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# **FCC Test Report**

**DONGGUAN TOGRAN ELECTRONICS Applicant** 

TECHNOLOGY CO.,LTD.

No. 110, Shidan Mid Rd, Shijie Town, Dongguan Address

City, China

**WIRELESS MOUSE Product Name** 

: May 27, 2024 **Report Date** 



ce Laboratory Limited









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## TEST REPORT

Applicant : DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

Manufacturer : DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

Product Name : WIRELESS MOUSE

Test Model No. : TM233G

Reference Model No. : ST62601, ST62637

Trade Mark : Staples, TOGRAN

Rating(s) : Input: 1.5V by "AA" battery

Test Standard(s) 47 CFR Part 15.247 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.	abore Ar		Apr. 20,	2024	abore
Date of Test:		Anboten A'A	pr. 26, 2024 to	May 10, 2024	
	otek Anbotek	anbotek Anbotek	Ella	Larg	
Prepared By:	upor Air.	atek anbotek	Vup.		Aupore Ar
			(Ella Li		
		Anbotek Anb	Id war	d pan	
Approved & Authorized	d Signer:	Yur ok	potek P	'upo, k.	otek Anbot
			(Edward	d Pan)	







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## **Revision History**

Report Version	Description	Issued Date
Anbore R00 potek An	Original Issue.	May 27, 2024
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ore Ambotek Anbotek	Anbotek Anbotek Anbot	rek Anbotek Anbotek





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#### 1. General Information

#### 1.1. Client Information

Applicant	:	DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.
Address	:	No. 110, Shidan Mid Rd, Shijie Town, Dongguan City, China
Manufacturer	:	DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.
Address	:	No. 110, Shidan Mid Rd, Shijie Town, Dongguan City, China
Factory	:	DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.
Address	:	No. 110, Shidan Mid Rd, Shijie Town, Dongguan City, China

## 1.2. Description of Device (EUT)

Product Name	:	WIRELESS MOUSE
Test Model No.	:	TM233G
Reference Model No.	:	ST62601, ST62637 (Note: All samples are the same except the model number, so we prepare "TM233G" for test only.)
Trade Mark	:	Staples, TOGRAN
Test Power Supply	:	DC 1.5V battery
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A tek upotek Aupoter Aupotek Aupotek Aupotek Aupotek
RF Specification		
Operation Frequency	:	2403~2479MHz
Number of Channel	:	16 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK Anborek Anborek Anborek Anborek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-0.2dBi
Disa a alexy	2	Vus

#### 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 N	
Anbotek / Anboten	And Anbotek	Aupo, Ar. Spotek	Anbores / Anb

#### 1.4. Operation channel list

#### Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Anboten	2403	anb 5°k	2407	9 tok	2414	13 tek	2426
A/2016H	2422	600 tek	2436	10	2419	14	2445
3 upoter	2441	r 7 <sub>Anboie</sub>	2459	11	2439	15	2473 note
iek 4 Anbo	2463	otek 8 Anb	2466	12	2453 M	16	2479

## 1.5. Description of Test Modes

Pretest Modes	Descriptions		
TM1 Keep the EUT in continuously transmitting mode (non-hoppin			
TM2	Keep the EUT in continuously transmitting mode (hopping).		

#### 1.6. 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
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

Test Items	Test Modes	Status
Antenna requirement	Anbotek / Anboten	And Potek
Conducted Emission at AC power line	Anborek / Anbore	N Not
Occupied Bandwidth	Mode1	P PART
Maximum Conducted Output Power	Mode1	P. P.
Channel Separation	Mode2	hoo. Pk
Number of Hopping Frequencies	Mode2	And P ofek
Dwell Time	Mode2	P
Emissions in non-restricted frequency bands	Mode1,2	P <sup>Ant</sup>
Band edge emissions (Radiated)	Mode1	P An
Emissions in frequency bands (below 1GHz)	Mode1	hoose P
Emissions in frequency bands (above 1GHz)	Mode1	Anbore Park
Note: P: Pass N: N/A pot applicable	Anbotek Anbotek	Aupote,

N: N/A, not applicable





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#### 1.8. Description of Test Facility

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

#### FCC-Registration No.:434132

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

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

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

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

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

#### 1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 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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#### 1.10. 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
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
30t	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Alootek	Auport Losek
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

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
4	1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	ootek N/A	2023-10-16	2024-10-15
	2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
	41130tel	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
	4.nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
	5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
X E	6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



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ote.	And	stek rupo.	N. Ok	pote.	AUS	iek
	edge emissions (Ra sions in frequency ba		Auporg	Anbotek	Aupotek	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	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
nbote 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	Aupolok
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
*e*7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Emiss	sions in frequency ba	ands (below 1GHz)				
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
4ntel	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, Noot	y Aupon	k Anbotek



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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 -0.2dBi. It complies with the standard requirement.





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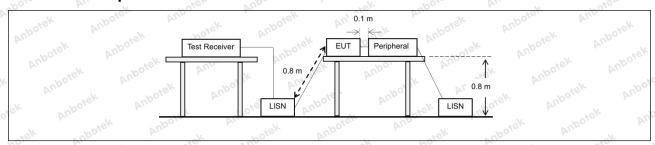
#### 3. Conducted Emission at AC power line

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 f	nnected to the at is conducted es, within the following table, as
shotek Anbore	Frequency of emission (MHz)	Conducted limit (dBµV)	Pil.
Ans sek społek	Anbore Anbore	Quasi-peak	Average
Anbore Arr.	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 tek nbote Am	56 Borel An	46
Ant both	5-30 And State of Sta	60	50 reh
k Wupoug Wu.	*Decreases with the logarithm of t	he frequency.	pr. Potek Aug
Test Method:	ANSI C63.10-2020 section 6.2	Projek Auporen	Ans
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un		

### 3.1. EUT Operation

Operating Env	ironment:	Aupo.	borek	Aupole,	And	rek	upotek	Vupo.
Test mode:	1: TX (No	n-Hopping): I	Keep the EUT	in continuou	sly trans	mitting	mode (non-	Aupo
-6K -00%	hopping).							

#### 3.2. Test Setup



#### 3.3. Test Data

Not applicable for equipment operated with DC power supply.



Hotline

400-003-0500 www.anbotek.com.cn



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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 Anbotek Anbotek Anbotek 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
	<ul> <li>1.5 times and 5.0 times the OBW.</li> <li>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.</li> </ul>
	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.
Procedure:	d) Step a) through step c) might require iteration to adjust within the 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).

## 4.1. EUT Operation

	Operating Envir	onment:						k anborek
10	Test mode:	190	Hopping): K	(eep the EUT	in continuou	usly transmit	ting mode (no	on-
L	Yar	hopping).	b.	~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S. VUD		do You	O. D.



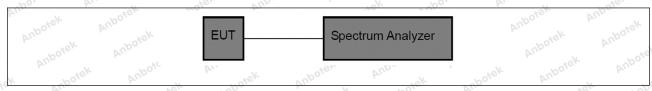






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#### 4.2. Test Setup



#### 4.3. Test Data

10	Tomporaturo	25.5 °C	Humidita	47 %	Atmospheric Pressure:	101 kPa
	Temperature:	25.5 6	Humidity:	47 70	Aunosphenc Flessure.	101 kPa

Please Refer to Appendix for Details.





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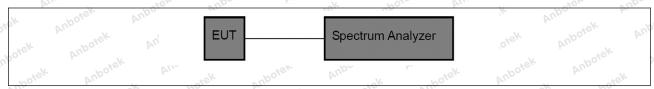
## 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: ek Anborek Anborek Anborek 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	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:
	<ul> <li>a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.</li> <li>b) RBW &gt; 20 dB bandwidth of the emission being measured.</li> <li>c) VBW ≥ RBW.</li> </ul>
Procedure:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold.
Anbotek Anbote	g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission.
ootek Anbotek A	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 bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

## 5.1. EUT Operation

Operating Envi	ronment:	Vu. Polsk	Anbotek	Anbo	abořek	Anbore
Test mode:	1: TX (Non-Hopping).	ping): Keep th	e EUT in cor	ntinuously tra	nsmitting mode	e (non-

#### 5.2. Test Setup



#### 5.3. Test Data

Temperature:	25.5 °C	Humidity: 47 %	Atmospheric Pressure:	101 kPa
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Please refer to Appendix C of the Appendix Test Data.









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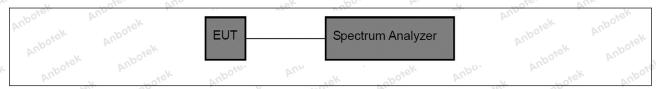
## 6. Channel Separation

india in its	1 700, W. A. 2046, W.D. 1 36K 700,
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

-	Operating Envir	ronment:	Aupoien	Augo	nbotek	Aupore	bur	Aupote
516	Test mode:	2: TX (Hoppi	ng): Keep th	ne EUT in con	tinuously tran	smitting mode	e (hopping).	Anbe

#### 6.2. Test Setup



#### 6.3. Test Data

Temperature: 2	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa	
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Please Refer to Appendix for Details.







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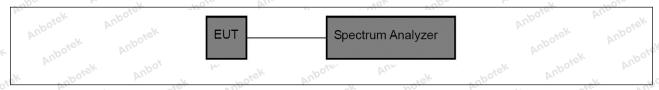
## 7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:  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 7.8.3
Anborek	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

Operating Environment:	ek bojek	Aupole	Aug	Anbotek	Aupo, ak	b.,
Test mode: 2: TX (H	opping): Keep the	EUT in conti	nuously transn	nitting mode	(hopping).	Υ Vi

#### 7.2. Test Setup



#### 7.3. Test Data

	Temperature:	25.5 °C	rek	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







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## 8. Dwell Time

Aupoli All	botek Anbo A. Jotek Anbote And Jotek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4
	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.
potek Anbotek Anbotek 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 dwell time with the minimum number of channels.
	Use the following spectrum analyzer settings to determine the dwell time per hop:
	<ul> <li>a) Span: Zero span, centered on a hopping channel.</li> <li>b) RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected transmission time per hop.</li> <li>c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period =</li> </ul>
	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.
k Anbotek Anbo	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.

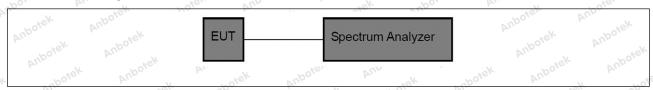
#### 8.1. EUT Operation

**Operating Environment:** 

Test mode:

2: TX (Hopping): Keep the EUT in continuously transmitting mode (hopping).

#### 8.2. Test Setup



#### 8.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
70, Di.	_xC\*	- 0V		70, Dy.	_x0.

Please Refer to Appendix for Details.





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## 9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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
Anbotek Anbotek  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.
	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.
	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 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









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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

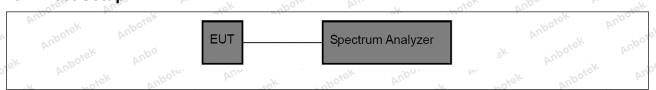
Operating Environment:

Test mode:

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

2: TX (Hopping): Keep the EUT in continuously transmitting mode (hopping).

#### 9.2. Test Setup



#### 9.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa	
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Please Refer to Appendix for Details.





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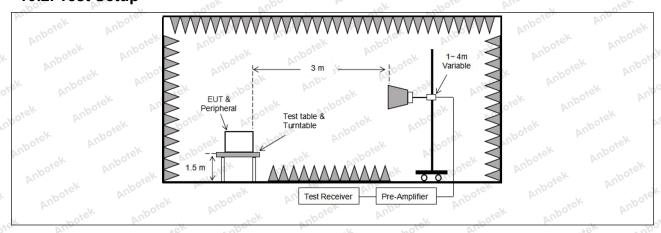
## 10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also compecified in § 15.209(a)(see § 15.2	ly with the
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
ok spotek	0.009-0.490	2400/F(kHz)	300
inpose Aug	0.490-1.705	24000/F(kHz)	30
hotek Anbo.	1.705-30.0	30	30
Ant sk shotek	30-88	100 **	3,ek Anbore
Anbort All	88-216	150 **	3
soiek Anbor	216-960	200 **	3
Test Limit:	Above 960	500 ragraph (g), fundamental emissi	MOSE. MU
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek 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	ng 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. ed under other and edges. measurements uency bands 9–sion limits in
Test Method:	ANSI C63.10-2020 section	6.10° Anbores Anbores	3k Aupotek
Procedure:	ANSI C63.10-2020 section	6.10.5.2	otek Anbotek

## 10.1. EUT Operation

Operating Envir	onment:	Auporo	Aris botek	Anbores	Anbo	otek.	Anbotek	Aupo,
Test mode:	1: TX (Non-ling).	Hopping): K	eep the EUT	in continuou	sly transm	nitting m	ode (non-	An

#### 10.2. Test Setup





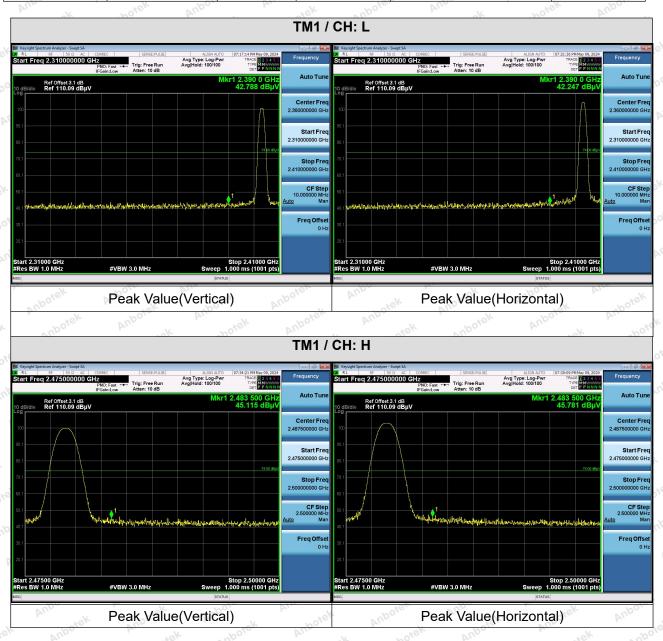




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#### 10.3. Test Data

Temperature: 25.5 °C Humidity: 47 % Atmospheric Pressure: 101 kPa



#### Remark

1. 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

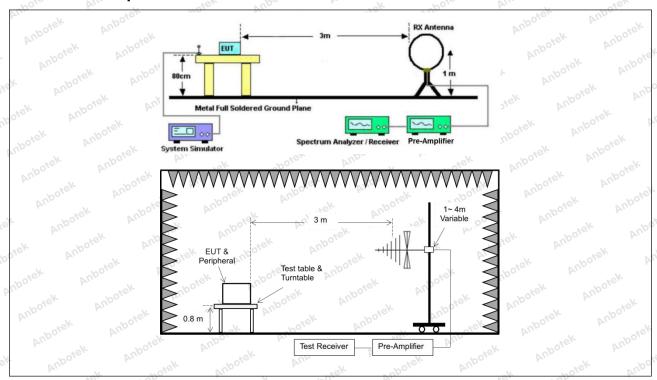
Operating Envir	onment:					Anbotek	Anbo
Test mode:	1: TX (Non-l	Hopping): Kee	p the EUT in	continuously	/ transmitting r	node (non-	An
rest mode.	hopping).	k bojek	Aupo,	₩.	ek aboter	And	.V.





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#### 11.2. Test Setup





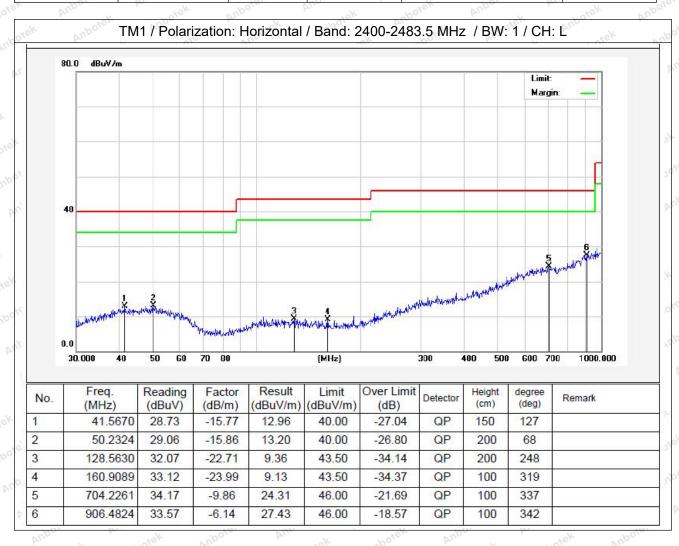


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#### 11.3. Test Data

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

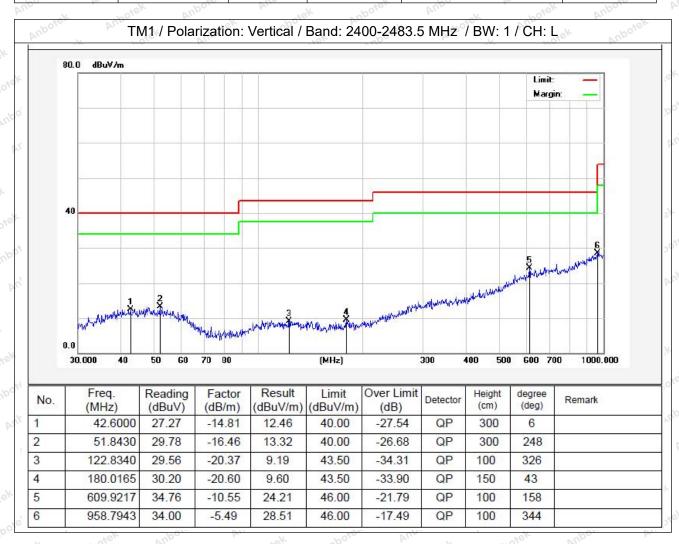
Temperature:	20.3 °C	Humidity	: 46 %	Atmospheric Pressure:	101 kPa
	-1.00				Q





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







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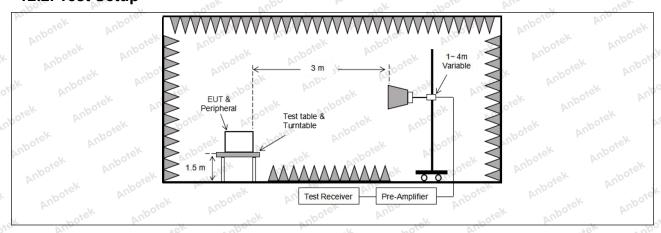
## 12. Emissions in frequency bands (above 1GHz)

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 bwn 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	nission limits in

## 12.1. EUT Operation

Operating Envir	onment:	Aupo.	h. bojek	Anbois.	And	upotek	Aupo
Test mode:	707	Hopping): Ke	ep the EUT in	continuousl	y transmitting r	mode (non-	PU,
ek abor	hopping).	-k hote	VUD.		ek about	D1.	-V

#### 12.2. Test Setup









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#### 12.3. Test Data

Temperature: 25.5 °C	Humidity: 47 %	Atmospheric Pressure:	101 kPa
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·	Po. Bi.		TM4 / CH. I	•	- h <sub>0</sub> ,	
			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4806.00	32.27	15.27	47.54	74.00	-26.46	Vertical
7209.00	33.27	18.09	51.36	74.00	-22.64	Vertical
9612.00	35.24	23.76	59.00	74.00	-15.00	Vertical
12015.00	Aupoter* A	, e <sup>k</sup>	abotek Anb	74.00	otek Auport	Vertical
14418.00	*Upo*sk	Anbo.	hotek b	74.00	siek onk	Vertical
4806.00	32.57	15.27	47.84	74.00	-26.16	Horizontal
7209.00	33.07	18.09	51.16	74.00	-22.84	Horizontal
9612.00	30.97	23.76	54.73	74.00	-19.27	Horizontal
12015.00	otek * Aupo	-k 20	ick Aupole,	74.00	- nboiek	Horizontal
14418.00	woick* An	DOJE. VILL	rek abo	74.00	ck hore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4806.00	21.65	15.27	36.92	54.00	-17.08	Vertical
7209.00	22.30	18.09	40.39	54.00	-13.61	Vertical
9612.00	24.26	23.76	48.02	54.00	-5.98	Vertical
12015.00	- O1/8/-	Aupolei Au	iek .	54.00	Pro-	Vertical
14418.00	And *ek	abotek	Aupo, K	54.00	potes And	Vertical
4806.00	20.92	15.27	36.19	54.00	-17.81	Horizontal
7209.00	22.13	18.09	40.22	54.00	-13.78	Horizontal
9612.00	20.28	23.76	44.04	54.00	-9.96	Horizontal
12015.00	*** *	olek Wupos	-K 204	54.00	VUR.	Horizontal
14418.00	4 ×	sorek Ant	ote. And	54.00	ek Aupo,	Horizontal



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ek Anboie	Ann	anbotek	Aupo	hotek	Anbore A	'As alek
		٦	ГМ1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	32.29	15.42	47.71	74.00	-26.29	Vertical
7323.00	33.12	18.02	51.14	74.00	-22.86	Vertical
9764.00	34.25	23.80	58.05	74.00	-15.95	Vertical
12205.00	ek * nbotek	Aupo,	hotek	74.00	Aug	Vertical
14646.00	* * *	ick Aupole	Pur Vie	74.00	Aupo	Vertical
4882.00	32.27	15.42	47.69	74.00	-26.31	Horizontal
7323.00	33.06	18.02	51.08	74.00	-22.92	Horizontal
9764.00	30.67	23.80	54.47	74.00	-19.53	Horizontal
12205.00	*otek	Anboie	And	74.00	YUPO, CK	Horizontal
14646.00	P.T.	Anbotek	Anbo	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	21.38	15.42	36.80	54.00	-17.20	Vertical
7323.00	22.40	18.02	40.42	54.00	-13.58	Vertical
9764.00	24.12	23.80	47.92	54.00	-6.08	Vertical
12205.00	k *upor	N Diek	anboter	54.00	abotek	Vertical
14646.00	otek * Anbot	And	ek Spojek	54.00	Pr. Potek	Vertical
4882.00	20.83	15.42	36.25	54.00	-17.75	Horizontal
7323.00	21.69	18.02	39.71	54.00	-14.29	Horizontal
9764.00	20.79	23.80	44.59	54.00	100 - 9.41 And	Horizontal
12205.00	anb*o*ek	Aupo 'Ck	abotek	54.00	otek r	Horizontal
14646.00	* ~ ~ ~ ek	Aupor	A. rek	54.00	AUD	Horizontal







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		aport			AUD	
		1	ГМ1 / СН: Н			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4958.00	32.56	15.58	48.14	74.00	-25.86	Vertical
7437.00	33.13	17.93	51.06	74.00	-22.94	Vertical
9916.00	34.80	23.83	58.63	74.00	-15.37	Vertical
12395.00	* otek	Auporen	Anb	74.00	Aupor	Vertical
14874.00	* And	ek abotel	, Vupo,	74.00	Anbore.	Vertical
4958.00	32.34	15.58	47.92	74.00	-26.08	Horizontal
7437.00	33.09	17.93	51.02	74.00	-22.98	Horizontal
9916.00	31.35	23.83	55.18	74.00	-18.82	Horizontal
12395.00	Vup.*	abotek	Vupo,	74.00	Iupose, Vu	Horizontal
14874.00	Vipo,	hoiek	Aupoten	74.00	abotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4958.00	22.50	15.58	38.08	54.00	-15.92	Vertical
7437.00	23.41	17.93	41.34	54.00	-12.66	Vertical
9916.00	24.67	23.83	48.50	54.00	-5.50	Vertical V
12395.00	k * "potek	Aupo,	hotek	54.00	And	Vertical
14874.00	* * *	k Aupolo	And	54.00	Vupo.	Vertical
4958.00	22.27	15.58 NO	37.85	54.00	-16.15	Horizontal
7437.00	23.06	17.93	40.99	54.00	-13.01	Horizontal
9916.00	20.69	23.83	44.52	54.00 Ann	9.48	Horizontal
12395.00	* toke	Anbores	Ann	54.00	Ipo. br.	Horizontal
14874.00	An*	abotek	Aupo	54.00	Anbole	Horizontal

#### Remark:

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

