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Report No.:1812C40040312501 FCC ID: 2AGLG-M955COM2USRX

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FCC Test Report

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Applicant

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DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

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Address

No. 110, Shidan Mid Rd, Shijie Town, Dongguan city, China

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Product Name : Dongle

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Report Date : Sept. 18, 2024

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Shenzhen Anbotek Compliance Laboratory Limited

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Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China Tel:(86)0755-26066440 Email: service@anbotek.com







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Shenzhen Anbotek Compliance Laboratory Limited

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Report No.:1812C40040312501 FCC ID: 2AGLG-M955COM2USRX

TEST REPORT

Applicant

DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO., LTD. DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO., LTD.

Manufacturer

Product Name

Dongle

Dongle

N/A

Trade Mark

Rating(s)

Model No.

Input: 5V-20mA

Test Standard(s)

47 CFR Part 15.247 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:

Aug. 20, 2024

Date of Test:

Prepared By:

Aug. 20, 2024 to Sept. 06, 2024

Nian xiu Chen

(Nianxiu Chen)

Idward pan

(Edward Pan)

Approved & Authorized Signer:



Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Email: service@anbotek.com







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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)

1.2. Description o	f D	Device (EUT) Andorek Andorek Andorek Andorek Andorek Andorek
Product Name	:	Donglehotek Anborek Anborek Anborek Anborek Anborek Anb
Model No.	:	Dongle Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	N/A Anborek Anbor k Anborek Anborek Anborek
Test Power Supply	:	DC 5V via PC from adapter input AC 120V/60Hz; DC 5V via PC
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/AAnti Lotek Anbolek Anbolek Anbolek Anbole Anti-
RF Specification		Þ.,
Operation Frequency	:	2405-2475MHz
Number of Channel	:	96 vek nbotek Anbote Ant botek Anbotek Anbotek
Modulation Type	:	GFSK tek holek Anbole And bolek Anbolek Anbolek
Antenna Type	:	PCB Antenna Andre
Antenna Gain(Peak)	:	-2.5dBinnbot h nbotek Anbote And hotek Anbotek
Remark:		otek Anbor An otek Anbore An tek aborek

(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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Report No.:1812C40040312501 FCC ID: 2AGLG-M955COM2USRX

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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Acer Computer	acer ^{botek} acer	N19W3 Note	2020AJ3862
Apple Computer(New, dual Type-C)	Anboltek Apple Anbolt	A1708 Andote	2016AJ5746
Acer Computer Adapter	Lite-On Technology Corporation	PA-1650-58	KP06503020

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1,ek	2405	Anb 5 tek	2422	9A ^{nbor}	2441	rek 13 pr	2463 AM
And 2 tok	2408	6 ^{.nbc}	2426 NO	e ^k 10 Ant	2445	, vote 14	2466
3	ek 2414 Anbol	^{2k} 7 A ^{nb}	2436	1100 ^{10K} 11	2453	15	2471
4 Anu	2419	potek 8	2439	12 [°]	2459	Att 16 tek	2475
	Channel 1 2 3 4	I 2405 2 2408 3 2414	I 2405 5 2 2408 6 3 2414 7	Channel (MHz) Channel (MHz) 1 2405 5 2422 2 2408 6 2426 3 2414 7 2436	Channel (MHz) Channel (MHz) Channel 1 2405 5 2422 9 2 2408 6 2426 10 3 2414 7 2436 11	Channel (MHz) Channel (MHz) Channel (MHz) 1 2405 5 2422 9 2441 2 2408 6 2426 10 2445 3 2414 7 2436 11 2453	Channel (MHz) Channel Channel <thchannel< th=""> <thchannel< th=""> <thchan< td=""></thchan<></thchannel<></thchannel<>

1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbo etek TM1 nhotek	Keep the EUT in continuously transmitting mode (non-hopping).
Anbo TM2 Anbotek	Keep the EUT in continuously transmitting mode (hopping).

1.6. Measurement Uncertainty

ek abor A. K bole.	Ant stek unb
Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Ander Ander Ander Ander An
Occupied Bandwidth	925Hz Andrek Andre Stek Indolek
Conducted Output Power	0.76dB Andreak Andreak
Conducted Spurious Emission	1.24dB Anbolek Anbolek Anbolek
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
Dwell Time over Annone Anno Anno	2% ^{ee} Ann hotek Anbotek Anbo
The measurement uncertainty and decision risk eva	aluated according to AB/WI-RF-F-032.

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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Anbotek Noto 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbote Antotek	Anbote
Conducted Emission at AC power line	Mode1	e ^k P _A n ^b
Occupied Bandwidth	Mode1	botek P
Maximum Conducted Output Power	Mode1	ebold P
Channel Separation	Mode2	All Pitek
Number of Hopping Frequencies	Mode2	P
Dwell Time Anbolek Anbolek Anbolek Anbolek	Mode2	P
Emissions in non-restricted frequency bands	Mode1,2	P
Band edge emissions (Radiated)	Mode1	NOOL P
Emissions in frequency bands (below 1GHz)	Mode1	Anboten P
Emissions in frequency bands (above 1GHz)	Mode1 Mode1	AP OLO

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Report No.:1812C40040312501 FCC ID: 2AGLG-M955COM2USRX

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

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Product Safety

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

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- 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.
 - 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.

Shenzhen Anbotek Compliance Laboratory Limited

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Anbotel 1.10. Test Equipment List

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	C power line	npoter	And	K hotek	Anbor
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
Software Name EZ-EMC	Farad Technology	ANB-03A	N/Aotok	Ayboro	Amanbotek
EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11
	L.I.S.N. Artificial Mains Network Three Phase V- type Artificial Power Network Software Name EZ-EMC	L.I.S.N. Artificial Mains Network Three Phase V- type Artificial Power Network Software Name EZ-EMC Farad Technology	L.I.S.N. Artificial Mains NetworkRohde & SchwarzENV216Three Phase V- type Artificial Power NetworkCYBERTEKEM5040DTSoftware Name EZ-EMCFarad TechnologyANB-03A	L.I.S.N. Artificial Mains NetworkRohde & SchwarzENV216100055Three Phase V- type Artificial Power NetworkCYBERTEKEM5040DTE215040D T001Software Name EZ-EMCFarad TechnologyANB-03AN/A	L.I.S.N. Artificial Mains NetworkRohde & SchwarzENV2161000552024-01-18Three Phase V- type Artificial Power NetworkCYBERTEKEM5040DTE215040D T0012024-01-17Software Name EZ-EMCFarad TechnologyANB-03AN/A/

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Occupied Bandwidth Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

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Emissions in non-restricted frequency bands

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Angotek	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	po ^{tek} N/A P	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
у З	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5.00	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6 Ant	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03
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	edge emissions (Ra sions in frequency ba		Anbolek	Anbore	Am	Anboten
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Da
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-2
10010 2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-1
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-1
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A N/A	Allootek	Anbor
o ^{te} '5	Horn Antenna	A-INFO nbotek	LB-180400- KF	J21106062 8	2023-10-12	2024-10-1
Anb6rek	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	ote102150	2024-05-06	2025-05-0
Xupc	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-0

Emissions in	frequency	bands	(below	1GHz)
N0 - 10	1 2	No.	`	

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ltem	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 N	186860	2024-01-17	2025-01-16
3 ^{4,00}	Bilog Broadband Antenna	Schwarzbeck	VULB9163	Anto 345	2022-10-23	2025-10-22
4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A ^{botett}	N/A	ptek Anbote	K / Anbo

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p0.	r vek	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to	
	tek Anbort	ensure that no antenna other than that furnished by the responsible party	ex-
VUD.	Test Requirement:	shall be used with the device. The use of a permanently attached antenna or	
	aboten And	of an antenna that uses a unique coupling to the intentional radiator shall be	boter
	tek anboten	considered sufficient to comply with the provisions of this section.	
	.60. F	AV AV AV	

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2.1. Conclusion

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The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is -2.5dBi . It complies with the standard requirement AUp0 Anbote

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3. Conducted Emission at AC power line

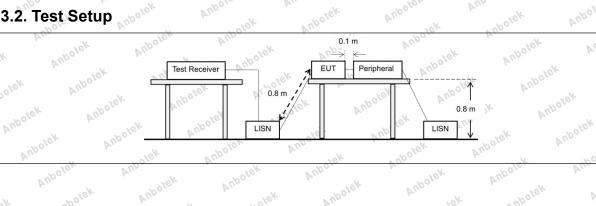
tek Anboltek	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted					
Test Requirement:	back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	y frequency or frequencie exceed the limits in the f	es, within the ollowing table, as			
Aun	Frequency of emission (MHz)	Conducted limit (dBµV)	ek nboter			
. Anbore An	lek aboten And	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5	56 hole A	46			
ek poter	5-30 Lotek And	60	50 010			
Anbore An hotek	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2	botek Anboto	Am			
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli					
3.1. EUT Operation	Anbotek Anboten Ano	k Aupotek Aup.	otek Anbotek			

3.1. EUT Operation

Operating Environment:

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

3.2. Test Setup



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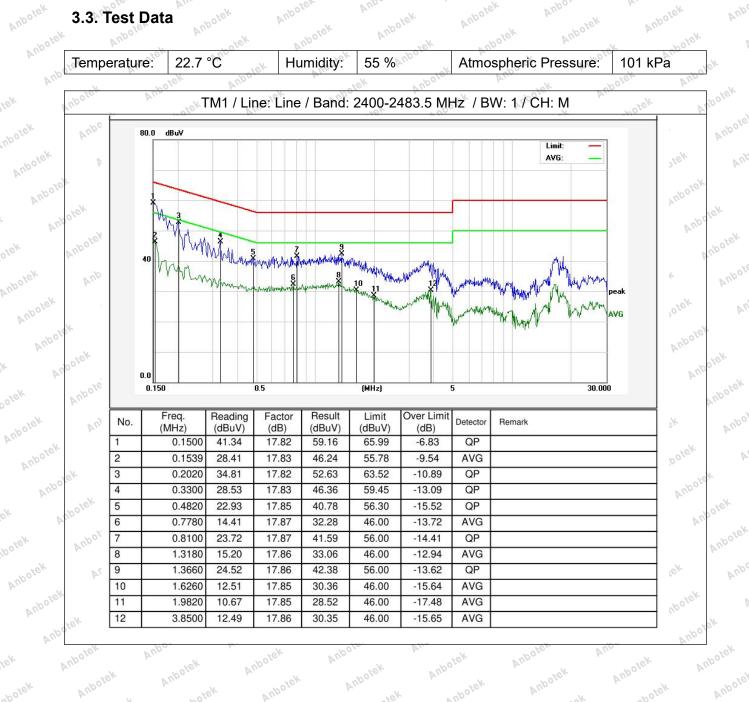
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3.3. Test Data



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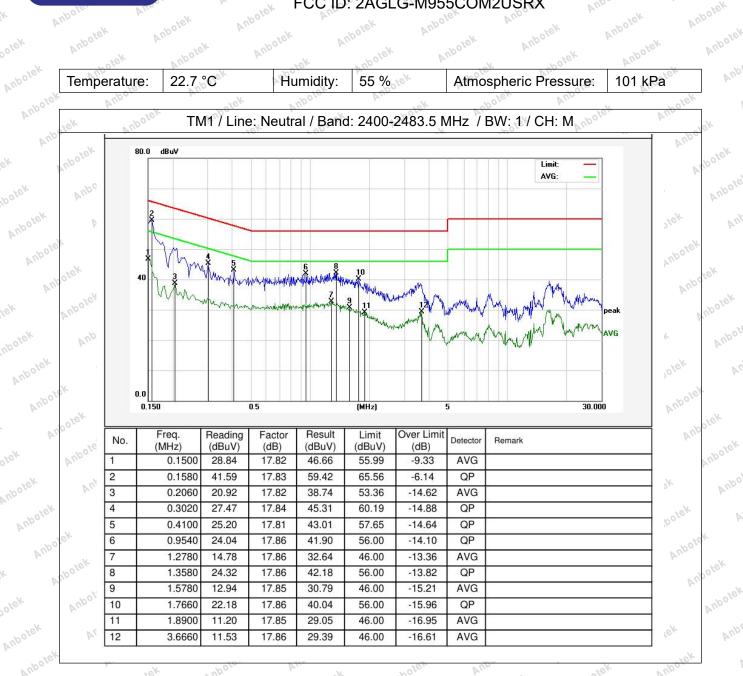
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Only the worst case is recorded in the report.

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Anbotek 4. Occupied Bandwidth

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Test Requirement:	47 CFR 15.247(a)(1)
Sk Augo	Refer to 47 CFR 15.215(c), intentional radiators operating under the
stek Anbote.	alternative provisions to the general emission limits, as contained in §§
bo. h stek	15.217 through 15.257 and in subpart E of this part, must be designed to
Test Limit:	ensure that the 20 dB bandwidth of the emission, or whatever bandwidth
An-	may otherwise be specified in the specific rule section under which the
Anbore An.	equipment operates, is contained within the frequency band designated in
-otek At	the rule section under which the equipment is operated.
And	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements,
Test Method:	use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
h. tek	KDB 558074 D01 15.247 Meas Guidance v05r02
boten Aup	The occupied bandwidth is the frequency bandwidth such that, below its
tek nboten	lower and above its upper frequency limits, the mean powers are each equal
Anbor A.	to 0.5% of the total mean power of the given emission. The following
hotek Anbo	procedure shall be used for measuring 99% power bandwidth:
And	a) The instrument center frequency is set to the nominal EUT channel center
Anboten A	frequency. The frequency span for the spectrum analyzer shall be between
P. stek	1.5 times and 5.0 times the OBW.
otek Anbo	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to
k hotek	5% of the OBW, and VBW shall be at least three times the RBW, unless
nboter And	otherwise specified by the applicable requirement.
A. atek anbote.	c) Set the reference level of the instrument as required, keeping the signal
Anbo	from exceeding the maximum input mixer level for linear operation. In
botek Anb	general, the peak of the spectral envelope shall be more than [10 log
And	(OBW/RBW)] below the reference level. Specific guidance is given in
K Anbole	4.1.6.2.
- Lek	d) Step a) through step c) might require iteration to adjust within the
Procedure:	specified range.
lek nooten	e) Video averaging is not permitted. Where practical, a sample detection and
Anbors An.	single sweep mode shall be used. Otherwise, peak detection and max-hold
otek Anbor	mode (until the trace stabilizes) shall be used.
Anv	f) Use the 99% power bandwidth function of the instrument (if available) and
Anboter An	report the measured bandwidth.
P	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.
anbo.	The recovered amplitude data points, beginning at the lowest frequency, are
K hotek	placed in a running sum until 0.5% of the total is reached; that frequency is
poter And	recorded as the lower frequency. The process is repeated until 99.5% of the
tek hoten	total is reached; that frequency is recorded as the upper frequency. The 99%
Anbo. A.	power bandwidth is the difference between these two frequencies.
hotek Anbo	h) The occupied bandwidth shall be reported by providing spectral plot(s) of
Anv	the measuring instrument display; the plot axes and the scale units per
Anboten Ar	division shall be clearly labeled. Tabular data may be reported in addition to
h.	the plot(s).

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Anbotek 4.1. EUT Operation

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4.1. EUT Operation	Anbotek	Anborotek	Anbotek	Anbote	Anbotek
Operating Environment:	Aupor	A botek	Anboren	Ann	K Anbotek
Test mode: 1: TX (Non-H hopping).	opping): Keep	the EUT in con	tinuously trans	smitting mode	(non-
4.2. Test Setup	botek And	abotek Ar	botek An	potek Am	Anbotek

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4.2. Test Setup

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EUT	Spectrum An	alyzer
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4.3. Test Data

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4.3. Test Dat	arek	Anbotek Anbote	arek An	Anbotek	Anbolek	Anbor	Anbotek
Temperature:	24.6 °C	Humidity:	49 %	Atm	ospheric Press	sure: 101 kP	a Anboten
Please Refer to	o Appendi>	r for Details.	Anbor	Anbotel	K Anbore	An-	ek Anbol

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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
tek 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
Anbotek Anbot Anbotek Anbot	 settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW.
Procedure:	d) Sweep: No faster than coupled (auto) time.e) Detector function: Peak.f) Trace: Max-hold.
Anbotek Anbotek	 a) frace. Max-hold. b) Allow trace to stabilize. b) Use the marker-to-peak function to set the marker to the peak of the emission.
Anbotek Anbo	i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
Anboten A	j) A spectral plot of the test results and setup description shall be included in the test report.
otek Anb	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
Anbu tek nbotek	analyzer.
5.1. EUT Operation	Nek Anboren Ann Anborek Anborek Anborek Anborek Anborek

5.1. EUT Operation

Operating Envi	ronment:	Ann	nbotek	Anbo	w.	Ant
Test mode:	1: TX (Non-Hop hopping).	oping): Keep the E	EUT in contin	uously transr	nitting mode (no	on-

5.2. Test Setup

ŀ	Ant	Anbotek E	:UT	Spectrum Anal	yzer	nbotek botek	Anboten A'
otel	5.3. Test Data	Anbote.	Anbotek	Anbotek	Anbr	Anbotek	Anbotek Anbotek

Temperature: 24.6 °C Humidity: 49 % Atmospheric Pressure: 101 kPa Anbo

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Anbotek 6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: 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 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	 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
Procedure:	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.
Anbotek Anbo Anbotek Anbo ek Anbotek A	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 En	vironment:	Anboten	And	1ek	Anbotek	Anbo	n Nak	abotek
Test mode:	2: TX (Ho	pping): Keep	the EUT in	n continuo	usly tran	smitting m	ode (hopp	ping).
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ooter hotek	And	otek	EUT	Spectr	um Analyzer	Ano	botek	Ant
6.3	Test Da	Anbolek ta Anbolek	Anbotek p	Anbotek	A. Anbotek	Anbotek	Anboten	Ve ^k
Jem	perature:	24.6 °C	Humidity:	49 %	Atmospher	ric Pressure:	101 kPa	20-

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7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400- 2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	 The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
Procedure: http://www.andorest	 c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
ek Anbolek An Inpolek Anbolek	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 Envi	Lesk.	nbotek	Aupo	hotek	Anbore	All
Test mode:	2: TX (Hoppir	ng): Keep the EU	T in continuo	usly transmitti	ng mode (hop	ping)
7.2. Test Set	up Anbotek	Anbe abotek	Anbotek	Anbor	k Anbotek	Anboten
Anbotek Anb	hotek	EUT	Spectrum	Analyzer	And	stek Anbo
Anboten	And anbotek	And	botek	Anbor	A	Anbotek
7.3. Test Dat	a Anbotek	Anbore	Annotek	Anbotex	Anbotek	Anbotek
Temperature:	24.6 °C	Humidity:	49 % hotek	Atmospher	ic Pressure:	101 kPa

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Please Refer to Appendix for Details. Anbc

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8. Dwell Time

Report No.:1812C40040312501 FCC ID: 2AGLG-M955COM2USRX

Test Requirement: 47 CFR 15.247(a)(1)(iii) Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a Test Limit: 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. ANSI C63.10-2020, section 7.8.4 Test Method: 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. 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 Procedure: for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels. Use the following spectrum analyzer settings to determine the dwell time per hop: a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this. d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at

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Report No.:1812C40040312501 FCC ID: 2AGLG-M955COM2USRX

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Anbote

the end of the last transmission. The dwell time per hop is the time between these two markers.

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

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

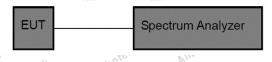
The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

8.1. EUT Operation

Operating Environment:

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

8.2. Test Setup



8.3. Test Data

p.	10.	VUN	10×	~~~~	E	10 V	
Temperature:	24.6 °C	Humidity:	49 %	Atmosphe	eric Pressure:	101 kPa	
		D	10.5	. QV		K	_

Please Refer to Appendix for Details.

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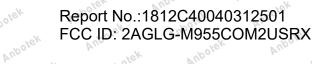
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Anbotek 9. Emissions in non-restricted frequency bands

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Product Safety

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Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Aupor p	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency
V botek	band in which the spread spectrum or digitally modulated intentional radiator
boten And	
the shotek	is operating, the radio frequency power that is produced by the intentional
aboten And	radiator shall be at least 20 dB below that in the 100 kHz bandwidth within
An abote	the band that contains the highest level of the desired power, based on
Test Limit:	either an RF conducted or a radiated measurement, provided the transmitter
	demonstrates compliance with the peak conducted power limits. If the
Aupore Ar.	transmitter complies with the conducted power limits based on the use of
m tek	RMS averaging over a time interval, as permitted under paragraph (b)(3) of
tek Anbo	this section, the attenuation required under this paragraph shall be 30 dB
in the start	instead of 20 dB. Attenuation below the general limits specified in §
boten Anbo	
nr notek	15.209(a) is not required.
Tagto Mathadi	ANSI C63.10-2020 section 7.8.7
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Anbore Ana	ter pro est abo h
p. yet a	7.8.7.1 General considerations
. Anbor An	To demonstrate compliance with the relative out-of-band emissions
rek	requirements conducted spurious emissions shall be measured for the
otek Anbo	transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers.
V solek	Frequency hopping shall be disabled for this test with the exception of
aboten And	measurements at the allocated band-edges which shall be repeated with
And botek	hopping enabled.
aboten And	k botek Anbor k stek Anbor An
All sol	Connect the primary antenna port through an attenuator to the spectrum
Anbore Am	
k.	analyzer input; in the results, account for all losses between the unlicensed
K AUPOL N.	wireless device output and the spectrum analyzer. The frequency range of
rek	testing shall span 30 MHz to 10 times the operating frequency and this may
otek Anbo	be done in a single sweep or, to aid resolution, across a number of sweeps.
y wolek	The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a
boten And	coupled sweep time with a peak detector.
And K hotek	And atek Andars An ek aboren
Depoter And	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
Anbore Ann	bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To
p.	
ek Aupor P	help clearly demonstrate compliance a display line may be set at the
-tek	required offset (typically 20 dB) below the highest in-band level. Where the
hotek Anbo	highest in-band level is not clearly identified in the out-of-band
w wotek	measurements a separate spectral plot showing the in-band level shall be
aboten Ano	provided. And
An- Notek	Ano otek Anbor An oten
aboter Anv	When conducted measurements cannot be made (for example a device with
p	integrated, non-removable antenna) radiated measurements shall be used.
anbore. And	The reference level for determining the limit shall be established by
P	maximizing the field strength from the highest power channel and measuring
tek naboli	
k. rek	using the resolution and video bandwidth settings and peak detector as
atek Anbor	described above. The field strength limit for spurious emissions outside of
no- rek	restricted-bands shall then be set at the required offset (typically 20 dB)
stek Anbo.	below the highest in-band level. Radiated measurements will follow the
Anbo	standards measurement procedures described in Clause 6 with the
Anbo hotek Anbote	standards measurement procedures described in Clause 6 with the

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

7.8.7.2 Band-edges

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

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

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

9.1. EUT Operation

Operating Envir	ronment:	An	Anboten	And	nbotek	Anbo
Test mode:	1: TX (Non- hopping).	Hopping): Kee	ep the EUT in	continuously tra	insmitting mo	de (non- ^{bolle}
ok abotek		oing): Keep the	e EUT in cont	inuously transmi	itting mode (h	opping).

9.2. Test Setup

EUT	Spectrun	n Analyzer
NRV-	40.	~~~~

9.3. Test Data

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Tan	<i>b</i>	24 6 °C	L Lung talifau	40.0/	1er			404 40-	100%
Ier	nperature:	24.0 C AND	Humidity:	49 %	vupo.	Atmospheric Pressu	re:	очот кра 🔊	1.00
- V2	2. A.		NV NV		T.		12.71		

Please Refer to Appendix for Details.

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Test Requirement:	restricted bands, as define), In addition, radiated emissions d in § 15.205(a), must also comp pecified in § 15.209(a)(see § 15.2	oly with the
Anbotek Ann	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
abotek An	0.009-0.490	2400/F(kHz)	300
Alle	0.490-1.705	24000/F(kHz)	30 nbote.
Aupore	1.705-30.0	30 x notek Anb	30
k hotek	30-88	100 **	3ter And
ter And	88-216	150 **	3
tek anboter	216-960	200 **	3 nbore
nbo. h.	Above 960	500 boten Anb	3 wotek
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	aragraph (g), fundamental emiss ting under this section shall not b Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permit §§ 15.231 and 15.241. e, the tighter limit applies at the l in the above table are based on peak detector except for the free above 1000 MHz. Radiated emis ed on measurements employing	be located in the 470-806 MHz. ted under other band edges. measurements guency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 I		botek Anbote
Procedure:	ANSI C63.10-2020 section	ek apo	N I

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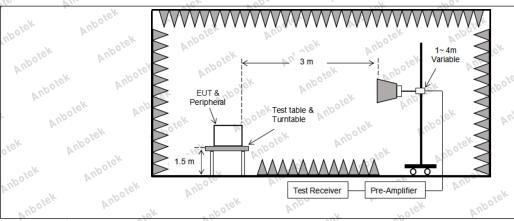
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10.1. EUT Operation

Operating Env	ironment:	Anbo	bolek	Anbote	An. stek	Anbotek
Test mode:	1: TX (Non-H hopping).	lopping): Keep	the EUT in co	ntinuously tran	smitting mode	(non-
40.2 Toot S	bin botek	AUPO	, otek	Auport	Pr.	h nboter

10.2. Test Setup



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10.3. Test Data



Remark:

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1. When the PK measure result value is less than the AVG limit value, the AV measure result values test Anbote not applicable. Anbotek Anbotek

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Peak Value(Vertical)

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Peak Value(Horizontal)

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Test Requirement:	restricted bands, as define	l), In addition, radiated emissions ed in § 15.205(a), must also com pecified in § 15.209(a)(see § 15.2	ply with the
nbore Am	Frequency (MHz)	Field strength	Measurement
hotek Anbor	Ar. stek anbote	(microvolts/meter)	distance
Ano	ster Anbo A.	tek anbote. Ant	(meters)
anboten And	0.009-0.490	2400/F(kHz)	300
A	0.490-1.705	24000/F(kHz)	30 Anboro
Anbo	1.705-30.0	A 30 the the And	30
ok shotek	30-88	100 **	3ten And
ote. And	88-216	150 ** her have	3
stek Anbore	216-960	200 **	3 noor p
100 m	Above 960	EOO VON NO	3
Test Limit:	** Except as provided in p	500 baragraph (g), fundamental emiss ating under this section shall not b	ions from
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	** Except as provided in p intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas	paragraph (g), fundamental emiss ating under this section shall not t Hz, 76-88 MHz, 174-216 MHz or a these frequency bands is permit	ions from be located in the 470-806 MHz. ted under other band edges. measurements quency bands 9– ssion limits in
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	** Except as provided in p intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abov The emission limits show employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector.	baragraph (g), fundamental emiss ating under this section shall not k Hz, 76-88 MHz, 174-216 MHz or a these frequency bands is permit §§ 15.231 and 15.241. we, the tighter limit applies at the l n in the above table are based on i-peak detector except for the free l above 1000 MHz. Radiated emis sed on measurements employing	ions from be located in the 470-806 MHz. ted under other band edges. measurements quency bands 9– ssion limits in
Test Limit:	** Except as provided in p intentional radiators opera frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas	baragraph (g), fundamental emiss ating under this section shall not k Hz, 76-88 MHz, 174-216 MHz or a these frequency bands is permit §§ 15.231 and 15.241. we, the tighter limit applies at the l n in the above table are based on i-peak detector except for the free l above 1000 MHz. Radiated emis sed on measurements employing n 6.6.4	ions from be located in the 470-806 MHz. ted under other band edges. measurements quency bands 9– ssion limits in

Anbotel otek 11. Emissions in frequency bands (below 1GHz)

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11.1. EUT Operation

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Operating Envir	ronment:	Aupor K.	bolek	Anbore A	11- Clek	Anbotek
Test mode:	1: TX (Non-H hopping).	opping): Keep t	he EUT in cor	tinuously transr	nitting mode (n	on-
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Anbotek Noto 11.2. Test Setup

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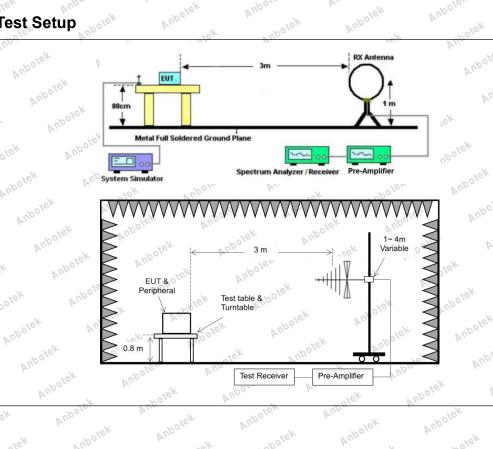
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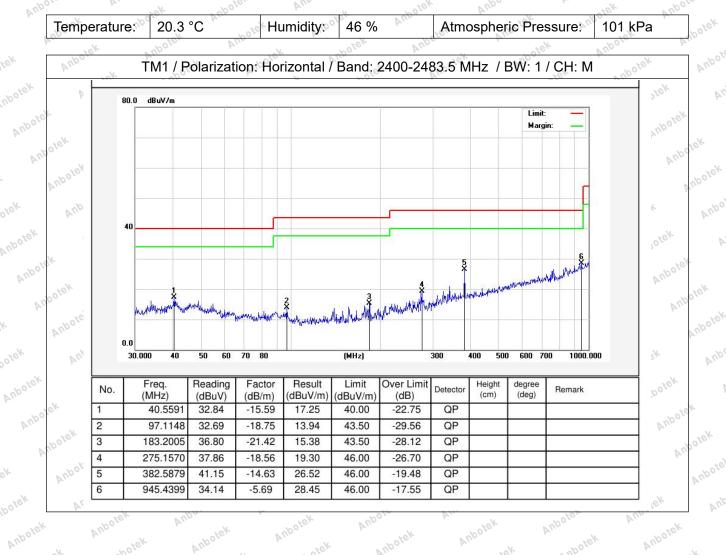
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Anbotel 11.3. Test Data

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



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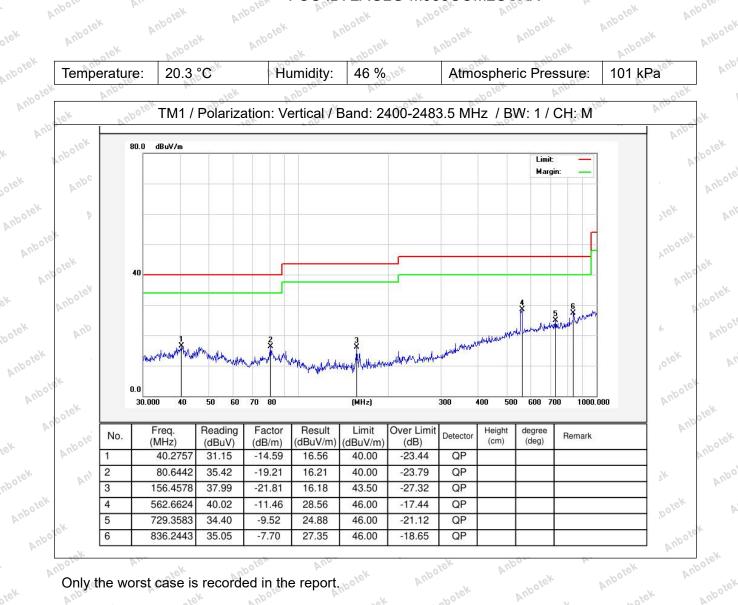
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Report No.:1812C40040312501 FCC ID: 2AGLG-M955COM2USRX

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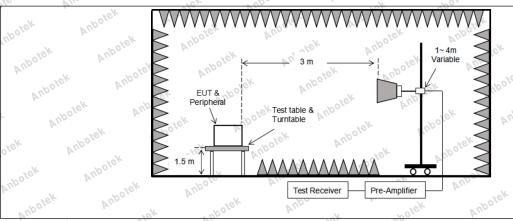
Frequency (MHz)Field strength (microvolts/meter)0.009-0.4902400/F(kHz)0.490-1.70524000/F(kHz)1.705-30.03030-88100 **88-216150 **216-960200 **Above 960500** Except as provided in paragraph (g), fundamen intentional radiators operating under this section a frequency bands 54-72 MHz, 76-88 MHz, 174-216 However, operation within these frequency bands sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applie The emission limits shown in the above table are employing a CISPR quasi-peak detector except for 90 kHz, 110-490 kHz and above 1000 MHz. Radi these three bands are based on measurements e detector.Text Mathematical ANSI C63.10-2020 section 6.6.4	stricted bands, as defined I emission limits specified
0.490-1.70524000/F(kHz)1.705-30.03030-88100 **88-216150 **216-960200 **Above 960500** Except as provided in paragraph (g), fundamen intentional radiators operating under this section s frequency bands 54-72 MHz, 76-88 MHz, 174-216 However, operation within these frequency bands 	Measurement distance (meters)
Image: Test Limit:Image: Test Limit:Image: Test Limit:Test Limit:1.705-30.03030-88100 **Above 960200 **Above 960500** Except as provided in paragraph (g), fundamen intentional radiators operating under this section as frequency bands 54-72 MHz, 76-88 MHz, 174-216 However, operation within these frequency bands sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applie The emission limits shown in the above table are 	Anbote 300 And
30-88100 **88-216150 **216-960200 **Above 960500** Except as provided in paragraph (g), fundamen intentional radiators operating under this section as frequency bands 54-72 MHz, 76-88 MHz, 174-216 However, operation within these frequency bands sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applie The emission limits shown in the above table are employing a CISPR quasi-peak detector except for 90 kHz, 110-490 kHz and above 1000 MHz. Radii these three bands are based on measurements e detector.	30 Anbore
88-216 150 ** 216-960 200 ** Above 960 500 ** Except as provided in paragraph (g), fundamen intentional radiators operating under this section as frequency bands 54-72 MHz, 76-88 MHz, 174-216 However, operation within these frequency bands sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applie The emission limits shown in the above table are employing a CISPR quasi-peak detector except for 90 kHz, 110–490 kHz and above 1000 MHz. Radii these three bands are based on measurements e detector.	An ^b 30
Z16-960200 **Above 960500** Except as provided in paragraph (g), fundamen intentional radiators operating under this section s frequency bands 54-72 MHz, 76-88 MHz, 174-216 However, operation within these frequency bands sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applie The emission limits shown in the above table are employing a CISPR quasi-peak detector except for 90 kHz, 110–490 kHz and above 1000 MHz. Radii these three bands are based on measurements e detector.ANSL C63 10-2020 section 6.6.4	k Maren Ano
Above 960500Test Limit:** Except as provided in paragraph (g), fundamen intentional radiators operating under this section s frequency bands 54-72 MHz, 76-88 MHz, 174-216 However, operation within these frequency bands sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applie The emission limits shown in the above table are employing a CISPR quasi-peak detector except for 90 kHz, 110–490 kHz and above 1000 MHz. Radi these three bands are based on measurements e detector.ANSL C63 10.2020 section 6.6.4	3 dek
Test Limit:** Except as provided in paragraph (g), fundamen intentional radiators operating under this section a frequency bands 54-72 MHz, 76-88 MHz, 174-216 However, operation within these frequency bands sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applie The emission limits shown in the above table are employing a CISPR quasi-peak detector except for 90 kHz, 110–490 kHz and above 1000 MHz. Radi these three bands are based on measurements e detector.ANSL C63 10.2020 section 6.6.4	ootek <u>3</u> nbor P
intentional radiators operating under this section s frequency bands 54-72 MHz, 76-88 MHz, 174-216 However, operation within these frequency bands sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applie The emission limits shown in the above table are employing a CISPR quasi-peak detector except for 90 kHz, 110–490 kHz and above 1000 MHz. Radi these three bands are based on measurements e detector.	3 spotek
ANSI C63.10-2020 section 6.6.4	6 MHz or 470-806 MHz. is permitted under other es at the band edges. based on measurements or the frequency bands 9– ated emission limits in
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02	And Andotek Andotek
Procedure: ANSI C63.10-2020 section 6.6.4	where the state of

12. Emissions in frequency bands (above 1GHz)

12.1. EUT Operation

ler.	Operating Envir	onment:	Aupor	botek	Anbore. Am	otek	Anbolek
nbotek	Test mode:	1: TX (Non-H hopping).	opping): Keep t	he EUT in con	tinuously transm	itting mode (n	on-
Anboten	12.2. Test Se	tup Anbotek	Anbo	Anbotek	Anboro	Ar. abotek	Anboten

12.2. Test Setup



Shenzhen Anbotek Compliance Laboratory Limited

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,oter Hotline 400-003-0500 www.anbotek.com

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Report No.:1812C40040312501 FCC ID: 2AGLG-M955COM2USRX

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12.3. Test	Data

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Test Data Temperature: 24.4 °C Humidity: 51.8 % Atmospheric Pressure: 101 kPa TM1 / CH: L Peak value: Frequency (MHz) Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) polarization polarization (dB) 715.00 30.44 18.09 48.53 74.00 -29.42 Vertical 9620.00 31.71 23.76 55.47 74.00 -25.47 Vertical 12025.00 * 74.00 -18.53 Vertical 1430.00 * 74.00 -29.06 Horizontal 7215.00 30.32 18.09 48.41 74.00 -29.06 Horizontal 9620.00 29.41 23.76 53.17 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.04 <th>Am</th> <th>Anboten Ar</th> <th>Anbotek</th> <th>Anbotek</th> <th>Anbore A</th> <th>Anbotek</th> <th>Anboten</th>	Am	Anboten Ar	Anbotek	Anbotek	Anbore A	Anbotek	Anboten
TM1 / CH: L Peak value: Frequency (MHz) Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) polarization 4810.00 29.31 15.27 44.58 74.00 -29.42 Vertical 7215.00 30.44 18.09 48.53 74.00 -25.47 Vertical 9620.00 31.71 23.76 55.47 74.00 -18.53 Vertical 12025.00 * - 74.00 -29.06 Horizontal 14430.00 * - 74.00 -29.06 Horizontal 7215.00 30.32 18.09 48.41 74.00 -20.68 Horizontal 9620.00 29.41 23.76 53.17 74.00 -20.68 Horizontal 12025.00 * - 74.00 Horizontal Horizontal 12025.00 * - 74.00 Horizontal Horizontal 14430.00 * - 74.00 Horizontal <	12.3. Test Data	Anbotek	Anbor	nbotek	Anbore	Am	Anboten
TM1 / CH: L Peak value: Frequency (MHz) Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) polarization 4810.00 29.31 15.27 44.58 74.00 -29.42 Vertical 7215.00 30.44 18.09 48.53 74.00 -25.47 Vertical 9620.00 31.71 23.76 55.47 74.00 -18.53 Vertical 12025.00 * 74.00 -29.06 Horizontal 14430.00 * 74.00 -29.06 Horizontal 7215.00 30.32 18.09 48.41 74.00 -29.06 14810.00 29.41 23.76 53.17 74.00 -20.83 Horizontal 7215.00 30.32 18.09 48.41 74.00 -20.83 Horizontal 12025.00 * 74.00 Horizontal Horizontal Horizontal 14430.00 * 74.00 Horizontal Horizontal	Temperature:	24.4 °C 010K	Humidity:	51.8 %	Atmospheric	Pressure:	101 kPa o ^{ter}
Peak value: Frequency (MHz) Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit Line (dBuV/m) Over Limit (dB polarization (dB 4810.00 29.31 15.27 44.58 74.00 -29.42 Vertical 7215.00 30.44 18.09 48.53 74.00 -25.47 Vertical 9620.00 31.71 23.76 55.47 74.00 -18.53 Vertical 12025.00 * 74.00 -29.06 Horizontal 14430.00 * 74.00 -29.06 Horizontal 7215.00 30.32 18.09 48.41 74.00 -29.06 Horizontal 9620.00 29.41 23.76 53.17 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.83 Horizontal Horizontal 12025.00 * 74.00 -20.83 Horizontal 14430.00 * 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.04	K Anbo	h. rek	VUpole.	Am	k	Anbo	-v
Frequency (MHz) Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) polarization (dB) 4810.00 29.31 15.27 44.58 74.00 -29.42 Vertical 7215.00 30.44 18.09 48.53 74.00 -25.47 Vertical 9620.00 31.71 23.76 55.47 74.00 -18.53 Vertical 12025.00 * 74.00 -18.53 Vertical 4810.00 29.67 15.27 44.94 74.00 -29.06 Horizontal 7215.00 30.32 18.09 48.41 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.83 Horizontal 12025.00 * 74.00 Horizontal Horizontal 12025.00 * 74.00 Horizontal Horizontal 14430.00 * 74.00 Horizontal Horizontal 14430.00 18.69 15.27 33.96 54.00 -20.44				TM1 / CH: L			
(MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB/m) (dB/	Peak value:						
7215.00 30.44 18.09 48.53 74.00 -25.47 Vertical 9620.00 31.71 23.76 55.47 74.00 -18.53 Vertical 12025.00 * 74.00 -18.53 Vertical 14430.00 * 74.00 Vertical 4810.00 29.67 15.27 44.94 74.00 -29.06 Horizontal 7215.00 30.32 18.09 48.41 74.00 -29.06 Horizontal 9620.00 29.41 23.76 53.17 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.83 Horizontal Horizontal 12025.00 * 74.00 Horizontal Horizontal Horizontal 14430.00 * 74.00 Horizontal Horizontal Horizontal 14430.00 * 74.00 Horizontal Horizontal Horizontal 14430.00 18.69 15.27 33.96 54.00 -20.04 Vertical		•					polarizatior
9620.00 31.71 23.76 55.47 74.00 -18.53 Vertical 12025.00 * 74.00 Vertical Vertical 14430.00 * 74.00 Vertical 4810.00 29.67 15.27 44.94 74.00 -29.06 4810.00 29.67 15.27 44.94 74.00 -29.06 7215.00 30.32 18.09 48.41 74.00 -29.06 Horizontal 9620.00 29.41 23.76 53.17 74.00 -20.83 Horizontal 12025.00 * 74.00 Horizontal Horizontal Horizontal 14430.00 * 74.00 Horizontal Horizontal 14430.00 * 74.00 Horizontal 620.00 (dBuV) (dB/m) (dBuV/m) (dBuV/m) polarization (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) Over Limit polarization 4810.00 18.69 15.27 33.96	4810.00	29.31	15.27	44.58	74.00	-29.42	Vertical
12025.00 * 74.00 Vertical 14430.00 * 74.00 Vertical 4810.00 29.67 15.27 44.94 74.00 -29.06 Horizontal 7215.00 30.32 18.09 48.41 74.00 -29.06 Horizontal 9620.00 29.41 23.76 53.17 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.83 Horizontal 14430.00 * 74.00 Horizontal 14430.00 18.69 15.27 33.96 54.00 -20.04 Vertical 7215.00 19.47 18.09 37.56 54.00 -16.44 Vertical 9620.00 20.73 23.76 44.49 54.00 -9.51 Vertic	7215.00	30.44	18.09	48.53	74.00	-25.47	Vertical
12023.00 * 74.00 Ventual 14430.00 * 74.00 Ventual 4810.00 29.67 15.27 44.94 74.00 -29.06 Horizontal 7215.00 30.32 18.09 48.41 74.00 -20.83 Horizontal 9620.00 29.41 23.76 53.17 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.83 Horizontal Horizontal 14430.00 * 74.00 -20.83 Horizontal 14430.00 * 74.00 Horizontal 14430.00 * 74.00 Horizontal 14430.00 * 74.00 Horizontal 14430.00 * 74.00 Horizontal 14430.00 18.69 15.27 33.96 54.00 -20.04 Vertical 9620.00 20.73 23.76 44.49 54.00 -9.51 Vertical 9620.00 20.73 23.76 44.49 54.	9620.00	31.71	23.76	55.47	× 74.00 00 00 00 00 00 00 00 00 00 00 00 00	-18.53	Vertical
14430.00 29.67 15.27 44.94 74.00 -29.06 Horizontal 7215.00 30.32 18.09 48.41 74.00 -25.59 Horizontal 9620.00 29.41 23.76 53.17 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.83 Horizontal 14430.00 * 74.00 -20.83 Horizontal 14430.00 * 74.00 Horizontal Horizontal 14430.00 * 74.00 Horizontal Horizontal 14430.00 * 74.00 Horizontal 14430.00 * 74.00 Horizontal 14430.00 * 74.00 Horizontal 14430.00 18.69 15.27 33.96 54.00 -20.04 Vertical 9620.00 20.73 23.76 44.49 54.00 -9.51 Vertical 12025.00 * 54.00<	12025.00	* A	tek anbo	ren Aupo	74.00	otek Anbo	Vertical
7215.00 30.32 18.09 48.41 74.00 -25.59 Horizontal 9620.00 29.41 23.76 53.17 74.00 -20.83 Horizontal 12025.00 * 74.00 -20.83 Horizontal 14430.00 * 74.00 Horizontal Average value: 74.00 Horizontal Frequency (MHz) Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over Limit (dB) polarization 4810.00 18.69 15.27 33.96 54.00 -20.04 Vertical 9620.00 20.73 23.76 44.49 54.00 -9.51 Vertical 9620.00 20.73 23.76 44.49 54.00 -9.51 Vertical 9620.00 20.73 23.76 33.29 54.00 -20.71 Horizontal 14430.00 * 54.00 -20.71 Horizontal 7215.00 19.38 18.09 37.47 54.00 -16.53 Horizontal	14430.00	potek * Anb		botek Ar	74.00	- otek	Vertical
9620.00 29.41 23.76 53.17 74.00 -20.83 Horizontal 12025.00 * 74.00 Horizontal Horizontal 14430.00 * 74.00 Horizontal Average value: Tequency (MHz) Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over Limit (dB) polarization 4810.00 18.69 15.27 33.96 54.00 -20.04 Vertical 9620.00 20.73 23.76 44.49 54.00 -9.51 Vertical 12025.00 * 54.00 -20.71 Vertical 14430.00 * 54.00 -20.71 Horizontal 14430.00 * 54.00 -9.51 Vertical 14430.00 * 54.00 -20.71 Horizontal 7215.00 18.02 15.27 33.29 54.00 -20.71 Horizontal 7215.00 19.38 18.09 37.47 54.00 <td>4810.00</td> <td>29.67</td> <td>15.27</td> <td>44.94</td> <td>74.00</td> <td>-29.06</td> <td>Horizontal</td>	4810.00	29.67	15.27	44.94	74.00	-29.06	Horizontal
12025.00 * Image: Mark and the state in	7215.00	30.32	18.09	48.41	74.00	-25.59	Horizontal
14430.00 * 74.00 Horizontal Average value: Frequency (MHz) Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over Limit (dB) polarization 4810.00 18.69 15.27 33.96 54.00 -20.04 Vertical 7215.00 19.47 18.09 37.56 54.00 -16.44 Vertical 9620.00 20.73 23.76 44.49 54.00 -9.51 Vertical 12025.00 * 54.00 -9.51 Vertical 4810.00 18.02 15.27 33.29 54.00 -20.71 14430.00 * 54.00 -20.71 Horizontal 7215.00 18.02 15.27 33.29 54.00 -20.71 4810.00 18.02 15.27 33.29 54.00 -20.71 Horizontal 7215.00 19.38 18.09 37.47 54.00 -16.53 Horizontal	9620.00	29.41	23.76	53.17	74.00	-20.83	Horizontal
Average value: Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over Limit (dB) polarization (dB) 4810.00 18.69 15.27 33.96 54.00 -20.04 Vertical 7215.00 19.47 18.09 37.56 54.00 -16.44 Vertical 9620.00 20.73 23.76 44.49 54.00 -9.51 Vertical 12025.00 * 54.00 -9.51 Vertical 4810.00 18.02 15.27 33.29 54.00 -9.51 12025.00 * 54.00 -9.51 Vertical 14430.00 * 54.00 -20.71 Horizontal 7215.00 18.02 15.27 33.29 54.00 -20.71 4810.00 18.02 15.27 33.29 54.00 -20.71 Horizontal 7215.00 19.38 18.09 37.47 54.00 -16.53 Horizontal	12025.00	*nbote	Am	Anboten	74.00	k spotek	Horizontal
Frequency (MHz) Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over Limit (dB) polarization 4810.00 18.69 15.27 33.96 54.00 -20.04 Vertical 7215.00 19.47 18.09 37.56 54.00 -16.44 Vertical 9620.00 20.73 23.76 44.49 54.00 -9.51 Vertical 12025.00 * - 54.00 -9.51 Vertical 14430.00 * - 54.00 -20.71 Vertical 4810.00 18.02 15.27 33.29 54.00 -20.71 Horizontal 7215.00 19.38 18.09 37.47 54.00 -16.53 Horizontal	14430.00	ek * noore	K Anbo	ode de	^{ek} 74.00 m ^{bo}		Horizontal
(MHz)(dBuV)(dB/m)(dBuV/m)(dBuV/m)(dB)polarization4810.0018.6915.2733.9654.00-20.04Vertical7215.0019.4718.0937.5654.00-16.44Vertical9620.0020.7323.7644.4954.00-9.51Vertical12025.00*54.0054.00-9.51Vertical14430.00*54.0054.00Vertical4810.0018.0215.2733.2954.00-20.717215.0019.3818.0937.4754.00-16.53	Average value:						
7215.00 19.47 18.09 37.56 54.00 -16.44 Vertical 9620.00 20.73 23.76 44.49 54.00 -9.51 Vertical 12025.00 * 54.00 -9.51 Vertical 14430.00 * 54.00 Vertical Vertical 4810.00 18.02 15.27 33.29 54.00 -20.71 Horizontal 7215.00 19.38 18.09 37.47 54.00 -16.53 Horizontal		•				-	polarizatior
9620.00 20.73 23.76 44.49 54.00 -9.51 Vertical 12025.00 * 54.00 Vertical Vertical 14430.00 * 54.00 Vertical 4810.00 18.02 15.27 33.29 54.00 -20.71 7215.00 19.38 18.09 37.47 54.00 -16.53	4810.00	18.69	15.27	33.96	54.00	-20.04	Vertical
12025.00 * 54.00 Vertical 14430.00 * 54.00 Vertical 4810.00 18.02 15.27 33.29 54.00 -20.71 Horizontal 7215.00 19.38 18.09 37.47 54.00 -16.53 Horizontal	7215.00	19.47	18.09	37.56	54.00	-16.44	Vertical
14430.00 * 54.00 Vertical 4810.00 18.02 15.27 33.29 54.00 -20.71 Horizontal 7215.00 19.38 18.09 37.47 54.00 -16.53 Horizontal	9620.00	20.73	23.76 hole	44.49	54.00 noo		Vertical
4810.00 18.02 15.27 33.29 54.00 -20.71 Horizontal 7215.00 19.38 18.09 37.47 54.00 -16.53 Horizontal	12025.00	Ke, * Aun	tek ant) ×	54.00	botek Ant	Vertical
7215.00 19.38 18.09 37.47 54.00 -16.53 Horizontal	14430.00	abotek * Ar	bo. K	botek	10° 54.00		Vertical
	4810.00	18.02	15.27	33.29	54.00	-20.71	Horizontal
9620.00 18.72 23.76 42.48 54.00 -11.52 Horizontal	7215.00	19.38	18.09	37.47	54.00	-16.53	Horizontal
	9620.00	18.72	23.76	42.48	54.00	-11.52	Horizontal



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Anbote.	Peak value:						
Anbot	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
P	4882.00	otek 29.33 March	15.42	44.75	o ^{ven} 74.00 ^{knib}	-29.25	ov [∞] Vertical ⊳∿ [∞]
e ^K	7323.00	30.29	18.02 N	48.31	74.00	-25.69	Vertical
nbotek	9764.00	30.72	23.80	54.52	74.00	-19.48	Vertical
	12205.00	Anbo*	Ann	Anbotek	74.00	-botek	Vertical
Anbotek	14646.00	* nbotek	Anbo	hotek	74.00	Am	Vertical
Anbo	1002.00	29.37	15.42	44.79	74.00	-29.21	Horizontal
P.	7323.00	30.31	18.02 Noo	48.33 ^{hb0}	74.00	o ^{rek} -25.67 pr ^{b0}	Horizontal
P	9764.00	pote ^k 29.11 A ^{nb}	23.80	52.91 N	⁹⁰ 74.00	-21.09	Horizontal
tek.	12205.00	~otek*	Anbote. A	Un Clark	74.00	Anbo	Horizontal
nbotek	14646.00	And *	nbotek	Anbore	74.00	Anbors	Horizontal
nv-	Average value:						

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00 M	18.42	otek 15.42 And	33.84	54.00	-20.16 And	Vertical
7323.00	19.57	18.02	37.59 A	54.00	-16.41	Vertical
9764.00	20.59	23.80	44.39	54.00	-9.61	Vertical
12205.00	* tek	Anbor	Att	54.00	And	Vertical
14646.00	A"*	Anboten	Aupo.	54.00	Anbore	Vertical
4882.00 00 ter	17.93	15.42	33.35	54.00	e⊁ -20.65,∿ ^{ote}	Horizontal
7323.00	18.94 M ⁰⁰	18.02	Net 36.96 March	54.00 And	-17.04	Horizontal
9764.00	19.23	100 ¹⁰¹ 23.80 Ant	43.03	54.00	-10.97	Horizontal
12205.00	k old	abotek	Anbort	54.00	Anboten	Horizontal
14646.00	Anbor*	An	Anboten	54.00	abotek	Horizontal
Ann Anbotek	Anbotek	Anbo	Anbotek	Anboro	Anbotek	Anboren aboten

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Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4950.00	29.60	15.58 Anbo	45.18	otek 74.00 proc	-28.82	Vertical
7425.00	30.30	17.93	48.23 AM	74.00	-25.77	Vertical
9900.00	31.27	23.83	55.10	74.00	-18.90	Vertical
12375.00	abottek	Anbo	hotek	74.00	Allek	Vertical
14850.00	* tek	Aupoter	Ann	74.00	Anbor	Vertical
4950.00	29.44	15.58	45.02	74.00	-28.98	Horizontal
7425.00	30.34	17.93	48.27 Mar	74.00	-25.73	Horizontal
9900.00	29.79	23.83 And	53.62	o ^{lek} 74.00 A ^{nic}	-20.38	Horizontal
12375.00	*	spotek A	upo. K	74.00	Anbore A	Horizontal
14850.00	Anbor *	A	Anbolek	74.00	A Nbotek	Horizontal
verage value:				·		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4950.00	19.54	15.58	35.12 Ano	54.00	otek-18.88 pro	Vertical
7425.00	20.58	17.93	38.51	54.00	-15.49	Vertical
9900.00	21.14	23.83	44.97	54.00	-9.03	Vertical
12375.00	Ans * lek	nbotek	Anbo	54.00	Anbois	Vertical
14850.00	Aut of	hotek	Anboto	54.00	Anbolek	Vertical
4950.00	19.37	15.58	34.95	54.00	-19.05	Horizontal
7425.00	20.31	^{ek} 17.93 ^{nb0}	38.24	10 ⁴ 54.00 pm ⁰⁰	-15.76	Horizontal
9900.00	19.13	otet 23.83 Ant	42.96	54.00	ib ^{otek} -11.04 Ant	Horizontal
12375.00	nboter * A	, tek	h nbotek	54.00	abotek	Horizontal
14850.00	abot*	Anbore	h abotek	54.00	Am	Horizontal

Remark:

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Anbotel 1. Result =Reading + Factor

Anbotek Test frequency are from 1GHz to 25GHz, "*" means the test results were attenuated more than An12. 20dB below the permissible limits, so the results don't record in the report. Anbotel Anbotek

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Anbotek **APPENDIX I -- TEST SETUP PHOTOGRAPH**

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

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APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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Anbotek End of Report

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