىن	6
1.1.	Client Information Description of Device (E	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	upo _{ter}	Anu	(a)t	ioo _{tek}	Anbo,	18 ₁ VU	
1.3	Auxiliary Equipment Use	d During Te	est						
1.4.	Channel List Description of Test Mode	, rek		b.	·		V.		7
1.5.	Measurement Uncertain Test Summary	ty	Au		pt)	امر	0000	Vilo.	8
1 Q	Description of Test Facili	ify spo							1
1.9.	Disclaimer		pojek	40 ⁰ 000			H.pojek	VUD.	
M.104	0. Test Equipment List	o, k	aborek	Anbo'	24	hotek	Anbo	ek kup	10
2. Anten	na requirement		Vi.	K. Ar	,o'\"	400	k an	0040k	.,\12
o ^{ten} 2.1.	Conclusion	Arbore	Arr	otek	AUDOJEK		otek	nbotek.	12
3. Cond	ucted Emission at AC pov	wer line	-K	notek	Anbotek	bo ₂	-rek	r. abolek	13
3.1. 3.2	EUT Operation Test Setup	io _{dn} a	<u></u>	no rek	anboy	,	"po,	Ar. abote	13 _ا ، 13
3.3.	Test Data		oo _{fe} ,	VUD.	ş	otek	Anbo.	//	1 ₄
4. Occu	pied Bandwidth		pupolek .	Anbo	8/r	, abotek	Aupore	An.	16
4.1.	Conclusion		Aribotel	k Anl			L PUC	ore A	17
4.2. 4.3.	Test Setup Test Data	- PUL - Olek	, dnp.	,,ek			otek l	YUPOJE.	₉ 10 17
5. Maxir	num Conducted Output P	ower	3K	obotek	Vupo,	K	botek	Anboie	18
5.1.	num Conducted Output P	VUD	, ek	anbotek	Aupor	۹	, ootek	Anboten	18
5.2	Test Setun			-0					~0°
AUD.	Test Data		botek	Aupoy	···	ajeK	vupole,		19 19
6. Chan	Test Datanel Separation		Nipotek Pupotek	Anboli Anb	otek l	'upote _k	op)		19 19 20
6. Chan 6.1.	Test Datanel Separation	Aupolek Polak	Autootek Autootek	Anbo Anb	o ^{tek} l	unpotek Vupotek Vupotek	^{oro} otaa Va _{na}		19 19 20
6. Chan 6.1. 6.2.	Test Data nel Separation EUT Operation Test Setup	Anbolek Anbolek	Arreotek Arreotek Arreo	ek l	otek Inbotek	Anbore	yay.	epotek Ar	19 20 20
6.3	Test Data nel Separation EUT Operation Test Setup Test Data	Aupolek Emporek	Artootek Artootek		upo _{tek}	nbotek Anbotek Anbo	sek pole	otek Arbosek	19 20 21
6.3.	Test Data nel Separation EUT Operation Test Setup Test Data	Auporek Managaria	Viloo	potek	otek p nbotek Anbotek Anbotek	Anburek Anburek Anbo		K Arbovek	19 20 2' 2'
6.3.	Test Data nel Separation EUT Operation Test Setup Test Data	Auporek Managaria	Viloo	potek	otek p nbotek Anbotek Anbotek	Anburek Anburek Anbo		K Arbovek	19 20 2' 2'
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Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 3 or	f 39
10. Band edge emissions (Radiated)	28
10.1. EUT Operation	28 28
10.3. Test Data	29
11. Emissions in restricted frequency bands (below 1GHz)	31
11.1. EUT Operation	31
11.3. Test Data	33
12. Emissions in restricted frequency bands (above 1GHz)	35
12.1. EUT Operation	35
12.2. Test Setup	35 36
APPENDIX I TEST SETUP PHOTOGRAPH	39
APPENDIX II EXTERNAL PHOTOGRAPH	39 30





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 4 of 39

TEST REPORT

Applicant : DGL Group LTD.

Manufacturer : DGL Group LTD.

Product Name : Wireless Karaoke Speaker Mic

Test Model No. : KRK-HOL23

Reference Model No. : DG-KRK-HOL23, DG-KRK-XXX, BMI-KRK-ASST, BMI-KRK-XXX ("XXX"

can be letters "A-Z", means different colors)

Trade Mark : N/A

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

Test Standard(s) : 47 CFR Part 15.247 2022

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:	Jul. 28, 2023
Date of Test: Jul	. 28, 2023 to Aug. 09, 2023
	Nian Xiu Chen
Prepared By: Andrew Andrew	otek Auborn WIII.
	(Nianxiu Chen)
	21,112
otek Anbotek Anbotek Anbotek Anbotek	Bolward pan
Approved & Authorized Signer:	An otek anbotek Anbo
	(Edward Pan)







Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 5 of 39

Revision History

	Report Version	Description	Issued Date
	Anbore R00 potek Ant	Original Issue.	Sep. 06, 2023
9,	Anbotek Anbotek	Anbotek Anbotek Anbotek	Anbotek Anbotek Ant
10	ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anbotek





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 6 of 39

1. General Information

1.1. Client Information

Applicant	: DGL Group LTD.	in-
Address	: 2045 Lincoln Highway, 3rd Floor, Edison, NJ 08817, United States	V.,
Manufacturer	: DGL Group LTD.	. b.,
Address	: 2045 Lincoln Highway, 3rd Floor, Edison, NJ 08817, United States	tek.
Factory	: DGL Group LTD.	-otek
Address	: 2045 Lincoln Highway, 3rd Floor, Edison, NJ 08817, United States	in otek

1.2. Description of Device (EUT)

-046	Aug to the state of the state o
:	Wireless Karaoke Speaker Mic
:	KRK-HOL23
:	DG-KRK-HOL23, DG-KRK-XXX, BMI-KRK-ASST, BMI-KRK-XXX ("XXX" can be letters "A-Z", means different colors) (Note: All samples are the same except the model number and appearance color, so we prepare "KRK-HOL23" for test only.)
:	N/A Anborek Anborek Anborek Anborek Anborek Anborek
:	AC 120V, 60Hz for Adapter/ DC 3.7V battery inside
:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
:	N/Atek Anborek Anborek Anborek Anborek
:	2402MHz to 2480MHz
:	79 Channels
:	GFSK, π/4-DQPSK, 8-DPSK
:	PCB Antenna
	-0.6 dBi
	:

Remark:

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

1.3. Auxiliary Equipment Used During Test

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







Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 7 of 39

1.4. Channel List

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
00 dek	2402	17	2419	34	2436	ex 51 ans	2453	68 _k	2470
01,,,,,,	2403	18	2420	35	2437	52	2454	69	2471
× 02 📈	2404	19 _{.k}	2421	36×nb0	2438	53	2455	70	2472
o ¹ 03	2405	20	2422	37 A	2439	54	2456	71 Amb	2473
04	2406	21	2423	1001ek	2440	55,000	2457	72	2474
05	2407	22	2424	39	2441	56	2458	73 _k	2475
06 door	2408	23	2425	40°10'	2442	57	2459	74	2476
× 07 m	2409	24	2426	41, nbot	2443	58	2460	75	2477
80°s	2410	25	2427	^{ek} 42 M	2444	59	2461	76 no	2478
09	2411	26	2428	o ^{tel} 43	2445	60,00	2462	77 A	2479
10	2412	27 Anio	2429	44	2446	61	2463	78	2480
11,000	2413	28	2430	45	2447	62	2464		Anhe
12	2414	29	2431	46,00°	2448	63	2465		ATT
13	2415	30	2432	ek 47 Ant	2449	64	2466		
14	2416	31	2433	o ^{ce 4} 48	2450	65 tek	2467		
15	2417	32	2434	49	2451	66	2468	030	Anbor otek
16	2418	33	2435	50	2452	67	2469		Aupu,

1.5. Description of Test Modes

Pretest Modes	Descriptions
Andorek TM1 rek Ando	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Anborek TM2 nooren Ar	Keep the EUT in continuously transmitting mode (non-hopping) with π/4-DQPSK modulation.
TM3 Anborek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Inbotes TM5 tek Anbot	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ -DQPSK modulation.
Andrew TM6, boyet An	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 8 of 39

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	Anbote Anbote Anbote
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB
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.

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anboteky Anboten	Panb
Conducted Emission at AC power line	Mode1,2,3	P Ant
Occupied Bandwidth	Mode1,2,3	pore P
Maximum Conducted Output Power	Mode1,2,3	Anbor P. ak
Channel Separation	Mode4,5,6	Pub.
Number of Hopping Frequencies	Mode4,5,6	P. Post
Dwell Time	Mode4,5,6	P Anb
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	Pose P
Band edge emissions (Radiated)	Mode1,2,3	Aupote P
Emissions in restricted frequency bands (below 1GHz)	Mode1,2,3	Aut B
Emissions in restricted frequency bands (above 1GHz)	Mode1,2,3	Poole
Note: P: Pass N: N/A not applicable	Anbotek Anbot	lotek Pup.



Hotline



Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 9 of 39

1.8. Description of Test Facility

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

FCC-Registration No.:184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

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.





Page 10 of 39 Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK

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	2022-10-23	2023-10-22
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	2022-10-13	2023-10-12
4	RF Switching Unit	Compliance Direction	RSU-M2	38303	2022-10-22	2023-10-21
5	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	potek / Aupo	Lotek / Anbote

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

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

Hotline



Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 11 of 39

	edge emissions (Ra sions in restricted fre	ndiated) equency bands (above	e 1GHz)	Aupo, Upotek	Anbotek	Aupore, Au
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2022-10-13	2023-10-12
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nb ⁰ 1	EMI Test Software EZ-EMC	SHURPLE	N/A**	N/A	Andorek	Aupotek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
*e [¥] 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emiss	sions in restricted fre	quency bands (below	1GHz)	Aughotek	Anbotek	Anbo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Andorel	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	AU Jose	Andorek



Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 12 of 39

2. Antenna requirement

Test Requirement:

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

2.1. Conclusion

The antenna is a **PCB Antenna** which permanently attached, and the best case gain of the antenna is **-0.6 dBi**. It complies with the standard requirement.





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 13 of 39

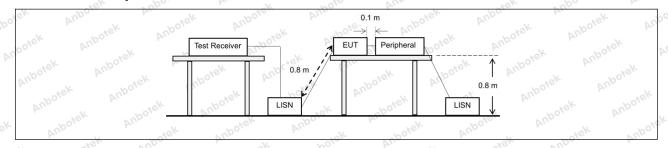
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the raback onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage tha y frequency or frequencie exceed the limits in the f	nnected to the at is conducted es, within the following table, as
Nupotek Bupo,	Frequency of emission (MHz)	Conducted limit (dBµV)	ek spotek
hotek Anbore	All stek anbotek Anot	Quasi-peak Quasi-peak	Average
Ant botek	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 both Amb	56	46, 1
k potek Anbor	5-30 AV	60 v	50
And otek only	*Decreases with the logarithm of the	ne frequency.	Anborek Anbo
Test Method:	ANSI C63.10-2020 section 6.2	Anborek Anbo	Sporek P
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-

3.1. EUT Operation

Operating Environment:	K hotek Anbotek Anbotek Anbotek Anbote An
otek Anbotek Anbot	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
tek supores Au	2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously
Test mode:	transmitting mode (non-hopping) with π/4-DQPSK modulation.
hotek Anbo.	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting
Ans abotek	mode (non-hopping) with 8DPSK modulation.
Aupor An.	upoter And ak botek Anbort All tek upoter

3.2. Test Setup



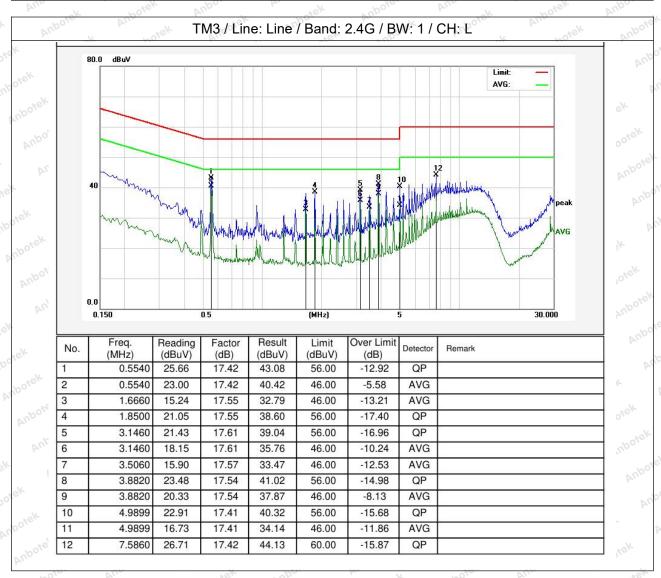




Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 14 of 39

3.3. Test Data

Temperature: 22.1 °C Humidity: 50 % Atmospheric Pressure: 99 kPa

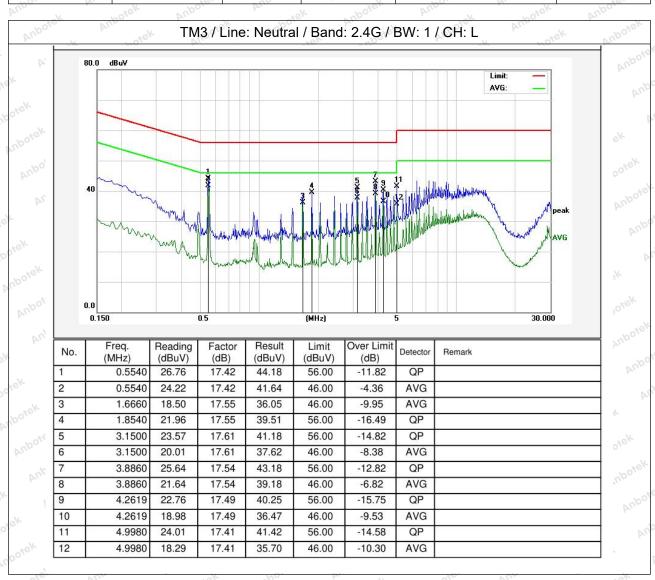






Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 15 of 39

Temperature: 22.1 °C Humidity: 50 % Atmospheric Pressure: 99 kPa



Note: Only record the worst data in the report.







Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 16 of 39

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





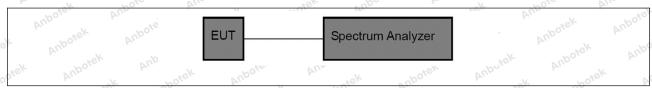


Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 17 of 39

4.1. EUT Operation

Operating Environment:	Anbotek Anbotek Anbote Anti-
Anbotek Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously
Test mode:	transmitting mode (non-hopping) with π/4-DQPSK modulation.
otek Anbote And	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
inbotek Anbo	Potek Wipole Wur Stek Wolek Wipolek Wilson Mr. Potek

4.2. Test Setup



4.3. Test Data

Temperature:	24.8 °C	botel	Humidity:	48.7 %	rek	Atmospheric Pressure: 102 kPa	
D			· · · · · · · · · · · · · · · · · · ·	10/2			

Please Refer to Appendix for Details.







Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 18 of 39

5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: ek Anborek Anborek Anborek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, 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
botek Anbotek	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

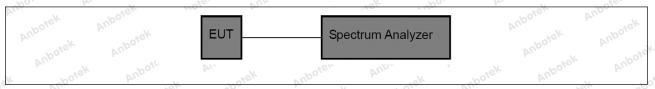
Operating Environment:	Anbore Anborek Anborek Anborek Anborek
Anbotek Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously
Test mode:	transmitting mode (non-hopping) with π/4-DQPSK modulation.
tek Anbotek Anbot	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
Lotek Anbore. Ans	tek upotek Anbo ok potek Anbote Ane





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 19 of 39

5.2. Test Setup



5.3. Test Data

Temperature:	24.8 °C	Humidity:	48.7 %	Atmospheric Pressure:	102 kPa
Tomporataro.	·	i i di i ii di i j	10.1.70	/ tarrioopriorio i roccaro.	102 111 001

Please Refer to Appendix for Details.





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 20 of 39

6. Channel Separation

Wpo, k.	- Post VIII Page Public Control of the Post Post
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: 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
Anborek	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 Environment:	The state of the s
mootek Anbotek Ant	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
-hotek Anbore	5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting
Test mode:	mode (hopping) with π/4-DQPSK modulation.
abore. And	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode
Ar. stek anboter	(hopping) with 8DPSK modulation.
Anbo	Anbores And Lek abortek Anbo

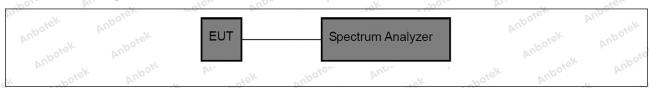






Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 21 of 39

6.2. Test Setup



6.3. Test Data

20	5/2	- V	1007	711.	700
│ Temperature: ○	24 8 °C	Humidity:	48.7 %	Atmospheric Pressure:	102 kPa
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Please Refer to Appendix for Details.





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 22 of 39

7. Number of Hopping Frequencies

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 7.8.3
Anborek	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 regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

7.1. EUT Operation

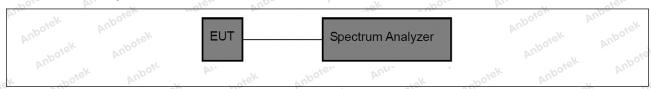
,01	Operating Environment:	otek Anbotek Anbotek Anbotek Anbotek An
70	potek Anbotek	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
	Test mode:	5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4-DQPSK modulation.
6	Anbotek Anbotek	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.
-81	ek abotek Anbo	K hotek Anbote, And tek obotek Anbo, An





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 23 of 39

7.2. Test Setup



7.3. Test Data

10	Temperature: ott	24 8 °C	Humidity:	48.7 %	Atmospheric Pressure:	102 kPa
	remperature.	24.6 C	Trufflicity.	40.7 70	Authospheric Flessule.	IUZ KFA

Please Refer to Appendix for Details.





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 24 of 39

8. Dwell Time

All All All	Tobotek Ando Karek Andore An sek abotek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek 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.
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 hop: a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be
	set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the
	last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this.
nbotek Anbotek Anbotek	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









Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 25 of 39

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.

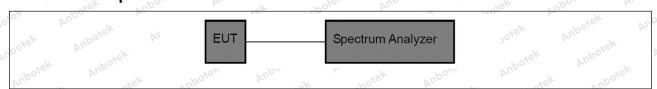
The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time 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:	k hotek Anbotet Anb
otek Anbotek Anbot	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
hotek Anbote, An	5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting
Test mode:	mode (hopping) with π/4-DQPSK modulation.
Spoter Aug	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode
Vir. Vipoter	(hopping) with 8DPSK modulation.
Anbo	anbore And ak shotek Anbor A stek anbore

8.2. Test Setup



8.3. Test Data

-	Temperature:	24.8 °C	Humidity:	48.7 %	Atmospheric Pressure:	102 kPa
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Please Refer to Appendix for Details.







Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 26 of 39

9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
Anbotek Anbotek Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7
	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.
	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure: Anborek Anborek Anborek	The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.
	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth







Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 27 of 39

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.

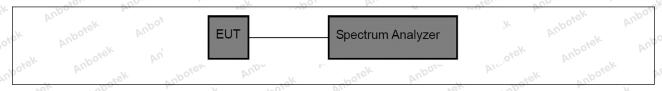
For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

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:	ak Anbor Ak botek Anbotek Anborek Anbo
diek Aupo	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting
otek anbore An	mode (non-hopping) with GFSK modulation.
Albo K. Stek	2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously
shotek Anbo	transmitting mode (non-hopping) with π/4-DQPSK modulation.
All sek	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting
Aupo, V.	mode (non-hopping) with 8DPSK modulation.
Test mode:	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode
And ok hore	(hopping) with GFSK modulation,.
Jek Anboie, And	5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting
r. Stek oup	mode (hopping) with π/4-DQPSK modulation.
potek Anbo	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode
iek abotek	(hopping) with 8DPSK modulation.
Aupor Air.	Anboret Anborek Anbore All Otek Anboren

9.2. Test Setup



9.3. Test Data

Temperature: 24.8 °C Humidity: 48.7 % Atmospheric Pressure: 102 kPa	
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Please Refer to Appendix for Details.







Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 28 of 39

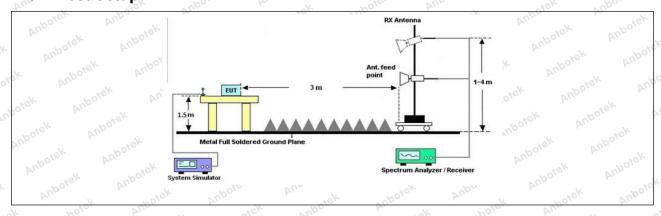
10. Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).			
k Aupotek Aupon	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	
o. h. ciek	0.009-0.490	2400/F(kHz)	300 Mboro	
abover Ando	0.490-1.705	24000/F(kHz)	30	
y, otek vupoter	1.705-30.0	30° kek 000°	30	
Anbo	30-88	100 **	3rek nobore	
- whoten Anbe	88-216	150 **	3	
Test Limit:	216-960	200 **	3botes And	
Vupo, W	Above 960	500 Morell Ambou	3 rek who	
otek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	e located in the 470-806 MHz.	
Test Method:	ANSI C63.10-2020 section	6.10 Anbo, Ak hotek	Anbore. And	
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Anbotek Anbo	

10.1. EUT Operation

Operating Environment:	Anboy An hotek Anbotes Ann stek Anbotek Anboy
Anbotek Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
	2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously
Test mode:	transmitting mode (non-hopping) with π/4-DQPSK modulation.
ek spotek Anbe	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting
All sek	mode (non-hopping) with 8DPSK modulation.
potek Anbor Ar.	otek Anbores Anb ek sporek Anbor Ar otek

10.2. Test Setup





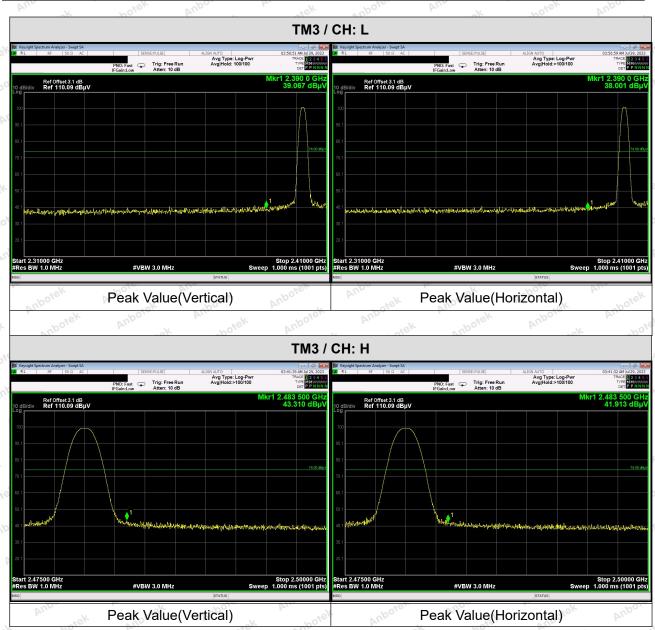




Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 29 of 39

10.3. Test Data

Temperature: 24.8 °C Humidity: 48.7 % Atmospheric Pressure: 102 kPa









Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 30 of 39

Average:

Test Mode	Peak Value (dBuV/m)	DCCF	Average Value (dBuV/m)	Limit (dBuV/m)	Polarization	Verdict
TMOVOLL	39.067	-2.14	36.923	54.00	Vertical	Pass
TM3 / CH: L	38.001	-2.14	35.857	54.00	Horizontal	Pass
TM2 / CU: U	43.310	-2.20	41.114	54.00	Vertical	otel Pass
TM3 / CH: H	41.913	-2.20	39.717	54.00	Horizontal	Pass

Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 1. DCCF=20log(Duty Cycle)
- 2. Average Value=Peak Value+DCCF





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 31 of 39

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

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
stek Vupotek Vupot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. K. P. Ciek	0.009-0.490	2400/F(kHz)	300 Mbore
aborek Ando	0.490-1.705	24000/F(kHz)	30
viek vupoje,	1.705-30.0	30° h	30
Aupo K. Lotek	30-88	100 **	3,ek nbore
To attition it.	88-216	150 **	3
Test Limit:	216-960	200 **	3 botes And
Aupo	Above 960	500 Morel Andour	3 rek
Upotek Aupotek Vipotek Vipotek Vipotek Vipotek Vipotek Vipotek Vipotek Vipotek Vipotek Vipotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4 mbode	Anbores Anbo
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore And Sotek	Anboten Anb

11.1. EUT Operation

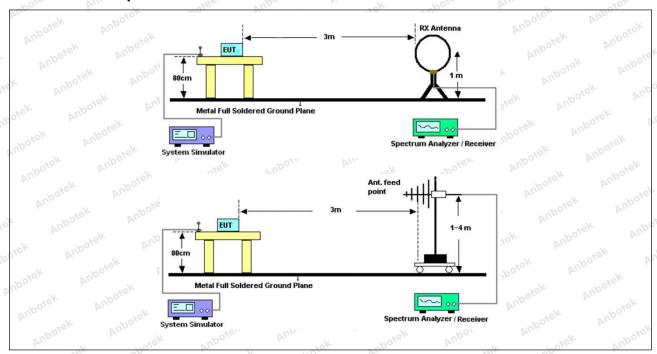
Operating Environment:	Anbor Anborek Anborek Anborek Anbor
Anbotek Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously
Test mode:	transmitting mode (non-hopping) with π/4-DQPSK modulation.
ek abotek Anbo	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting
Al.	mode (non-hopping) with 8DPSK modulation.
potek Aupo, Ai.	otek Anbores And ak sportek Anbor An





Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 32 of 39

11.2. Test Setup



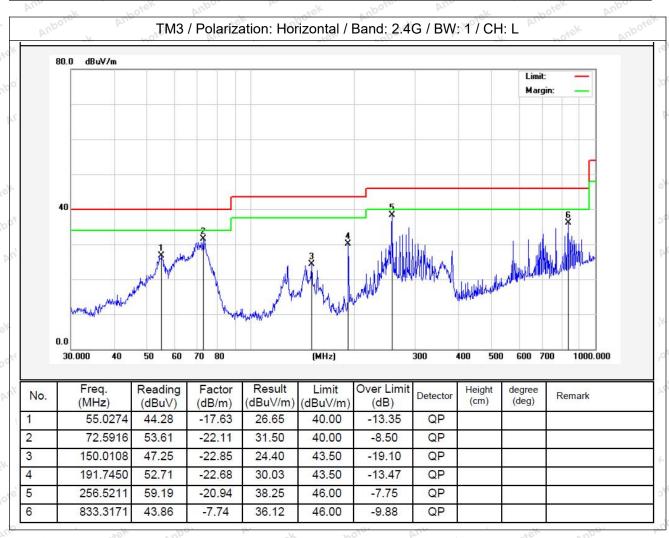




FCC ID: 2AANZDGKRK Report No.: Page 33 of 39 18220WC30155601

11.3. Test Data

Temperature: 24.8 °C	Humidity: 48.7	% Atmospheric Pressure	: 102 kPa
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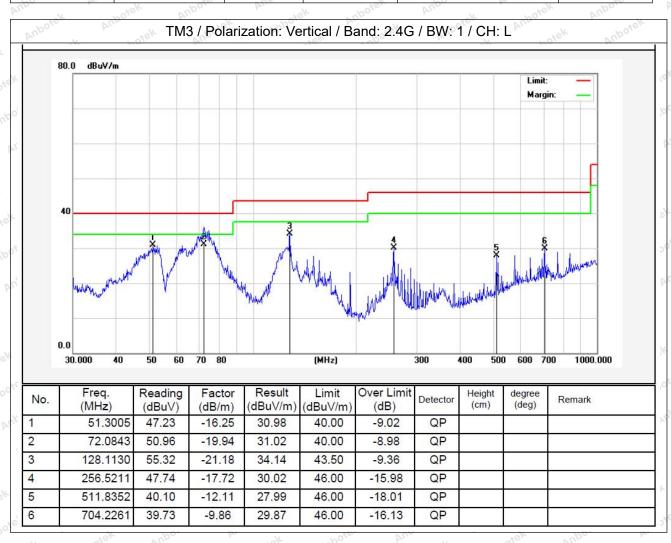






Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 34 of 39

Temperature: 24.8 °C Humidity: 48.7 % Atmospheric Pressure: 102 kPa



Note: Only record the worst data in the report.







Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 35 of 39

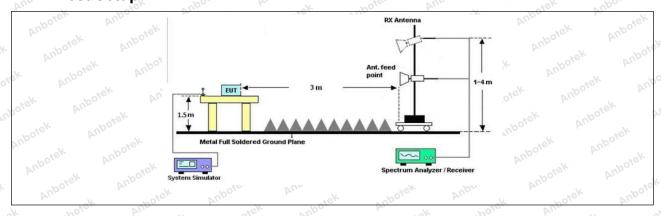
12. Emissions in restricted frequency bands (above 1GHz)

Test Requirement:	-10	ons which fall in the restricted background $5(c)$.	- 10
ek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
oo. h. hotek	0.009-0.490	2400/F(kHz)	300
"upoten Aug	0.490-1.705	24000/F(kHz)	30
atek Anboie.	1.705-30.0	30	30
Anbo	30-88	100 **	3,ek nbore
Tartification And	88-216	150 **	3
Test Limit:	216-960	200 **	3 bote And
Aupo, W.	Above 960	500 Mark Anbou	3 stek and
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4 Andrew	Aupore. Aug
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore America	Anbotek Anbo

12.1. EUT Operation

Operating Environment:	Anbor Anborek Anborek Anborek Anbor
Anbotek Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously
Test mode:	transmitting mode (non-hopping) with π/4-DQPSK modulation.
ek abotek Anbo	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting
Al.	mode (non-hopping) with 8DPSK modulation.
potek Aupo, Ai.	otek Anbores And ak sportek Anbor An

12.2. Test Setup









Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 36 of 39

12.3. Test Data

Temperature: 24.8 °C	Humidity: 48.7 %	Atmospheric Pressure:	102 kPa
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		•	TM3 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.66	15.27	43.93	74.00	-30.07	Vertical
7206.00	29.57	18.09	47.66	74.00	-26.34	Vertical
9608.00	30.91	23.76	54.67	74.00	-19.33	Vertical
12010.00	Vupoje,* Vi	.ek	abořek Anb	74.00	oiek Anboir	Vertical
14412.00	"Upo*sk	Aupo, ok	hoisk b	74.00	siek ont	Vertical
4804.00	28.91	15.27	44.18	74.00	-29.82	Horizontal
7206.00	30.30	18.09	48.39	74.00	-25.61	Horizontal
9608.00	28.88	23.76	52.64	74.00	-21.36	Horizontal
12010.00	otek * Vupo	-V	ick Wipote	74.00	botek	Horizontal
14412.00	notek* An	DOJON VILLE	tek ap	74.00	ok hote	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.04	15.27	33.31	54.00	-20.69	Vertical
7206.00	18.60	18.09	36.69	54.00	-17.31	Vertical
9608.00	19.93	23.76	43.69	54.00	-10.31	Vertical
12010.00	Notes.	Anbotes An	, e.k.	54.00	N. P.	Vertical
14412.00	And *	abotek	Aupo. K	54.00	Pose. Yun	Vertical
4804.00	17.26	15.27	32.53	54.00	-21.47	Horizontal
7206.00	19.36	18.09	37.45	54.00	-16.55	Horizontal
9608.00	18.19	23.76	41.95	54.00	-12.05	Horizontal
12010.00	* * *	otek Aupor	-k ~ot	54.00	AUP	Horizontal
14412.00	Upo, *	botek Ant	ote. And	54.00	Ek Vupo,	Horizontal



Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 37 of 39

			ГМ3 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	28.68	15.42	44.10	74.00	-29.90 m	Vertical
7323.00	29.42	18.02	47.44	74.00	-26.56	Vertical
9764.00	29.92	23.80	53.72	74.00	-20.28	Vertical
12205.00	ek * spotek	Anborr	h worek	74.00	And	Vertical
14646.00	*	tek Wipose	Pun de	74.00	Aupo	Vertical
4882.00	28.61	15.42	44.03	74.00	-29.97	Horizontal
7323.00	30.29	18.02	48.31	74.00	-25.69	Horizontal
9764.00	28.58	23.80	52.38	74.00	-21.62	Horizontal
12205.00	* otek	Anbore	And	74.00	YUPO, OK	Horizontal
14646.00	Ant siek	Anbotek	Aupo	74.00	Anbois	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.77	15.42	33.19	54.00	-20.81	Vertical °
7323.00	18.70	18.02	36.72	54.00	-17.28	Vertical
9764.00	19.79	23.80	43.59	54.00	-10.41	Vertical
12205.00	k *upor	N. Siek	anbotek	54.00	boiek	Vertical
14646.00	otek * Anbot	Anb	sk spojek	54.00	pi, potek	Vertical
4882.00	17.17	15.42	32.59	54.00	-21.41	Horizontal
7323.00	18.92	18.02 A	36.94	54.00	-17.06	Horizontal
9764.00	18.70	23.80	42.50	54.00	11.50 And	Horizontal
12205.00	Anb*otek	Aup	abotek	54.00	wotek D	Horizontal
14646.00	* "otek	VUPO.	A. tek	54.00	VUD.	Horizontal



Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 38 of 39

V. V.	Heli	"upo,	Dr.	hote.	AUD	otek.
		•	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	28.95	15.58	44.53	74.00	-29.47	Vertical
7440.00	29.43	17.93	47.36	74.00	-26.64	Vertical
9920.00	30.47	23.83	54.30	74.00	-19.70	Vertical
12400.00	* otek	anbotes	Aups "Sk	74.00	Aupor	Vertical
14880.00	* And	iek "potel	, Vupo,	74.00	Aupote	Vertical
4960.00	28.68	15.58	44.26	74.00	-29.74	Horizontal
7440.00	30.32	17.93	48.25	74.00	-25.75	Horizontal
9920.00	29.26	23.83	53.09	74.00	-20.91	Horizontal
12400.00	Vup.*	abotek	Aupor b	74.00	rupoter, Vul	Horizontal
14880.00	A(*)Ort	hotek	Anborek	74.00	anbotek	Horizonta
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4960.00	18.89	15.58	34.47	54.00	-19.53	Vertical
7440.00	19.71	17.93	37.64	54.00	16.36 And	Vertical
9920.00	20.34	23.83	44.17	54.00	-9.83	Vertical
12400.00	k upotek	Anbo.	hotek	54.00	Pur	Vertical
14880.00	abott	ak Anboro	And	54.00	Aupo	Vertical
4960.00	18.61	15.58 NO	34.19	54.00	-19.81	Horizonta
7440.00	20.29	17.93	38.22	54.00	-15.78	Horizonta
9920.00	18.60	23.83	42.43	54.00 Ann	-11.57	Horizonta
12400.00	* tek	Anbores	Aur	54.00	100 Vr	Horizonta
14880 00	An*	hotek	Anbo	54 00	Vupote V	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. During the test, pre-scan the all modulation, only the worst case is recorded in the report.







Report No.: 18220WC30155601 FCC ID: 2AANZDGKRK Page 39 of 39

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 -----

