

Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 1 of 40

# **FCC Test Report**

Applicant : Shenzhen Kingsun Enterprises Co., Ltd.

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

Address : Shenzhen, Guangdong, Shenzhen, 518034,

China

Product Name : PORTABLE LED LIGHT-UP BLUETOOTH

**SPEAKER** 

Report Date : Jul. 11, 2024

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited









Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 2 of 40

# **Contents**

1. General Information	Anbore	VI.		Aup.	
1.1. Client Information 1.2. Description of Device (EUT) 1.3. Auxiliary Equipment Used Du 1.4. Operation channel list 1.5. Description of Test Modes 1.6. Measurement Uncertainty 1.7. Test Summary 1.8. Description of Test Facility 1.9. Disclaimer 1.10. Test Equipment List 2. Antenna requirement 2.1. Conclusion 3. Conducted Emission at AC power li 3.1. EUT Operation 3.2. Test Setup 3.3. Test Data 4. Occupied Bandwidth 4.1. EUT Operation 4.2. Test Setup 4.3. Test Data 5. Maximum Conducted Output Powe 5.1. EUT Operation 5.2. Test Setup 5.3. Test Data	uring Test	164	And		104ez
2. Antenna requirement	K YUN	ek Anbotel	4000	rek n	1000 AUNT
2.1. Conclusion	oter And	otek vup	iek bup	or, br	
3. Conducted Emission at AC power li	ine	20, N.	abotek p	pore	
3.1. EUT Operation	Angolek Mabolek				1: 1: 1:
4. Occupied Bandwidth	y Modern	Anbe	botel	Vupor	1
4.1. EUT Operation4.2. Test Setup4.3. Test Data		Hap.		//ac. //ac.	16 1! 1
5. Maximum Conducted Output Powe	r	upoter Ar		botek	
5.1. EUT Operation 5.2. Test Setup 5.3. Test Data	Anborek	AN OTHER	Aupolisk Popolisk	Allootek Pulpotek	20 2 2
6. Channel Separation	k	Anbore		90,0	otek Anbo
5.2. Test Setup 5.3. Test Data 6. Channel Separation 6.1. EUT Operation 6.2. Test Setup 6.3. Test Data	- 10×	a9.			2
7. Number of Hopping Frequencies	Aur. Wek	Kopojek	Yupo,	R. Wotek	2:
7.1. EUT Operation	Aupo,	Wipolek Wipolek		ek "abí	23 25
8. Dwell Time	ie. Yun	tek anboti	ak Anbo	ak	botek P2
8.1. EUT Operation 8.2. Test Setup 8.3. Test Data	hoter Ar	, , , , , , , , , , , , , , , , , , ,	orek Anl Anborek	oo, b	29 29
9. Emissions in non-restricted frequer	ncy bands	r. Motek	Anbore.	Yu. Cotek	20
9.1. EUT Operation 9.2. Test Setup 9.3. Test Data	ek "upolek	Puloote <sub>k</sub>	V	Moy William	2 2 2







Report No.: 182512C400300101	FCC ID: 2	AAPKDC17	02 <sup>M</sup>	Page 3	of 40
10. Band edge emissions (Radiated)	r. "upojek	Anbore	kviek	Anbor	28
10.1. EUT Operation 10.2. Test Setup	·o <sub>f</sub>	ek Aupot	ofe Anso	(a) (a)	28 29
10.3. Test Data	, A	10 × 0 ×	Thorest No	po, r	30
11. Emissions in frequency bands (below 1G			77.	Wipo <sub>fer</sub> .	31
11.1. EUT Operation 11.2. Test Setup 11.3. Test Data	Aupotek	Popo <sub>ter</sub>	Pup.	Anborek	31
		ok hote	kVupoje,		33
12. Emissions in frequency bands (above 1G	Hz)	<u> </u>		5/2 May 2	35
12.1. EUT Operation 12.2. Test Setup 12.3. Test Data	oorek Ari	otek vup	"Potek Pu	okekl	35 36
12.3. Test Data	botek	p.02011111111111111111111111111111111111		anboter	37
APPENDIX I TEST SETUP PHOTOGRAPH APPENDIX II EXTERNAL PHOTOGRAPH		, poporer	Anb	Aupotek V	40 40
APPENDIX III INTERNAL PHOTOGRAPH					40





Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 4 of 40

# TEST REPORT

Applicant : Shenzhen Kingsun Enterprises Co., Ltd.

Manufacturer : Shenzhen Kingsun Enterprises Co., Ltd.

Product Name : PORTABLE LED LIGHT-UP BLUETOOTH SPEAKER

Model No. : PSP1091, DC-1702

Trade Mark : N/A

Rating(s) Input: 5V= 1A

Battery Capacity: DC 3.7V, 1800mAh

47 CFR Part 15.247

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

KDB 558074 D01 15.247 Meas Guidance v05r02

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

Date of Receipt:	Jun. 25, 2024
otek Anbotek Anbot Anbotek	
Date of Test:	Jun. 25, 2024 to Jul. 09, 2024
	Tu 7u Hong
Prepared By:	Anbore Anti-
	(TuTu Hong)
	Idward pan
Approved & Authorized Signer:	Potek Aupore All tek upotek
	(Edward Pan)





Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 5 of 40

### **Revision History**

	Report Version	Description	Issued Date
	Anbore R00 potek Ant	Original Issue.	Jul. 11, 2024
9,	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb
10	or Anbotek Anbotek	Anbotek Anbotek Anbot	otek Anbotek Anbotek





Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 6 of 40

### 1. General Information

### 1.1. Client Information

277.		A COL PILE COLOR
Applicant	:	Shenzhen Kingsun Enterprises Co., Ltd.
Address	:	25/F, CEC Information Building, Xinwen Rd., Shenzhen, Guangdong, Shenzhen, 518034, China
Manufacturer	:	Shenzhen Kingsun Enterprises Co., Ltd.
Address	:	25/F, CEC Information Building, Xinwen Rd., Shenzhen, Guangdong, Shenzhen, 518034, China
Factory	:	Shenzhen Kingsun Enterprises Co., Ltd.
Address	:	25/F, CEC Information Building, Xinwen Rd., Shenzhen, Guangdong, Shenzhen, 518034, China

# 1.2. Description of Device (EUT)

Product Name	:	PORTABLE LED LIGHT-UP BLUETOOTH SPEAKER
Model No.	:	PSP1091, DC-1702 (Note: All samples are the same except the model number, so we prepare "PSP1091" for test only.)
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz; DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	2.499dBi

#### 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.







Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 7 of 40

# 1.3. Auxiliary Equipment Used During Test

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





Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 8 of 40

### 1.4. Operation channel list

Operation Band:

Channel         Frequency (MHz)         Channel         Frequency (MHz)         Channel         Frequency (MHz)         Channel         Frequency (MHz)         Channel         Channel         Channel         Channel         60           1         2403         21         2423         41         2443         61	Frequency (MHz)  2462  2463  2464
1 2403 21 2423 41 2443 61	2463
L. W. Cok Date, Vul. 1 Step 100, W. Cok	Andre. An
	2464
2 2404 22 2424 42 2444 62	4 - 617
3 2405 23 2425 43 2445 63	2465
4 2406 24 2426 44 2446 64	2466
5 2407 25 2427 45 2447 65	2467
6 2408 26 2428 46 2448 66	2468
7 2409 27 2429 47 2449 67	2469
8 2410 28 2430 48 2450 68	2470
9 2411 29 2431 49 2451 69	2471
10 2412 30 2432 50 2452 70	2472
11 2413 31 2433 51 2453 71	2473
12 2414 32 2434 52 2454 72	2474
13 2415 33 2435 53 2455 73	2475
14 2416 34 2436 54 2456 74	2476
15 2417 35 2437 55 2457 75	2477
16 2418 36 2438 56 2458 76	2478
17 2419 37 2439 57 2459 77	pote* 2479 And
18 2420 38 2440 58 2460 78	2480
19 2421 39 2441 59 2461 -	"upo <del>r</del> ek



Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 9 of 40

### 1.5. Description of Test Modes

Pretest Modes	Descriptions
Anborek TM1nborek Ar	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2 Anbotek	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
orek Anborek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
inbother Anboth	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
And TM5 or An	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
Anborek TM6 Anboren	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

# 1.6. Measurement Uncertainty

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

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.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 10 of 40

### 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	W. Apotek / Aupoter	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	P
Channel Separation	Mode4,5,6	Tupo. Pr
Number of Hopping Frequencies	Mode4,5,6	Anb P rek
Dwell Time	Mode4,5,6	PP of
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	Pant
Band edge emissions (Radiated)	Mode1,2,3	Pu Pu
Emissions in frequency bands (below 1GHz)	Mode1,2,3	upore P
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.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 11 of 40

### 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

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

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







Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 12 of 40

### 1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupo	k hotel	Anbore	Andrek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
30t	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Alooiek	Anborek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

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	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
<b>4</b> nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

Hotline

www.anbotek.com.cn

400-003-0500



Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 13 of 40

0,00	And	stek rupo.	N. Ok	-bote.	AUS	iek
	edge emissions (Ra sions in frequency ba		Anbore	Aupoisk	Aupotek	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 0.0	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3 3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbořest 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Anborek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
e <sup>k</sup> 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Emiss	Emissions in frequency bands (below 1GHz)									
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date				
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22				
. 2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16				
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22				
4ntel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11				
5,00	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A, Noot	y Aupon	k Anbotek				



Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 14 of 40

### 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 2.499**dBi**. It complies with the standard requirement.





Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 15 of 40

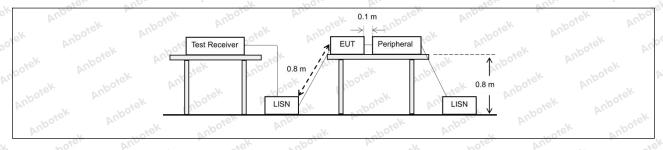
# 3. Conducted Emission at AC power line

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

# 3.1. EUT Operation

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

### 3.2. Test Setup





Hotline

www.anbotek.com.cn

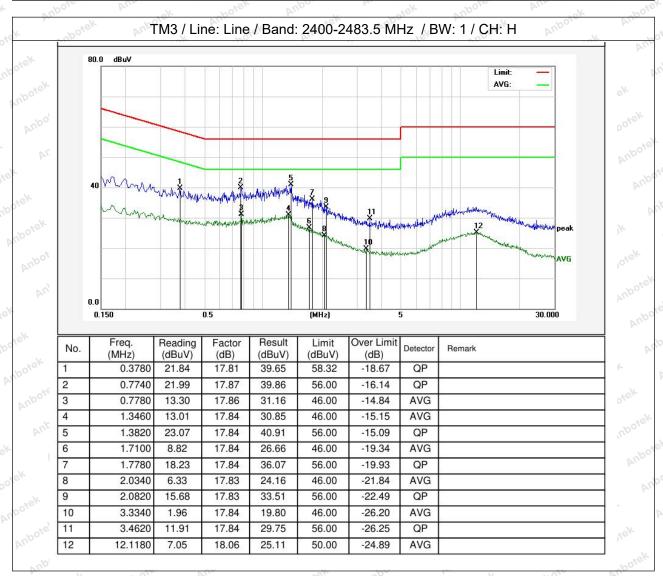
400-003-0500



Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 16 of 40

#### 3.3. Test Data

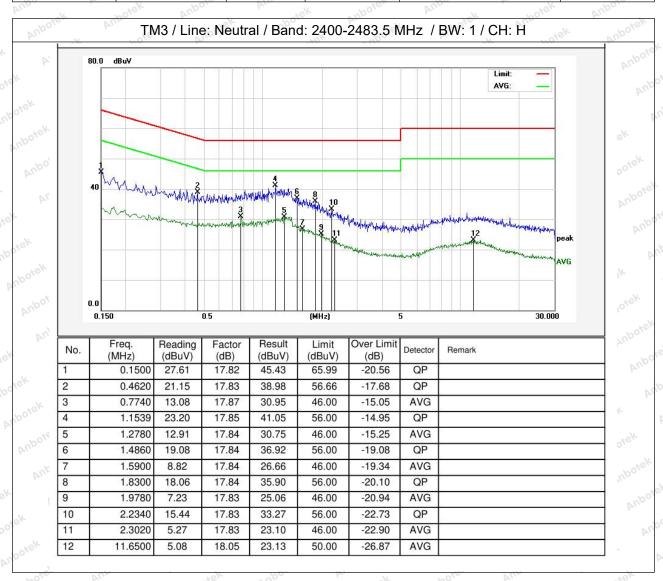
Temperature:	26.3°C	Humidity:	45 %	is otel	Atmospheric Pressure: 101 kP	ao <sup>ter</sup>
romporataro.	20.0	An Harmany.	10 70	20/00	7 timosphono i rossaro.	No.





Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 17 of 40

Temperature: 26.3 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 18 of 40

### 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test KDB 558074 D01 15.247 Meas Guidance v05r02
ek Anbotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equa 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
k Anbotek Anbotek Anbotek Anbotek Anbotek	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.
Procedure:	<ul> <li>d) Step a) through step c) might require iteration to adjust within the specified range.</li> <li>e) Video averaging is not permitted. Where practical, a sample detection an single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.</li> </ul>
upotek Anbotek An	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.
Anbotek Anbotek	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
ek Anbotek An	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

### 4.1. EUT Operation

Operating Envir	onment:	VII.	Aupoten	Anbe	abotek	Anbore	DI
Test mode:	1: TX-GFSK (	Non-Hoppin	g): Keep the	EUT in con	tinuously tran	smitting mode	e (non-







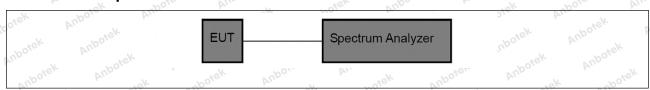
Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 19 of 40

hopping) with GFSK modulation.

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

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

#### 4.2. Test Setup



#### 4.3. Test Data

Tempera	ure: 26.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa	0
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Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 20 of 40

# 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: 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 KDB 558074 D01 15.247 Meas Guidance v05r02
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.
Poper Aupotek	<ul><li>i) The indicated level is the peak output power, after any corrections for external attenuators and cables.</li><li>j) A spectral plot of the test results and setup description shall be included in the test report.</li></ul>
	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

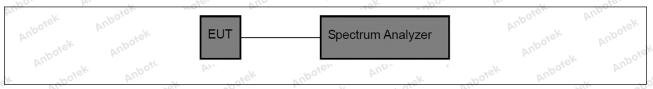
Operating Envi	ronment:	Anbore	Aur	Aupolek	Aupo *ek	potek
Test mode:	1: TX-GFSK (Non-hopping) with GFS 2: TX-π/4-DQPSK (non-hopping) with 3: TX-8DPSK (Non-hopping) with 8DPS	K modulation. (Non-Hopping π/4 DQPSK r -Hopping): Ke	g): Keep the E modulation. eep the EUT ir	UT in contin	uously transm	itting mode





Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 21 of 40

### 5.2. Test Setup



#### 5.3. Test Data

Temperature:	26.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
. 2/1. 2 . 2 . 2 . 2 . 2 . 2	=0.0		10 1/10	, m	10.111





Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 22 of 40

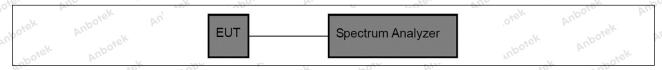
# 6. Channel Separation

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 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek 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.
Procedure:	e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
Potek Pupotek	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: Anboret Anboret Anboret Anboret Anboret
Test mode:	<ul> <li>4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.</li> <li>5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.</li> <li>6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.</li> </ul>

### 6.2. Test Setup



### 6.3. Test Data

Temperature: 26.3 °C Humidity: 45 % Atmospheric Pressure: 101 kPa	Humidity: 45 % Atmospheric Pressure: 101 kPa	26.3 °C	Temperature:
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Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 23 of 40

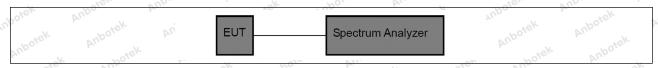
# 7. Number of Hopping Frequencies

ap	20,			- 000°		
Test Requirement:	47 CFR 15	5.247(a)(1)(iii)	Anbo.	h. shotek	Anbore	Ansotek
Test Limit:	2483.5 MF occupancy period of 0 employed. transmissi	T CFR 15.247( Iz band shall u on any chanr 0.4 seconds mu Frequency ho ons on a particuls are used.	ise at least 15 nel shall not be ultiplied by the opping system	channels. The greater than number of he may avoid o	ne average ti n 0.4 seconds opping chan or suppress	me of s within a nels
Test Method:		.10-2020, sect 74 D01 15.247		nce v05r02	Aupotek	Anbotek
Anbotek	spectrum a a) Span: T channels t range of o be clearly b) RBW: T	o identify clear channel spac	gs: pand of operatorits, it could s multiple spa	tion. Dependi be necessary ns, to allow th al channels,	ng on the nu to divide the ne individual set the RBW	mber of e frequency channels to to less than
Procedure:	d) Sweep: e) Detecto f) Trace: M	No faster than r function: Pea	ak.ek Anbo	o) time.		
Anbotek Anbotek  Anbotek Anbotek	all of the h regulatory	ove necessary opping freque limit shall be o ot of the datas	ncies. Complia letermined for	ance of an El the number	JT with the a of hopping ch	ppropriate

# 7.1. EUT Operation

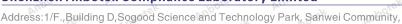
Operating Envir	nment; orek Anborek Anborek Anborek Anborek Anborek Anborek
Test mode:	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation. 6: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

### 7.2. Test Setup



### 7.3. Test Data

Temperature:	26.3 °C	Humidity:	45 %	Atmospheric Pressur	e: 101 kPa









Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 24 of 40

### 8. Dwell Time

Anbor Air	poier	And	- crek	Suporc	Di.	Yes	poler
Test Requirement:	47 CFR 15.	247(a)(1)(iii	) And	ek noo	tek Ant	0,0	VII.
Test Limit:	2483.5 MHz occupancy period of 0. employed.	z band shall on any char 4 seconds n Frequency h ns on a part	7(a)(1)(iii), Fouse at least anel shall not nultiplied by acopping syste icular hoppin	15 channel be greater the number ems may av	s. The aver than 0.4 se of hopping oid or supp	age time econds wi channels ress	of thin a
Test Method:		0-2020, sed 4 D01 15.24	ction 7.8.4 17 Meas Gui	dance v05r0	oz <sub>iek</sub> Anb	upotek	Aupotek Br.
	transmissio a single tra transmissio	n to the end nsmission ponder. If the dev s measured	on a channe of the last to er hop then to ice has a mu from the sta	ansmission he dwell tim Iltiple transr	for that hop ne is the du nissions pe	p. If the deriversity of the read of the r	evice has hat n the
	over an obs determine t measure bo	servation per he time of o oth the dwell	is the total ti riod specified ccupancy the time per ho channel in a	d in the regue e spectrum p and the nu	ılatory requ analyzer wi umber of tin	irement. <sup>-</sup> Il be conf	To igured to
Procedure:	requirement number of of the number based on the dwell times for 1, 3 or 5	ts shall be no channels end of channels ne minimum per channe time slots)	hopping fundade with the abled. If the than comple number of complete Buttern measures and then measures and then measures and the summer of t	e minimum a dwell time p iance with th hannels. If t luetooth dev ements can	and with the per channel ne requirem he device s vices can d be limited	e maximu does not nents may supports o well on a	m vary with be different channel
otek Anbotek A	Use the foll hop:	owing spect	rum analyze	r settings to	determine	the dwell	time per
	a) Span: Ze b) RBW sha	all be ≤ char	ntered on a land	and where	possible RE		Anboren d benborel
	c) Sweep ti last transm	me: Set so t ssion for the	hat the start hop are cle	of the first to arly capture	ransmissior ed. Setting t	n and end the sweep	time to
	1/hopping r d) Use a vid the transmi	ate) should deo trigger, v ssion is clea	he hopping   achieve this where possib rly observed	ole with a trig I. The trigge	gger delay, r level migh	so that th	ie start of djustment
	channel. e) Detector f) Trace: Cl	function: Pe ear-write, sir		ootek Ar	anbotek (	Anbotek Anbotek	









Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 25 of 40

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

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

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

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

### 8.1. EUT Operation

#### Operating Environment:

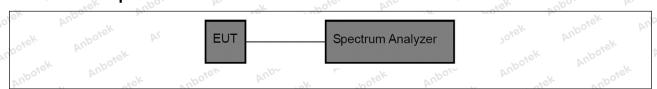
4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..

With GI Six IIIC

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

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

#### 8.2. Test Setup



#### 8.3. Test Data

(no	Temperature:	26.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
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Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 26 of 40

# 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 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 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with
	hopping enabled.
	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
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







Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 27 of 40

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

### 7.8.7.2 Band-edges

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

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

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

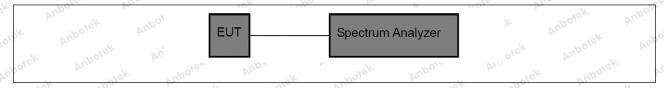
### 9.1. EUT Operation

### Operating Environment:

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

#### 9.2. Test Setup

Test mode:



#### 9.3. Test Data







Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 28 of 40

# 10. Band edge emissions (Radiated)

AQV		702	- PO.
Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
k Aupotek Aupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
or bu	0.009-0.490	2400/F(kHz)	300 0000
shorek Anbo	0.490-1.705	24000/F(kHz)	30
YII.	1.705-30.0	30	30
Anbor Air	30-88	100 **	3,ek abore
boiek Anbo.	88-216	150 **	3
Ans shote	216-960	200 **	3 botel And
Anbors Air	Above 960	500 And	3 Jek Jo
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	frequency bands 54-72 MH However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ing under this section shall not be z, 76-88 MHz, 174-216 MHz or these frequency bands is permitted as 15.231 and 15.241.  If the tighter limit applies at the bein the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	470-806 MHz. sed under other cand edges. measurements uency bands 9– ssion limits in
Poter Pupp		a rock apoison tupo	V Otok
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 N		sk Aups
Procedure:	ANSI C63.10-2020 section	6.10.5.2	or All hotek

# 10.1. EUT Operation

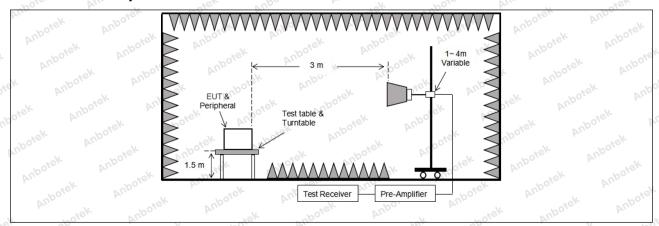
Operating Envir	onment:
Test mode:	<ol> <li>TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.</li> <li>TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.</li> <li>TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.</li> </ol>





Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 29 of 40

### 10.2. Test Setup



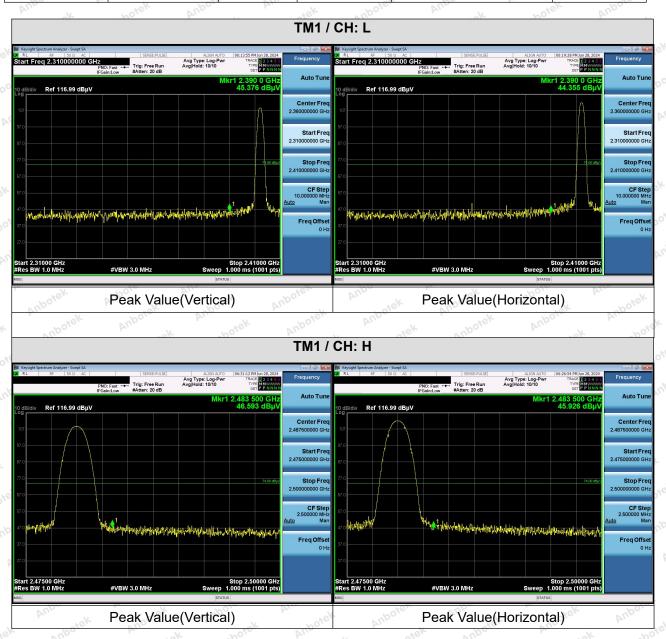




Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 30 of 40

#### 10.3. Test Data

Temperature: 26.3 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



#### Remark

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

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









Report No.: 182512C400300101 Page 31 of 40

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

Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
k Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. Pr. Stek	0.009-0.490	2400/F(kHz)	300 Mbor
Thotek Ando	0.490-1.705	24000/F(kHz)	30
tek upojen	1.705-30.0	30° ANDO	30 And
Aupo, W. Stek	30-88	100 **	3 ek nbote
abotek Anbe	88-216	150 **	3
Air. Tek Thore	216-960	200 **	3 boten And
Test Limit:	Above 960	500 Mark Mark	3 rek onb
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	frequency bands 54-72 MH However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-page 110-490 kHz and a section with the section of the emission limits shown employing a CISPR quasi-page 110-490 kHz and a section with the section of the emission limits shown employing a CISPR quasi-page 110-490 kHz and a section of the emission of	ing under this section shall not be 12, 76-88 MHz, 174-216 MHz or otherwise frequency bands is permitted in the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	470-806 MHz. ed under other  and edges. measurements uency bands 9– sion limits in
parer kap	Di.	a a sek aboven Anbo	V Stoke
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		and andrew
Procedure:	ANSI C63.10-2020 section	6.6.4 And	or All

# 11.1. EUT Operation

Operating Envi	ronment: dek noore And ak horek Ando Ando Ando Ando Ando Ando Ando Ando
Test mode:	<ol> <li>TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.</li> <li>TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.</li> <li>TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.</li> </ol>

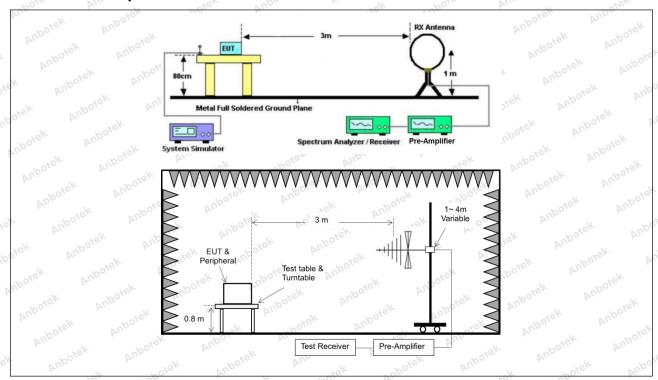






Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 32 of 40

### 11.2. Test Setup





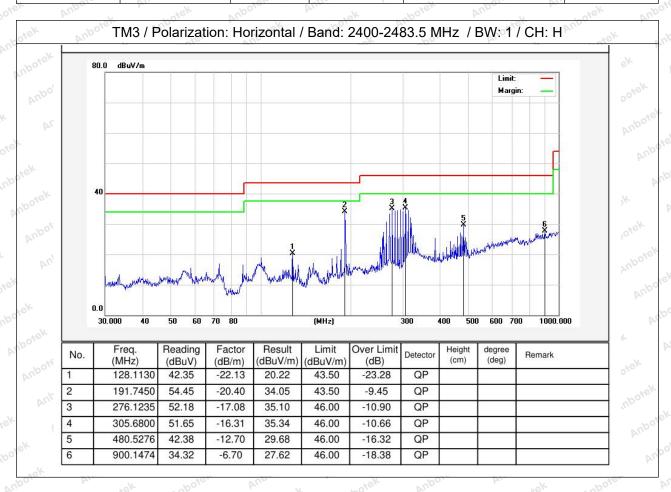


Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 33 of 40

#### 11.3. Test Data

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

	Temperature:	26.3 °C	Humidity:	45%	Atmospheric Pressure: 1	01 kPa
- 1	Tomporatare.	20.0	i i antinaity.	10.70	7 tarresprients 1 1000ars.	o i iti a i

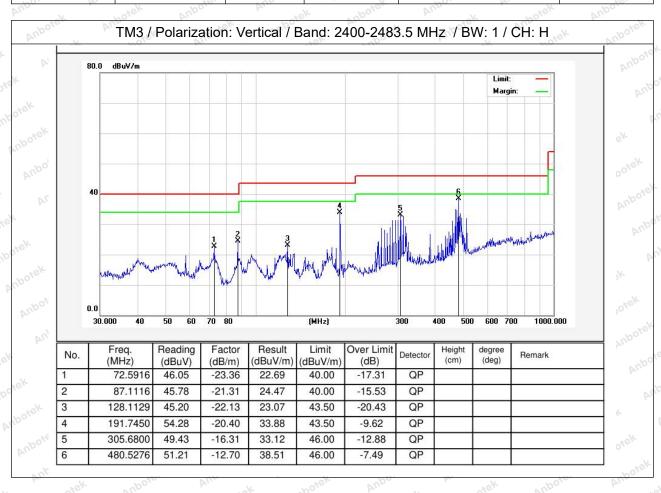






Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 34 of 40

Temperature: 26.3 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.









Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 35 of 40

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

Test Requirement:		ons which fall in the restricted back comply with the radiated emission 5(c)).`	
k Aupotek Vupo,	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
, otek	0.009-0.490	2400/F(kHz)	300 2000
aboren And	0.490-1.705	24000/F(kHz)	30 Lotel
*ek "poter	1.705-30.0	30	30
	30-88	100 **	3,ek nbore
	88-216	150 **	3
	216-960	200 **	3 boier And
	Above 960	500	3 rek
	frequency 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	ing under this section shall not be z, 76-88 MHz, 174-216 MHz or a hese frequency bands is permitted as 15.231 and 15.241.  In the tighter limit applies at the bein the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	470-806 MHz. red under other and edges. measurements uency bands 9– ssion limits in
poter And	10 Apo, Apo,	a sek spotek bupa	V Otek
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ar Aups
Procedure:	ANSI C63.10-2020 section	6.6.4	DOL ALL

# 12.1. EUT Operation

Operating Envir	onment:
Test mode:	<ol> <li>TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.</li> <li>TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.</li> <li>TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.</li> </ol>

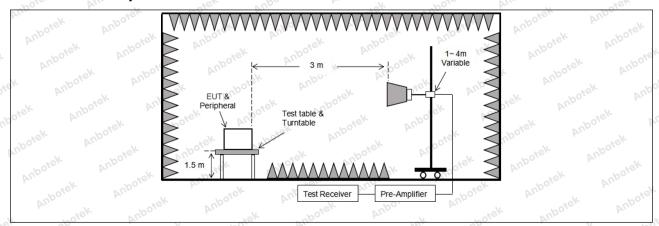






Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 36 of 40

### 12.2. Test Setup







Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 37 of 40

### 12.3. Test Data

	Temperature:	26.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa	
- 1	CCO 2	20	(a) (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		L		

Vu.	hotek Anb		atek anbott	And	ak hotek	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	31.92	15.27	47.19	74.00	-26.81	Vertical
7206.00	32.27	18.09	50.36	74.00	-23.64	Vertical
9608.00	34.72	23.76	58.48	74.00	-15.52	Vertical
12010.00	Vupoje,* V	iek.	Spotek Aup	74.00	otek Anbott	Vertical
14412.00	"Upo#sk	Aupo	hotek E	74.00	rick on	Vertical
4804.00	31.89	15.27	47.16	74.00	-26.84	Horizontal
7206.00	34.21	18.09	52.30	74.00	-21.70	Horizontal
9608.00	30.27	23.76	54.03	74.00	-19.97	Horizontal
12010.00	otek * Aupo	-K 20	iek Aupote	74.00	- nboiek	Horizontal
14412.00	notek* An	DOJE. VILL	rek anbo	74.00	ok hotel	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
4804.00	21.30	15.27	36.57	54.00	-17.43	Vertical
7206.00	21.30	18.09	39.39	54.00	-14.61	Vertical
9608.00	23.74	23.76	47.50	54.00	-6.50	Vertical
12010.00	work.	Anbote. An	sek .	54.00	e Pri	Vertical
14412.00	And *	on potek	Aupo.	54.00	PUP.	Vertical
4804.00	20.24	15.27	35.51	54.00	-18.49	Horizontal
7206.00	23.27	18.09	41.36	54.00	-12.64	Horizontal
9608.00	19.58	23.76	43.34	54.00	-10.66	Horizontal
12010.00	rek *	otek Vupor	rk roj	54.00	Aug-	Horizontal
14412.00	4 ×	wiek ant	Ote And	54.00	Gr. Vupo.	Horizontal



Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 38 of 40

			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	31.94	15.42	47.36	74.00	-26.64	Vertical
7323.00	32.12	18.02	50.14	74.00	-23.86	Vertical
9764.00	33.73	23.80	57.53	74.00	-16.47	Vertical
12205.00	ek * spotek	Anborr	but hotek	74.00	And	Vertical
14646.00	*	tek Wipose	Pur Viel	74.00	Anbo	Vertical
4882.00	31.59	15.42	47.01	74.00	-26.99	Horizontal
7323.00	34.20	18.02	52.22	74.00	-21.78	Horizontal
9764.00	29.97	23.80	53.77	74.00	-20.23	Horizontal
12205.00	*otek	Aupole.	Aug	74.00	YUPO'S BY	Horizontal
14646.00	Ar.	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	21.03	15.42	36.45	54.00	-17.55	Vertical
7323.00	21.40	18.02	39.42	54.00	-14.58	Vertical
9764.00	23.60	23.80	47.40	54.00	-6.60	Vertical
12205.00	k *upor	N. Siek	anbotek	54.00	botek	Vertical
14646.00	otek * Anbot	Anb	ek abotek	54.00	bu. Potek	Vertical
4882.00	20.15	15.42	35.57	54.00	-18.43	Horizontal
7323.00	22.83	18.02	40.85	54.00	-13.15	Horizontal
9764.00	20.09	23.80	43.89	54.00	10.11 Anbe	Horizontal
12205.00	Anb*otek	Anbo	abořek	54.00	"Otek Vi	Horizontal
14646.00	* "otek	VUPO.	Zi.	54.00	AUG	Horizontal





Report No.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 39 of 40

en Aug	rick	anbore	VII.	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	32.21	15.58	47.79	74.00	-26.21 no	Vertical
7440.00	32.13	17.93	50.06	74.00	-23.94	Vertical
9920.00	34.28	23.83	58.11	74.00	-15.89	Vertical
12400.00	* P*	anbore.	Anti-	74.00	Aupo,	Vertical
14880.00	* Vup	iek upołek	Anbo	74.00	Aupore	Vertical
4960.00	31.66	15.58	47.24	74.00	-26.76	Horizontal
7440.00	34.23	17.93	52.16	74.00	-21.84	Horizontal
9920.00	30.65	23.83	54.48	74.00	-19.52	Horizontal
12400.00	AUD * * * * * * * * * * * * * * * * * * *	abotek	Aupo, k	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	22.15	15.58	37.73	54.00	-16.27	Vertical
7440.00	22.41	17.93	40.34	54.00	-13.66 And	Vertical
9920.00	24.15	23.83	47.98	54.00	-6.02	Vertical N
12400.00	k * spojek	Aupor	hotek	54.00	Aug	Vertical
14880.00	* * *	sk Vupoje.	Ann	54.00	Vupo.	Vertical
4960.00	21.59	15.58	37.17	54.00	-16.83	Horizontal
7440.00	24.20	17.93	42.13 Andre	54.00	-11.87 o	Horizontal
9920.00	19.99	23.83	43.82	54.00	-10.18	Horizontal
12400.00	* tek	Anbores	Vur.	54.00	po, by	Horizontal
14880.00	An*	anbotek	Aupo	54.00	Anbole	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.: 182512C400300101 FCC ID: 2AAPKDC1702 Page 40 of 40

### 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 -----

