

Anbotek

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Report No.:1819C40011012501

FCC ID: 2AEW6-TE2390

# FCC Test Report

Applicant : TESONIC INTERNATIONAL (HK) LTD.

Address Room 2801,the 28th Office Tower, 6007 Shennan

Avenue, Shenzhen, China

Product Name : ANC & ENC BLUETOOTH TWS STEREO

Compliance

EARBUDS WITH LED DISPLAY

Report Date : Sept. 03, 2024

Shenzhen Anbotek Compliance Laboratory Limited









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# TEST REPORT

TESONIC INTERNATIONAL (HK) LTD. Applicant

Manufacturer TESONIC INTERNATIONAL (HK) LTD.

ANC & ENC BLUETOOTH TWS STEREO EARBUDS WITH LED **Product Name** 

DISPLAY

Model No. NCE-12/2390

Trade Mark N/A

Input: 5V-300mA

Case battery capacity: DC 3.7V, 300mAh Rating(s)

Single Earphone battery capacity: DC 3.7V, 30mAh

47 CFR Part 15.247

ANSI C63.10-2020 Test Standard(s)

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:	Aug. 06, 2024
And Anborek Anborr	k Aupole, Aug
Date of Test:	Aug. 06, 2024 to Aug. 19, 2024
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Prepared By:	Vupo, W. Jok Spores Aug
upo, Wolek Aupore, Yu.	(Nianxiu Chen)
Aupotek Vupotek Vupotek Vupotek Vupot	Idward pan
Approved & Authorized Signer:	Potek Vupo, W. Viek Vupore,
Augo Augorek Augoon A	(Edward Pan)





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# **Revision History**

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'n upotek	Report Version	Description	Issued Date
Anb.	Rek Anbotek Roo Anbotek	Original Issue.	Sept. 03, 2024
1	Aupolek Aupole Whole	V Aupore Auporek	Aupotes Aug
tek	Vipores, Viporek Viporek	otek Aupolek Aupolek	Auporek Auporek
'upolek	Aupo, Votek Vupotek	Vipole Vipolek Vipolek Vipol	er Vupolek Vupolek

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#### 1. General Information

### 1.1. Client Information

Di.	16, 10, 16
Applicant	: TESONIC INTERNATIONAL (HK) LTD.
Address	Room 2801,the 28th Office Tower, 6007 Shennan Avenue, Shenzhen, China
Manufacturer	: TESONIC INTERNATIONAL (HK) LTD.
Address	Room 2801,the 28th Office Tower, 6007 Shennan Avenue, Shenzhen, China
Factory	: TESONIC INTERNATIONAL (HK) LTD.
Address	Room 2801,the 28th Office Tower, 6007 Shennan Avenue, Shenzhen, China

#### 1.2. Description of Device (EUT)

Paris - O	CF	Approx rek about A ok shotel
Product Name	:	ANC & ENC BLUETOOTH TWS STEREO EARBUDS WITH LED DISPLAY
Model No.	:	NCE-12/2390 And Andrew Andrew Andrew Andrew Andrew
Trade Mark	:	N/A Aupotek Aupotek Aupotek Aupotek Aupotek Aupotek Aupotek
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 Anbote
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	Ceramic Antenna
Antenna Gain(Peak)	:	2.67dBi Anbotek Anbotek Anbotek

#### 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.
- (3) The EUT consists of two parts, the left and right earphone, both have been tested and only the test data of right earphone recorded in this report.







### 1.3. Auxiliary Equipment Used During Test

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

#### 1.4. Operation channel list

**Operation Band:** 

Operation i	Band:	" upo"	by.	'd' 4'	Ope. Ville	3.0	. Otek
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
O Anbo	10 10 Love 2402 Ant	otek 20 A	2422	,00040	2442	60 tek	2462
1 A	2403	Anbot21	2423	41, rek	2443	61	2463 no o te
Anbolek 2	2404	22	2424	42	2444	62	ote* 2464 Ant
Aup 3 jek	2405	23,botek	2425	43	otek 2445 And	63	2465
Abolek	2406	24 <sub>NAD</sub>	2426 March	44	2446	inpole 64	2466
5 Anbo	2407	25	2427	45	2447	65	2467
otek 6	2408	26	2428	Ant 46	2448	66	2468
7	2409	Anboard 27	2429	47	2449	67 Anbo	2469
Anb 8,ek	2410	28	2430	48 Anbot	2450	otek 68 N	2470 AT
Anbo.	2411	29 nb 04	2431	rek 49 Ari	2451	69	2471
10	2412 nbo	ek 30 kup	2432	300 to 50	2452	70 <sub>0</sub> k	2472
11 And	2413	hotel 31	2433	51	2453	<sup>A</sup> 71 <sub>10</sub> 164	2473
12 novek	2414	32	2434	52 otek	2454	72	2474 Anbo
Anbolis	2415	33	2435	53	2455 <sub>M</sub> bo <sup>M</sup>	73 And	2475
14 rek	2416	34 nbot	2436	54	2456	<sup>00181</sup> 74	2476
15 nbole	2417	35	otek 2437 km	55	2457	Anbores	2477
16 AN	o <sup>tek</sup> 2418 And	36	2438	Anbot 56	2458	76	2478
17 New 17	2419	37 <sub>k</sub>	2439	A757	2459	77 nbote	2479
18	2420	M438	2440	58	2460	er 78 <sub>Ant</sub>	2480 And
And 19 tek	2421	39	2441	* 59 Anb	2461	Lotek -	Aupolek 1
WV			Co. 10 11.		- 0.5	47	- 1/







#### 1.5. Description of Test Modes

Pretest	Modes	Descriptions
nek AnboTN	1 Anbor	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
NTA ATIO	2 And	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
Anbotek TIV	3 Alek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
Aupoles IN	4 Ando	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Aupore IN	5 Anbotek	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
TIV	6k Aupor	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

## 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Anbote Anbote
Occupied Bandwidth	925Hz Andrew Andrew Andrew
Conducted Output Power	0.76dBek Anbore
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.









#### 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	otek / Aupotek	Vubb Fek
Conducted Emission at AC power line	Mode1,2,3	Pupo.
Occupied Bandwidth	Mode1,2,3	k b vup.
Maximum Conducted Output Power	Mode1,2,3	boyek B b
Channel Separation	Mode4,5,6	Anbotek
Number of Hopping Frequencies	Mode4,5,6	An Brek
Dwell Time Otek Anbotek Anbotek	Mode4,5,6	Panbole
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	ek P And
Band edge emissions (Radiated)	Mode1,2,3	hotek P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	No IBA
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Pur Polek
Note: P: Pass N: N/A, not applicable	Aupotek Vupotek	Aupore

#### 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<sup>®</sup>

Shenzhen Anbotek Compliance Laboratory Limited.

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







#### 1.9. Disclaimer

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

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



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Report No.:1819C40011012501 FCC ID: 2AEW6-TE2390

# 1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupolek	Aug. Olek	Anbotek	Aupo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
o lek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
<sup>1</sup> 2001	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3 1	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Aur	Aupliek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

**Channel Separation** 

Number of Hopping Frequencies

**Dwell Time** 

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Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Item	n Equipment Manufacturer		Model No.	Serial No.	Last Cal.	Cal.Due Date
1 Anbotek	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A Ando	2023-10-16	2024-10-15
2 <sub>Anb</sub>	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
₽6°01€	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



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odnoie	y Aupolek	Aupore Wil	otek Anbo	ie. Viek	Anbotek Ar	ipotek Vupo	upole
	edge emissions (Ra sions in frequency ba		Aupole, b	'up upotek	Aupolek	Aupo, Polek	PU,
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
ce×1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	
nb 28 K	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16	olek
3/00	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15	nbol
4 🔊	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Vupole,	Vup Yek	AT
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11	
6 18 1	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05	+ Jan
<sup>hbo</sup> 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06	010

	sions in frequency ba	184	· Upolek	Aupo	" Notek	Aupole
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Dat
<sup>lot</sup> ot	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2,10	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3 Ant	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5	EMI Test Software EZ-EMC	SHURPLE SHURPLE	N/A Notek	N/A/potel	Aupor	k I Vupote

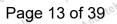
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### 2. Antenna requirement

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 Ceramic Antenna which permanently attached, and the best case gain of the antenna is 2.67dBi. It complies with the standard requirement.







# 3. Conducted Emission at AC power line

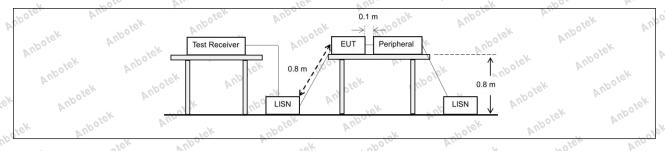
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator to public utility (AC) power line, the raback onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that y frequency or frequencie exceed the limits in the fo	nected to the at is conducted as, within the collowing table, as
upotek Anbore	Frequency of emission (MHz)	Conducted limit (dBµV)	Aupa
A. OK	oker, Vun	Quasi-peak	Average
ekabole Air	0.15-0.5	66 to 56* 10°	56 to 46*
Test Limit:	0.5-5	56 And	46 nbo
Potek Aupor	5-30 or Anhors	60 Notes A	50
Jiek Wupotek	*Decreases with the logarithm of th	ne frequency.	Anbore. Ans
Test Method:	ANSI C63.10-2020 section 6.2	Auporer, Yun	unpoiek b
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-

#### 3.1. EUT Operation

Operating Envi	ronment:	bolek	Aupolo	bu. Polek	Vupo ier	Ans
Test mode:	1: TX-GFSK (Non- hopping) with GFS 2: TX-π/4-DQPSK (non-hopping) with 3: TX-8DPSK (Nor hopping) with 8DP	K modulation. (Non-Hopping) π/4 DQPSK m n-Hopping): Kee	: Keep the El lodulation. ep the EUT in	JT in continuous	ly transmittin	g mode

#### 3.2. Test Setup

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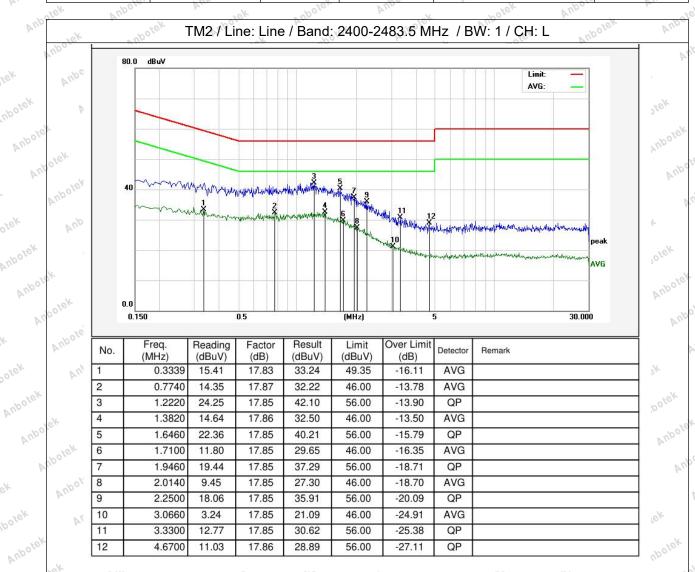




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#### 3.3. Test Data

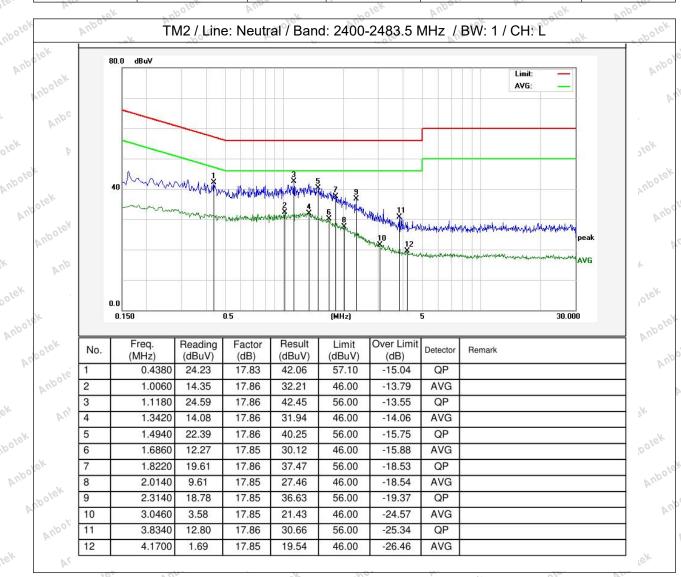
Temperature: 22 °C Humidity: 50 % Atmospheric Pressure: 101 kPa







Temperature: 22 °C Humidity: 50 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.





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# 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	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
Aupotek Vupotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:  a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
Potek Vupotek  Votek Vupotek  Votek	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal
Anbotek Anbotek	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 and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.</li> </ul>
Anbotek Anbotek	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.
upotek Yupotek Tek Yupotek	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%
Aupotek Aupote	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
Auporer Aur	the plot(s).





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#### 4.1. EUT Operation

Operating Environment:

1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-

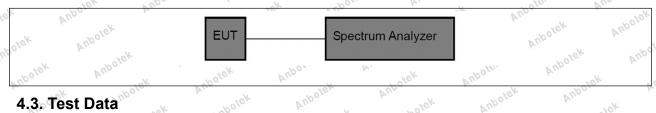
hopping) with GFSK modulation.

2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode Test mode:

(non-hopping) with  $\pi/4$  DQPSK modulation.

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

#### 4.2. Test Setup



#### 4.3. Test Data

Temperature: 26.3 °C Humidity: 45 % Atmos	spheric Pressure: 101 kPa
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Please Refer to Appendix for Details.





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Report No.:1819C40011012501 FCC ID: 2AEW6-TE2390

## 5. Maximum Conducted Output Power

VIII	rek "Up, "K "Por W.
Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Anbotek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
potek Aupotek Aug	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:
Aupotek Aupote	<ul> <li>a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.</li> <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> </ul>
Procedure: hotek	e) Detector function: Peak. 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
Wupotek Wupote	emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report.
opotek Vupotek	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

Y-	Operating Envir	onment:	sporek Aupo,	rotek.	Vupole.	VIII
000	Test mode: Anbore	hopping) with GFSK 2: TX-π/4-DQPSK (Non-hopping) with π	Non-Hopping): Keep th r/4 DQPSK modulatior	ne EUT in continuo	ously transm	itting mode
	Aupotek A	3: TX-8DPSK (Non-line) hopping) with 8DPSI	Hopping): Keep the EU K modulation.	JT in continuously	transmitting	mode (non-







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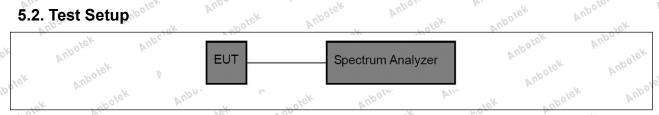
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# 5.2. Test Setup



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# 5.3. Test Data

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Temperature:	26.3 °C	And Hur	midity: 45 %	Atmosph	neric Pressure:	101 kPa	
Anbo	lote!	4 Aupor	P.	rek "upoter	Vun	abote)	6
Please Refer to	o Appendix	for Details.	rek vul	, , , , , , , , , , , , , , , , , , ,	ak abole.	VIII	V

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Please Refer to Appendix for Details.

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Shenzhen Anbotek Compliance Laboratory Limited





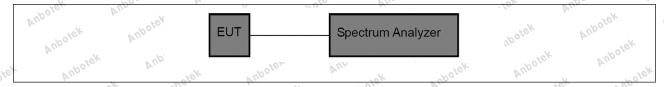
# 6. Channel Separation

D.	16.
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
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.
Procedure:	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.
Aupotek Aupotek Aupoten	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

Op	erating Envi	onment:	Vuporg	A bolek	Auporer	Vunn Polick	Aupolek	VUD
And	Anbotek st mode. <sup>ek</sup>	with GFS 5: TX-π/- (hopping 6: TX-8D	SK modulation 4-DQPSK (Ho i) with π/4 DQ	i,. pping): Keep t PSK modulatio g): Keep the E	he EUT in cor	usly transmitting ntinuously transr ously transmittin	mitting mode	ek ek

#### 6.2. Test Setup



#### 6.3. Test Data

Temperature:	26.3 °C	Hum	nidity: 45 %	Atmosp	heric Pressure:	101 kPa	

Please Refer to Appendix for Details.







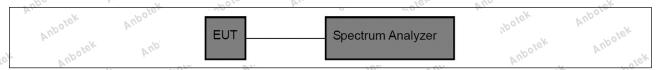
# 7. Number of Hopping Frequencies

D.,	16 VID VID
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:  Anborek  Anborek  Anborek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupotek  Vipotek Vipotek  Vipotek Vipotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.  b) RBW: To identify clearly the individual channels, set the RBW to less than
Procedure:	30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
ek Aupotek Aupo	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 E	Environment:	Aupolek	Aup	abolek	Aupor	Polek.
Test mode:	with GFSK 5: TX-π/4-D (hopping) w	modulation,. QPSK (Hopp ith π/4 DQPS	oing): Keep the SK modulation.	EUT in contin	uously transm	mode (hopping) itting mode mode (hopping)
Ye.Y	with 8DPSk	modulation.	Polek V.	upo.	rek	Anbore Air

# 7.2. Test Setup



#### 7.3. Test Data

Temperature:	26.3 °C	Hur	midity: 45 %	Atmosphe	eric Pressure:	101 kPa	
D' 1.	V.O.V.	* UN	. V.	W 0 .			10

Please Refer to Appendix for Details.







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8. Dwell Time	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:  Anborek  Anborek  Anborek	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
ootek 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.
Anbotek Anbotek Anbotek Anbotek 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.
Aur Vipotek	Anbo ok Anborek Anbore An Anborek
Anbo	Use the following spectrum analyzer settings to determine the dwell time per hop:
upotek Vupotek Vupotek	<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</li> </ul>
Otek Anbotek Anbotek	be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this. d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
Aupolek Aupolek	e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between







these two markers.

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

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

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

#### 8.1. EUT Operation

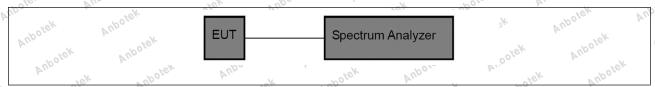
#### Operating Environment:

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

Test mode:

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

#### 8.2. Test Setup



#### 8.3. Test Data

Temperature: 26.3 °C	Humidity: 45 %	6 Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.









## 9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:  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
Viek Vij	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
Pupolek Vupolek	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.
Aupotek Aupotek	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
ek Aupotek Aupotek	testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure: Anborek	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
<sup>Vupotek</sup> Vupotek	measurements a separate spectral plot showing the in-band level shall be provided.
Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth







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

#### 7.8.7.2 Band-edges

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

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

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

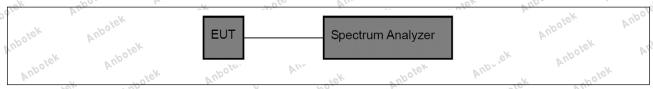
#### 9.1. EUT Operation

#### **Operating Environment:**

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

#### 9.2. Test Setup

Test mode:



#### 9.3. Test Data

Temperature:	26.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





Anbotek



Anbolek

Report No.:1819C40011012501 FCC ID: 2AEW6-TE2390

# 10. Band edge emissions (Radiated)

Test Method:  Procedure:	KDB 558074 D01 15.247 N ANSI C63.10-2020 section	leas Guidance v05r02	Oolek Vipolek
Anbotek Anbo	detector.  ANSI C63.10-2020 section	640 supotek Aupotek	K Wolek
Aupotek Aupo		ed on measurements employing	
ootek Aup Otek	employing a CISPR quasi-	peak detector except for the frequency above 1000 MHz. Radiated emis	uency bands 9–
Vun Viek		e, the tighter limit applies at the b in the above table are based on	
k Polek V	sections of this part, e.g., §	§ 15.231 and 15.241.	otek Anbore
Augo,	frequency bands 54-72 MH	z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	470-806 MHz.
Andotek Anbotek		ragraph (g), fundamental emissi ng under this section shall not b	
Test Limit:	Above 960	500	3,000
oter Aup	216-960	200 **	3
Ar. Otek	88-216	150 **	3 tek Anbo
"polek Vi	30-88	100 **	3
Aupore VIII	0.490-1.705 1.705-30.0	24000/F(kHz) 30	30
Anbo ok abov	0.009-0.490	2400/F(kHz)	300
"Upolek Vupolek	Vupofek Vupo	(microvolts/meter)	distance (meters)
k Polek	Frequency (MHz)	Field strength	Measurement
Test Requirement:		d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	

### 10.1. EUT Operation

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.ck	Operating Envir	onment:	Vur Polek	Aupolek	Augo	"Upolek	Aupolo	Politica
Anbotek Anbotek	Test mode:	hopping) v 2: TX-π/4- (non-hopp 3: TX-8DP	vith GFSK n DQPSK (No ing) with π/4 PSK (Non-Ho	nodulation. on-Hopping): K 4 DQPSK mod	eep the EUT i ulation.	inuously transm n continuously t ntinuously trans	transmitting mo	ookek de k



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Report No.:1819C40011012501 FCC ID: 2AEW6-TE2390

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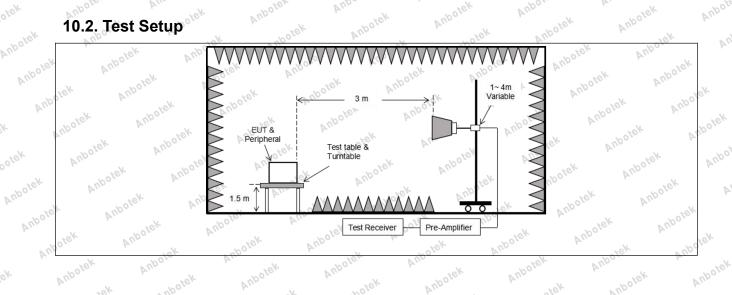
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# 10.2. Test Setup

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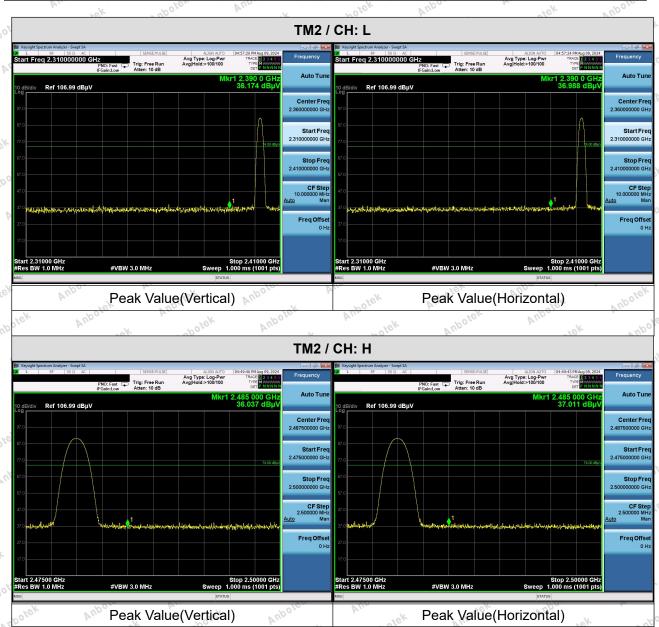
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#### 10.3. Test Data

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



#### Remark:

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- 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.









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

rek vupotek	Frequency (MHz)	ecified in § 15.209(a)(see § 15.2) Field strength	Measuremen
Tupo tek	Aupole VIII	(microvolts/meter)	distance (meters)
Anbo	0.009-0.490	2400/F(kHz)	300 2010
Sporek Aups	0.490-1.705	24000/F(kHz)	30 Ans
V. ick	1.705-30.0	30	30 nbole
k Auporg A	30-88	100 **	3
K hotek	88-216	150 **	31ek An
OFER AME	216-960	200 **	3
ick vipole.	Above 960	500	3 nbole
Test Limit:		ragraph (g), fundamental emiss ing under this section shall not b	
Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	intentional radiators operat frequency bands 54-72 MH However, operation within 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	ing under this section shall not b Iz, 76-88 MHz, 174-216 MHz or these frequency bands is permit	be located in the 470-806 MHz. tted under other band edges. n measurements quency bands 9- ssion limits in
Test Method:	intentional radiators operat frequency bands 54-72 MH However, operation within 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 these three bands are base	ing under this section shall not be lz, 76-88 MHz, 174-216 MHz or these frequency bands is permit § 15.231 and 15.241. The in the above table are based or peak detector except for the free above 1000 MHz. Radiated emited on measurements employing 6.6.4	be located in the 470-806 MHz. tted under other band edges. n measurements quency bands 9- ssion limits in

# 11.1. EUT Operation

0. 1		. ~	200	A	. 010	D1.	187	· U/
ly.	Operating Envir	onment:	VIII.	Auporek	Aug. rek	nbotek	Aupor	<i>b</i> .
	Anbotek	hopping)	with GFSK m	odulation.	ne EUT in conti	Aupo	, ove	3K
1	Test mode:	(non-hop	ping) with π/4	DQPSK mod		ole, Vi	, ek n	poler
00	Tiek Vupore.		PSK (Non-Howith 8DPSK		the EUT in con	tinuously transı	mitting mode (r	non-





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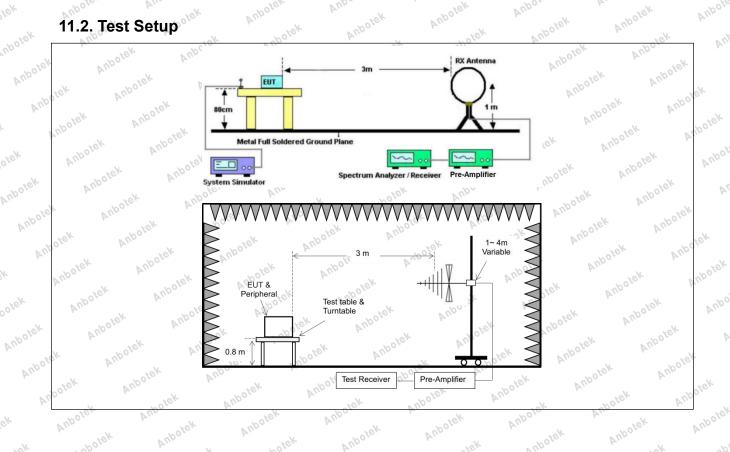
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# 11.2. Test Setup



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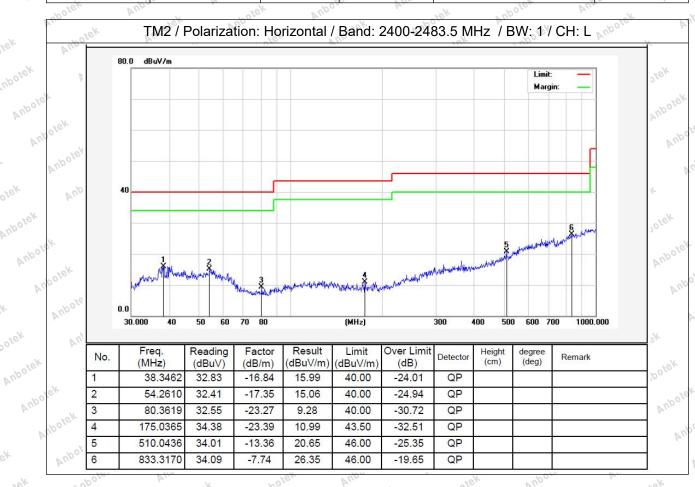




#### 11.3. Test Data

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

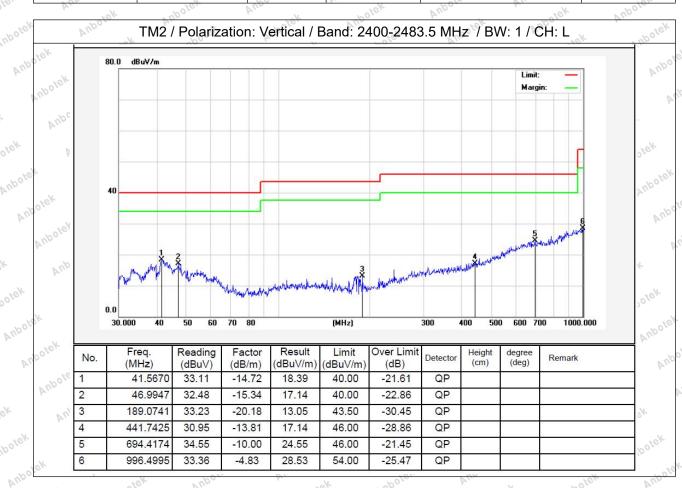
Temperature: 20.3 °C Humidity: 46 % Atmospheric Pressure: 101 kPa







Temperature: 20.3 °C Humidity: 46 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







Report No.:1819C40011012501 FCC ID: 2AEW6-TE2390

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

Ans	tek Aupo	Ask Upor VI.	Polos.
Test Requirement:		ons which fall in the restricte omply with the radiated emis	
Anbotheric.	in § 15.209(a)(see § 15.209		ssion innits specified
rek abotek	Frequency (MHz)	Field strength	Measurement
upore Am	"Upole" AUD	(microvolts/meter)	distance
"otek Aupor	A coo o dek	Aug Store	(meters)
And	0.009-0.490	2400/F(kHz)	300 300
Vupore, Vup	0.490-1.705	24000/F(kHz)	oter 30 And
H. Stek VU	1.705-30.0	30	30 More
Anbo	30-88	100 **	Anbo 3
ok abolek	88-216	150 **	3 rek An
Ole. Vur	216-960	200 **	7 3
_otek Anbore	Above 960	500	3,000
Test Limit:		ragraph (g), fundamental en	
upoter Aug		ing under this section shall n	
A. Jek "Upor		lz, 76-88 MHz, 174-216 MHz	
Aupor		these frequency bands is pe	rmitted under other
k hotek Ar	sections of this part, e.g., §		And And
Yu.		e, the tighter limit applies at t	
otek Wupote	. 0	in the above table are based	" U.S.
or ciek		peak detector except for the above 1000 MHz. Radiated (	
upoles And		ed on measurements employ	
W. Vek "poler	detector.	on measurements employ	ing an average
B.	ANSI C63.10-2020 section	200 4 Notek Aupo	V 1-0/ek
PA'	コームいくこ じだえ カローフロンロ らんたいの	6 6 /I	
Test Method:	KDB 558074 D01 15.247 N		upores Ann

# 12.1. EUT Operation

P.	1100	'On 40.	· · · · · · · · · · · · · · · · · · ·	1.0	1-01	Dr.	. 48,	V U.S.
	Operating Envir	onment:	"Olek	'upoter	And	* upolek	Aupo.	h.,
Cotek	Aupolek	hopping) with	GFSK modula	ation.	shote)	nuously transmi	, ov	Ys
nbotek	Test mode:	2: TX-π/4-DQl (non-hopping)				continuously tr	ansmitting mo	ide,
V. Vup.	lek Vupore	3: TX-8DPSK hopping) with			EUT in cont	inuously transn	nitting mode (ı	ode,





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Report No.:1819C40011012501 FCC ID: 2AEW6-TE2390

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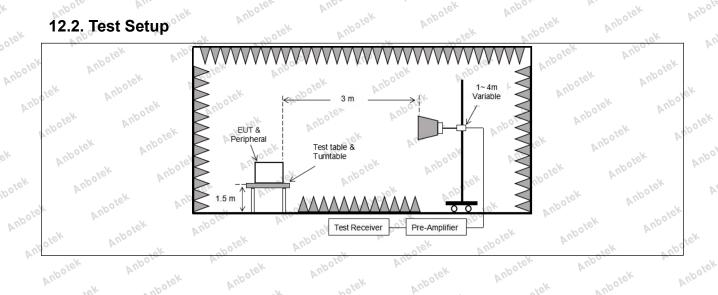
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# 12.3. Test Data

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Temperature:	20.3 °C	Humidity:	46 %	Atmospheric Pressure:	101 kPa
--------------	---------	-----------	------	-----------------------	---------

	V.,	"pole"	And	hotek	Anbo	, tek	Anbore			
nbol		TM2 / CH: L								
	Peak value:									
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization			
	4804.00	31.12	15.27	46.39	74.00	-27.61	Vertical			
	7206.00	31.60	18.09	49.69	74.00	-24.31	Vertical			
	9608.00	33.78	23.76	57.54	74.00	-16.46	Vertical			
	12010.00	* "pole"	Aupo	, vo.	74.00	All	Vertical Vertical			
	14412.00	*	otek Anbo	ie. Vue	74.00	olek Vupe	Vertical			
	4804.00	31.15 And	15.27	46.42	74.00	-27.58	Horizontal			
	7206.00	33.24	18.09	51.33	74.00	-22.67	Horizontal			
	9608.00	29.93	23.76	53.69	74.00	-20.31	Horizontal			
	12010.00	Ano*	Pupolek	Anbore	74.00	Aupoles	Horizontal			
	14412.00	K#Upore	k, ctek	Aupolek	74.00	k upotek	Horizontal			
	Average value:									
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization			
	4804.00	20.50	15.27	35.77	54.00	-18.23	Vertical			
	7206.00	20.63	18.09	38.72	54.00	-15.28	Vertical			
200	9608.00	22.80	23.76	46.56	54.00	-7.44	Vertical			
N.	12010.00	* * *	sk Aupor	p.·	54.00 nbol	S. Vun	Vertical			
	14412.00	*	Viek Vul	Oier Vun	54.00	Polek Vup	Vertical			
	4804.00	19.50	15.27	34.77	54.00	-19.23	Horizontal			
	7206.00	22.30	18.09	40.39	54.00	-13.61	Horizontal			
	9608.00	19.24	23.76	43.00	54.00	+11.00	Horizontal			
	12010.00	Vit.	Vupoje <sub>k</sub>	Aupor	54.00	Aupoles	Horizontal			
	14412.00	* * Aupote	V	K "pole"	54.00	Nove 20	Horizontal			

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100 1.	otek Aup	otek Aupor	PU,	,	"olek V	upotek Au	otek A
		602.7	7	ГМ2 / CH: M			
Pe	ak value:						
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
7,6	4882.00	31.14	15.42	46.56	74.00	-27.44 ····	Vertical
,	7323.00	31.45 km²	18.02	49.47	74.00	-24.53	Vertical
An	9764.00	32.79	23.80	56.59	74.00	-17.41	Vertical
	12205.00	Anb *	abotek	Aupor	74.00	Aupolek	Vertical
	14646.00	Aupo*	A. Olek	Aupolek	74.00	upotek	Vertical
	4882.00	30.85	15.42	46.27	74.00	-27.73	Horizonta
S.F.	7323.00	33.23	18.02	51.25	74.00	-22.75	Horizonta
100	9764.00	29.63	23.80	53.43	74.00	o <sup>tek</sup> -20.57 №	Horizonta
	12205.00	potek * And	- O.Y.	abotek An	74.00	"Olek b	Horizonta
N	14646.00	holek*	Anbolo	Clek	74.00	Vup.	Horizonta
Αv	erage value:						
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
	4882.00	20.23 molts	15.42	15.65 mbo	54.00	-18.35	√ Vertical
00/1	7323.00	20.73	18.02 And	38.75	54.00	-15.25	Vertical
	9764.00	22.66	23.80	46.46	54.00	-7.54	Vertical
P	12205.00	Aupole*	Vun	nbotek	54.00	boiek	Vertical
	14646.00	" ppiek	Anbor	hotek	54.00	All.	Vertical
	4882.00	19.41	15.42	34.83	54.00	-19.17	Horizonta
o'tek	7323.00	21.86	18.02,0010	39.88	54.00	-14.12 <sup>1001</sup>	Horizonta
	9764.00	19.75 h	23.80	otek 43.55 Anb	54.00	-10.45	Horizonta
VUP,	12205.00	"otek * M	Poles Vu	rek	54.00	100	Horizonta
	14646.00	10p	Pupolek	Anbo	54.00	Aupotok	Horizonta

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Vupos. Y.	You	pole, Yu	V	"Olek V	400	rek
		•	TM2 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	31.41	15.58	46.99	74.00	-27.01	Vertical
7440.00	31.46	17.93	49.39	o <sup>vek</sup> 74.00 № no	-24.61	Vertical
9920.00	33.34	23.83	57.17	74.00	-16.83	Vertical
12400.00	Aupole *	Lek.	VUPOICH	74.00	bolek	Vertical
14880.00	VUPO*EK	Aupor	spotek	74.00	V. Olek	Vertical
4960.00	30.92	15.58	46.50	74.00	-27.50	Horizontal
7440.00	33.26	17.93	51.19	74.00	-22.81	Horizontal
9920.00	30.31	23.83	54.14 100°	74.00	19.86 no	Horizontal
12400.00	olek * And	ole, Vin	rek nr	74.00 And	48.	Horizontal
14880.00	rek*	upolek b	Upp	74.00	Aupore A	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	21.35	15.58	36.93	54.00 noon	-17.07	Vertical (
7440.00	21.74	nek 17.93 no	39.67	54.00	-14.33 And	Vertical
9920.00	23.21	23.83	47.04	54.00	-6.96	Vertical
12400.00	"pole*	Aupor	"Olek	54.00	Yun ick	Vertical
14880.00	* tek	Aupolek	Vun.	54.00	Vupore.	Vertical
4960.00	20.85	15.58	36.43	54.00	-17.57	Horizontal
7440.00	23.23	17.93	41.16	54.00	-12.84 <sub>00</sub> 10	Horizontal
9920.00	19.65	23.83	43.48	54.00 kn	-10.52	Horizontal
12400.00	*	Polek Vul	, b.,	54.00	Poles Vu	Horizontal
14880.00	upole *	*ek	"Upoles	54.00	hotek	Horizontal

#### Remark:

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





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#### APPENDIX I -- TEST SETUP PHOTOGRAPH

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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

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----- End of Report

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