

Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 1 of 38

FCC Test Report

Applicant : Shenzhen Kingsun Enterprises Co., Ltd.

Address 25/F, CEC Information Building, Xinwen Rd.,

Shenzhen, Guangdong, China

Product Name : OUTDOOR WIRELESS SPEAKER

Report Date: Mar. 19, 2024

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited







Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 2 of 38

Contents

' a siek	anbo, A.									You
1. Gene	ral Information	14	rek Vr	مام .	Yayo	Kupo.	Ъ.		a,n'o	, <u>`````</u>
	ral Information	otek	VUpo,		alt	⁹ †000,,,	P.			9ئە
1.2	. Description of Device (E	UT)		t	upo.			. Kupose.	<u>P</u>	(
1.3	. Auxiliary Equipment Use	ed During	Test	ey	<u></u>	400			,elt	Kup.
0,01ek 1.4	. Operation channel list	byek	kuj	······································		εk		24		
1.5	. Description of Test Mode	es	ek	botel			-0070k	P.	(99	
1.0 Anbore 1.0	Test Summary	ry		hotel	A.C	001	نتنزو	ek	7/p040%	······ (
1.8	. Description of Test Facil	itvo	pore	Vien		botek	Vupo			.te ^k 1(
1.9	Disclaimer		poje ^K	^d n4				ooter	VUD.	10
M1.1	0. Test Equipment List	0,00	VII.	<i>(</i>	.poier	Anbo		<u></u>		,\\\\.1
2. Anter	na requirement	wotek	Vupo.	P.	, votek	odna	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Vur.	Y	19
21	Conclusion					3/k				1:
2 Cand	Description of Test Facil Disclaimer Test Equipment List Conclusion Ucted Emission at AC por EUT Operation Test Setup Test Data Died Bandwidth Test Setup Test Setup Test Setup Test Setup Test Setup	wor line	3K	obotek	Anbo	-/-	hotek	An	pote	ρ: 1.
3. Cond	ucted Emission at AC por	wer line	P	i otek	An	.0481			- apolek	14
3.1	EUT Operation	········	,o' [©] "			-1040V	KUp _{0,,}		D1.	14
3.2	. Test Setup		~oiey	ANDO		W.	100			14
Ang.o	. Test Data	0/1/27	Ker		potek.	Pupo:		Lotek	27	DOGE .
4. Occu	pied Bandwidth	Joyek				o	'S.	VUD.	<u>**</u>	1
4.1	. EUT Operation			100	Anb	·······	botek .	- Pupor		1
4.2	Test Setup	- Pupp		~~/e/					oi ^{er}	518
150tek 4.3	. Test Data			isk in		.,,elt	Kupo,		······································	18
5. Maxir	num Conducted Output F	Power	e ^{ke} k	Pupo,	Σ,.				YUP.	19
5.1	. EUT Operation		Yor	nbot	E	"Un.		otek	Vupo,	19
5.2	. Test Setup	2			.01911					::.·20
53	Test Data					20				20
6. Chan	nel Separation		Ω	ek.	Vupo,	···············	ovek.	pote		2
6.1	FUT Operation	Vupo.	h	-otek	Anbote	V.U.	.eK		otek	2
501ek 6.2	. Test Setup	, poie	P.U			tek.	Pupo,	be	You.	2
6.3	. Test Data		*6r	- 2/0			~0°		71	2
7. Numl	per of Hopping Frequenci	es	494	bote	P. P.	upo,	by.	46K	anbore	2
7.1	. EUT Operation	*ek	boreh.			NO.	V	Wol		2
7.3	Test Data	// ₀ ,		s.K	Mpoke	Kur	re/r	abotel		An 2:
المسال	Time a W	Anborer	And	40.	botek	Ant	0,	12/	irek	\2\2\2
8. Dwell	Time	.ni	A.N			ek.	nbolok	<i>V.4</i> ,0;		Z.
8.1	. EUT Operation	An			bopo				4poje	2
Mbote 8.2	. Test Setup			Vic.	K	boter	bub		ore	× 24
8.3	. iest Data	ek	100/ek	Who.	-V-	50tek	AUP.	76.		24
9. Emis	Test Setup Test Data Time EUT Operation Test Setup Test Data sions in non-restricted fre EUT Operation Test Setup	quency b	ands	<u>V</u> Vp.	oke.	₩. Fe		botek	pob	2
9.1	. EUT Operation	ooter	Anu.	,v	ojek	Aupo,	·····			20
9.2	Test Setup									20
	. Test Data	-700,	b/		_X60	~ ~	*			~







Report No 1622000C40012701	FCC ID. ZAAPK-DC-1440	Page 3 01 36
10. Band edge emissions (Radiated)	hotek Anbore An	
10.1. EUT Operation 10.2. Test Setup 10.3. Test Data	tek Vilostek Wilosop V	27 27 28
11. Emissions in frequency bands (below 1GHz		29
11.1. EUT Operation 11.2. Test Setup 11.3. Test Data	Anburek pobotek sobotek	
12. Emissions in frequency bands (above 1GHz	z)Albore	
12.1. EUT Operation 12.2. Test Setup 12.3. Test Data	V. K. Poles	33
APPENDIX I TEST SETUP PHOTOGRAPH. APPENDIX II EXTERNAL PHOTOGRAPH		





Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 4 of 38

TEST REPORT

Applicant : Shenzhen Kingsun Enterprises Co., Ltd.

Manufacturer : Shenzhen Kingsun Enterprises Co., Ltd.

Product Name : OUTDOOR WIRELESS SPEAKER

Test Model No. : DC-1440

Reference Model No. : MI-BT128-131, MI-BT129-131, XY-AU080

Trade Mark : N/A

Rating(s) Input: 5V= 1A

Capacity: Lithium-ion: DC 3.7V, 2000mAh

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

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

Date of Receipt.	Jan. 19, 2024
Date of Test:	Jan. 19, 2024 to Mar. 06, 2024
Anbotek Anbotek Anbotek Anbotek	And And And
Anbotek Anbotek Anbotek Anbotek	Ella Liang
Prepared By:	ak hotek Anbote Anbo
Prepared By:	poter, Aur Colek Pupo,
Anbotek Anbotek Anbotek Anbotek	(Ella Liang)
	2/11/0/2010
	Idward pan
Approved & Authorized Signer:	And And And
ak hotek Anbotes Anti	(Edward Pan)







Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 5 of 38

Revision History

	Report Version	Description	Issued Date			
	Anbore R00 potek Ant	Original Issue.	Mar. 19, 2024			
9,	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Ant			
10	ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter			





Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 6 of 38

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Kingsun Enterprises Co., Ltd.
Address	:	25/F, CEC Information Building, Xinwen Rd., Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Kingsun Enterprises Co., Ltd.
Address	:	25/F, CEC Information Building, Xinwen Rd., Shenzhen, Guangdong, China
Factory	:	Shenzhen Kingsun Enterprises Co., Ltd.
Address	:	25/F, CEC Information Building, Xinwen Rd., Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

A. A.	~o1	to the state of th
Product Name	:	OUTDOOR WIRELESS SPEAKER
Test Model No.	:	DC-1440
Reference Model No.	:	MI-BT128-131, MI-BT129-131, XY-AU080 (Note: All samples are the same except the model number and appearance color, so we prepare "DC-1440" for test only.)
Trade Mark	:	N/A hotek Anbore Anborek Anborek Anborek
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	:	379 Anbotek Anbo
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-0.58dBi
Pomarke 1		A work And sek above Ar

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.







FCC ID: 2AAPK-DC-1440 Report No.: 18220WC40012701 Page 7 of 38

1.3. Auxiliary Equipment Used During Test

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

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Ootek Ootek	2402	20 rek	2422	40	2442	60	2462
1 botek	2403	21	2423	41	2443	61,0000	2463
2 2 bo	2404	22	2424	42 Anbo	2444	rek 62 Anbo	2464
3	bote 2405 And	23	2425	43 An	2445	botel 63	2465
4	2406	24	2426	44	2446	64	2466
And 5	2407	Ant 25	2427	45	2447	65	2467
And Grek	2408	26	2428	46	2448	66	2468
7	2409	27. ^{nbox}	2429	47 Anbor	2449	ek 67 _{Amb} o	2469
8 And	2410 M	28 And	2430	otek 48 Ant	2450	68 N	2470
9 An	2411	100 ¹⁰ 29	2431	7bo* 49	2451	69	2471
Anbort 10	2412	Anb 30	2432	50 ^k	2452	70	2472
An 91	2413	31	2433	510tek	2453	71 Dotek	2473
12	2414	32	2434	52 _{mb} ote	2454	72	2474
13Anbox	2415	ek 33 Anbo	2435	otek 53 Anb	2455 Andrew	73	2475 M
otek 14 Ank	2416	pote ^k 34 M	2436	54	2456	74	2476
nb ^{ot} 15	2417	10035	2437	55	2457	75 _k	2477
16	2418	36	2438	56	2458	An 76	2478
17° tek	2419	37, otek	2439	57	2459	77	2479
18,000°	2420	38 _{Anb} ol	2440	58	2460	78	2480 M
stek 19 Anb	2421	39	2441 M	59	2461	Oles - Vill	Jek-



Hotline



FCC ID: 2AAPK-DC-1440 Report No.: 18220WC40012701 Page 8 of 38

1.5. Description of Test Modes

Pretest Modes	Descriptions
Amborek TM1 (boren	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4 ek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TM5 polek	Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.
Anbotek TM6 Anbotek	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz rek Anborek Anborek
Conducted Output Power	0.76dB potek Anbotek Anbotek Anbotek
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.









Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 9 of 38

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbotek / Anbote	And Potek
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	P P
Maximum Conducted Output Power	Mode1,2,3	b
Channel Separation	Mode4,5,6	upor Pk
Number of Hopping Frequencies	Mode4,5,6	Anbe Prick
Dwell Time	Mode4,5,6	P
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	P Pans
Band edge emissions (Radiated)	Mode1,2,3	P An
Emissions in frequency bands (below 1GHz)	Mode1,2,3	upore B
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Anbor P
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbore

N: N/A, not applicable





Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 10 of 38

1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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

1.9. Disclaimer

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

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





FCC ID: 2AAPK-DC-1440 Page 11 of 38 Report No.: 18220WC40012701

1.10. Test Equipment List

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

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

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

Hotline



Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 12 of 38

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

Emiss	Emissions in frequency bands (below 1GHz)								
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date			
Antenna		SCHWARZBECK	VULB 9163	01109	2022-10-16	2025-10-15			
		Rohde & Schwarz	ESR26	101481	2023-10-12				
3	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11			
Anidotel	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22			
5 EMI Test Softwar EZ-EMC		SHURPLE	N/A	N/A,nbott	k Aupon	k Wholek			
6	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11			







Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 13 of 38

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 **-0.58 dBi** . It complies with the standard requirement.





FCC ID: 2AAPK-DC-1440 Report No.: 18220WC40012701 Page 14 of 38

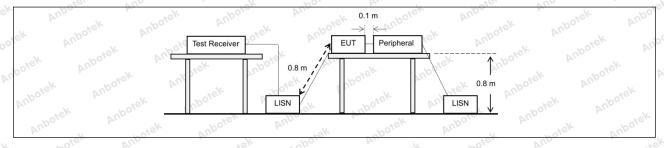
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the reback onto the AC power line on ar band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage tha ny frequency or frequencie t exceed the limits in the f	nected to the at is conducted es, within the ollowing table, as
boiek Anbor	Frequency of emission (MHz)	Conducted limit (dBµV)	Diek .
Yun vek apolek	Anbore Anbore	Quasi-peak	Average
Aupor Air	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 AM	56 Hotek An	46
Aur apote	5-30 And	60	50 Kerr AMD
k Aupora VIII.	*Decreases with the logarithm of t	he frequency.	Anber Anber
Test Method:	ANSI C63.10-2020 section 6.2	Posek Auposes	Vun Ciek
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unline conducted emissions from the conducted emission		

3.1. EUT Operation

Operating Envi	ronment:	Anbo	botek .	Aupote	Ann	Anborek	Anbo
Test mode:	hopping) w 2: TX-π/4-[(non-hoppi 3: TX-8DPS	ith GFSK model of the GFSK (Norng) with $\pi/4$	odulation. n-Hopping): K DQPSK mod oping): Keep	eep the EU ⁻ ulation.	ontinuously trans T in continuousl continuously trai	y transmitting	g mode

3.2. Test Setup





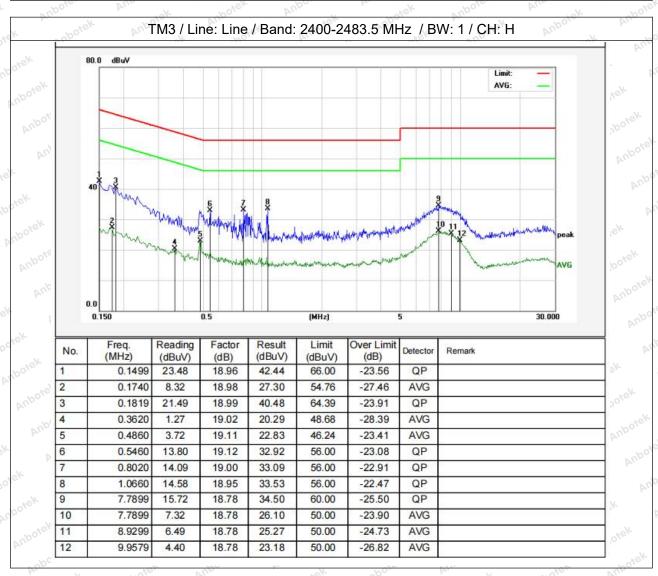
Hotline



FCC ID: 2AAPK-DC-1440 Report No.: 18220WC40012701 Page 15 of 38

3.3. Test Data

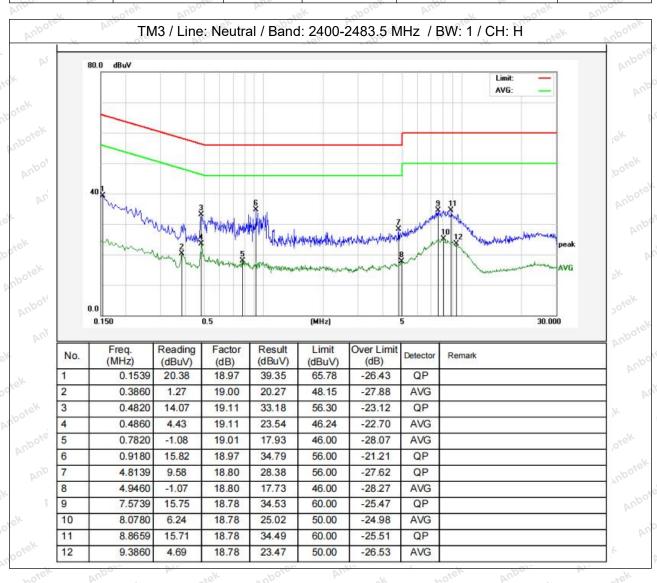
Temperature:	22.3 °C	Humidity:	52.4 %	Atmospheric Pressure:	101 kPa
--------------	---------	-----------	--------	-----------------------	---------





Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 16 of 38

Temperature: 22.3 °C Humidity: 52.4 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 17 of 38

4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
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.
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. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range.
	e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
	f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the
	trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99%
	power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.1. EUT Operation

Operating Environment:		Anbotek	Aupo.	hotek	Anbore	And	Anbore
Test mode:	1: TX-GFSK hopping) wit			ne EUT in c	ontinuously t	ransmitting mod	le (non-





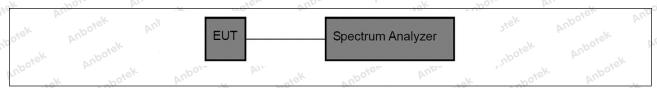


Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 18 of 38

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

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

4.2. Test Setup



4.3. Test Data

Temperature: 25.1 C	Temperature:	25.1 °C	Humidity:	48 %	Atmospheric Pressure: 101 kPa
-----------------------	--------------	---------	-----------	------	-------------------------------





Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 19 of 38

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 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. 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.
Anbotek Anbotek	c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Procedure:	f) Trace: Max-hold. g) Allow trace to stabilize.
	h) Use the marker-to-peak function to set the marker to the peak of the emission.
	i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
	j) A spectral plot of the test results and setup description shall be included in the test report.
	NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum
Anbo otek Anbo	analyzer.

5.1. EUT Operation

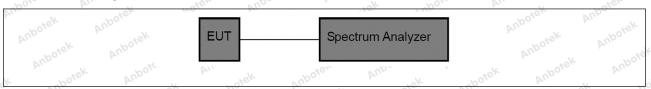
Opera	ating Er	vironment:					abotek	Anboro
Test n	node:	hopping 2: TX-T (non-ho 3: TX-8	g) with GFS t/4-DQPSK opping) with BDPSK (Nor	K modulation (Non-Hopping π/4 DQPSK	g): Keep the modulation. eep the EU	EUT in cor	ntinuously tran	ng mode (non- smitting mode ting mode (non-





Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 20 of 38

5.2. Test Setup



5.3. Test Data

10	Tanàn araturas	25.1 °C	Llumpidite	40.000	Atmoonbaria Drassura	101 kDa
	Temperature:	25.1 6	Humidity:	48 %	Atmospheric Pressure:	101 kPa





Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 21 of 38

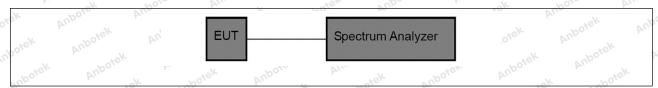
6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2
Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
botek Anbotek	Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

6.1. EUT Operation

Operating Envi	ronment:	Andrek	abotek	Aupor	hotek hotek	Anbo
Test mode:	4: TX-GFSK (Hopping): with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping) with π/4 DQP 6: TX-8DPSK (Hopping) with 8DPSK modulation	ping): Keep the SK modulation. : Keep the EUT	EUT in cont	inuously trar	nsmitting mode	ek ek

6.2. Test Setup



6.3. Test Data

Temperature:	25.1 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
Y*	- 0//	P// .	-07	~O1 · · · · · · · · · · · · · · · · · · ·	0,7,,









Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 22 of 38

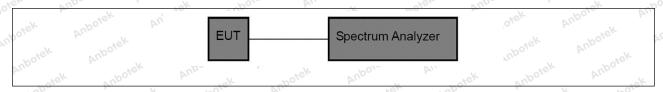
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: 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
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 regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

7.1. EUT Operation

Operating Envi	onment: Anbore Anbore Anbore Anborek Anborek
Test mode:	 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

7.2. Test Setup



7.3. Test Data

Temperature: 25.1 °C Humidity: 48 % Atmospheric Pressure: 10	01 kPa
--	--------









Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 23 of 38

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.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 24 of 38

these two markers.

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

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

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

8.1. EUT Operation

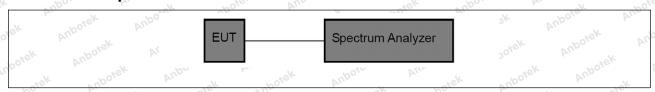
Operating Environment:

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

Test mode:

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

8.2. Test Setup



8.3. Test Data

Temperature:	25.1 °C	Humidity:	48 %	Atmospheric Press	ure: 101 kPa	-01 ⁶







Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 25 of 38

9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek Anbotek Anbotek Anbotek Test Limit: Anbotek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	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.
	- And tek hotek Anbor K hotek Anbore An
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 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.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 26 of 38

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

7.8.7.2 Band-edges

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

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

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

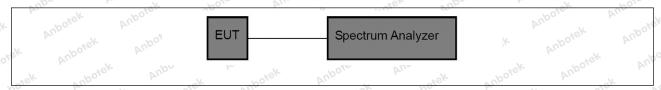
9.1. EUT Operation

Operating Environment:

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

9.2. Test Setup

Test mode:



9.3. Test Data

Temperature:	25.1 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
--------------	---------	-----------	------	-----------------------	---------







FCC ID: 2AAPK-DC-1440 Report No.: 18220WC40012701 Page 27 of 38

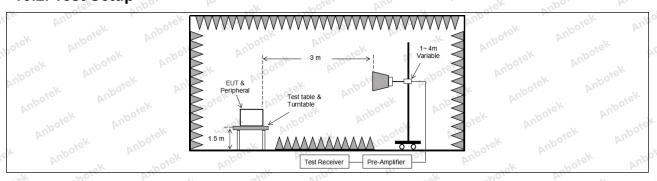
10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
otsk Vupotsk Vupo,	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
nbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Aupotek Aupoter	1.705-30.0 30-88	30 100 **	30
Anbotes Anbote	88-216 216-960 Above 960	150 ** 200 ** 500	3
Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek	intentional radiators operatifrequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not bz, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt§ 15.231 and 15.241. If the tighter limit applies at the bin the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ed under other pand edges. measurements uency bands 9— esion limits in
Test Method:	ANSI C63.10-2020 section	6.10° Anbo Abor	sk Aupore
Procedure:	ANSI C63.10-2020 section	6.10.5.2	otek Anbotek

10.1. EUT Operation

Operating Envir	onment:	Aupor	hoiek	Aupoles	Aug	Anbotek	Vupo.
Test mode:	hopping) with 2: TX-π/4-DC (non-hopping 3: TX-8DPSK	GFSK modula PSK (Non-Hop) with π/4 DQF	ation. pping): Kee PSK modula g): Keep the	the EUT ir	nuously transn continuously t	transmitting	mode

10.2. Test Setup







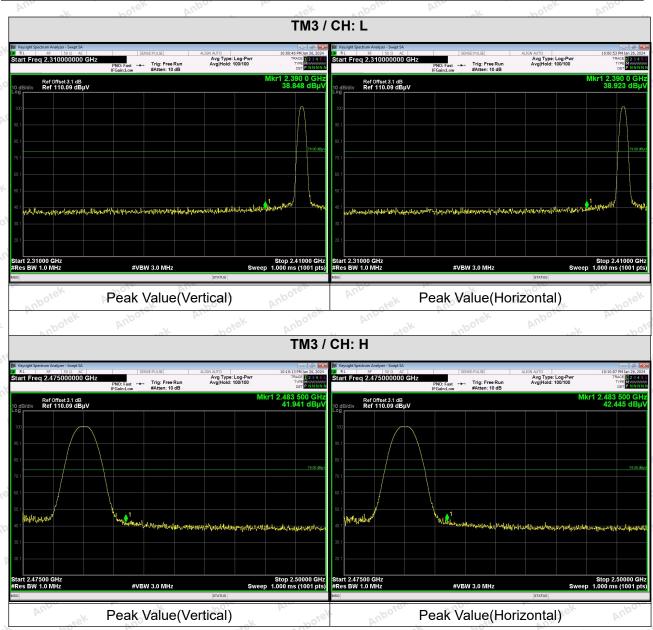




Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 28 of 38

10.3. Test Data

Temperature: 25.1 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



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







Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 29 of 38

11. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also compecified in § 15.209(a)(see § 15.2	ly with the
otek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
hotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Anbotek Anbotek	1.705-30.0 30-88	30 100 **	30
Anbotek Anbore	88-216 216-960	150 ** 200 **	3 3 Annoted Anno M
Anbore. And	Above 960	500 hotek Ambote	3
Test Limit: Anbotek Anbotek	intentional radiators operatifrequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not bz, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt§ 15.231 and 15.241. In the tighter limit applies at the bin the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9–sion limits in
Test Method:	ANSI C63.10-2020 section	6.6.4 And	Aupore.
Procedure:	ANSI C63.10-2020 section	6.6.4	otek Anbotek

11.1. EUT Operation

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

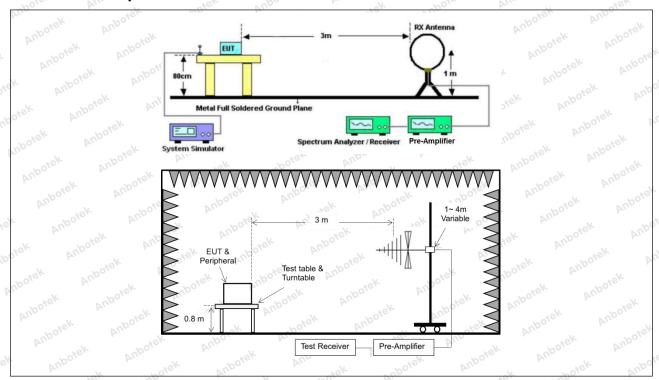






Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 30 of 38

11.2. Test Setup





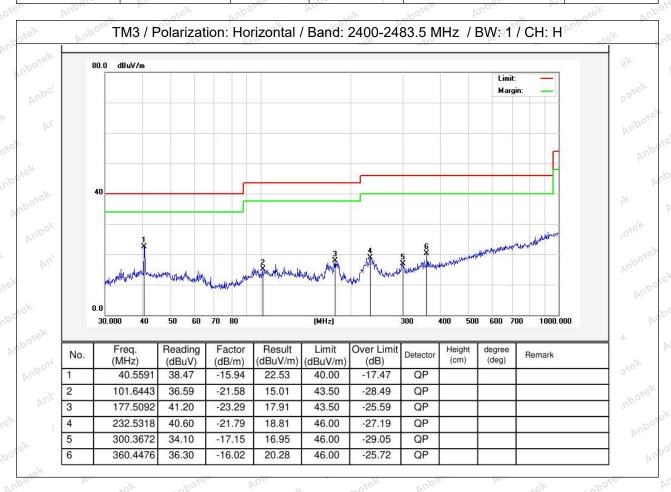


Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 31 of 38

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.

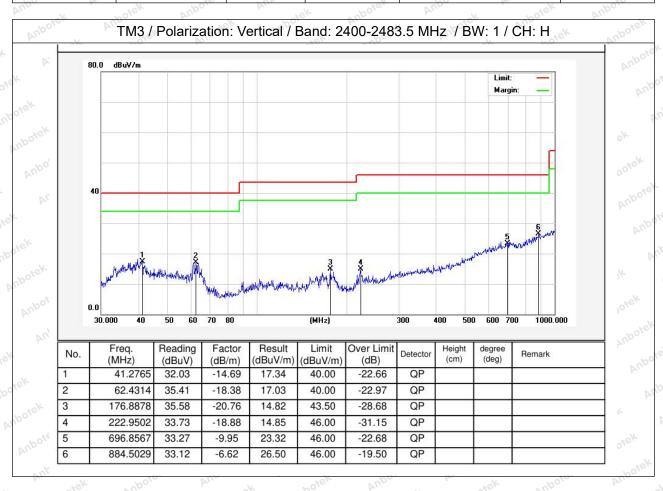
Tem	perature:	22 3 °C	24/2	Humidity:	52.4 %	Atmos	spheric Pres	ssure:	101 kPa
10111	ociatale.	22.0	V	i iditiidity.	02.77	7 7 11100	opinono i no	Jourc.	pero i ki a i





Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 32 of 38

Temperature: 22.3 °C Humidity: 52.4 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 33 of 38

12. Emissions in frequency bands (above 1GHz)

Anbotek A	in § 15.209(a)(see § 15 Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance
	Any	Aupo, W. Stek Vupote,	(meters)
	0.009-0.490	2400/F(kHz)	300 000
poter Ande	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30 And
	30-88	100 ***	3,ek nbore
	88-216	150 **	A1 3
	216-960	200 **	3 botes Ans
	Above 960	500 horek Anbo	3
ootek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	frequency bands 54-72 However, operation wit sections of this part, e. In the emission table a The emission limits she employing a CISPR qu 90 kHz, 110–490 kHz a these three bands are	perating under this section shall no 2 MHz, 76-88 MHz, 174-216 MHz of thin these frequency bands is perning., §§ 15.231 and 15.241. Bove, the tighter limit applies at the town in the above table are based of asi-peak detector except for the frand above 1000 MHz. Radiated en based on measurements employing.	or 470-806 MHz. nitted under other e band edges. on measurements equency bands 9– nission limits in
	Metector		
Test Method:	detector.	etion 6.64	rak apotek
Test Method:	ANSI C63.10-2020 sec ANSI C63.10-2020 sec	All. Call	potek Anbotek

12.1. EUT Operation

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

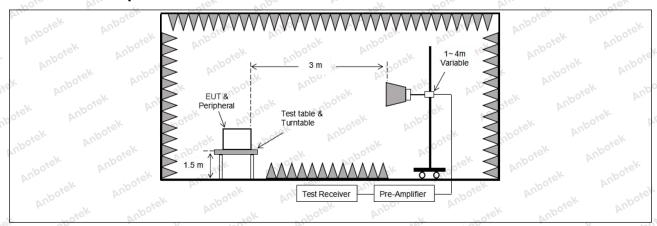






Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 34 of 38

12.2. Test Setup







Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 35 of 38

12.3. Test Data

Temperature: 25.1 °C	Humidity: 48 %	Atmospheric Pressure:	101 kPa
----------------------	----------------	-----------------------	---------

Vu.	potek Anb		siek noboší	Ans.	ok bojek	Anbo.
			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	28.56	15.27	43.83	74.00	-30.17	Vertical
7206.00	29.48	18.09	47.57	74.00	-26.43	Vertical
9608.00	30.78	23.76	54.54	74.00	-19.46	Vertical
12010.00	Vupoje,* V	iek.	abotek Anb	74.00	otek Anbott	Vertical
14412.00	*Upo*sk	Anbo	Polsk !	74.00	rick on	Vertical
4804.00	28.82	15.27	44.09	74.00	-29.91	Horizontal
7206.00	30.17	18.09	48.26	74.00	-25.74	Horizontal
9608.00	28.83	23.76	52.59	74.00	-21.41	Horizontal
12010.00	otek * Aupo	-K 20	iek Aupote	74.00	- abotek	Horizontal
14412.00	hotek* An	DOJE. VILL	atek anb	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	17.94	15.27	33.21	54.00	-20.79	Vertical
7206.00	18.51	18.09	36.60	54.00	-17.40	Vertical
9608.00	19.80	23.76	43.56	54.00	-10.44	Vertical
12010.00	work.	Anbote. An	sek .	54.00	e Pri	Vertical
14412.00	And *	on potek	Aupo.	54.00	pore Ans	Vertical
4804.00	17.17	15.27	32.44	54.00	-21.56	Horizontal
7206.00	19.23	18.09	37.32	54.00	-16.68	Horizontal
9608.00	18.14	23.76	41.90	54.00	-12.10	Horizontal
12010.00	-18K *	otek Wipor	-K ~0,	54.00	Vun siek	Horizontal
14412.00	4 ×	work and	Oto And	54.00	er Vupo	Horizontal



Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 36 of 38

			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	28.58	15.42	44.00	74.00	-30.00	Vertical
7323.00	29.33	18.02	47.35	74.00	-26.65	Vertical
9764.00	29.79	23.80	53.59	74.00	-20.41	Vertical
12205.00	ek * spotek	Anborr	but hotek	74.00	Ans	Vertical
14646.00	*	tek Wipose	Pun Vie	74.00	Aupo	Vertical
4882.00	28.52	15.42	43.94	74.00	-30.06	Horizontal
7323.00	30.16	18.02	48.18	74.00	-25.82	Horizontal
9764.00	28.53	23.80	52.33	74.00	-21.67	Horizontal
12205.00	* otek	Anbore	And	74.00	YUPO, PK	Horizontal
14646.00	Ant siek	nbotek	Anbo	74.00	Aupole	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.67	15.42	33.09	54.00	-20.91	Vertical Vertical
7323.00	18.61	18.02	36.63	54.00	-17.37	Vertical
9764.00	19.66	23.80	43.46	54.00	-10.54	Vertical
12205.00	k *upor	N. Siek	anbotek	54.00	borek	Vertical
14646.00	otek * Anbot	And	ek spojek	54.00	p.i.	Vertical
4882.00	17.08	15.42	32.50	54.00	-21.50	Horizontal
7323.00	18.79	18.02 A	36.81	54.00	-17.19	Horizontal
9764.00	18.65	23.80	42.45	54.00	11.55 M	Horizontal
12205.00	Anb*otek	Aup	abořek	54.00	"Otek Di	Horizontal
14646.00	* "otek	VUPO.	Zi.	54.00	AUD	Horizontal



Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 37 of 38

en Aug	riek	anbore	bii.	hoter	AUD	atek.
		٦	ГМ3 / СН: Н			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.85	15.58	44.43	74.00	-29.57 NO	Vertical
7440.00	29.34	17.93	47.27	74.00	-26.73	Vertical
9920.00	30.34	23.83	54.17	74.00	-19.83	Vertical
12400.00	* ~ otek	anbore.	And	74.00	Aupo,	Vertical
14880.00	* Vup	iek upołek	Aupo.	74.00	Aupore	Vertical
4960.00	28.59	15.58	44.17	74.00	-29.83	Horizontal
7440.00	30.19	17.93	48.12	74.00	-25.88	Horizontal
9920.00	29.21	23.83	53.04	74.00	-20.96	Horizontal
12400.00	Anb * * ek	abotek	Aupo,	74.00	Aupote, Au	Horizontal
14880.00	V.Apo.	Notek Notek	Anbores	74.00	abotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.79	15.58	34.37	54.00	-19.63	Vertical
7440.00	19.62	17.93	37.55	54.00	16.45 M	Vertical
9920.00	20.21	23.83	44.04	54.00	-9.96	Vertical
12400.00	* * sboick	Aupor	hotek	54.00	Aug	Vertical
14880.00	* * *	sk Aupole.	Aug Siek	54.00	Aupo	Vertical
4960.00	18.52	15.58 NO	34.10	54.00	-19.90	Horizontal
7440.00	20.16	17.93	38.09 kg	54.00	-15.91,00te	Horizontal
9920.00	18.55	23.83	42.38	54.00	-11.62	Horizontal
12400.00	* totek	Anbores	Ann	54.00	Ipo. by	Horizontal
14880.00	An*	* Upotek	Aupo.	54.00	Anboto	Horizontal

Remark:

- 1. Result =Reading + Factor
- "*" 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.







Report No.: 18220WC40012701 FCC ID: 2AAPK-DC-1440 Page 38 of 38

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 -----

