

Report No.:1819C40045312501 FCC ID: 2AYJ7CHE-646

# FCC Test Report

Applicant : TRA COMPANY LTD.

Address Osaka-shi, Chuo-ku, Kitahama-higashi 6-6,

Osaka, 540-0031 Japan

Product Name : Wireless Earphones

Report Date : Oct. 21, 2024

Shenzhen Anbotek



Anbotek

Compliance Laboratory Limited







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## **TEST REPORT**

TRA COMPANY LTD. Applicant

Manufacturer TRA COMPANY LTD.

**Product Name** Wireless Earphones

Model No. CHE-646

Trade Mark cheero

Input: 5V-- 250mA

Case Battery: DC 3.7V, 320mAh Battery inside Rating(s)

Earphone Battery: DC 3.7V, 30mAh Battery inside

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:	Sept. 13, 2024
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Date of Test:	Sept. 13, 2024 to Sept. 26, 2024
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And Andrew And	(Cecilia Chen)
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Approved & Authorized Signer:	Will of Manager Augo
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## **Revision History**

Polek	Aupotek Vipotek Vup	Revision History	Y Anbotek Anbotek
in abotek	Report Version	Description	Issued Date
Anbe	Rek Anbotek Roo Anbotek	Original Issue.	Oct. 21, 2024
	Aupotek Aupote	k Aupole Aupolek	Vupores Vupores V
tek	Vipores, Viporek Vip	otek Aupolek Aupolek	Auporek Auporek
'upolek	Auporek Auporek	Vupores Vuporek Vupo,	er Vilos

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Shenzhen Anbotek Compliance Laboratory Limited



Hotline



### 1. General Information

## 1.1. Client Information

D/1.		164 10
Applicant		TRA COMPANY LTD.
Address	:	Osaka-shi, Chuo-ku, Kitahama-higashi 6-6, Osaka, 540-0031 Japan
Manufacturer	:	TRA COMPANY LTD.
Address	:	Osaka-shi, Chuo-ku, Kitahama-higashi 6-6, Osaka, 540-0031 Japan
Factory	:	Fugle Products (HK) Co. Ltd.
Address	:	8th Floor, Building D, Zhenhan Industrial Park, Zhenhan Road, Jihua Street, Longgang District, Shenzhen, Guangdong, China

### 1.2. Description of Device (EUT)

odo yes		k bole And stek And
Product Name	:	Wireless Earphones
Model No.	:	CHE-646 Notes And Notes Andotes And Steek Andotes
Trade Mark	:	cheero Anbotek Anbotek Anbotek
Test Power Supply	:	DC 3.7V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A notek Andore Andorek Andorek Andorek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Otek Anbotek Anbotek Anbote An
Modulation Type	:	GFSK, π/4 DQPSK
Antenna Type	:	Ceramic antenna
Antenna Gain(Peak)	:	2.78dBi hotek Anbotek 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.









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### 1.3. Auxiliary Equipment Used During Test

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

#### 1.4. Operation channel list

1.4. Opera	tion chann	el list	Anbotek	Aupore	Aupotek.	Aupore	otek Anbote
Operation Ba	and:botek	Anbo.	r. Polek	Anboiek	Ans o	iek ant	olek Aup
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
O Anbote	2402	20	1001e 2422 A	40	2442	A.1060	2462
tek 1 and	otek 2403 Ant	21	2423	Anbota	2443	61	2463
, e/2	2404	Anboard 22	2424	42	2444	62 Anbote	2464
3 tek	2405	23	2425	43, nb o le	2445	tek 63 An	2465 Any
Anbore 4	2406	24 10016	2426	ek 44 Ant	2446	64	2466
5,000	2407	25 Anbc	2427	10 te 45	2447	65	2467
6 Anbox	2408	otek 26	2428	46	2448	And 66	2468
ick 7 And	2409	27	2429	47 rek	2449	67	2469
nbole8	2410	28	2430	48	2450,00010	68 Anbu	2470
Ant. 9 tek	2411	29 000	2431	49	2451 Ant	o <sup>tek</sup> 69 <sup>N</sup>	2471
10 botek	2412	30	otek 2432 And	50 An	2452	Anbot 70	2472
. 11 <sub>nbo</sub> t	2413 Anbo	31	2433	mbole 51	2453	ANS Arek	2473
12	2414 N	32	2434	An 52	2454	72,botek	2474
13	2415	Anh 33	2435	5300 tek	2455	× 73 <sub>Nh</sub> o	2475 Anbo
Anbota	2416	34	2436	54 Anbol	2456	74 Tek 74	2476
15	2417,00°	35 Anbole	2437	otek 55	2457 An	75	2477
16 nb o le	2418	tek 36 An	2438	56	2458	Anborok	2478
17 Anbc	2419	, 10°37	2439	57,ek	2459	A77	2479
o <sup>tek</sup> 18	2420	38	2440	58 No.	2460	78. <sup>nbolo</sup>	2480
19	2421	39	2441	59	2461 ,,,,,,,,	ek - Aup	0. W.







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#### 1.5. Description of Test Modes

Pretest Modes	Descriptions				
pek AnboTM1 Anbote	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.				
nbotek ATM2	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.				
Anbotek TM3	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation				
TM4 And	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.				
1.6. Measurement Uncerta	ainty Andorek Andorek Andorek Andorek Andorek Andorek				

## 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Andotek Andotek Ando
Occupied Bandwidth	925Hz Anbotek Anbotek
Conducted Output Power	0.76dB
Dwell Time	2% tek Anbotek Anbotek
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB Andotek Andotek
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.







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#### 1.7. Test Summary

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Test Items	Test Modes	Status
Antenna requirement	Arbotek Anbotek	Aug P
Conducted Emission at AC power line	And Anbotek	Nupos
Occupied Bandwidth	Mode1,2	ek P Vu
Maximum Conducted Output Power	Mode1,2	potek P
Channel Separation	Mode3,4	Anbolek
Number of Hopping Frequencies	Mode3,4	An Piek
Dwell Time Anbotek Anbotek	Mode3,4	Panbo
Emissions in non-restricted frequency bands	Mode1,2,3,4	Ver P
Band edge emissions (Radiated)	Mode1,2	hotek P
Emissions in frequency bands (below 1GHz)	Mode1,2	, Pe
Emissions in frequency bands (above 1GHz)	Mode1,2	Ans Potek

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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.

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

- 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. Mr. 2.
  - 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.
  - 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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### 1.10. Test Equipment List

Conducted Emission at AC power line			Anborek	Vun Polek	Anbotek	Aupo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
10k	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
,200h	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Ann	Aupliek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Maximum Conducted Output Power

Channel Separation

**Number of Hopping Frequencies** 

**Dwell Time** 

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Emissions in non-restricted frequency bands

Occupied Bandwidth

Constant Temperature Humidity Chamber  DC Power Supply  Topic Constant Temperature Humidity Chamber  ZJ- KHWS80B  N/A  IVYTECH  IV3605  INVA  1804D360 510	2023-10-16 2024-10-15
1 2 PDC Power Supply 1 1/YAFCH N 1/3605	rek no
	2023-10-20 2024-10-19
3 Spectrum 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 MXG RF Vector Signal Generator Agilent N5182A MY474206 47	2024-02-04 2025-02-03







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	edge emissions (Ra sions in frequency ba		Yupoler b	upotek	Aupotek	Aupo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
e×1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
nb 2ek	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3/00	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4 🔊	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Vupole rek	Vup Vek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6 16k	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
<sup>Anb</sup> 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

VUP.	-K HOICK	Vupore V.	O.E.K	Aupolek	Vun.	Sporek
Emiss	sions in frequency b	ands (below 1GHz)	Aupo	Vupolek	Anbore	y, spolek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
otet	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2,104	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3 Anb	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	N/A	N/A/potek	Anbore	ek Anborek
otek	Vupo.	Vupotek Vupoter	ick "upo,	ick And	Olen Vupo	polek Aupo

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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 2.78dBi. It complies with the standard requirement.





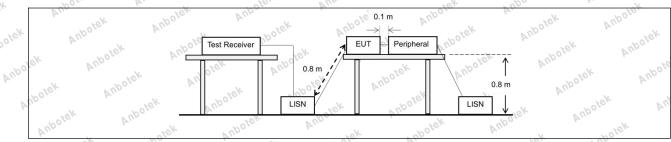
## 3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of the section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN).						
Poick Wupor	Frequency of emission (MHz)	Conducted limit (dBµV)	Auga				
And	olek Aupo	Quasi-peak	Average				
ek abole. And	0.15-0.5	66 to 56*	56 to 46*				
Test Limit:	0.5-5	56 And	46 Anbo				
Hotek Anbo.	5-30	60 abolet Ar	50				
rek Anbotek	*Decreases with the logarithm of the frequency.						
Test Method:	ANSI C63.10-2020 section 6.2	Yupoter Yun	Vupolek b				
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-				

## 3.1. EUT Operation

Operating Environment:	'Upo	botek	Aupore	Potek	Anborek	VUD
Test mode:	Anbor	hotek	Aupole	Vu.	Anbolek	Aup
3.2. Test Setup	Aupole.	V. Viek	Aupolek	Aup	nbolek	

## 3.2. Test Setup



#### 3.3. Test Data

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Not applicable for DC power device.



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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

upo.	Operating Envir	onment:	V PA	ek Aupolen	And	Jok Agr	otek Aupo	No.
Anbore	Test mode:	hopping) w 2: TX-π/4-[	ith GFSK mo DQPSK (Non	dulation. -Hopping): Kee	p the EUT in	"poler	nitting mode (non- transmitting mode	~0X
1	100 E	20010	ng) with $\pi/4$	DQPSK modula	ation. otek	Vup.	8 upatek	-67
tek	4.2. Test Setu	ip rek	Aupoler	Ann	"polek	Anbo	k Zolek	

Anbotek

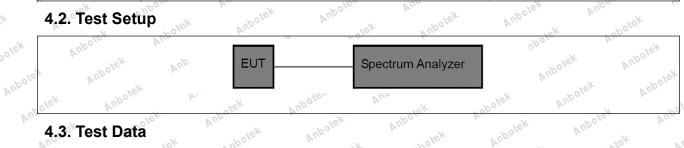
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#### 4.2. Test Setup



#### 4.3. Test Data

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4.3. Test Dat	a vek	Anborek	Aupolek	Aupor Polek	Anbotek.	Aupole, Olek	Aur
Temperature:	22.4 °C	Hum	nidity: 56 %	Atmo	spheric Pressure:	101 kPa	

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Please Refer to Appendix for Details.

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## 5. Maximum Conducted Output Power

Dr.	ASIA PURA PROPERTY OF THE PROP
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
Aupotek Aupotek  Votek Vupotek  Votek Vupotek  Votek Vupotek  Votek Vupotek  Votek Vupotek  Votek Vupotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings:  a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW.
Procedure: notek	d) Sweep: No faster than coupled (auto) time. 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 emission. i) The indicated level is the peak output power, after any corrections for
Protek Vipotek	external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

## 5.1. EUT Operation

	Pro-	~ (0	1/1,				V~ () "
y-	Operating Envir	onment:	" polek	Anboro	W. Olek	Anboten	Vun.
200	Test mode:	hopping) wit 2: TX-π/4-D	(Non-Hopping): h GFSK modulat QPSK (Non-Hop g) with π/4 DQPS	ion. ping): Keep th	e EUT in continu	Villa	1000

#### 5.2. Test Setup



### 5.3. Test Data

Temperature:	22.4 °C	Vupo,	Humidity:	56 %	Atmospheric Pressure:	101 kPa	P
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Please Refer to Appendix for Details.







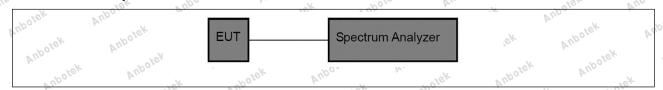
## 6. Channel Separation

An	rek nbo	Yo.	-polo	Br.	Vien.
Test Requirement:	47 CFR 15.247(a)(1)	Aupole	Viek	Anborek	Aup
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.24 hopping channel carrie the 20 dB bandwidth of Alternatively, frequence band may have hopping 25 kHz or two-thirds of whichever is greater, present than 125 mW.	er frequencies of the hopping of the hopping syst of channel car of the 20 dB bar	separated by a channel, which ems operating rier frequencie ndwidth of the	a minimum of 2 never is greate in the 2400-2 s that are sepa hopping chanr	25 kHz or r. 483.5 MHz arated by nel,
Test Method:	ANSI C63.10-2020, se KDB 558074 D01 15.2		ance v05r02	Aupolek	Anboiek
Aupotek Aupotek  Aupotek Aupotek	The EUT shall have its spectrum analyzer set a) Span: Wide enough b) RBW: Start with the spacing; adjust as nec channel.	tings:  n to capture the RBW set to aperior to best	e peaks of two pproximately 3 identify the ce	adjacent chan 0% of the cha	nels. nnel
Procedure:	c) Video (or average) d) Sweep: No faster the) Detector function: F f) Trace: Max-hold. g) Allow the trace to st	nan coupled (au Peak.		otek Anbotek	Tek Yupotek
ek Anbotek Anbot	Use the marker-delta peaks of the adjacent regulatory limit shall be included in the test rep	channels. Com e determined. <i>i</i>	npliance of an	EUT with the a	ppropriate

## 6.1. EUT Operation

	70°		760.	VIII	400	200	V V	
>	Operating Envir	onment:	Aups	abotek	Aupor	P. Polek	Aupore	Vus
	Test mode:	with GFS 4: TX-π/4	SK modulation 4-DQPSK (H	n,. opping): Keep	the EUT in cor	ek Anbore	g mode (hoppir smitting mode	ng)
6	Aupo	(hopping	<sub>I</sub> ) with π/4 DC	QPSK modulati	on. 🔨	Poler Vu	,	rek

#### 6.2. Test Setup



#### 6.3. Test Data

Temperature:	22.4 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa	٦
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Please Refer to Appendix for Details.







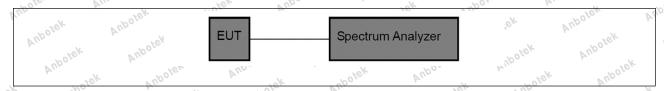
## 7. Number of Hopping Frequencies

D1.	16 VID VID
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 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupotek  Aupotek Aupotek	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: Anbotek Anbotek Anbotek Anbotek	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 <sup>Aupotek</sup> 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 Envir	onment:	Vupa, rek	" upotek	Aupole	Potek
*	Test mode:	3: TX-GFSK (Hoppin with GFSK modulation 4: TX-π/4-DQPSK (Hopping) with π/4 D	on,. Hopping): Keep th	e EUT in contir	, n	tek Aupole

#### 7.2. Test Setup



#### 7.3. Test Data

Temperature: 22.4 °C	Humidity:	56 % Noote	Atmospheric Pressure:	101 kPa	AUPO
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Please Refer to Appendix for Details.







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

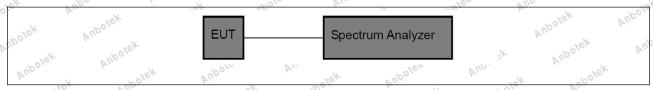
#### **Operating Environment:**

Test mode:

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

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

#### 8.2. Test Setup



#### 8.3. Test Data

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.

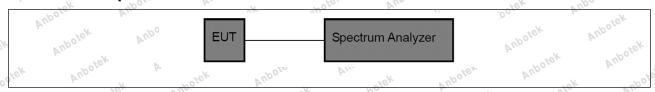
Test mode:

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

3: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,?

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

#### 9.2. Test Setup



#### 9.3. Test Data

Temperature:	22.4 °C	Humidity: 56 %	Die	Atmospheric Pressure:	101 kPa
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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 I in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.20	ly with the
Vupopek Vupopek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Aupore Av.	0.009-0.490 0.490-1.705	2400/F(kHz)	300
Anbore An	1.705-30.0	24000/F(kHz) 30	30
k Aupole Au	30-88	100 ** And	3
ok shotek	88-216	150**	3, tek Anbo
ole. Yus	216-960	200 **	<u>,,3</u>
Test Limit:	Above 960	_500 ragraph (g), fundamental emissi	3,000
Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	ng under this section shall not be z, 76-88 MHz, 174-216 MHz or these frequency bands is permitted as 15.231 and 15.241.  The tighter limit applies at the bean the above table are based on beak detector except for the frequency 1000 MHz. Radiated emisted on measurements employing	470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 N		k Aupolis
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Ole. Vin
10.1. EUT Operation	Napores Anbotek	Aupoten Aupotek	Aupotek Aupo

### 10.1. EUT Operation

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. <	10:1. EU I Op	eration	botek	Anbore	V. Olek	Aupole	Aug 'Sk	dn .
b	Operating Envir	onment:	Vu.	Aupolek	Vup.	a upotek	Aupor	D.,
N.	Test mode:	hopping) 2: TX-π/4	with GFSK n 4-DQPSK (No	nodulation.	the EUT in cont Keep the EUT i dulation.	ek Vup	, , , , o'	iek 193



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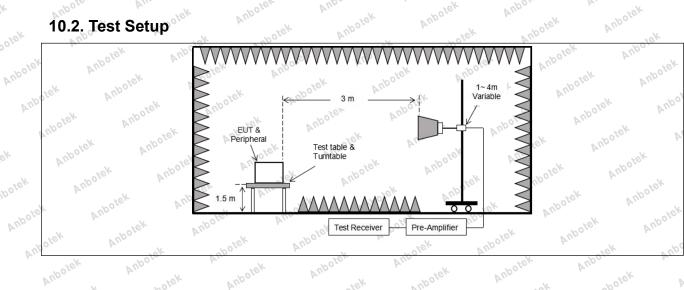
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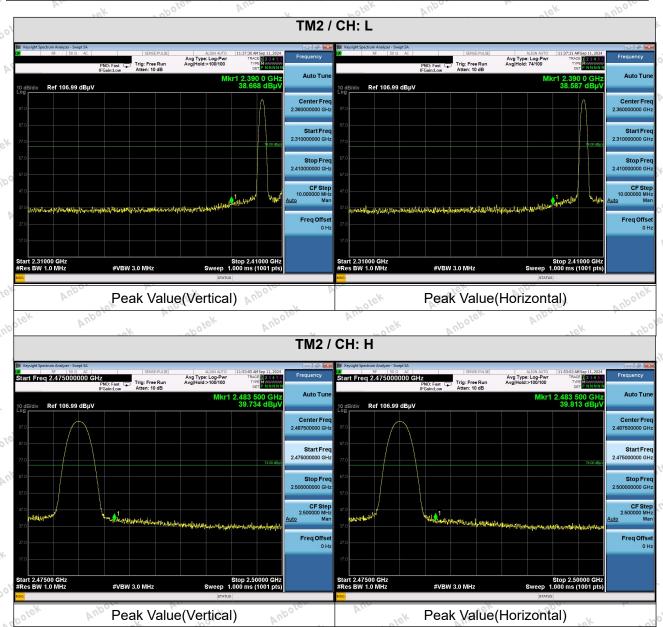
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#### 10.3. Test Data

Temperature: 56 % 22.4 °C Humidity: 101 kPa Atmospheric Pressure:



#### Remark:

Aupolek

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







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

Test Requirement:	radiated emission limits sp	ecified in § 15.209(a)(see § 15.	205(c)).`
Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anbo otek Anbo	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Anby Otek A	1.705-30.0	30	30
Aup.	30-88 88-216	150 **	3 rek Anh
Jose All	216-960 Above 960	200 **	3 ,000
Toot Limits A	1.5/4	V 705	- Ali
Arbotek	** Except as provided in pa intentional radiators operal frequency bands 54-72 MH	aragraph (g), fundamental emisting under this section shall not Hz, 76-88 MHz, 174-216 MHz o	be located in the r 470-806 MHz.
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek	** Except as provided in paintentional radiators operational frequency bands 54-72 MH However, operation within sections of this part, e.g., §	aragraph (g), fundamental emisting under this section shall not dz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241.	be located in the r 470-806 MHz. itted under other
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	** Except as provided in particular intentional radiators operated 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	aragraph (g), fundamental emissing under this section shall not dz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241.  The tighter limit applies at the in the above table are based of peak detector except for the free above 1000 MHz. Radiated em	be located in the r 470-806 MHz. itted under other band edges. In measurements equency bands 9-ission limits in
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	** Except as provided in particular intentional radiators operated 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	aragraph (g), fundamental emissing under this section shall not dz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241.  The tighter limit applies at the in the above table are based of peak detector except for the fre	be located in the r 470-806 MHz. itted under other band edges. In measurements equency bands 9-ission limits in
Test Limit:	** Except as provided in particular intentional radiators operated 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 these three bands are base	aragraph (g), fundamental emissing under this section shall not dz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241.  The tighter limit applies at the in the above table are based of peak detector except for the free above 1000 MHz. Radiated emits and on measurements employing 6.6.4	be located in the r 470-806 MHz. itted under other band edges. In measurements equency bands 9-ission limits in

## 11.1. EUT Operation

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by	Operating Envir	ronment:	Vu.	Anbotek	Aupo	rek	"upotek	Aupor	- K
3/4	Test mode:	hopping) 2: TX-π/4	SK (Non-Hop) with GFSK mo DQPSK (Nor Ding) with π/4	odulation. n-Hopping): k	Keep the E	Spotek	Anbo	- ·	: otek



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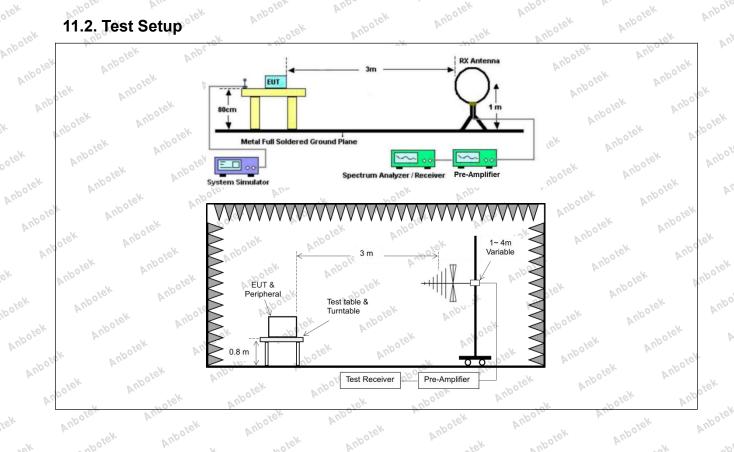
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# 11.2. Test Setup



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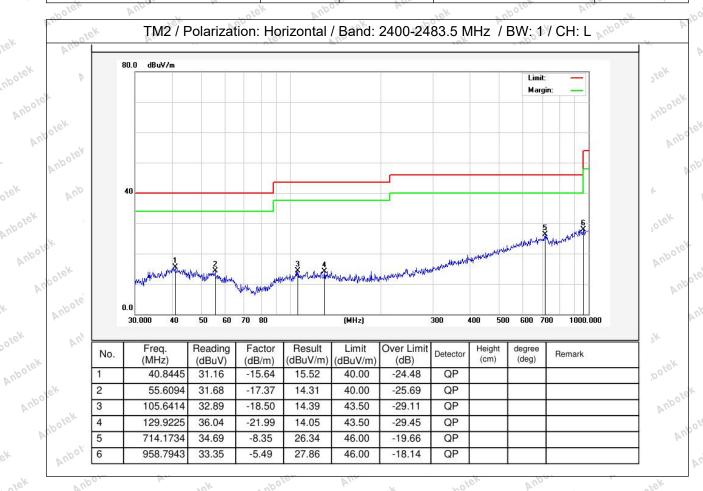
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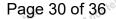
#### 11.3. Test Data

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

Temperature: 22.6 °C Humidity: 56 % Atmospheric Pressure: 101 kPa



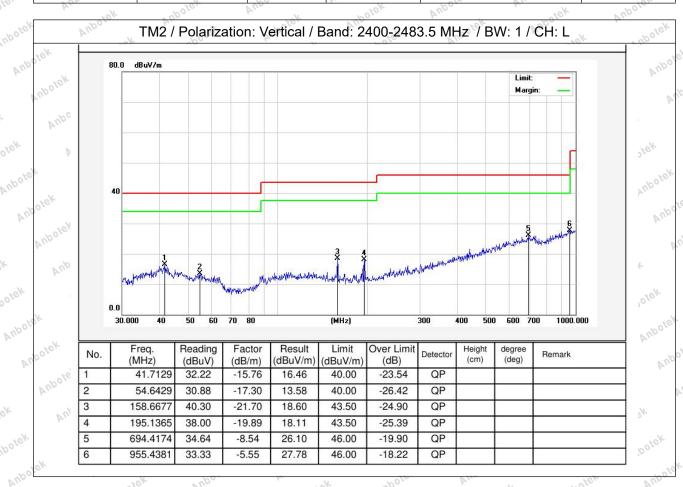






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Temperature: 22.6 °C Humidity: 56 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.





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

Test Requirement:	in § 15.205(a), must also of in § 15.209(a)(see § 15.20	05(c)).`	Aupor
Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Vupo, P.	0.009-0.490	2400/F(kHz)	300 Joke
Polek Vupo	0.490-1.705	24000/F(kHz)	30 And
Yun ok	1.705-30.0	30 Anbor	30 abole
k Anbore A	30-88	100 **	10° 3
, otek	88-216	150 **	3 tek Anl
otek Aug	216-960	200 **	3
oboler.	Above 960	500 nb	3 30010
Test Limit	18/4	V 707	
Test Limit:	** Except as provided in p intentional radiators opera frequency bands 54-72 MI However, operation within	aragraph (g), fundamental emis ting under this section shall no Hz, 76-88 MHz, 174-216 MHz o these frequency bands is perm	ssions from t be located in the or 470-806 MHz.
Test Limit:  Anbotek  Anbotek  Anbotek	** Except as provided in printentional radiators operation frequency bands 54-72 MI However, operation within sections of this part, e.g., In the emission table above The emission limits shown employing a CISPR quasi-	aragraph (g), fundamental emisting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241. The tighter limit applies at the in the above table are based of peak detector except for the free times at the received and the section in the above table are based of the free times.	essions from t be located in the or 470-806 MHz. hitted under other be band edges. on measurements equency bands 9-
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	** Except as provided in printentional radiators operation frequency bands 54-72 MI 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	aragraph (g), fundamental emisting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241. The tighter limit applies at the in the above table are based of	essions from t be located in the or 470-806 MHz. hitted under other be band edges. on measurements equency bands 9- nission limits in
Test Limit:	** Except as provided in printentional radiators operation frequency bands 54-72 MI 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 these three bands are based in the section of the provided in printent of the printent of the provided in printent of the printent of the printent of the provided in printent of the pri	aragraph (g), fundamental emisting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is permiss 15.231 and 15.241. The tighter limit applies at the in the above table are based of peak detector except for the freabove 1000 MHz. Radiated en sed on measurements employing 6.6.4	essions from t be located in the or 470-806 MHz. hitted under other be band edges. on measurements equency bands 9- nission limits in

## 12.1. EUT Operation

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(A)	Operating Envir	onment:	VII.	Anbolek	Vup	-10K	* upotek	Aupor	~ K
7	Test mode:	hopping) w 2: TX-π/4-l	vith GFSK mo DQPSK (Nor	oing): Keep th odulation. n-Hopping): K DQPSK mod	Geep the E	"potek	AUDO	<u> </u>	"olek





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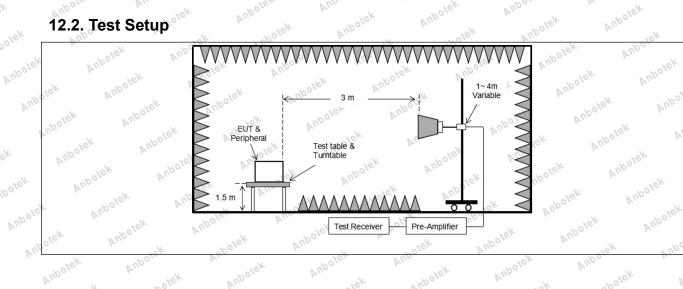
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## 12.2. Test Setup

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## 12.3. Test Data

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Temperature:	22.4 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
--------------	---------	-----------	------	-----------------------	---------

200	P. C.	aboles	AUG	hotek	Anbo	, iek	Anbolo
odn,			•	TM2 / CH: L			
. 4	Peak value:						
b.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
	4804.00	30.98	15.27	46.25	74.00	-27.75	Vertical
	7206.00	31.49	18.09	49.58	74.00	-24.42	Vertical
I	9608.00	33.63	23.76	57.39	74.00	-16.61	Vertical
	12010.00	* "pole"	Aupo	, vo.	74.00	VIII	Vertical Vertical
	14412.00	*	otek Anbo	ie. Vue	74.00	Olek Vupe	Vertical
	4804.00	31.03 And	15.27	46.30	74.00	-27.70	Horizontal
	7206.00	33.08	18.09	51.17	74.00	-22.83	Horizontal
	9608.00	29.87	23.76	53.63	74.00	-20.37	Horizontal
	12010.00	Ano*	Pupolek	Auporg	74.00	Aupoles	Horizontal
	14412.00	K#Upore	k, ctek	Aupolek	74.00	k upolek	Horizontal
	Average value:						
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
	4804.00	20.36	15.27	35.63	54.00	-18.37	Vertical
	7206.00	20.52	18.09	38.61	54.00	-15.39	Vertical
	9608.00	22.65	23.76	46.41 olek	54.00	-7.59	Vertical
	12010.00	* *	sk Aupor	p. ·	54.00 mo	S. Aug	Vertical
	14412.00	* *	niek Ant	loter Aug	54.00	potek Aut	Vertical
	4804.00	19.38	15.27	34.65	54.00	-19.35	Horizontal
	7206.00	22.14	18.09	40.23	54.00	-13.77	Horizontal
	9608.00	19.18	23.76	42.94	54.00	-11.06	Horizontal
	12010.00	VUA.	Vupojek	Vupo.	54.00	Anboles	Horizontal
d	14412.00	*Aupolo	P1.	K Wole	54.00	10 de 10	Horizontal

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	upotek Vup	Pupo,	16k - 4	otek Aup	646 Anbo	upotek Au	otek A
	VUpg	-04	'90's Ar	ГМ2 / CH: M	roter. V	UP	-46K
	Peak value:						
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarizatio
	4882.00	31.00	15.42	46.42	74.00	-27.58 m	Vertical
	7323.00	ove* 31.34 Anbo	18.02	49.36	74.00	-24.64	Vertical
	9764.00	32.64	23.80	56.44	74.00	-17.56	Vertical
	12205.00	Anb *	abotek	Aupor	74.00	Aupolek	Vertical
	14646.00	Anbots	A. Olek	Aupolek	74.00	upotek	Vertical
	4882.00	30.73	15.42	46.15	74.00	-27.85	Horizonta
	7323.00	33.07	18.02	51.09	74.00	-22.91	Horizonta
	9764.00	29.57	23.80	53.37	74.00	o <sup>tek</sup> -20.63 №	Horizont
	12205.00	potek * And	- O.Y.	abotek An	74.00	"Olek b	Horizonta
	14646.00	sholek*	Aupore	clek	74.00	Vun.	Horizonta
	Average value:						
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
	4882.00	20.09	15.42	35.51 nbo	54.00	-18.49	Vertical
	7323.00	20.62	18.02 And	38.64	54.00	-15.36	Vertical
	9764.00	22.51	23.80	46.31	54.00	7.69	Vertical
	12205.00	Aupote*	Vin	anbotek	54.00	abotek	Vertical
	14646.00	nb*lek	Anbor	hotek	54.00	VI.	Vertical
	4882.00	19.29	15.42	34.71	54.00	-19.29	Horizont
. (	7323.00	21.70	18.02	39.72	54.00	-14.28	Horizont
	9764.00	19.69	23.80	otek 43.49 Anb	54.00	10.51	Horizont
0000	12205.00	hotek *	Pole, Vu	rek .	nbo*54.00 N	100 CK	Horizont
	14646.00	'up **	Pupolek	Aup	54.00	Aupotok	Horizonta

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Vupo, b.	40.	PIL VI	V	roler V	Up.	19K
			ГМ2 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	31.27	15.58	46.85	74.00	-27.15 wol	Vertical
7440.00	31.35 NO	17.93	49.28	otok 74.00 kupi	-24.72	Vertical N
9920.00	33.19	23.83	57.02	74.00	-16.98	Vertical
12400.00	Anbote * P	"I'ek	Aupoles	74.00	"polek	Vertical
14880.00	Vupo*ek	Aupole **	spotek	74.00	W. Folek	Vertical
4960.00	30.80	15.58	46.38	74.00	-27.62	Horizontal
7440.00	33.10	17.93	51.03	74.00	-22.97	Horizontal
9920.00	30.25	23.83	54.08	74.00	19.92 mg	Horizontal
12400.00	polek * Anb	oto Vi	rek Ar	74.00 And	19.	Horizontal
14880.00	" \\ \*	Inpolek A	Up - CK	74.00	Vupor b	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	21.21	15.58	36.79	54.00	-17.21	Vertical
7440.00	21.63	otek 17.93 And	39.56	54.00	o <sup>tek</sup> -14.44 k <sup>nlo</sup>	Vertical
9920.00	23.06	23.83	46.89	54.00	√7.11	Vertical
12400.00	abole*	Vupo	i otek	54.00	Yun 16k	Vertical
14880.00	* tek	Anbotek	Yun 'Ek	54.00	Aupole	Vertical
4960.00	20.73	15.58	36.31	54.00	-17.69	Horizontal
7440.00	23.07	17.93	41.00	54.00	-13.00	Horizontal
9920.00	19.59 noot	23.83	43.42	54.00 km	-10.58	Horizontal
12400.00	*	potek Aut	, b.	54.00	Poles Vu	Horizontal
14880.00	upole *	OFE <sub>F</sub>	Vupole	54.00	* upolek	Horizontal

#### Remark:

- 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.
- 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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