

FCC ID: 2ATI2-GSVMAX-I Report No.: 18220WC30276101 Page 1 of 40

# **FCC Test Report**

# Applicant

## SHENZHEN GREENJOY TECHNOLOGY CO., LTD

- Address
- 2606,UnitA,Building11,Shenzhen Bay **Technology and Science Eco-**1.0 Park, Nanshan, Shenzhen, Shenzhen, China
- Product Name

# **OVERHEAD GOLF LAUNCH MONITOR**

: Jul. 01, 2024 **Report Date** 



#### Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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Shenzhen Anbotek Compliance Laboratory Limited	
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The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to 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.

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 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: Date of Test:

Anbotek

Dec. 27, 2023 Dec. 27, 2023 ~ Jan. 11, 2024

Nian Xiu Chen

Prepared By:

(Nianxiu Chen)

Idward pan

(Edward Pan)

## Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer:

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## **Revision History**

Report Version		Description		ไรรเ	ed Date	
Anbore R00 potek	Anbotek	Original Issue.	Anbotek	Anbote Jul.	01, 2024	Anbote
Anboi Anboi	tek Anboten	ek Anbotek	Anbotek	Anboi Anboi	Anbotek	Anb
ordek Anborek Ar	boten Anbo	botek Anbotek	Anbor	otek Anbotel	Anboter	A You

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## FCC ID: 2ATI2-GSVMAX-I

## **1. General Information**

## 1.1. Client Information

Applicant	: SHENZHEN GREENJOY TECHNOLOGY CO., LTD	
Address	2606,UnitA,Building11,Shenzhen Bay Technology and Science Eco- Park,Nanshan,Shenzhen, Shenzhen, China	Ant
Manufacturer	: SHENZHEN GREENJOY TECHNOLOGY CO., LTD	
Address	2606,UnitA,Building11,Shenzhen Bay Technology and Science Eco- Park,Nanshan,Shenzhen, Shenzhen, China	
Factory	: SHENZHEN GREENJOY TECHNOLOGY CO., LTD	
Address	2606,UnitA,Building11,Shenzhen Bay Technology and Science Eco- Park,Nanshan,Shenzhen, Shenzhen, China	10010

## 1.2. Description of Device (EUT)

Product Name	:	OVERHEAD GOLF LAUNCH MONITOR
Test Model No.	:	GSVMAX-I And the Andrew Andrew Andrew Andrew Andrew
Reference Model No.	:	PSVMAX, GSVMAX-II, GSVMAX-III, GSVMAX-IV (Note: All samples are the same except the model number, appearance styling, appearance color and infrared light, so we prepare "GSVMAX-I" for test only.)
Trade Mark	:	GOLFJOY
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Model: GST60A24 Input: 100-240V~ 50/60Hz 1.4A Output: 24V 2.5A, 60W MAX.
<b>RF Specification</b>		
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)	:	3.76 dBi
		ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the

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## 1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Antorek Anborer	And hotek Anbotek	Anbor Alt nbotek	Anboten And hote

## 1.4. Operation channel list

**Operation Band:** 

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Ootek	2402	20 tok	2422	40	2442	60	2462
1 botek	2403	21	2423	41	2443	61.10010	2463
2 0 00	2404 10010	22	otek 2424 Moot	42 Anbo	2444	kek 62 prob	2464
3 A A	bote <sup>2</sup> 2405 prio	23	2425	oter 43 An	2445	ibote <sup>k</sup> 63 M	2465
4	2406	<sup>100</sup> 24	2426	Anbot 44	2446	64	2466
5 tek	2407	Anto25	2427	45	2447	65	2467
And otek	2408	26	2428	46 <sup>-01010</sup>	2448	66 botek	2468
7	2409	27. <sup>nbor</sup>	2429	K 47 Anbot	2449	ek 67 Anbo	<sup>ek</sup> 2469 <sup>%</sup>
8 Anu	2410	rek 28 And	2430	otek 48 Ant	2450	68 Notes	2470
9	2411	10 <sup>010</sup> 29	2431	49	2451	69	2471
nb <sup>ot</sup> 10	2412	30	2432	50	2452	70	2472
Antin Lak	2413	31	2433	51 otek	2453	71 botek	2473
12	2414	32,0010	2434	52 52 Anbore	2454	72	2474
13Anbo	2415	iek 33 Anbo	2435	otek 53 Anb	2455×100	73	2475 M
tek 14 Ant	2416	pote <sup>k</sup> 34 pr	2436	54	2456	74	2476
15 vot 15	2417	35	2437	55	2457	75 ×	2477
An 16	2418	36	2438	56	2458	Anotek	2478
17 <sup>oten</sup>	2419	37, otek	2439	57	2459	77	2479
18 nbote	2420	ex 38 noo	2440	58	2460 more	78	2480
et 19 prob	2421	39	po <sup>tek</sup> 2441 M <sup>bc</sup>	59	2461	oter Ant	dek-

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## 1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1nboten	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2 Anotek	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
nboren TM4 ek Anb	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Andorek TM5 ootek	Keep the EUT in continuously transmitting mode (hopping) with $π/4$ DQPSK modulation.
Anboret TM6 Anboret	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

## 1.6. Measurement Uncertainty

Uncertainty
3.4dB
925Hz of house And house And house
0.76dB
1.24dB
1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
3.53dB
Horizontal: 3.92dB; Vertical: 4.52dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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## 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	An potek / Anboten	AnuPotek
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	PAR
Maximum Conducted Output Power	Mode1,2,3	Pro Pro
Channel Separation	Mode4,5,6	Pek
Number of Hopping Frequencies	Mode4,5,6	Anbor P ek
Dwell Time	Mode4,5,6	P
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	PARD
Band edge emissions (Radiated)	Mode1,2,3	P An
Emissions in frequency bands (below 1GHz)	Mode1,2,3	nbore P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Anbore P.ek
Note: P: Pass	And abotek Anbotek	Anbor

N: N/A, not applicable

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#### 1.8. Description of Test Facility

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

#### FCC-Registration No.:434132

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

#### **ISED-Registration No.: 8058A**

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

#### Test Location

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

#### 1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- The test report is invalid if there is any evidence and/or falsification. 2.
- The results documented in this report apply only to the tested sample, under the conditions and 3. modes of operation as described herein.
- This document may not be altered or revised in any way unless done so by Anbotek and all 4. 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.
  - The authenticity of the information provided by the customer is the responsibility of the customer 6 and the laboratory is not responsible for its authenticity.

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

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## 1.10. Test Equipment List

	······	PUP				
Item	Equipment	Manufacturer	Model No.	Serial No.	Ke <sup>k</sup> Last Cal.	Cal.Due Date
۶ ۲	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
otek 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 N/A	rek /Anborek	Anboisek
7	Not Not	p.v.	oter and		ick wo	e. Bu

Anbotek

	Occupied Bandwidth
_	Maximum Conducted Output Power
0	Channel Separation
	Number of Hopping Frequencies
2	Dwell Time
	Emissions in non-restricted frequency bands

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22
	Constant Temperature Humidity Chamber DC Power Supply Spectrum Analyzer MXA Spectrum Analysis Oscilloscope MXG RF Vector	Constant Temperature Humidity Chamber DC Power Supply Spectrum Analyzer MXA Spectrum Analysis Oscilloscope MXG RF Vector	Constant Temperature Humidity ChamberZHONGJIANZJ- KHWS80BDC Power SupplyIVYTECHIV3605Spectrum AnalyzerRohde & SchwarzFSV40-NMXA Spectrum AnalysisKEYSIGHTN9020AOscilloscopeTektronixMDO3012MXG RF VectorAcilentN5182A	Constant Temperature Humidity ChamberZHONGJIANZJ- KHWS80BN/ADC Power SupplyIVYTECHIV36051804D360 510Spectrum AnalyzerRohde & SchwarzFSV40-N101792MXA Spectrum AnalysisKEYSIGHTN9020AMY505318 23OscilloscopeTektronixMDO3012C020298MXG RF VectorAgilentN5182AMY474206	Constant Temperature Humidity ChamberZHONGJIANZJ- KHWS80BN/A2023-10-16DC Power SupplyIVYTECHIV36051804D360 5102023-10-20Spectrum AnalyzerRohde & SchwarzFSV40-N1017922023-05-26MXA Spectrum AnalysisKEYSIGHTN9020AMY505318 232023-02-23OscilloscopeTektronixMDO3012C0202982023-10-12MXG RF VectorAgilentN5182AMY474206 2023-02-232023-02-23

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	edge emissions (Ra sions in frequency ba		Anboran	Anbotek	Anbotek	Anbo
ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
1° <sup>K</sup> 3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
<sup>1b</sup> 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	And	Anbotek
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
<sup>روپر</sup> 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emissions in frequency bands (below 1GHz)

- 100	biolic in inequelley be					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antote	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.nb	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/Anbot	Anbo	k Anbotek

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## 2. Antenna requirement

botek Anbo	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
And k botek	ensure that no antenna other than that furnished by the responsible party
Test Requirement:	shall be used with the device. The use of a permanently attached antenna or
a Anbotek Anbot	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 **3.76 dBi**. It complies with the standard requirement.

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## 3. Conducted Emission at AC power line

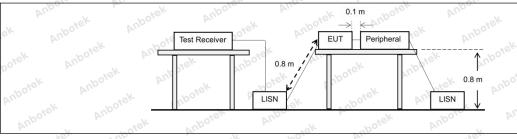
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that ny frequency or frequencie of exceed the limits in the fo	nected to the at is conducted s, within the ollowing table, as
abotek Anbor	Frequency of emission (MHz)	Conducted limit (dBµV)	An wotek
	And k hotek Anbor	Quasi-peak	Average
Anbor An.	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 tek noote And	56 horek An	46
	5-30 And	60	50 ter And
	*Decreases with the logarithm of t	the frequency.	
Test Method:	ANSI C63.10-2020 section 6.2	abotek Anbote.	And
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un		

## 3.1. EUT Operation

## **Operating Environment:**

4	
And	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-
tek nbore.	hopping) with GFSK modulation.
Test mode:	2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode
Test mode.	(non-hopping) with $\pi/4$ DQPSK modulation.
lek ab	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-
Anbore An	hopping) with 8DPSK modulation.

## 3.2. Test Setup



#### Shenzhen Anbotek Compliance Laboratory Limited

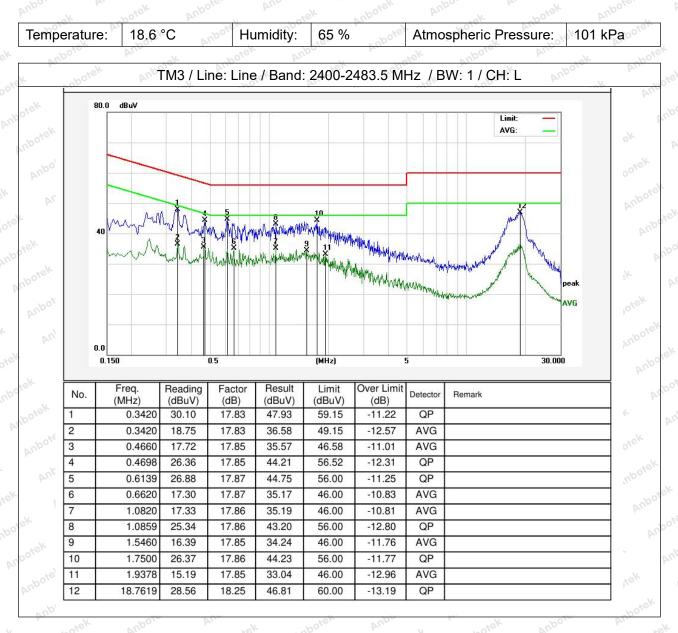
Address:1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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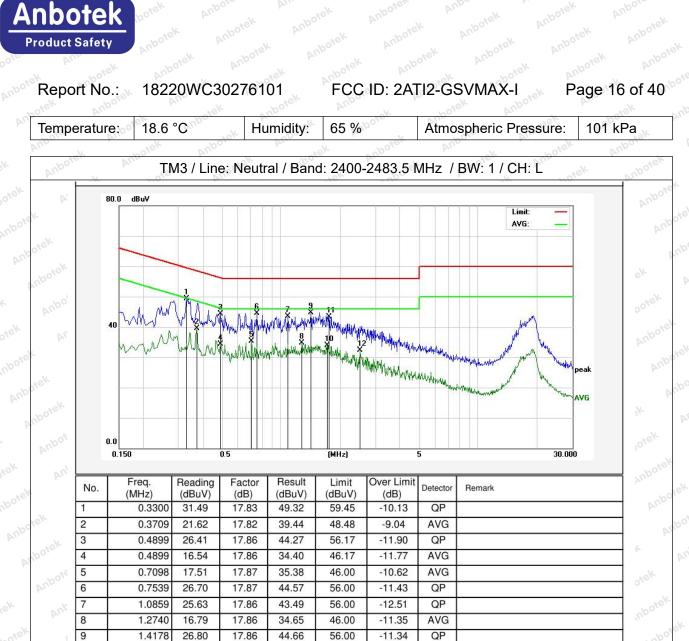
## 3.3. Test Data



#### Shenzhen Anbotek Compliance Laboratory Limited

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Note:Only record the worst data in the report.

16.06

25.51

14.48

17.85

17.85

17.85

33.91

43.36

32.33

46.00

56.00

46.00

-12.09

-12.64

-13.67

AVG

QP

AVG

1.7138

1.7459 2.5019

10

11

12

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## 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.
Anborek Anborek Anbore	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
	<ul><li>frequency. The frequency span for the spectrum analyzer shall be between</li><li>1.5 times and 5.0 times the OBW.</li><li>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to</li><li>5% of the OBW, and VBW shall be at least three times the RBW, unless</li></ul>
	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
Procedure:	<ul><li>4.1.6.2.</li><li>d) Step a) through step c) might require iteration to adjust within the specified range.</li></ul>
	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.
	<ul><li>f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.</li><li>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.</li></ul>
	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
Anboten Anbu	the plot(s).

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#### 18220WC30276101 Report No .:

## FCC ID: 2ATI2-GSVMAX-I

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## 4.1. EUT Operation

Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- hopping) with GFSK modulation.
Test mode:	<ul> <li>2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.</li> <li>3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-</li> </ul>
Q~	hopping) with 8DPSK modulation.

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## 4.2. Test Setup

EUT	Spect	rum Analyzer	
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## 4.3. Test Data

Temperature:	24.3 °C	Humidity:	44 % No <sup>161</sup>	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

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## 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: et Anboret	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.
nbotek Anbotek A	<ul> <li>b) RBW &gt; 20 dB bandwidth of the emission being measured.</li> <li>c) VBW ≥ RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> <li>e) Detector function: Peak.</li> </ul>
Procedure:	<ul> <li>f) Trace: Max-hold.</li> <li>g) Allow trace to stabilize.</li> <li>h) Use the marker-to-peak function to set the marker to the peak of the emission.</li> </ul>
ter And Andotek A	<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</li> </ul>
Anbotek Anbotek Anbotek Anbotek	the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

## 5.1. EUT Operation

Operating Envir	ronment:					
Test mode:	1: TX-GFSK (Nor hopping) with GF 2: TX-π/4-DQPS (non-hopping) wi 3: TX-8DPSK (Nor hopping) with 8D	SK modulation K (Non-Hopping th π/4 DQPSK on-Hopping): Ke	g): Keep the modulation. eep the EU⁻	EUT in continu	uously transi	mitting mode

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## 5.2. Test Setup

e.	Anbotek		EUT	Spec	trum Analyzer	AU		Anbotek	
0 <sup>%6</sup>	k Anbotek	Anborc	An	Anboter	And	Anbotek	Anbotek	Anbor	

## 5.3. Test Data

Temperature:	24.3 °C	Humidity:	44 %	Atmospheric Pressure:	101 kPa
- AV	.V. 100'	[24]	_101		NO.

Please Refer to Appendix for Details.

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## 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
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

## 6.1. EUT Operation

Operating Envi	ronment: ** Anborer Anborer Anborer Anbor
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

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6.3. Test Dat	taotek	Anbotek	Anborn	SK bu	nbotek	Anboten	Anbotek	Anbotek	K
Temperature:	24.3 °C	Aupor	Humidity:	44 %	Anbotet	Atmospheric	Pressure:	101 kPa	te.
Please Refer to	o Appendix	for Deta	ails.						

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## 7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	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
Procedure:	<ul> <li>The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:</li> <li>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.</li> <li>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.</li> <li>c) VBW ≥ RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Max-hold.</li> <li>g) Allow the trace to stabilize.</li> </ul>
tooten Anbo Anbotek Anbotek	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 Envir	ronment:
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>

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## 7.2. Test Setup

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## 7.3. Test Data

Temperature:	24.3 °C	-*eK	Humidity:	44 %	Atmospheric Pressure:	101 kPa
					No. No.	

Please Refer to Appendix for Details.

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## FCC ID: 2ATI2-GSVMAX-I

## 8. Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	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
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission. 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.
otek Anboitek Ar	Use the following spectrum analyzer settings to determine the dwell time per hop:
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	<ul> <li>a) Span: Zero span, centered on a hopping channel.</li> <li>b) RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected transmission time per hop.</li> <li>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.</li> <li>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.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Clear-write, single sweep.</li> <li>g) Place markers at the start of the first transmission on the channel and at</li> </ul>

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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:

tek Anbotek	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Test mode:	5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
Anbotek Anb	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

## 8.2. Test Setup

	EUT	Spectrum	Analyzer
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#### 8.3. Test Data

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Temperature:	24.3 °C	Ans	Humidity: 44 %	Anbo	Atmospheric Pressure:	101 kPa

#### Please Refer to Appendix for Details.

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## 9. Emissions in non-restricted frequency bands

Procedure:       band in which the spread spectrum or digitally modulated 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 transmitted 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 (b)(3) of this section, the attenuation required under this paragraph (b)(3) of this section, the attenuation below the general limits specified in § 15.209(a) is not required.         Test Method:       ANSI C63.10-2020 section 7.8.7         7.8.7.1 General considerations       To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.         Procedure:       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 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 coupled sweep time with a peak detector.         Procedure:       The limit is based on the highest in-band level across all channels measure using the same instrument settings (resolution bandwidth of 100 kHz, videco bandwidth 300 kHz	Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
<ul> <li>7.8.7.1 General considerations         <ul> <li>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.</li> <li>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             coupled sweep time with a peak detector.</li> </ul> </li> <li>Procedure:         <ul> <li>Procedure:</li> <li>When conducted measurements cannot be weep time with a peak detector.</li> <li>The limit is based on the highest in-band level across all channels measure             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.</li> </ul> </li> <li>When conducted measurements cannot be made (for example a device wit         integrated, non-removable antenna) radiated measur</li></ul>	Test Limit: Anborek	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 §
Procedure:       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 coupled sweep time with a peak detector.         Procedure:       The limit is based on the highest in-band level across all channels measure 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 will 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 offs	Test Method:	ANSI C63.10-2020 section 7.8.7
<ul> <li>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 coupled sweep time with a peak detector.</li> <li>Procedure:</li> <li>The limit is based on the highest in-band level across all channels measure 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.</li> <li>When conducted measurements cannot be made (for example a device wit 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 measurir 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</li> </ul>		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
Procedure: using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided. When conducted measurements cannot be made (for example a device wit 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 measurin 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		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
<ul> <li>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.</li> <li>When conducted measurements cannot be made (for example a device wit 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 measurin 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</li> </ul>	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
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 measurin 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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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
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 measurin 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		An Anborer And Lek abotek Anbor A
standards measurement procedures described in Clause 6 with the		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)
	Anboten Anbo	standards measurement procedures described in Clause 6 with the

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

#### 7.8.7.2 Band-edges

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

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

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

## 9.1. EUT Operation

Operating Envir	onment:
oten Anbou	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-
botek Anbo.	hopping) with GFSK modulation.
and anotek Anbr	2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
An-	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- hopping) with 8DPSK modulation.
Test mode:	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
anboten k	5: TX- $\pi$ /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode
nbotek Anboten	(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

otek		Anbot	EUT	Spectrum	Analyzer		
9.3	. Test Data	K Anborek	Anborek ak Anborek	Anbotek	Anborer	Anbotek	Anbotek
Ten	perature:	24.3 °C	Humidity:	44 %	Atmospheri	c Pressure:	101 kPa

#### Please Refer to Appendix for Details.

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## 10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
K Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 m <sup>bore</sup>
aboten Anbo	0.490-1.705	24000/F(kHz)	30 John Market
	1.705-30.0	30° ht dek mbo	30 And
	30-88	100 **	3 ek noore
	88-216	150 ** Noter N	3
	216-960	200 **	3 boten And
Test Limit:	Above 960	500 Jotek Antol	3 dek ont
	intentional radiators operati 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- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissi ing under this section shall not b iz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section	6.10 <sup>ek</sup> And	ak aboret

## 10.1. EUT Operation

Operating Envir	ronment: <sup>ek</sup> An <sup>bo</sup> A <sup>k</sup> botek An <sup>botek</sup> An <sup>b</sup>
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>

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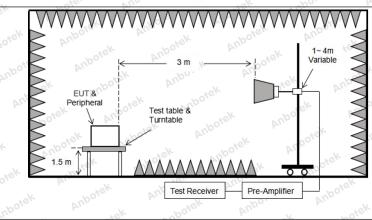
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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## 10.2. Test Setup



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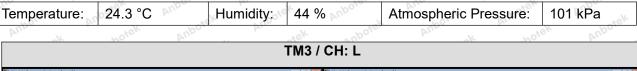


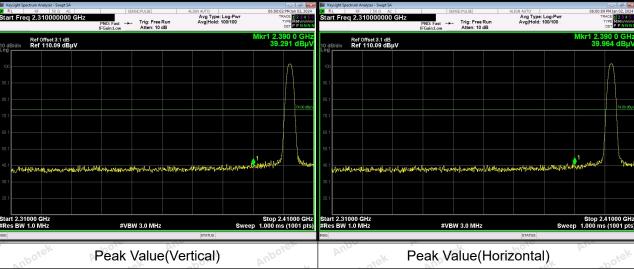
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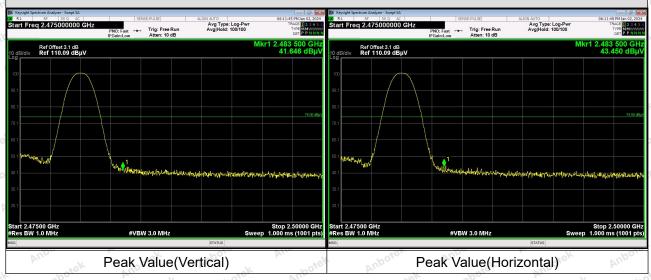
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## 10.3. Test Data





#### TM3 / CH: H



#### Remark:

- 1. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.
- 2. During the test, pre-scan all modes, the report only record the worse case mode.

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

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also comp ccified in § 15.209(a)(see § 15.2	ly with the 🔊 🔍
Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
h. herek	0.009-0.490	2400/F(kHz)	300 000
aboten Anbo	0.490-1.705	24000/F(kHz)	30
All Anboter	1.705-30.0	30° pri dek noo	30
Anbo	30-88	100 **	3 tek noore
aboten Anbo	88-216	150 **	3
Ar. stek unbote	216-960	200 **	3 boten And
Anbo	Above 960	500 hotek Anbo	3 dek no
Test Limit: Dreit Anborek	intentional radiators operati 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- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed 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	
Procedure:	ANSI C63.10-2020 section	6.6.4 And	otek Anboten

## 11.1. EUT Operation

Operating Envir	ronment: Anbor An potek Anbore And stek Anborek Anbor
Test mode:	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.

#### Shenzhen Anbotek Compliance Laboratory Limited

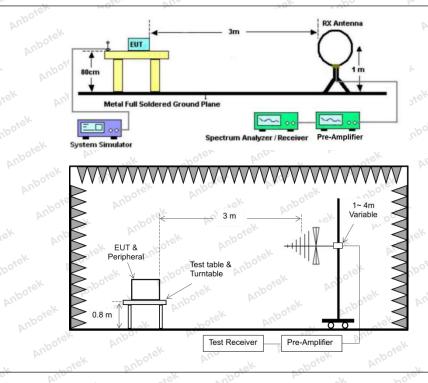
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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## 11.2. Test Setup



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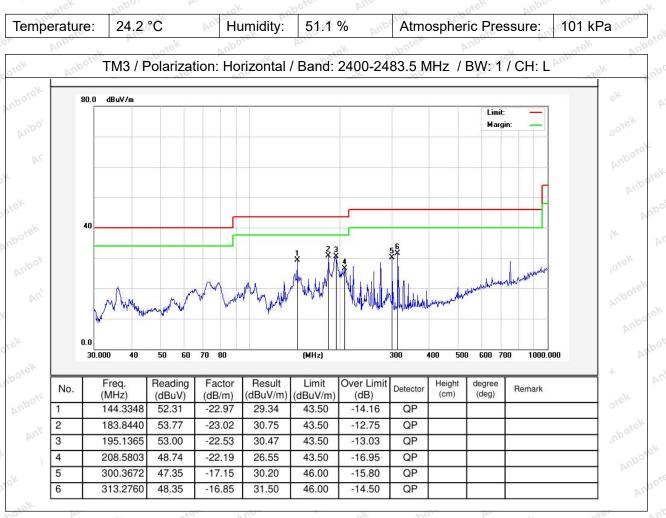




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## 11.3. Test Data

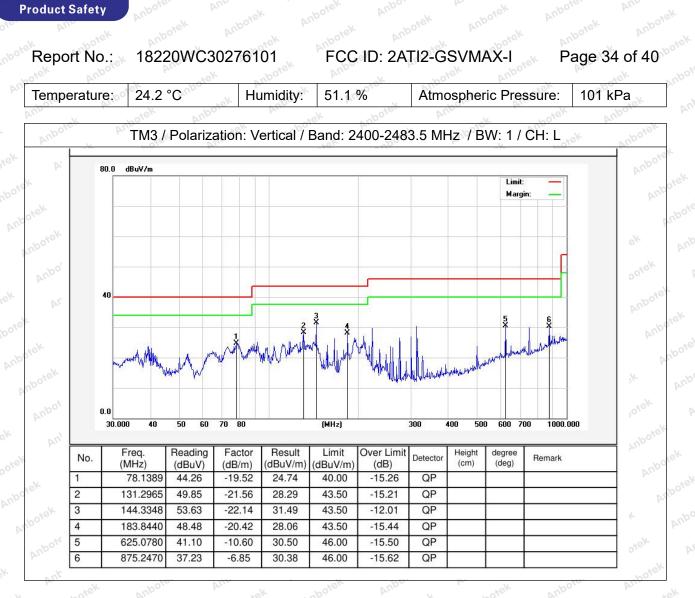
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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Note:Only record the worst data in the report.

Anbotek

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

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).							
k Anbotek Anbot otek Anbotek An	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
v hotek	0.009-0.490	2400/F(kHz)	300 000					
nboten And	0.490-1.705	24000/F(kHz)	30 Stek					
arek anborer	1.705-30.0	30° At More And	30 And					
Anbo	30-88	100 **	3 tek noore					
aboten Anbe	88-216	150 **	3 rel					
pr. stek snbote	216-960	200 **	3 boten And					
Anbo	Above 960	500 Motel Andre	3 dek no					
Test Limit: orek Anborek Anbor	intentional radiators operati 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- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissi ing under this section shall not b iz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	e located in the 470-806 MHz. ed under other band edges. measurements uency bands 9– ssion limits in					
Test Method:	ANSI C63.10-2020 section	6.6.4						
Procedure:	ANSI C63.10-2020 section	6.6.4 And And	otek Anboten					
boten Ann	dek hobor	An above An	otek					

## 12.1. EUT Operation

Operating Envir	ronment: Anbore Anbore Anbore Anbore Anbore Anbore Anbore Anbore
Test mode:	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.

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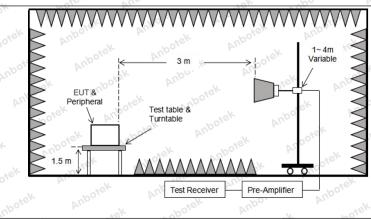
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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## 12.2. Test Setup



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#### 12.3. Test Data

Temperature:	24.2 °C	Humidity:	51.1 %	Atmospheric Pressure:	101 kPa
DUP	19 Martin	0. N.	V SON	DUR	ek soo

	TM3 / CH: L							
Peak value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization		
4804.00	28.98	15.27	44.25	74.00	-29.75	Vertical		
7206.00	29.83	18.09	47.92	74.00	-26.08	Vertical		
9608.00	31.28	23.76	55.04	74.00	-18.96	Vertical		
12010.00	Anbote * Ar	in sek	abotek Anb	74.00	otek Anbott	Vertical		
14412.00	anbo*ek	Anbo	botek P	74.00	stek ont	Vertical		
4804.00	29.20	15.27	44.47	74.00	-29.53	Horizontal		
7206.00	30.68	18.09	48.77	74.00	-25.23	Horizontal		
9608.00	29.01	23.76	52.77	74.00	-21.23	Horizontal		
12010.00	potek * Anbo	k no	tek Anbore	74.00	r nbotek	Horizontal		
14412.00	-botek * An	pore Ann	atek unb	74.00	walk woote	Horizontal		

#### Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.36	15.27	33.63	54.00	-20.37	Vertical
7206.00	18.86	18.09	36.95	54.00	-17.05	Vertical
9608.00	20.30	23.76	44.06	54.00	-9.94	Vertical
12010.00	notet.	Anboten An	-iek	54.00 M <sup>00</sup>	-k vi	Vertical o
14412.00	And *	abotek	Anbo, A	54.00	bote. And	Vertical
4804.00	17.55	15.27	32.82	54.00	-21.18	Horizontal
7206.00	19.74	18.09	37.83	54.00	-16.17	Horizontal
9608.00	18.32	23.76	42.08	54.00	-11.92	Horizontal
12010.00	sek *	otek Anbo.	ak not	54.00	Ann	Horizontal
14412.00	hoo *	botek Ant	ore And	54.00	ek Aupo	Horizontal
		111-	79.	0 <sup></sup>		10 011

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		٦	ГМ3 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	29.00	15.42	44.42	74.00	-29.58	Vertical
7323.00	29.68	18.02	47.70	74.00	-26.30	Vertical
9764.00	30.29	23.80	54.09	74.00	-19.91	Vertical
12205.00	ek * spotek	Anbor	hotek	74.00	And	Vertical
14646.00	*	rek Anbore	And	74.00	Anbor	Vertical
4882.00	28.90	15.42	44.32	74.00	-29.68	Horizontal
7323.00	30.67	18.02	48.69	74.00	-25.31	Horizontal
9764.00	28.71	23.80	52.51	74.00	-21.49	Horizontal
12205.00	* sotek	Anbore	Ann	74.00	upor pr	Horizontal
14646.00	Alt atek	nbotek	Anbor	74.00	Anboro	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	18.09	15.42	33.51	54.00	-20.49	Vertical
7323.00	18.96	18.02	36.98	54.00	-17.02 And	Vertical
9764.00	20.16	23.80	43.96	54.00	-10.04	Vertical
12205.00	k Anbore	An	Anboten	54.00	obotek	Vertical
14646.00	otek * Anbot	And	ek abotek	54.00	Amorek	Vertical
4882.00	17.46	o <sup>rek</sup> 15.42 m <sup>bo</sup>	32.88	54.00	-21.12	Horizontal
7323.00	19.30	18.02	37.32	54.00	-16.68	Horizontal
9764.00	18.83	23.80	42.63	54.00	bote - 11.37 prof	Horizontal
12205.00	Antorek	Anbur	abotek	54.00	wotek A	Horizontal
14646.00	* botek	Anbore	Mr. Stok	54.00	And	Horizontal

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		٦	TM3 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.27	15.58	44.85	74.00	-29.15 m <sup>ol</sup>	Vertical
7440.00	29.69	17.93	47.62	74.00	-26.38	Vertical
9920.00	30.84	23.83	54.67	74.00	-19.33	Vertical
12400.00	*	Anboren	Anb	74.00	Anbore	Vertical
14880.00	* And	ek spotel	Aupor	74.00	Anboten	Vertical
4960.00	28.97	15.58	44.55	74.00	-29.45	Horizontal
7440.00	30.70	17.93	48.63	74.00	-25.37	Horizontal
9920.00	29.39	23.83	53.22	74.00	-20.78	Horizontal
12400.00	Anbe *ek	abotek	Anbore	74.00	nboten Ant	Horizontal
14880.00	Alt Or	pri notek	Anboren	74.00	anbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatior
4960.00	19.21	15.58	34.79	54.00	-19.21	Vertical
7440.00	19.97	17.93	37.90	54.00	-16.10	Vertical
9920.00	20.71	23.83	44.54	54.00	-9.46	Vertical
12400.00	k * abotek	Anbor	pri hotek	54.00	Anne	Vertical
14880.00	* not	anboro.	Ant	54.00	Anbo	Vertical
4960.00	18.90	15.58 not	34.48	54.00	-19.52	Horizontal
7440.00	20.67	17.93	otek 38.60 pho	54.00	-15.40°°°	Horizontal
1.01.11	V// =		p	N	V	

#### 10 2014/ 20 76

/ / / /

#### Remark:

12400.00

14880.00

- 1. Result =Reading + Factor
- 2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

54.00

54.00

3. Only the worst case is recorded in the report.

\* .0

\*

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Horizontal

Horizontal



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## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

## APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report ----

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