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FCC Test Report

Applicant : Boompods EU Sp. z o.o

Address : ul. Barbary 16 Granica 05-806 Komorów Poland

Product Name : Noise Canceling True Wireless Earbuds

Report Date : Apr. 11, 2024

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited









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TEST REPORT

Boompods EU Sp. z o.o Applicant

Manufacturer Dongguan Linyar Technologg Co., Ltd.

Noise Canceling True Wireless Earbuds **Product Name**

ECHOBUDS ANC Test Model No.

Reference Model No. EANCBK, EANCWT

Trade Mark **BOOMPODS**

Case Input: 5V-300mA

Single Earphone Input: 5V-40mA Rating(s)

Case Capacity: Lithium-ion: DC 3.7V, 300mAh

Single Earphone Capacity: Lithium-ion: DC 3.7V, 40mAh

47 CFR Part 15.247 Test Standard(s) ANSI C63.10-2020

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:	Mar. 19, 2024
Date of Test:	Mar. 19, 2024 to Mar. 29, 2024
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Prepared By:	Anborek Anborek Anborek Anbore
	(Ella Liang)
	Idward pan
Approved & Authorized Signer:	1900 Could for
oter Authorite Aubotek Aubote Au	(Edward Pan)



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Revision History

	Report Version	Description	Issued Date			
	Anborte R00 potek An	Original Issue.	Apr. 11, 2024			
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10	or Alpotek Anbotek	Anbotek Anbotek Anbot	tiek Anbotek Anbotes			





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1. General Information

1.1. Client Information

A 17 P	V-	No. M.
Applicant	:	Boompods EU Sp. z o.o
Address	:	ul. Barbary 16 Granica 05-806 Komorów Poland
Manufacturer	:	Dongguan Linyar Technologg Co.,Ltd.
Address	·	The third floor, building 2, No.4 Xitou East Road, Houjie Town, Dongguan, China
Factory	:	Dongguan Linyar Technologg Co.,Ltd.
Address		The third floor, building 2, No.4 Xitou East Road, Houjie Town, Dongguan, China

1.2. Description of Device (EUT)

Product Name	:	Noise Canceling True Wireless Earbuds
Test Model No.	:	ECHOBUDS ANC
Reference Model No.	:	EANCBK, EANCWT (Note: EANCBK(Echobuds ANC black color) EANCWT(Echobuds ANC white color) All samples are the same except the model number and color, so we prepare "ECHOBUDS ANC" for test only.)
Trade Mark	:	BOOMPODS
Test Power Supply	:	AC 120V/60Hz for adapter; DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A nbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	179'er Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK
Antenna Type	:	Ceramic Antenna
Antenna Gain(Peak)	:	1.7dBinbortek Anbotek 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.	
Direk / Aupoter	Anbotek Anbotek	Anbor sek Andorek	Aupote. 1 Aug	

1.4. Description of Test Modes

(0)	Pretest Modes	Descriptions
- Committee	nbotek ArTM1	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
	Anboret TM2	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
0	Anborek TM3 Anborek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
0	rek AnborTM4 Anborek	Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.

1.5. Measurement Uncertainty

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

Test Items	Test Modes	Status
Antenna requirement	Anborek / Anboren	Ant P of ek
Conducted Emission at AC power line	Mode1,2	P
Occupied Bandwidth	Mode1,2	P ^{Anto}
Maximum Conducted Output Power	Mode1,2	P
Channel Separation	Mode3,4	upor Pk
Number of Hopping Frequencies	Mode3,4	Anbo Prick
Dwell Time Andorek Andorek Andorek Andorek	Mode3,4	P
Emissions in non-restricted frequency bands	Mode1,2,3,4	Panta
Band edge emissions (Radiated)	Mode1,2	P An
Emissions in frequency bands (below 1GHz)	Mode1,2	upote B
Emissions in frequency bands (above 1GHz)	Mode1,2	Anbor P
Note: P: Pass	Anbotek Anbotek	Anbore





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1.7. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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

1.8. 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.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

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





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1.9. Test Equipment List

Cond	ucted Emission at A	C power line				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
tek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3,000	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Alootek	Anborek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

It	em	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
rek	1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	ootek N/A	2023-10-16	2024-10-15
doo	2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
PLU	3°'e	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
	4.º/0	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-10-12	2024-10-11
	5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
101	6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

Hotline



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	edge emissions (Ra sions in frequency ba		Aupotek	Anborek	Aupotek	Anborek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 0.0	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbole 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Aupolek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
*e ¹ 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

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

www.anbotek.com.cn





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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 1.7dBi. It complies with the standard requirement.





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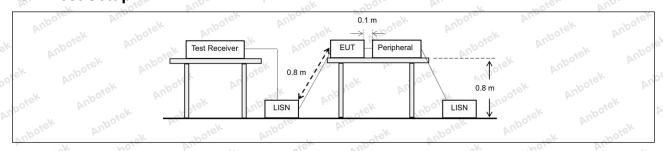
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Exce section, for an intentional radiator public utility (AC) power line, the back onto the AC power line on a band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	r that is designed to be con radio frequency voltage tha any frequency or frequencie ot exceed the limits in the f	nnected to the at is conducted es, within the following table, as	
Inbotek Anbore	Frequency of emission (MHz)	Conducted limit (dBµV)		
	Anbor Anbor	Quasi-peak	Average	
Anbore Air	0.15-0.5	66 to 56*	56 to 46*	
Test Limit:	0.5-5 tek nibote Am	56, botek Ar	46	
Vun 190	5-30 And 5	60	50 And	
k Aupore K	*Decreases with the logarithm of	the frequency.	Pir. Polek Wup.	
Test Method:	ANSI C63.10-2020 section 6.2	hotek Anbotes	And	
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from ur			

3.1. EUT Operation

	Operating Envir	onment:	Anbo.	K 00,	ek Anbo	ie. Vu	rek	Anborek	Anbo.
, O	Test mode:	hopping) 2: TX-π/4	with GFSK -DQPSK (N	modulation lon-Hoppin	00, N	EUT in co	Vupote,	smitting mod y transmittin	. ak

3.2. Test Setup



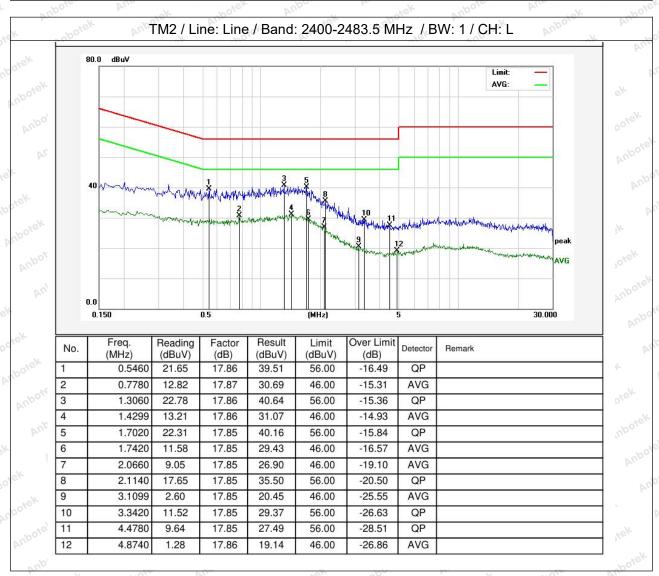




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3.3. Test Data

Temperature: 21.4 °C Humidity: 52 % Atmospheric Pressure	∍: 101 kPa
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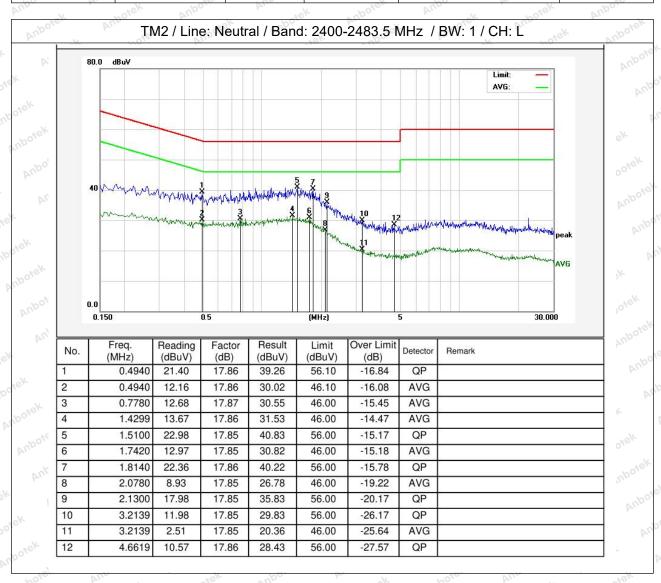






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Temperature: 21.4 °C Humidity: 52 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
Anbotek	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 otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range.
Anbotek Anbotek	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.
otek Anbotek Ar	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
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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

4.1. EUT Operation

	Operating Envir	onment:	Anboiek	Aupo.	w. spotek	Anbore.	Yun	anboie
e)	Test mode:	1: TX-GFSK hopping) wit			ne EUT in co	ntinuously tra	ansmitting mode	(non-



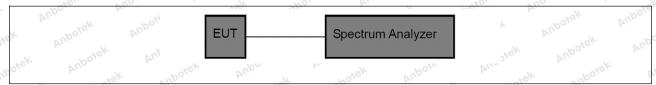




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2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.

4.2. Test Setup



4.3. Test Data

Temperature: 24.5 C Flumidity: 49 % Atmospheric Pressure: 101 kPa	Temperature:	24.3 °C	Anbore	Humidity:	49 %	abotek	Atmospheric Press	sure: 101 kPa	10.
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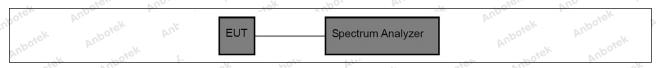
5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Anborek Anborek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5
Anbotek Anbotek Anbotek Anbotek Anbotek Anbot	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: Anbotek Anbotek Anbotek Anbotek Anbotek	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 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
Wypotek Wpote	bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

5.1. EUT Operation

Operating Environment:	"upoto K	botek An	otek An	iek.	Spotek	Anboro
Test mode: hopping 2: TX-π	FSK (Non-Hopp) with GFSK mo /4-DQPSK (Non pping) with π/4 l	odulation. -Hopping): K	eep the EU1	hotek	Vupe	rk hotek

5.2. Test Setup



5.3. Test Data

Temperature:	24.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
	V.U.,	100	-100. Iv.	7. 240. 70.	T .









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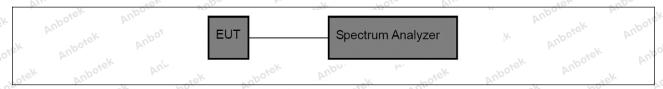
6. Channel Separation

Npo. k.	- tour All the tour and the tour
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anbotek 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
Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. 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

K	Operating Envir	ronment:	Anborek	Aupo.	Anbotek	Aupois	bur Potek	Anbok
,o [†]	Test mode:	with GFSK 4: TX-π/4-	C modulation,. DQPSK (Hop	Keep the EUT ping): Keep the SK modulation	e EUT in con	10de 40	ek Aupo	. 0, 2,

6.2. Test Setup



6.3. Test Data

Temperature: 24.3 ° C Humidity:	49 %	Atmospheric Pressure:	101 kPa
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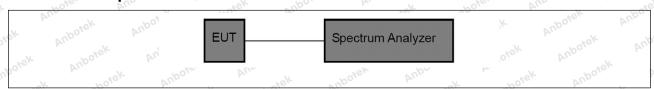
7. Number of Hopping Frequencies

00	20,	D1,			- Yar	- NO.
Test Requirement:	47 CFR 15	5.247(a)(1)(iii)	Anbo.	. abotek	Anbore	Ans
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	2483.5 MH occupancy period of 0 employed. transmissi	7 CFR 15.247(Iz band shall u on any chann 0.4 seconds mo Frequency ho ons on a partio Is are used.	use at least 1 nel shall not t ultiplied by th opping syster	5 channels. To be greater that e number of l ns may avoid	he average ti in 0.4 second hopping chan or suppress	me of s within a nels
Test Method:	ANSI C63.	.10-2020, sect	ion 7.8.3	nbotek	Aupo,	. bojek
Anbotek	spectrum a a) Span: T channels t range of o be clearly b) RBW: T 30% of the c) VBW ≥ d) Sweep: e) Detecto f) Trace: M g) Allow th It might pro all of the h regulatory	o identify clear channel spac RBW. No faster thar r function: Pea	gs: cond of operations, it could be multiple sportly the individuing or the 20 n coupled (audik. It is break the noies. Completermined for	ation. Depend the necessar ans, to allow ual channels, dB bandwidt to) time. span up into iance of an E or the number	ding on the nury to divide the the individual set the RBW h, whichever subranges to of hopping cl	Imber of e frequency channels to to less than is smaller. show clearly ppropriate

7.1. EUT Operation

Operating Envi	onment:	, botek	Anbore	And	atel ^k	Anbotek	Vupo.	, pr
Test mode:	3: TX-GFSK with GFSK m 4: TX-π/4-DG (hopping) wit	nodulation,. QPSK (Hoppir	ng): Keep the	e EUT in	Inpote.		ek abo	yek C,

7.2. Test Setup



7.3. Test Data

Temperature:	24.3 ° C	Humidity: 49 %	Anbore	Atmospheric Pressure:	101 kPa	2.6







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8. Dwell Time

inpos Aria	Thotak Augo K Mark Augore All sak abotek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek 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 Anbotek Anbotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.
	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
Procedure:	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
	Use the following spectrum analyzer settings to determine the dwell time per 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.
k Anbotek Anbo	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.

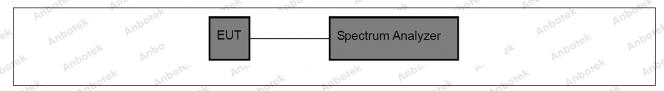
8.1. EUT Operation

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 /4 DQPSK modulation.

8.2. Test Setup



8.3. Test Data

Temperature: 24.3 °	C Humidity:	49 %	Atmospheric Pressure:	101 kPa	
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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek 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	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.
tek Anbotek Ansotek Anbotek 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.
ek upotek Anbo	The limit is based on the highest in-band level across all channels measured
Procedure:	using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band
Anbotek Anbor	measurements a separate spectral plot showing the in-band level shall be provided.
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









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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.

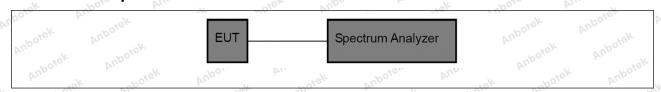
2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.

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 π /4 DQPSK modulation.

9.2. Test Setup

Test mode:



9.3. Test Data

Temperature: 24.3 C	Temperature:	24.3 ° C	Humidity:	49 %	Atmospheric Pressure:	101 kPa	PU
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10. Band edge emissions (Radiated)

Test Method: Procedure:	ANSI C63.10-2020 sect ANSI C63.10-2020 sect	- Ali. / Pup	otek Anbors
nbotek Anbotek	intentional radiators oper frequency bands 54-72 However, operation with sections of this part, e.g In the emission table ab The emission limits show employing a CISPR quare 90 kHz, 110–490 kHz and	paragraph (g), fundamental emiserating under this section shall not MHz, 76-88 MHz, 174-216 MHz of the paragraph of the section shall not MHz, 76-88 MHz, 174-216 MHz of the section of th	be located in the or 470-806 MHz. iitted under other band edges. on measurements equency bands 9—nission limits in
Test Limit:	Above 960	500	3 potek pri
An	216-960	200 **	3 bores Ano
Wotek Wupo	88-216	150 **	AM3
anbotek Anbo.	1.705-30.0	30 100 **	30
Anbore Ans	0.490-1.705	24000/F(kHz)	30
botek botek	0.009-0.490	2400/F(kHz)	300 Mpo,
k Anbotek A	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Test Requirement:	restricted bands, as def	(d), In addition, radiated emission ined in § 15.205(a), must also con specified in § 15.209(a)(see § 15	nply with the

10.1. EUT Operation

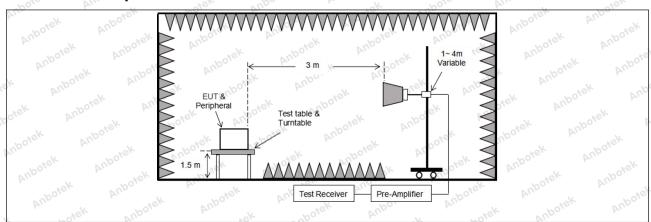
	Operating Envir	onment:	Aupo.	-boiek	Anbore.	And	npotek	Aupo
22	Test mode:	1: TX-GFSK (Nopping) with (2: TX-π/4-DQF (non-hopping)	GFSK mod PSK (Non-l	ulation. Hopping): Kee	p the EUT ir	iek upoter	And	.e.K





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10.2. Test Setup



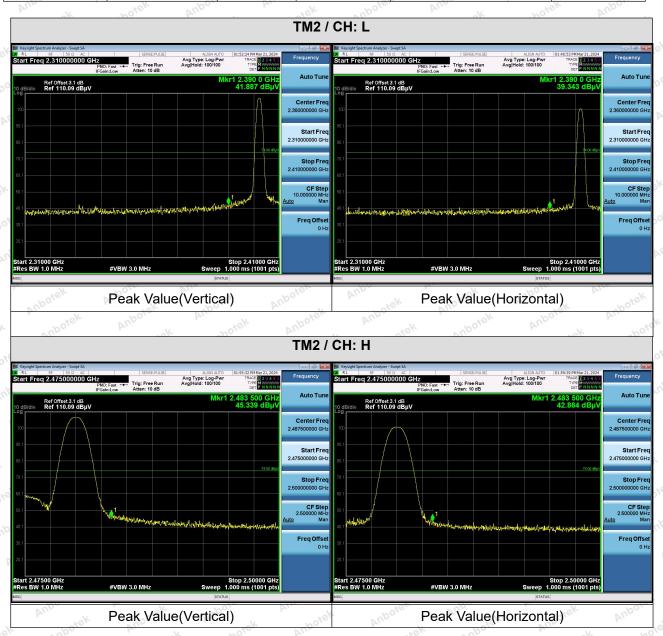




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10.3. Test Data

Temperature: 24.3 ° C Humidity: 49 % Atmospheric Pressure: 101 kPa



Remark

- 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:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also compecified in § 15.209(a)(see § 15.2	ly with the
otek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
otek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
hotek Anbotek	1.705-30.0	30° kek nbo	30
Vupotek Vupotek	30-88 88-216	100 ** 150 **	3
Anbotek Anbote	216-960 Above 960	200 ** 500	3 sek
Test Limit: Anbotek Anbotek	intentional radiators operatifrequency 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	ragraph (g), fundamental emissing under this section shall not bz, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt§ 15.231 and 15.241. In the tighter limit applies at the bin the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9—sion limits in
Test Method:	ANSI C63.10-2020 section	6.6.4 And	SK Wipole
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore	otek Anboten

11.1. EUT Operation

Operating Envi	ronment:	AUD	bojek		b.,	itek anb		Up.
Test mode:	1: TX-GFSK (Nopping) with (2: TX-π/4-DQF (non-hopping)	GFSK mod PSK (Non-l	ulation. lopping): Kee	p the EUT	otek or	nbote. P	'Up	

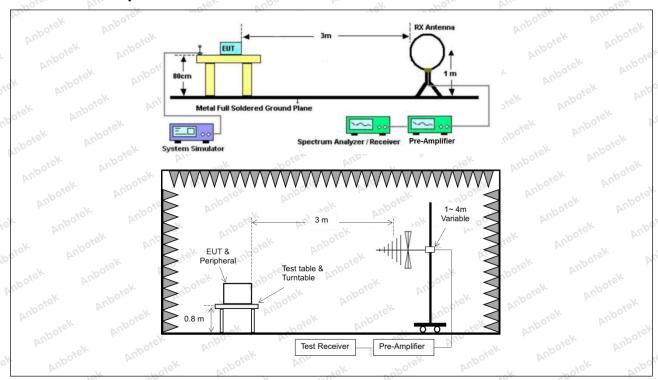






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11.2. Test Setup





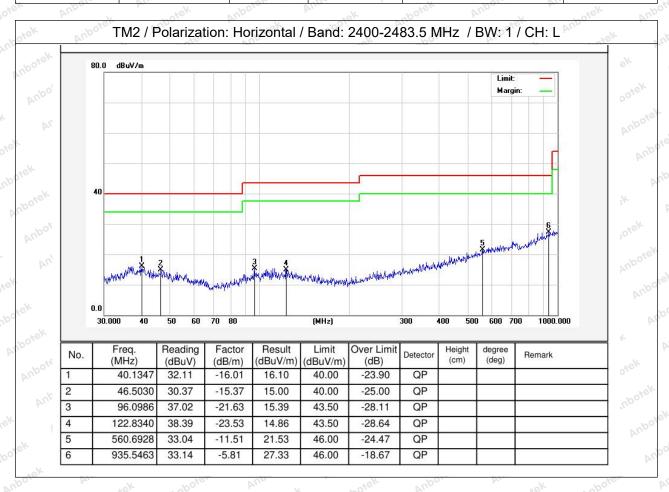


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11.3. Test Data

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

Tempe	rature:	23.5 ° C	DUR	Humidity:	55%	Atmos	spheric Pre	ssure:	101 kPa
1 Cilipo	iatalo.	20.0		i iditiidity.	00 70	7 (11100	opinonio i no	ccarc.	pero i iti a i

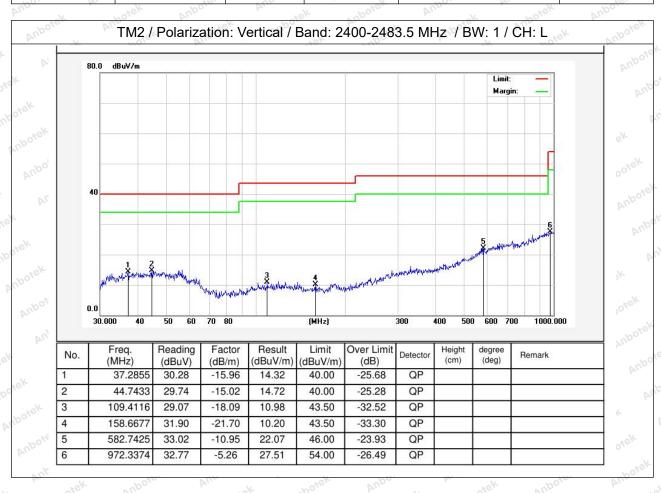






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Temperature: 23.5 ° C Humidity: 55 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.









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12. Emissions in frequency bands (above 1GHz)

Aupotek A	in § 15.209(a)(see § 15 Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance
	Aug Potek	Anbor Ar otek anborer	(meters)
	0.009-0.490	2400/F(kHz)	iek 300 Mpore
poter And	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30 And
Anbo.	30-88	100 **	3,ek nbore
	88-216	150 **	A103
	216-960	200 **	3 botes Ant
	Above 960	500 horse Anbou	3
	frequency bands 54-72 However, operation with sections of this part, e.g. In the emission table at The emission limits should be a section of the section of	erating under this section shall not MHz, 76-88 MHz, 174-216 MHz of hin these frequency bands is perming., §§ 15.231 and 15.241. Bove, the tighter limit applies at the own in the above table are based casi-peak detector except for the free	or 470-806 MHz. nitted under other e band edges. on measurements
	90 kHz, 110–490 kHz a these three bands are l	and above 1000 MHz. Radiated en based on measurements employin	nission limits in
Anbotek Anh	90 kHz, 110–490 kHz a these three bands are be detector.	and above 1000 MHz. Radiated em based on measurements employin	nission limits in
Test Method:	90 kHz, 110–490 kHz a these three bands are l	and above 1000 MHz. Radiated en based on measurements employin tion 6.6.4	nission limits in

12.1. EUT Operation

Operati	ng Environment	ier Aupo	botek	Anbore	All.	Anboten	AUPE
Test mo	hoppin 2: TX-1	GFSK (Non-Hopp ng) with GFSK mo π/4-DQPSK (Non- opping) with π/4 [dulation. -Hopping): Keep	the EUT ir	iek vupoje.	Anti	. el

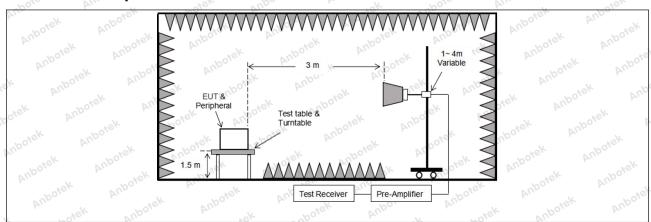






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12.2. Test Setup







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12.3. Test Data

Temperature: 24.3 ° C	Humidity: 49 %	Atmospheric Pressure:	101 kPa
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	POL VILLE		TMO / CUL.	¥**	-k ⁰ 7	bu.
			TM2 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.77	15.27	44.04	74.00	-29.96	Vertical
7206.00	29.66	18.09	47.75	74.00	-26.25	Vertical
9608.00	31.04	23.76	54.80	74.00	-19.20	Vertical
12010.00	Aupoter* A	, e ^k	abotek Anb	74.00	otek Anbote	Vertical
14412.00	"Upo*sk	Anbo, ok	hojek b	74.00	iek ont	Vertical
4804.00	29.01	15.27	44.28	74.00	-29.72	Horizontal
7206.00	30.43	18.09	48.52	74.00	-25.48	Horizontal
9608.00	28.92	23.76	52.68	74.00	-21.32	Horizontal
12010.00	otek * Wpo.	- V	iek Vupoje,	74.00	hotek	Horizontal
14412.00	hotek*	Ooter Amb	sek spo	74.00	L bore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.15	15.27	33.42	54.00	-20.58	Vertical
7206.00	18.69	18.09	36.78	54.00	-17.22	Vertical
9608.00	20.06	23.76	43.82	54.00	-10.18	Vertical
12010.00	- O1/8/-	Aupolei Au	, e/-	54.00	by by	Vertical
14412.00	And *ek	abotek	Aupo, K	54.00	ipole And	Vertical
4804.00	17.36	15.27	32.63	54.00	-21.37	Horizontal
7206.00	19.49	18.09	37.58	54.00	-16.42	Horizontal
9608.00	18.23	23.76	41.99	54.00	-12.01	Horizontal
12010.00	***	otek Wupos	K 1-04	54.00	Vup.	Horizontal
14412.00	4 ×	stek ont	ofer Ande	54.00	ek Aupos	Horizontal



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				hotek	Anbor	rek
		•	ГМ2 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	28.79	15.42	44.21	74.00	-29.79	Vertical
7323.00	29.51	18.02	47.53	74.00	-26.47	Vertical
9764.00	30.05	23.80	53.85	74.00	-20.15	Vertical
12205.00	ek * nbotek	Anbo.	hotek	74.00	And	Vertical
14646.00	* * *	tek Aupote	Pur Vie	74.00	Vupo.	Vertical
4882.00	28.71	15.42	44.13	74.00	-29.87	Horizontal
7323.00	30.42	18.02	48.44	74.00	-25.56	Horizontal
9764.00	28.62	23.80	52.42	74.00	-21.58	Horizontal
12205.00	* otek	Anbore	And	74.00	Yupo.	Horizontal
14646.00	P.T.	nbotek	Aupo.	74.00	Anboid	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.88	15.42	33.30	54.00	-20.70	Vertical
7323.00	18.79	18.02	36.81	54.00	-17.19	Vertical
9764.00	19.92	23.80	43.72	54.00	-10.28	Vertical
12205.00	k *upote	N Diek	anboter	54.00	aboiek	Vertical
14646.00	otek * Anboti	And	sk spojek	54.00	ki. Potek	Vertical
4882.00	17.27	15.42 nbo	32.69	54.00	-21.31	Horizontal
7323.00	19.05	18.02 An	37.07	54.00	-16.93	Horizontal
9764.00	18.74	23.80	42.54	54.00	11.46 M	Horizontal
12205.00	Anb*o*en	Anb rek	botek	54.00	-otek D	Horizontal
14646.00	* botek	Anbo	D. C. C.	54.00	And	Horizontal



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YUD.	, stek	"Upo,	Dr.	hoter	AUD	riek
		7	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	29.06	15.58	44.64	74.00	-29.36	Vertical
7440.00	29.52	17.93	47.45	74.00	-26.55	Vertical
9920.00	30.60	23.83	54.43	74.00	-19.57	Vertical
12400.00	* otek	Aupotes	Anb	74.00	Anborr	Vertical
14880.00	* And	iek upotel	, Vupo,	74.00	Anbore.	Vertical
4960.00	28.78	15.58	44.36	74.00	-29.64	Horizontal
7440.00	30.45	17.93	48.38	74.00	-25.62	Horizontal
9920.00	29.30	23.83	53.13	74.00	-20.87	Horizontal
12400.00	VUD *	abotek	Aupo, b	74.00	Anbore, An	Horizontal
14880.00	V.Apo,	hotek	Anborek	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	19.00	15.58	34.58	54.00	-19.42	Vertical
7440.00	19.80	17.93	37.73	54.00	300te-16.27 Ant	Vertical
9920.00	20.47	23.83	44.30	54.00	-9.70	Vertical
12400.00	* Sporek	Aupo,	hotek	54.00	Aug	Vertical
14880.00	* * *	k Aupole	And	54.00	Vupo,	Vertical
4960.00	18.71	15.58	34.29	54.00	-19.71	Horizontal
7440.00	20.42	17.93	otel 38.35 price	54.00	-15.65	Horizontal
9920.00	18.64	23.83	42.47	54.00 And	±11.53	Horizontal
12400.00	* toke	Anbores	Ann	54.00	100. br.	Horizontal
14880.00	An*	abotek	Aupo	54.00	Anbore	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 -----

