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FCC Test Report

Applicant : TESONIC INTERNATIONAL (HK) LTD.

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

Avenue, Shenzhen, China

Product Name : TWS BLUETOOTH STEREO EARBUDS

Report Date : Sept. 19, 2023

Shenzhen Anbotek Compliance Laboratory Limited







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TEST REPORT

Applicant : TESONIC INTERNATIONAL (HK) LTD.

Manufacturer : Rayin Electronic Co.,Ltd.

Product Name : TWS BLUETOOTH STEREO EARBUDS

Test Model No. : 645872

Reference Model No. : TWDE-2126AS

Trade Mark : N/A

Input: 5V=200mA

Rating(s) : Charging case: with DC 3.7V, 200mAh Battery inside

Earphone: with DC 3.7V, 30mAh Battery inside

Test Standard(s) : 47 CFR Part 15.247

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. 05, 2023
Date of Test:	Sept. 05 ~ 15, 2023
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Nian xiu Chen
Prepared By:	Whole, Mun tek Bolek Mupo,
	(Nianxiu Chen)
	Bolward pour
Approved & Authorized Signer:	Anbo ok botek Anbore
Anbore And Stek Anborek Anbo ak ho	(Edward Pan)







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Revision History

	Report Version	Description	Issued Date		
	Anbore R00 potek An	Original Issue.	Sept. 19, 2023		
9,	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Ant		
10	or Anbotek Anboten	Anborek Anborek Anbor	otek Anbotek Anbotek		





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1. General Information

1.1. Client Information

~ U.	-7/-	No. 1. View Vol.
Applicant	:	TESONIC INTERNATIONAL (HK) LTD.
Address	:	Room 2801,the 28th Office Tower, 6007 Shennan Avenue, Shenzhen, China
Manufacturer	:	Rayin Electronic Co.,Ltd.
Address	:	Room 1201, Building 7, Fenggang Tianan cyber park, 208 Fenggang Section, Dongshen Road, Fenggang Town, 523000 Dongguan, Guangdong Sheng, China
Factory	:	Rayin Electronic Co.,Ltd.
Address	:	Room 1201, Building 7, Fenggang Tianan cyber park, 208 Fenggang Section, Dongshen Road, Fenggang Town, 523000 Dongguan, Guangdong Sheng, China

1.2. Description of Device (EUT)

:	TWS BLUETOOTH STEREO EARBUDS
:	645872
:	TWDE-2126AS (Note: All samples are the same except the model number, appearance color, so we prepare "645872" for test only.)
:	N/A Andrek Anborek Anborek Anborek Anborek
	AC 120V, 60Hz for Adapter/ DC 3.7V Battery inside
:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
:	N/A hootek Anbotek Anbotek Anbotek Anbotek Anbotek
:	2402MHz to 2480MHz
:	79 Channels
:	GFSK, π/4 DQPSK
:	PCB Antenna
:	-0.05 dBi
	: : : : : : : : : : : : : : : : : : : :

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.







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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

de Yes					- *ek		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
nboO'k	2402	20	2422	40 A	2442	60	2462
Jorek	2403	21 otek	2423	41	2443	61 ¹⁰⁰¹⁰	2463
2 botel	2404	22	2424	42	2444	ek 62 Anbo	2464
3 50	2405	23 Amb	2425	rek 43 And	2445	otek 63	2465 Ant
4	2406	oten 24 An	2426	botel44	2446	64	2466
5 A	2407	25	2427	45	2447	65	2467
Anbot6	2408	26	2428	46	2448	66	2468
An 70 tek	2409	27 · · · ·	2429	47	2449	67	2469
8 _{nb} otek	2410	28	2430	48	2450	68 Anbo	2470
, 9 ₀₀ 0	2411 ^{nbot}	29	otek 2431 Mood	49 And	2451	o ^{tell} 69 M	2471
10	2412 M	30	2432	50 P	2452	, 70	2472
11	2413	n ^{oote} 31	2433	51	2453	712	2473
Anbort 12	2414	32	2434	52	2454	72 tek	2474
13	2415	33	2435	53,000 K	2455	73	2475
14	2416	34 nbote	2436	54	2456	74	2476
× 15 Anbot	2417	35	2437	55	2457 And	oteh 75 Ant	2477
16 NO	2418	36	2438	56	2458	nb ^{otel} 76	2478
17	2419	37	2439	Anbois7	2459	77	2479
18 _k	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	- boie	r Pupoter





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1.5. Description of Test Modes

Pretest Modes	Descriptions			
Anborek TM1nbores An	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.			
TM2 Anbotek	Keep the EUT in continuously transmitting mode (non-hopping) with π/4DQPSK modulation.			
TM3	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.			
TM4 et Anbore	Keep the EUT in continuously transmitting mode (hopping) with π/4DQPSK modulation.			

1.6. Measurement Uncertainty

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

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









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1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbotek / Anbotes	P
Conducted Emission at AC power line	Mode1,2	PART
Occupied Bandwidth	Mode1,2	P
Maximum Conducted Output Power	Mode1,2	nbott P
Channel Separation	Mode3,4	Anbort P
Number of Hopping Frequencies	Mode3,4	A P
Dwell Time	Mode3,4	Punbo
Emissions in non-restricted frequency bands	Mode1,2,3,4	P
Band edge emissions (Radiated)	Mode1,2	pote P
Emissions in frequency bands (below 1GHz)	Mode1,2	Anbore P
Emissions in frequency bands (above 1GHz)	Mode1,2	MP
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek	ek Yupou

1.8. Description of Test Facility

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

FCC-Registration No.:184111

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. 184111.

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128





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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.
- 2. The test report is invalid if there is any evidence and/or falsification.
- The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 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.

1.10. Test Equipment List

Cond	ucted Emission at A	C power line	k Aupotek	V Aupo	ek anbotek	Aupore
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
o 2 ·	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
Ang	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Jotek / Anbote	Who ter

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Item	Equipment Manufacturer		Model No.	Serial No.	Last Cal.	Cal.Due Date
1	MXG RF Vector Signal Generator	Agilent	N5182A	MY481806 56	2022-10-13	2023-10-12
×2	Power Meter	Agilent	N1914A	MY500011 02	2022-10-26	2023-10-25
nb3tek	DC Power Supply	IVYTECH	IV3605	1804D360 510	2022-10-22	2023-10-21
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5 AT	Oscilloscope	Tektronix	MDO3012	C020298	2022-10-19	2023-10-18







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oke.	And	Totek Anbo.	-sok	- Thoye.	VUr.	- Loick D
	edge emissions (Ra sions in frequency ba	V	Aupo, otek	Anboiek	Aupoter	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2022-10-13	2023-10-12
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbołe 1	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Aupotek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
6	Spectrum Analyzer Rohde & Schwarz		FSV40-N	101792	2023-05-26	2024-05-25
,e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emissions in frequency bands (below 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
34	Bilog Broadband Schwarzbeck		VULB9163	345	2022-10-23	2025-10-22
Andore	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	AU Jose	Andorek





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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 PCB Antenna which permanently attached, and the best case gain of the antenna is -0.05 dBi. It complies with the standard requirement.





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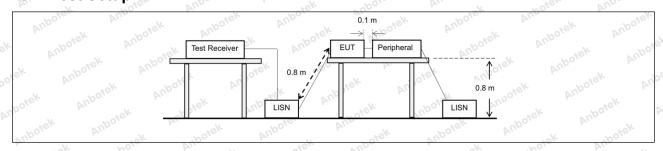
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the result back onto the AC power line on are band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage tha ny frequency or frequencie t exceed the limits in the fo	nected to the at is conducted as, within the ollowing table, as				
spoick Aupon	Frequency of emission (MHz)	Conducted limit (dBµV)					
YII.	Anbore Anbore	Quasi-peak	Average				
Aupor Air	0.15-0.5	66 to 56*	56 to 46*				
Test Limit:	0.5-5	56	46				
Will work	5-30 And San	60	50 And				
k Anbors Ar.	*Decreases with the logarithm of the frequency.						
Test Method:	ANSI C63.10-2020 section 6.2	Anborek Anbore	And				
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unline conducted emissions from the conducted emission						

3.1. EUT Operation

Operating E	nvironment:	Anbo.	Projek .	Anbote.	Aur	Anbotek	Aupo.
Test mode:	hopping) 2: TX-π/4	with GFSK n -DQPSK (No	nodulation.	(eep the EU	ontinuously tran	And	al-

3.2. Test Setup





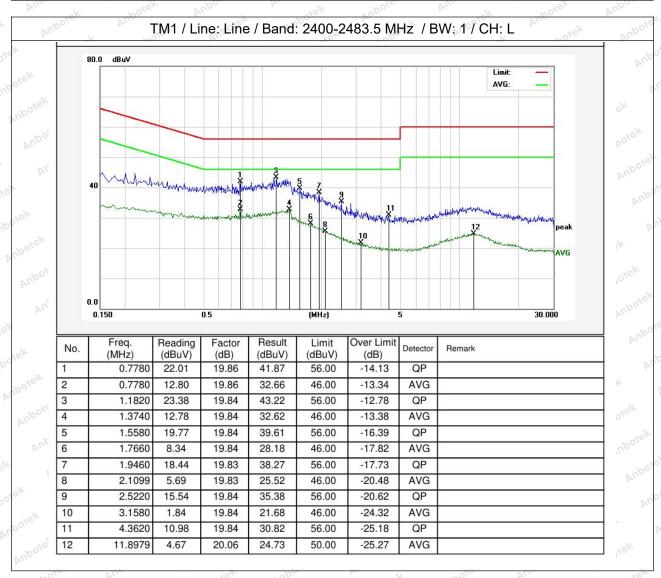
Hotline



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3.3. Test Data

Temperature: 24.5 °C Humidity: 63 % Atmospheric Pressure: 96 kPa



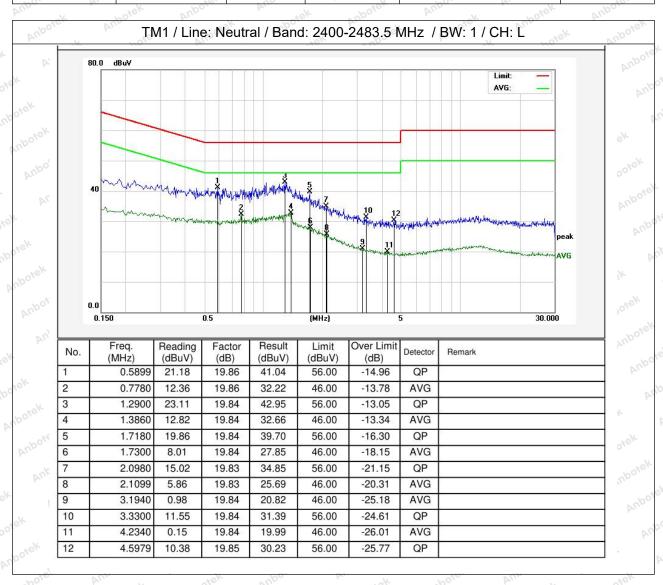






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Temperature: 24.5 °C Humidity: 63 % Atmospheric Pressure: 96 kPa



Note: Only record the worst data in the report.







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
rest requirement.	
abotek Anbo.	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
Test Limit:	ensure that the 20 dB bandwidth of the emission, or whatever bandwidth
rest Limit.	may otherwise be specified in the specific rule section under which the
	equipment operates, is contained within the frequency band designated in
upotek Aupo,	the rule section under which the equipment is operated.
To Selvetto al Anboren	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements,
Test Method:	use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
Anbo	The occupied bandwidth is the frequency bandwidth such that, below its
	lower and above its upper frequency limits, the mean powers are each equal
	to 0.5% of the total mean power of the given emission. The following
	procedure shall be used for measuring 99% power bandwidth:
	a) The instrument center frequency is set to the nominal EUT channel center
	frequency. The frequency span for the spectrum analyzer shall be between
	1.5 times and 5.0 times the OBW.
	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to
	5% of the OBW, and VBW shall be at least three times the RBW, unless
Sorek Anbore	otherwise specified by the applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal
	from exceeding the maximum input mixer level for linear operation. In
	general, the peak of the spectral envelope shall be more than [10 log
otek Aupa	(OBW/RBW)] below the reference level. Specific guidance is given in
	4.1.6.2.
Dragadura, wotek	d) Step a) through step c) might require iteration to adjust within the
Procedure:	specified range.
	e) Video averaging is not permitted. Where practical, a sample detection and
	single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
	f) Use the 99% power bandwidth function of the instrument (if available) and
	report the measured bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the
	trace data points are recovered and directly summed in linear power terms.
	The recovered amplitude data points, beginning at the lowest frequency, are
	placed in a running sum until 0.5% of the total is reached; that frequency is
	recorded as the lower frequency. The process is repeated until 99.5% of the
	total is reached; that frequency is recorded as the upper frequency. The 99%
	power bandwidth is the difference between these two frequencies.
	h) The occupied bandwidth shall be reported by providing spectral plot(s) of
	the measuring instrument display; the plot axes and the scale units per
	division shall be clearly labeled. Tabular data may be reported in addition to
	the plot(s).
	1 20







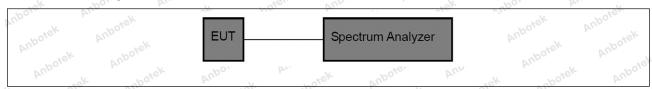
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4.1. EUT Operation

Operating Envi	ronment:	Anbo	aboiek	Anbore	k Wolek	Anboten	Aup
And	V (/ / / /	and the			in continuously t	ransmitting ı	mode (non-
Test mode:	~~~) with GFSK /4-DQPSK (N			FUT in continue	ously transm	ittina mode

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

4.2. Test Setup



4.3. Test Data

0	Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa	P
- 1	romporataro.	20.0	riairiiaity.	10,700	/ turnoopriorio i roccaro.	102 IVI G	





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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5
Anbotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Procedure:	f) Trace: Max-hold. g) Allow trace to stabilize.
ek anbotek Ant	h) Use the marker-to-peak function to set the marker to the peak of the emission.
	 i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power
Aupotek Aupote	meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

5.1. EUT Operation

Operating	Envi	ronment:	work.	Anbote	And	494	abojek	Aupo.	-V-
Test mode	· Þ.	1: TX-GFSK (No hopping) with GF 2: TX-π/4-DQPS (non-hopping) w	FSK modulatio SK (Non-Hoppi	on. ing): Keep the	EUT in	abotek		- V.	Lotek

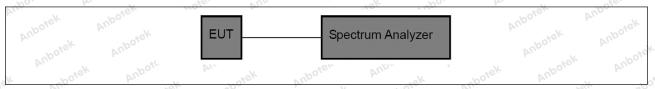






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5.2. Test Setup



5.3. Test Data

	05.000	No.	40.0000	Pil.	100 1 5
Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa





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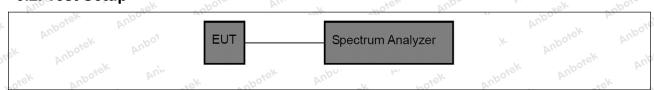
6. Channel Separation

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

6.1. EUT Operation

X	Operating Envi	ronment:	Anbotek	Anbo.	Anbotek .	Anbore	, botek	Anbot
20,7	Test mode:	with GFSK 4: TX-π/4-E	modulation,. DQPSK (Hop	Keep the EUT ping): Keep the SK modulation	e EUT in con	ek spo	tek Aupor	0, 5,

6.2. Test Setup



6.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa
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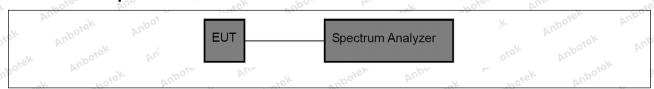
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3
Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
	It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

7.1. EUT Operation

_3	Operating Envir	onment:	Pin	Anbores	Anbo	Anbotek	Aupor	Pri
77.	Test mode:	with GFSK r 4: TX-π/4-D	(Hopping): Ke modulation,. QPSK (Hoppir ith π/4DQPSK	ng): Keep the	EUT in cont	And	rek abo	yek C,

7.2. Test Setup



7.3. Test Data

	Temper	rature:	25.3 °C	YUPO	Humidity:	48 %	Anboro	Atmospheric Pressure:	102 kPa	to (
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8. Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4
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.
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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
Anbotek Anb	dwell time with the minimum number of channels. Use the following spectrum analyzer settings to determine the dwell time per
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	hop: a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period =
	 1/hopping rate) should achieve this. d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between









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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.

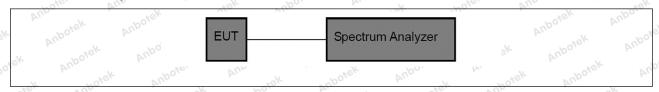
8.1. EUT Operation

Operating Environment:

Test mode:

- 3: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
- 4: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4DQPSK modulation.

8.2. Test Setup



8.3. Test Data

Temperature: 25.3	3 °C Moo	Humidity:	48 %	Atmospheric Pressure:	102 kPa	
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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
Test Limit: Anborek	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
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.
botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure: Anborek Anborek Anborek Anborek 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 measurements a separate spectral plot showing the in-band level shall be provided.
	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth







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

7.8.7.2 Band-edges

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

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

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

9.1. EUT Operation

Operating Environment:

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

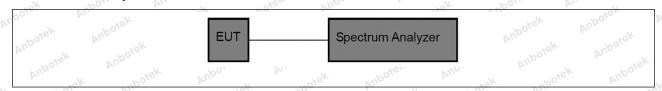
2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4DQPSK modulation.

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 π /4DQPSK modulation.

9.2. Test Setup

Test mode:



9.3. Test Data

D.		0 = 0 0 0 3 0 10	V 000	10 01 old	100,	40000	
	Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa	
	V	0//-	- C. C. C.		VI	DV.	







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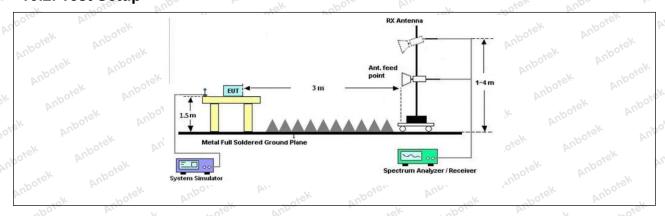
10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
k Aupotek Wilson	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. p. ciek	0.009-0.490	2400/F(kHz)	300 Mbore
aborek Anbo	0.490-1.705	24000/F(kHz)	30 Lotek
atek anboter	1.705-30.0	30° , Albo	30
	30-88	100 **	3,ek nbore
T- Haboter And	88-216	150 **	3
Test Limit:	216-960	200 ***	3 botes And
	Above 960	500 Morek Ambo	3 rek ont
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or d hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.10 Andrew	Anboren And
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Aupoten Aup

10.1. EUT Operation

Operating Env	ironment:	, hotek	Anbotel	Anbo	Motek	Aupor
Test mode:	1: TX-GFSK (No hopping) with GI 2: TX-π/4-DQPS (non-hopping) w	FSK modulatior SK (Non-Hoppin	n. ig): Keep the	e EUT in contin	And	ek botek

10.2. Test Setup





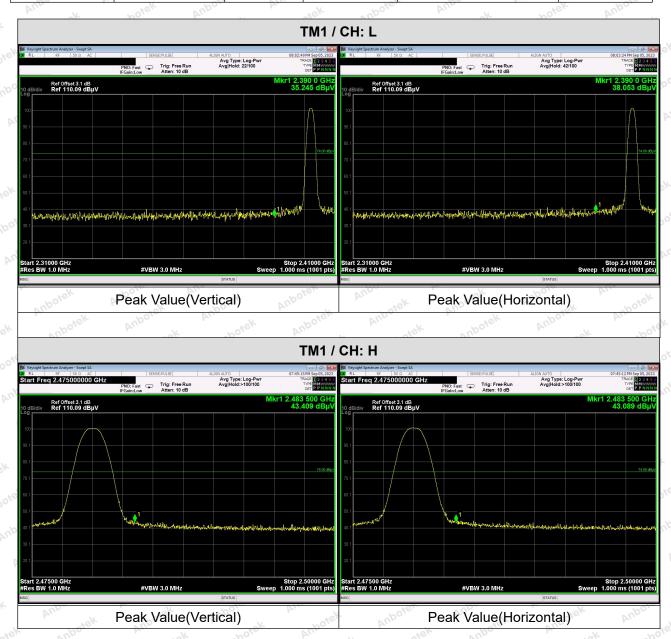




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10.3. Test Data

Temperature: 25.3 °C Humidity: 48 % Atmospheric Pressure: 102 kPa







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Average:

Test Mode	Peak Value (dBuV/m)	DCCF	Average Value (dBuV/m)	Limit (dBuV/m)	Polarization	Verdict
TMAYCLL	35.245	-2.27	32.976	54.00	Vertical	Pass
TM1 / CH: L	38.053	-2.27	35.784	54.00	Horizontal	Pass
TM1 / CH: H	43.409	-2.29	41.116	54.00	Vertical	otel Pass
IMIT / CH. H	43.089	-2.29	40.796	54.00	Horizontal	Pass

Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 1. DCCF=20log(Duty Cycle)
- 2. Average Value=Peak Value+DCCF





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11. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
k Anbotek Anbor	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. Viek	0.009-0.490	2400/F(kHz)	300 Mport
aposen Auga	0.490-1.705	24000/F(kHz)	30
", otek Vupote,	1.705-30.0	30° , atok 000°	30
Anbo	30-88	100 **	3rek nobore
- sobotek Anbo	88-216	150 **	3
Test Limit:	216-960	200 **	3 boten And
Anbo. A.	Above 960	500 horek Anbo	3 rek on
hek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4	Anbores Anb
Procedure:	ANSI C63.10-2020 section	6.6.4 Andrew	Anbotek Ant

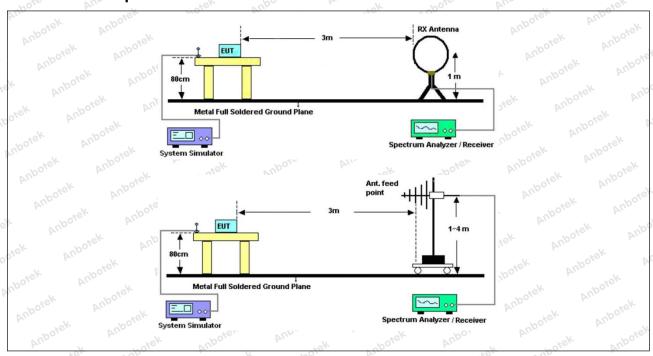
11.1. EUT Operation

Operating Env	ironment:	, hotek	Anbotel	Anbo	Motek	Aupor
Test mode:	1: TX-GFSK (No hopping) with GI 2: TX-π/4-DQPS (non-hopping) w	FSK modulatior SK (Non-Hoppin	n. ig): Keep the	e EUT in contin	And	ak botek



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11.2. Test Setup



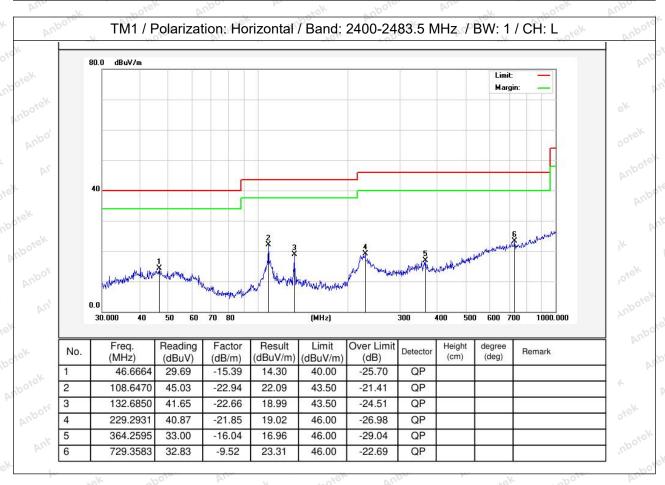




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11.3. Test Data

Temperature: 23.5 °C Humidity: 49 % Atmospheric Pressure: 99 kPa

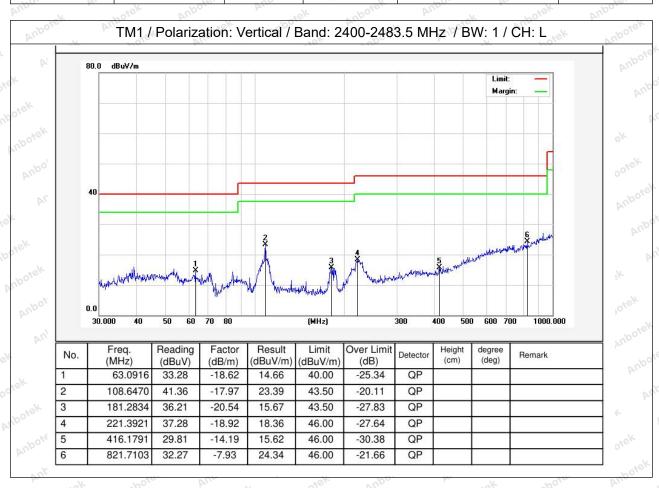






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Temperature: 23.5 °C Humidity: 49 % Atmospheric Pressure: 99 kPa



Note: Only record the worst data in the report.









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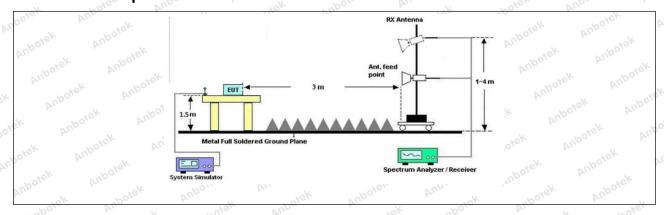
12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background $S(x)$.	
otek Vupotek Vupo.	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
, wotek	0.009-0.490	2400/F(kHz)	300 Mbore
nboren Anb	0.490-1.705	24000/F(kHz)	30
otek Anbote	1.705-30.0	30° Arek mbo	30
Anbo	30-88	100 **	3 ck nbore
T thore And	88-216	150 **	3
Test Limit:	216-960	200 **	3bore And
k Aupo, W.	Above 960	500 hotel Anbou	3 rek and
nbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4 Marie	Anbote. And
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore And	Aupotek Aup

12.1. EUT Operation

Operating Env	ironment:	, hotek	Anbotel	Anbo	Motek	Aupor
Test mode:	1: TX-GFSK (No hopping) with GI 2: TX-π/4-DQPS (non-hopping) w	FSK modulatior SK (Non-Hoppin	n. ig): Keep the	e EUT in contin	And	ak botek

12.2. Test Setup









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12.3. Test Data

Temperature: 22.1 °C	Humidity: 57.9 %	Atmospheric Pressure:	102 kPa
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· · · · · · · · · · · · · · · · · · ·	No. XI		TM1 / CH: L	·	7K 70,	by
			I WI1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	29.44	15.27	44.71	74.00	-29.29	Vertical
7206.00	30.22	18.09	48.31	74.00	-25.69	Vertical
9608.00	31.82	23.76	55.58	74.00	-18.42	Vertical
12010.00	Aupole * Al	49:	abotek Anb	74.00	otek Anbote	Vertical
14412.00	*Upo*sk	Anbo	hotek b	74.00	otek ont	Vertical
4804.00	29.63	15.27	44.90	74.00	-29.10	Horizontal
7206.00	31.23	18.09	49.32	74.00	-24.68	Horizontal
9608.00	29.21	23.76	52.97	74.00	-21.03	Horizontal
12010.00	otek * Aupo	-K 20	ick Aupole,	74.00	· nbotek	Horizontal
14412.00	woick* An	bose Vur	rek abo	74.00	-k hote	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.82	15.27	34.09	54.00	-19.91	Vertical
7206.00	19.25	18.09	37.34	54.00	-16.66	Vertical
9608.00	20.84	23.76	44.60	54.00	-9.40	Vertical
12010.00	A CANADA	Aupoles Au	iek .	54.00	, pin	Vertical o
14412.00	And * * ek	abotek	Aupor K	54.00	Ipoles Aug	Vertical
4804.00	17.98	15.27	33.25	54.00	-20.75	Horizontal
7206.00	20.29	18.09	38.38	54.00	-15.62	Horizontal
9608.00	18.52	23.76	42.28	54.00	-11.72	Horizontal
12010.00	* * *	otek Anbott	K 1-04	54.00	Augo	Horizontal
14412.00	4 ×	sofek ant	Oto. Vup	54.00	ek Auport	Horizontal





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K Vupo.	Ar. stek	"Upote,	Anti	hotek	Aupo, A	, tok
			ГМ1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	29.46	15.42	44.88	74.00	-29.12	Vertical
7323.00	30.07	18.02	48.09	74.00	-25.91	Vertical
9764.00	30.83	23.80	54.63	74.00	-19.37	Vertical
12205.00	ek * społek	Aupo.	k. hotek	74.00	And	Vertical
14646.00	* * *	ick Aupole	Pur Ofe	74.00	Aupor	Vertical
4882.00	29.33	15.42	44.75	74.00	-29.25	Horizontal
7323.00	31.22	18.02	49.24	74.00	-24.76	Horizontal
9764.00	28.91	23.80	52.71	74.00	-21.29	Horizontal
12205.00	* *ofek	Anbore	And	74.00	Yupo, Uk	Horizontal
14646.00	AT STEK	Anbotek	Aupon	74.00	Anbore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	18.55	15.42	33.97	54.00	-20.03	Vertical
7323.00	19.35	18.02	37.37	54.00	-16.63	Vertical
9764.00	20.70	23.80	44.50	54.00	-9.50	Vertical
12205.00	k #upor	W. Siek	Vupo, ex	54.00	boiek	Vertical
14646.00	otek * Anbote	Anbo	ek spojek	54.00	RIV Lotek	Vertical
4882.00	17.89	15.42	33.31	54.00	-20.69	Horizontal
7323.00	19.85	18.02	37.87	54.00	-16.13	Horizontal
9764.00	19.03	23.80	42.83	54.00	100tel-11.17 And	Horizontal
12205.00	Aupotek	Aup. *ek	abotek	54.00	-otek D	Horizontal
14646.00	* botek	Vupo.	W. Olek	54.00	Pur Ck	Horizontal





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Le. MUR	atek.	vupo.	Iv.	hole	VUL	"tek
			TM1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.73	15.58	45.31	74.00	-28.69	Vertical
7440.00	30.08	17.93	48.01	74.00	-25.99	Vertical
9920.00	31.38	23.83	55.21	74.00	-18.79	Vertical
12400.00	* P. Mark	anboten	Anti	74.00	Aupo,	Vertical
14880.00	* 400	iek upotek	Aupo.	74.00	Aupore.	Vertical
4960.00	29.40	15.58	44.98	74.00	-29.02	Horizontal
7440.00	31.25	17.93	49.18	74.00	-24.82	Horizontal
9920.00	29.59	23.83	53.42	74.00	-20.58	Horizontal
12400.00	AUD * "SK	abotek	Aupo,	74.00	Anbote, An	Horizontal
14880.00	Vipo,	hotek	Anbores	74.00	abotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	19.67	15.58	35.25	54.00	-18.75	Vertical
7440.00	20.36	17.93	38.29	54.00	, ot -15.71 M	Vertical
9920.00	21.25	23.83	45.08	54.00	-8.92	Vertical
12400.00	k * "potek	Aupo,	hotek	54.00	Andrick	Vertical
14880.00	* * *	k Aupolo.	Aur	54.00	Aupo.	Vertical
4960.00	19.33	15.58 NO	34.91	54.00	-19.09	Horizontal
7440.00	21.22	17.93	39.15 N	54.00	-14.85	Horizontal
9920.00	18.93	23.83	42.76	54.00	-11.24	Horizontal
12400.00	* tek	Anbores	Aur	54.00	ipo. bis	Horizontal
14880.00	An*	anbotek	Vupo.	54.00	Aupole	Horizontal

Remark:

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







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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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

