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FCC Test Report

Applicant : INTRA BRANDS LIMITED

Address : 3806 CENTRAL PLAZA, 18 HARBOUR ROAD,

WANCHAI, HK, HONGKONG, China

Product Name : 2.4G WIRELESS KEYBOARD MOUSE COMBO-

Mouse

Report Date : Apr. 10, 2024

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited









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TEST REPORT

INTRA BRANDS LIMITED Applicant

INTRA BRANDS LIMITED Manufacturer

Product Name 2.4G WIRELESS KEYBOARD MOUSE COMBO-Mouse

2607124 Test Model No.

Reference Model No. 2607126

Trade Mark N/A

Rating(s) Input: DC 1.5V AA*1 battery

47 CFR Part 15.247

Test Standard(s) ANSI C63.10-2020

KDB 558074 D01 15.247 Meas Guidance v05r02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:	Jan. 23, 2024
	And Anbotek Anbotek
Date of Test: Jan. 2	23, 2024 to Apr. 10, 2024
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Approved & Authorized Signer:	upor All ek boter Ant
	(Edward Pan)



Shenzhen Anbotek Compliance Laboratory Limited



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Revision History

	Report Version	Description	Issued Date		
	Anborte R00 potek An	Original Issue.	Apr. 10, 2024		
37	Anbotek Anbotek	Anbotek Anbotek Anbotek	K abotek Anbotek Ant		
10	or Alpotek Anbotek	Anbotek Anbotek Anbot	otek Anbotek Anbotes		





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1. General Information

1.1. Client Information

211.		The state of the s
Applicant	:	INTRA BRANDS LIMITED
Address	:	3806 CENTRAL PLAZA, 18 HARBOUR ROAD, WANCHAI, HK, HONGKONG, China
Manufacturer	:	INTRA BRANDS LIMITED
Address	:	3806 CENTRAL PLAZA, 18 HARBOUR ROAD, WANCHAI, HK, HONGKONG, China
Factory	:	Hitech Industrial Co., Ltd
Address	:	No. 601. Floor 6, Building 15, Fourth Industrial Zone, Yulv Guangming New District, Shenzhen, China

1.2. Description of Device (EUT)

411		
Product Name	:	2.4G WIRELESS KEYBOARD MOUSE COMBO-Mouse
Test Model No.	:	2607124 And
Reference Model No.	:	2607126 (Note: All samples are the same except the model number and appearance color, so we prepare "2607124" for test only.)
Trade Mark	:	N/A Anbore Anborek Anborek Anborek Anb
Test Power Supply	:	DC 1.5V battery
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/Aorek Anborek Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	2402-2480MHz
Number of Channel	:	of 16 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK Anborek Anborek Anborek Anborek
Antenna Type		PCB Antenna
Antenna Gain(Peak)		2.48dBi Anborek Anborek Anborek Anborek

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.	
	Anbotek / Anbote	Anbotek Anbotek	Anbor Ar nbotek	Anbores And More	

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1 otek	2402	Amb 5 rek	2418	Ango	2448	13	2468
2 botel	2404	6	2428	10	2450	14 nbore	2470
8 3 bc	2410	7 ^{Anb}	2432	11 Anbo	2454	rek 15 Anbi	2476
- 4	2412	8 And	2440	otek 12 An	2464	botel 16 N	2480

1.5. Description of Test Modes

X	Pretest Modes	Descriptions
,	Anbote TM1 Anbote	Keep the EUT in continuously transmitting mode (non-hopping).
,C	TM2 Anbores	Keep the EUT in continuously transmitting mode.





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1.6. Measurement Uncertainty

Parameter	Uncertainty		
Occupied Bandwidth	925Hz		
Conducted Output Power	0.76dB		
Conducted Spurious Emission	1.24dBAND TEK NIBOTEK ANDORS		
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB		
Radiated emissions (Below 30MHz)	3.53dB		
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB		

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

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

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Ant workey Anborek	Bupo,
Conducted Emission at AC power line	And Molek Ande	ick N And
Occupied Bandwidth	Mode1	bosek B b
Maximum Conducted Output Power	Mode1	Anborer L
Channel Separation	Mode1,2	ANP
Number of Hopping Frequencies	Mode1,2	Bipoye
Dwell Time	Mode1,2	ek P Wupe
Emissions in non-restricted frequency bands	Mode1,2	potek P A
Band edge emissions (Radiated)	Mode1	Anbotek P
Emissions in frequency bands (below 1GHz)	Mode1	Ant Preh
Emissions in frequency bands (above 1GHz)	Mode1	No of St.
Note: Anborek Anborek Anborek Anborek	Anbotek Anbot	ak Anbo

N: N/A, Not applicable for battery device.





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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

- 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

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
nbotek 1 Anbot	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
2 _A n	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

	edge emissions (Ra sions in frequency ba		Anborek Ar	Potek Vu	potek Wu	potek Anbot
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
Anbai	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupotek Vul	abotek / Anb
**5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
100 P	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24





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Emis	sions in frequency ba	ands (below 1GHz)	Anborok	Vupo.	Anboiek.	Vupoter, V
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	Pre-amplifier	SONOMA	ootek 310N And	186860	2023-10-12	2024-10-11
8	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
104°K	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
A500*	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/A	ek Anbo	Aryotek





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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 **2.48dBi**. It complies with the standard requirement.





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3. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02
tek Anbotek Anb	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.
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.
oter Anbotek	f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. 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
stek Anbotek Anbo	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.
nbotek Anbotek	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).







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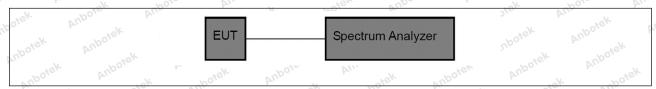
3.1. EUT Operation

Operating Environment:

Test mode:

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

3.2. Test Setup



3.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
1 F	100	,	-0"	(O /	P/1,

Please Refer to Appendix for Details.





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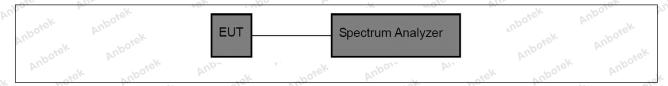
4. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: 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 KDB 558074 D01 15.247 Meas Guidance v05r02
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:
hotek Anbotek	a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
Anbotek Anbotek	 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.
potek Anbotek	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 bandwidth of the unlicensed wireless device, rather than a spectrum
	analyzer.

4.1. EUT Operation

Operating Env	rironment:	Anboiek	VUP	*ek	nboiek	Aupor	ak P	hotek	Anboten
Test mode:	1: TX (No hopping).	n-Hopping): Keep t	he EUT	in continuo	ously tran	smitting	mode (non-	Anbote

4.2. Test Setup









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4.3. Test Data

V	de a a a a a a a a a a a a a a a a a a a		640 01 50	A. All.	4041100	
Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	∣ 101 kPa	Y0.

Please Refer to Appendix for Details.





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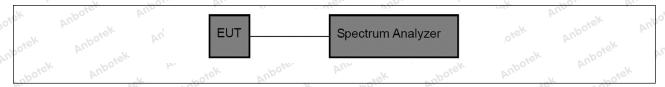
5. Channel Separation

What was a second of the secon	~0,	<i>D</i> 1.	_x0*	a Op	No	~0,
Test Requirement:	47 CFR 15.2	247(a)(1)	Anbo.	h. abotek	Anbore	Ann
Test Limit:	hopping cha the 20 dB ba Alternatively band may h 25 kHz or tw	nnel carrier f andwidth of th grequency h ave hopping o-thirds of th greater, prov	a)(1), Frequer requencies se hopping cheoping syster channel carrie e 20 dB band vided the syst	eparated by a annel, which ms operating er frequencies width of the h	minimum of a ever is greate in the 2400-2 s that are sepa nopping chann	25 kHz or r. 483.5 MHz arated by nel,
Test Method:		0-2020, secti 4 D01 15.247	on 7.8.2 Meas Guidar	nce v05r02	. Anbotek	Anbore Anbore
ek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	spectrum ar a) Span: Wi b) RBW: Sta spacing; adj channel. c) Video (or	nalyzer setting de enough to art with the RI ust as neces average) bar	capture the p BW set to app sary to best id ndwidth (VBW	peaks of two a proximately 30 lentify the cer () ≥ RBW.	adjacent chan 0% of the cha	nels. nnel
Procedure:	e) Detector f) Trace: Ma	function: Pea	ofe, And	o) time.		
Anbotek Anbotek Anbotek Anbotek Anbotek	peaks of the regulatory li	adjacent cha	ction to deterr annels. Comp etermined. A s t.	liance of an E	EUT with the a	appropriate

5.1. EUT Operation

Operating Envi	ronment:	, potek	Anbore	Pur Polek	Anborek	Aupo	rek
Test mode:	1: TX (Non-Hop hopping).	ping): Keep t	the EUT in c	ontinuously t	transmitting m	ode (non-	oo, ootek
abotek A	2: TX (Hopping)): Keep the E	UT in contin	uously trans	mitting mode.		Votek Plin

5.2. Test Setup



5.3. Test Data

Temperature: 25.3 °C	Humidity: 48 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.









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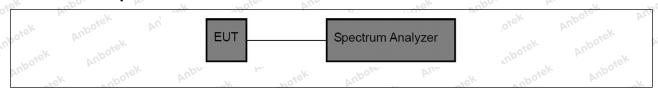
6. Number of Hopping Frequencies

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 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbote	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
hotek Anbotek Ant	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.
Procedure:	d) Sweep: No faster than coupled (auto) time.
	e) Detector function: Peak. f) Trace: Max-hold.
	g) Allow the trace to stabilize.
Anbotek Anbotek	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.

6.1. EUT Operation

Operating Envi	ronment:	Anbo	apotek	Aupor	Pu., Polek	Anboten
Test mode:	1: TX (Non-Hopp hopping). 2: TX (Hopping):	ak Anbotek		ek noo	rek Anbore	(non-Anbotek

6.2. Test Setup









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6.3. Test Data

V	de a a a a a a a a a a a a a a a a a a a		640 01 50	A. All.	4041100	
Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	∣ 101 kPa	Y0.

Please Refer to Appendix for Details.





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7. Dwell Time

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 KDB 558074 D01 15.247 Meas Guidance v05r02
	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of
	the last transmission.
	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Anborek Anborek Procedure: Anborek Anborek Anborek	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.
	Anboten Anbotek Anbotek Anbotek Anbotek
	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.
Anbotek Anbotek	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.









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- e) Detector function: Peak.
- f) Trace: Clear-write, single sweep.
- g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

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

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

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

7.1. EUT Operation

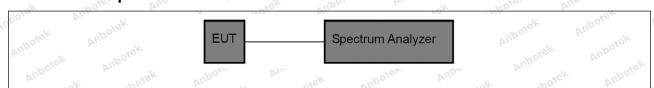
Operating Environment:

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.

7.2. Test Setup



7.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	
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Please Refer to Appendix for Details.







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8. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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 KDB 558074 D01 15.247 Meas Guidance v05r02
	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.
Procedure: botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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)







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below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

7.8.7.2 Band-edges

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

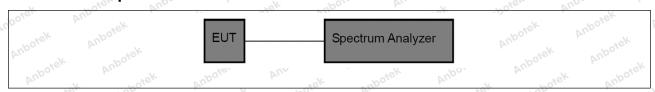
For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

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

8.1. EUT Operation

Operating En	vironment:	Anboren	Vury Polsk	Anbotek	Aupo, "ek	photek
Test mode:	1: TX (Non-Hopping hopping).	g): Keep the	EUT in continu	uously transn	nitting mode (n	on- Anbotek
Aupo,	2: TX (Hopping): Ke	eep the EUT	in continuousl	y transmitting	g mode.	tek anbot

8.2. Test Setup



8.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	

Please Refer to Appendix for Details.







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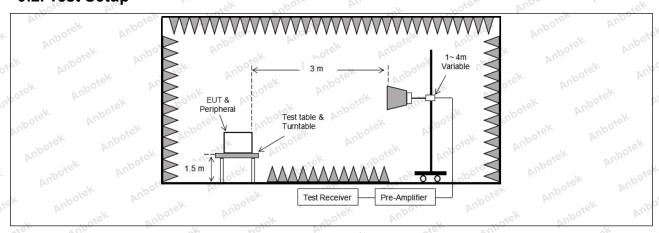
9. Band edge emissions (Radiated)

Refer to 47 CFR 15.247(d), In addition, radiated emissions which frestricted bands, as defined in § 15.205(a), must also comply with radiated emission limits specified in § 15.209(a)(see § 15.205(c)). Frequency (MHz)	rement
radiated emission limits specified in § 15.209(a)(see § 15.205(c)).` Frequency (MHz) Field strength (microvolts/meter) 0.009-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 1.705-30.0 30-88 100 ** 38-216 150 ** 216-960 200 ** Above 960 500 3 Test Limit: ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under the section of the content of the	ırement
(microvolts/meter) distant (meter) 0.009-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 1.705-30.0 30 30 30-88 100 ** 3 88-216 150 ** 3 216-960 200 ** 3 Test Limit: ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under the section of the	V
0.490-1.705 24000/F(kHz) 30 1.705-30.0 30 30 30-88 100 ** 3 88-216 150 ** 3 216-960 200 ** 3 Above 960 500 3 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under the company of the company	T
1.705-30.0 30 30 30-88 100 ** 3 88-216 150 ** 3 216-960 200 ** 3 Above 960 500 3 Test Limit: ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under the section of the s	boto
30-88 100 ** 3 88-216 150 ** 3 216-960 200 ** 3 Above 960 500 3 Test Limit: ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under the section of the sec	- atek
88-216 150 ** 3 216-960 200 ** 3 Above 960 500 3 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under the section of the	AUD
216-960 200 ** 3 Above 960 500 3 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under the section of the	anbore
Above 960 500 3 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under the section of the sec	- 6
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under the section of the section shall not be located frequency bands of the section within these frequency bands is permitted under the section shall not be located frequency bands in paragraph (g), fundamental emissions from the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency be section shall not be located frequency bands of the section shall not be located from	AUD
intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under this section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency bands of the section shall not be located frequency be located frequency bands of the section shall not be located frequency be located frequency by the section shall not be located	ek .
In the emission table above, the tighter limit applies at the band ed The emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency to 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits above 1000 MHz.	er other ges. ements
these three bands are based on measurements employing an aver detector.	
Test Method: ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	its in
Procedure: ANSI C63.10-2020 section 6.10.5.2	its in

9.1. EUT Operation

Operating Envi	ronment:	Aupolo	Anshotek	Anboiek	Anbourek	abotek	An
Test mode:	1: TX (Non-Ho	pping): Keep	the EUT in co	ntinuously tr	ansmitting mo	ode (non-	
'd' //	hopping).	, atel	r Vupo,	by.	ok boye	AUD	

9.2. Test Setup





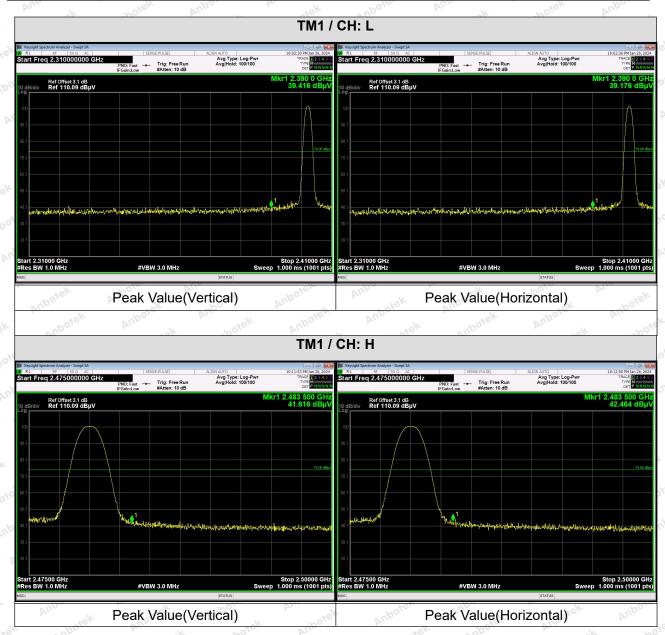




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9.3. Test Data

Temperature: 25.3 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note: 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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10. Emissions in frequency bands (below 1GHz)

" Upo K		10h	
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	oly with the
k Aupotek Aupot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
shortek Anbo	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3,ek apore
	88-216	150 **	3
	216-960	200 **	3 boten Anti
	Above 960	500 And	3
	frequency bands 54-72 MH However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-part of the emission that shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employing a CISPR quasi-part of the emission limits shown employed the emission limits and emission limits shown employed the emission limits shown emission e	ing under this section shall not be z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitting 15.231 and 15.241. The tighter limit applies at the being the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	470-806 MHz. ted under other oand edges. measurements uency bands 9– ssion limits in
poier And	detector.	Tek Jpoler And	r rotek
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		otek Anbotek
Procedure:	ANSI C63.10-2020 section	6.6.4 Anborek Anbore	otek Anbote

10.1. EUT Operation

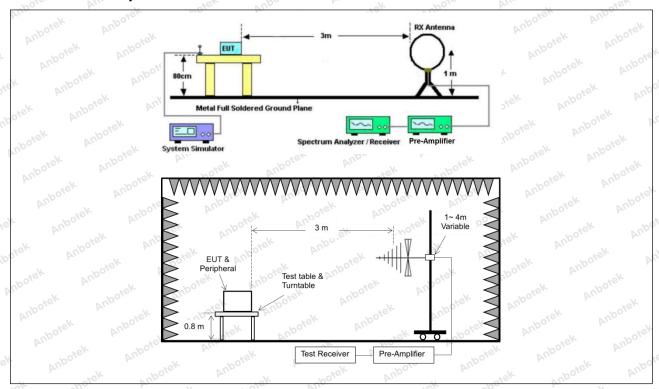
,01	Operating Envir	onment:	Anboro	Votek Pur	Anboten	Anbo	r upotek	Ano
70	Test mode:	1: TX (Non-Ho	pping): Keep	the EUT in co	ontinuously t	ransmitting	mode (non-	۲





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10.2. Test Setup





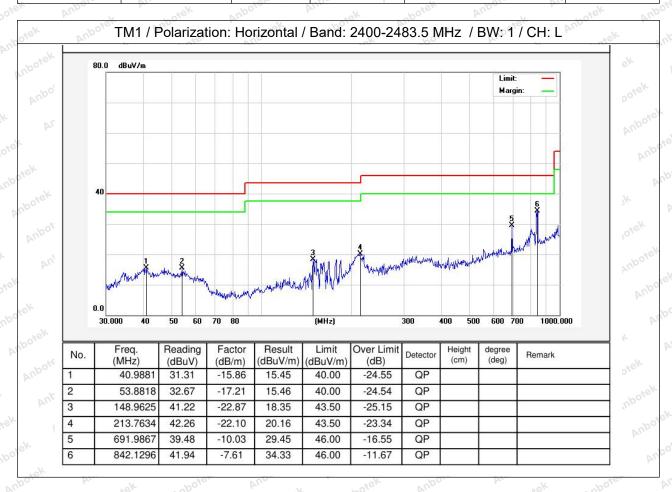


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10.3. Test Data

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:	25.3 °C	Humidity:	48 %	Atmos	spheric Pres	sure:	101 kPa

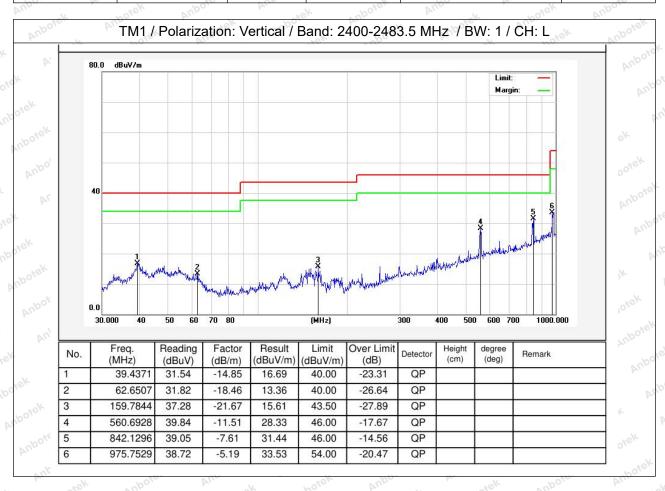






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Temperature: 25.3 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.









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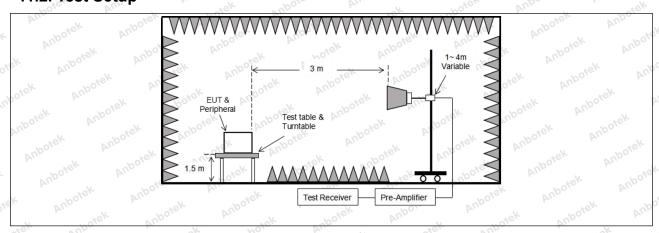
11. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted be comply with the radiated emission 5(c)).	
tek Vupotek Vupo,	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 mbore
aborek Ande	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3,ek noore
	88-216	150 **	3
	216-960	200 **	3 botes And
	Above 960	500 Anbo	3
	frequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-190 kHz, 110–490 kHz and a	ing under this section shall not be 2, 76-88 MHz, 174-216 MHz or these frequency bands is permit § 15.231 and 15.241. The tighter limit applies at the bein the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	470-806 MHz. ted under other oand edges. measurements uency bands 9—ssion limits in
pole. And	PUD.	- Nak Nupole, Aug	sk posek
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		otek Anbotek
Procedure:	ANSI C63.10-2020 section	And K Poles Au	.0

11.1. EUT Operation

Operating Envir	onment:	Aupord	Votek Pur	Anboien	Anbe	-tek	abořek	PU
Test mode:	1: TX (Non-Ho	pping): Keep	the EUT in co	ontinuously t	transmittii	ng mode	(non-	

11.2. Test Setup









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11.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	
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	HOTE AME		This could		r hoze	VL.		
TM1 / CH: L								
Peak value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4804.00	27.30	15.27	42.57	74.00	-31.43	Vertical		
7206.00	28.53	18.09	46.62	74.00	-27.38	Vertical		
9608.00	29.32	23.76	53.08	74.00	-20.92	Vertical		
12010.00	Aupole * Al	49:	abotek Anb	74.00	otek Anbote	Vertical		
14412.00	*Upo*sk	Anbo	hotek b	74.00	iek onk	Vertical		
4804.00	27.71	15.27	42.98	74.00	-31.02	Horizontal		
7206.00	28.45	18.09	46.54	74.00	-27.46	Horizontal		
9608.00	28.36	23.76	52.12	74.00	-21.88	Horizontal		
12010.00	otek * Vupo	-V	ick Vupote	74.00	, nbotek	Horizontal		
14412.00	woick* An	boye Vun	sek spo	74.00	K hore	Horizontal		
Average value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization		
4804.00	16.68	15.27	31.95	54.00	-22.05	Vertical		
7206.00	17.56	18.09	35.65	54.00	-18.35	Vertical		
9608.00	18.34	23.76	42.10	54.00	-11.90	Vertical		
12010.00	1010×	Aupoter Au	, ek	54.00	V In C	Vertical		
14412.00	And *ek	abotek	Aupo, K	54.00	ipole And	Vertical		
4804.00	16.06	15.27	31.33	54.00	-22.67	Horizontal		
7206.00	17.51	18.09	35.60	54.00	-18.40	Horizontal		
9608.00	17.67 100te	23.76	41.43	54.00	-12.57	Horizontal		
12010.00	*** *	otek Aupor	- K 1-04	54.00	Aug. *ek	Horizontal		
14412.00	4 ×	ingtek ant	ofer And	54.00	ek Aupor	Horizontal		



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Yupo,	pi.	nboter	Anti	hotek	Aupo, A	, tek
			ГМ1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	27.32	15.42	42.74	74.00	-31.26	Vertical
7320.00	28.38	18.02	46.40	74.00	-27.60	Vertical
9760.00	28.33	23.80	52.13	74.00	-21.87	Vertical
12200.00	ek * spojek	Vupo.	k. hotek	74.00	And	Vertical
14640.00	* *	ick Aupote	bur ofe	74.00	Aupon	Vertical
4880.00	27.41	15.42	42.83	74.00	-31,17	Horizontal
7320.00	28.44	18.02	46.46	74.00	-27.54	Horizontal
9760.00	28.06	23.80	51.86	74.00	-22.14	Horizontal
12200.00	* otek	Anbore	And	74.00	YUPO, OK	Horizontal
14640.00	AT STEK	Anbotek	Aupo, ak	74.00	Aupore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	16.41	15.42	31.83	54.00	-22.17	Vertical
7320.00	17.66	18.02	35.68	54.00	-18.32 Ann	Vertical
9760.00	18.20	23.80	42.00	54.00	-12.00	Vertical
12200.00	k Pupote	Dur Diek	upotek	54.00	boiek	Vertical
14640.00	otek * Anbot	Ando	ek spojek	54.00	pi, otek	Vertical
4880.00	15.97	15.42 nbox	31.39	54.00	-22.61	Horizontal
7320.00	17.07	18.02	35.09	54.00	-18.91	Horizontal
9760.00	18.18	23.80	41.98	54.00	12.02 And	Horizontal
12200.00	Aupotek	Anbo	abotek	54.00	Lotek D	Horizontal
14640.00	* botek	Pupo.	W. Olek	54.00	Vun CK	Horizontal





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en Aug	riek	vupo,	VII.	-hotel	AUD	riek
		٦	ГМ1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	27.59	15.58	43.17	74.00	-30.83	Vertical
7440.00	28.39	17.93	46.32	74.00	-27.68	Vertical
9920.00	28.88	23.83	52.71	74.00	-21.29	Vertical
12400.00	* P*	anbore.	Anti-	74.00	Anbo.	Vertical
14880.00	* Vup	iek upołek	Anbo	74.00	Anbore.	Vertical
4960.00	27.48	15.58	43.06	74.00	-30.94	Horizontal
7440.00	28.47	17.93	46.40	74.00	-27.60	Horizontal
9920.00	28.74	23.83	52.57	74.00	-21.43	Horizontal
12400.00	AUD * "SK	abotek	Aupo, k	74.00	Anbores An	Horizontal
14880.00	V.Apo,	Notek Notek	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	17.53	15.58	33.11	54.00	-20.89	Vertical
7440.00	18.67	17.93	36.60	54.00	17.40	Vertical
9920.00	18.75	23.83	42.58	54.00	-11.42	Vertical
12400.00	k * spojek	Aupor	hotek	54.00	Aug	Vertical
14880.00	* * %01	sk Aupotor	Arra	54.00	Aupo	Vertical
4960.00	17.41	15.58	32.99	54.00	-21.01	Horizontal
7440.00	18.44	17.93	36.37 M	54.00	-17.63	Horizontal
9920.00	18.08	23.83	41.91	54.00	-12.09	Horizontal
12400.00	* tek	Anbores	Vur Jek	54.00	po, by	Horizontal
14880.00	An*	anbotek	Aupo	54.00	Anboie A	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.







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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 -----

