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Report No.:1812C40062312501 FCC ID:2AH9Q-K01201

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Makeblock Co., Ltd.

Address

4th Floor, Building C3, Nanshan iPark, No.1001 : Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong Province, 518057, China

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xTool SafetyPro IF2 Product Name

Oct. 15, 2024 Report Date

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Compliance Laboratory Limited Shenzhen Anbotek

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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 Fechnology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China, Email: service@anbotek.com Tel:(86)0755-26066440







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Shenzhen Anbotek Compliance Laboratory Limited

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, A Anbotel Anb Tel:(86)0755-26066440 Email:service@anbotek.com Anbo







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TEST REPORT

Applicant Manufacturer Makeblock Co., Ltd.

Makeblock Co., Ltd.

Product Name

Model No.

Trade Mark

Rating(s)

MXA-K012-001

xTool SafetyPro IF2

xTool

Input: 100-120V~ 50/60Hz

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:

Sept. 03, 2024

Date of Test:

Prepared By:

Sept. 03, 2024 to Sept. 14, 2024

Nian xiu Chen

(Nianxiu Chen)

(KingKong Jin)

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

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1. General Information

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1.1. Client Information

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Product Safety

Applicant	:	Makeblock Co., Ltd.
Address	:	4th Floor, Building C3, Nanshan iPark, No.1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong Province, 518057, China
Manufacturer	:	Makeblock Co., Ltd.
Address	:	4th Floor, Building C3, Nanshan iPark, No.1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong Province, 518057, China
Factory	:	Huizhou Tongxin Manufacturing Intelligent Equipment Co., Ltd.
Address	:	3-6th Floor, Building 2, No. 9, Dongsheng South Road, Chenjiang Street, Zhongkai High-tech District, 516080 Huizhou City, Guangdong Province, China

1.2. Description of Device (EUT)

Anbo .ek		subor An k hotel And tek hobe
Product Name	:	xTool SafetyPro IF2
Model No.	:	MXA-K012-001
Trade Mark	:	xTool polek Anbolek Anbolek Anbolek Anbolek
Test Power Supply	:	AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/Aknootek Andotek Andotek Andotek Andotek Andotek
RF Specification		P.0
Operation Frequency	-	2402MHz to 2480MHz
Number of Channel	:	40 ^{ten} And Lotek Anborek Anborek Anborek Anbore
Modulation Type	:	GFSK Annotek Anbolek Anbolek Anbolek Anbolek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	2.79dBi hotek Anbolek Anbolek Anbolek Anbolek Anbolek
		ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the

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Report No.:1812C40062312501 Anbotek FCC ID:2AH9Q-K01201

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Anbotek 1.3. Auxiliary Equipment Used During Test

1,3.	Auxiliary E	quipr	nent L	Ised During	Test	Anbo	botek	Anb	stek. ek	Anbore	₿ĸ.	Anbotek
	Title		Ν	lanufacturer		Мо	del No).		Serial No.		Anbo
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1.4. Operation channel list

Operation E	and:	A	Anboten	And	anbotek	Anbo	wak spote
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
60 ⁰⁰¹⁰¹	2402	* 10 Anbo'	2422	10 Kex 20	2442	30	2462
stek 1 Anboth	2404	otek 11 A	100 ¹⁶ 2424	21	2444	Antoite	2464
nbotek 2 An	2406	12	2426	And 22 tek	2446	32	2466
nbolek3	2408	13,04	2428	23	2448	33 Anbor	2468
4ek	2410	Ant 14 botek	2430	24 ^{_nbc}	2450	rek 34 pr	2470
5 otek	2412	15	10 2432 Anto	^{ek} 25 A ^{nt}	2452	nbote 35	And 2472
6 spol	ek 2414 _{Anbok}	16 And	2434	100 ¹⁰ 26	2454	36	2474
ote 7 And	2416 N	p ^{oter} 17	2436	And 27	2456	37, otek	2476
Antore 8	2418	Anto 18	2438	28 otek	2458	38	e ^k 2478 _{Anbote}
Anborg	2420	19 ^{10k}	2440	29 not	2460 ^{,000}	39	10010 2480 NO

1.5. Description of Test Modes

	Pretest Modes			Descript	tions		
er er	TM1	Anbotek	Keep the EUT in	continuously tr modula		de with GFSK	Anbote
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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	Ant 3.4dB ubotek Anbote At botek
Dccupied Bandwidth	925Hz Annote Ann
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Conducted Spurious Emission	1.24dB Anbourtek Anbotek Anbote
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB Model Andrea Andrea

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. Anbote

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbote. / Ans	Ket P
Conducted Emission at AC power line	Mode1	NOTEKP
Occupied Bandwidth	Mode1	Per
Maximum Conducted Output Power	Mode1	Ann P ret
Power Spectral Density	Model Model	P
Emissions in non-restricted frequency bands	Mode1	PA
Band edge emissions (Radiated)	Mode1	P
Emissions in frequency bands (below 1GHz)	Mode1	Anbore P
Emissions in frequency bands (above 1GHz)	Mode1	Ante

N: N/A, not applicable

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1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

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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

- 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.

Shenzhen Anbotek Compliance Laboratory Limited

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1.10. Test Equipment List

	Cond	ucted Emission at A	C power line	upo. tek	Anbotek	Anboro	Am
Ŀ	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
,0	^{ek} 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
Þ	100 tek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
	3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Anbolpk	Anbou
×	4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

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Occupied Bandwidth Maximum Conducted Output Power

Power Spectral Density Emissions in non-restricted frequency bands

LIIIS		a nequency bands		1. otek	NUD .	NOK.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
۲ ۱	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	Anbotek N/A otek	2023-10-16	2024-10-15
2 2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
Angole	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4 ^{A mb}	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

Band edge emissions (Radiated)

Emiss	sions in frequency ba	ands (above 1GHz)	hotek A	nbore	Am	Anboten A
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2 ^{1,6} *	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
nboten	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	1 ^{ek} 02555 p ⁿ	2022-10-16	2025-10-15
400	EMI Test Software EZ-EMC	SHURPLE	nboteN/A	N/A	Anbo	Anbotek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
hell6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
, No Kek	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

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Emis	sions in frequency ba	ands (below 1GHz)	alek p	nbotek	And	abotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
^{,e×} 2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
^{nb} 3 ^{ek}	Bilog Broadband Antenna	Schwarzbeck	VULB9163	tek 345 An	2022-10-23	2025-10-22
A100	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5 🕨	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbor	A. Anb tek

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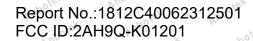
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2. Antenna requirement

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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 Test Requirement: of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. Anbotel

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 2.79dBi. It complies with the standard requirement.

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Report No.:1812C40062312501 Anbotek FCC ID:2AH9Q-K01201

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Anbotel 3. Conducted Emission at AC power line

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Test Requirement:	Refer to 47 CFR 15.207(a), Excep section, for an intentional radiator public utility (AC) power line, the raback onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that y frequency or frequencie exceed the limits in the fo	nected to the at is conducted s, within the ollowing table, as
Auporen Ano	Frequency of emission (MHz)	Conducted limit (dBµV)	Principle
hotek Anbor	All tek holoter	Quasi-peak	Average
T	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 Notek Miloo	56 Jek Mabol	46
A. stek	5-30 ^{Million}	60 000	50 Anbo
botek Anbo	*Decreases with the logarithm of the	ne frequency.	ion yes
Test Method:	ANSI C63.10-2020 section 6.2	rek abotek	Anbors
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-

3.1. EUT Operation

Operating Envi	ronment:	botek	Aupore	Ar. stek	Anboten	And	y abc
Test mode:	1: TX mo modulati	V6	ne EUT in c	ontinuously ti	ransmitting m	ode with GFSI	< P.
3.2. Test Set	up	Anbotek	Aupor	atek ar	botek A	nboter An	nbotek

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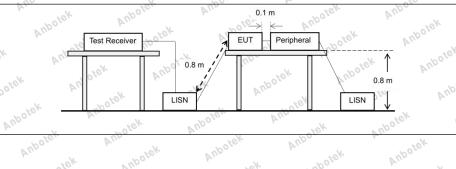
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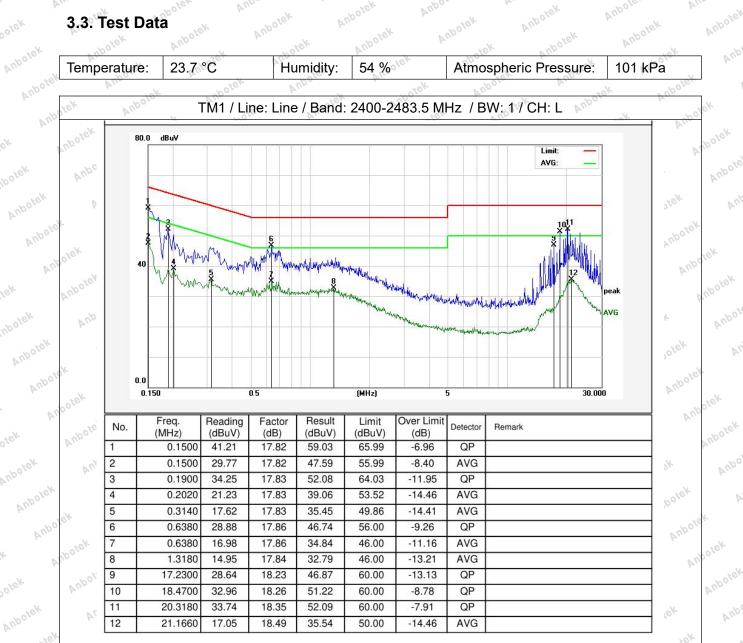
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3.3. Test Data



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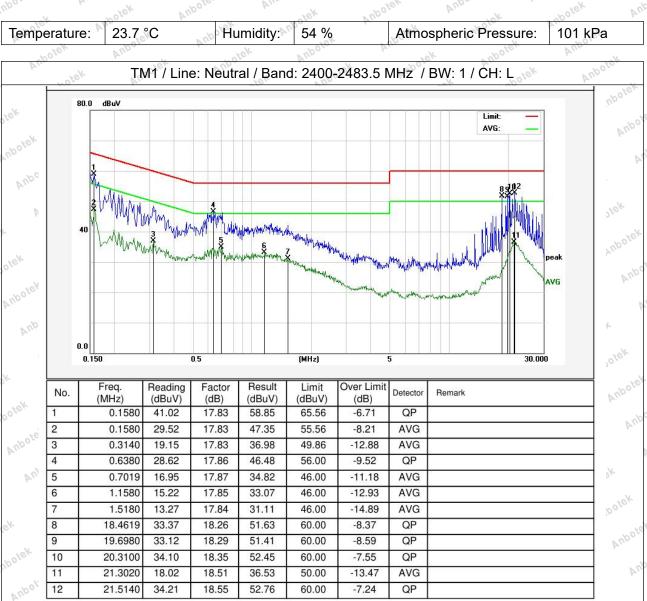
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Note: Only the worst case data was showed in the report.

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4. Occupied Bandwidth

Not No.	M NOTE All ter And
Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Anboten And Anbotek Anbotel Anbotek Anb	 11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW].
nbotek Anbotek	 c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize.
Procedure:	g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.
otek Anbois Anbotek Anbotek Anbotek Anbotek	11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW \geq 3 × RBW, and
Anboliek Anbol	peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth
Anu Anbotek	measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

4.1. EUT Operation

Operating En	vironment:	Ann	Anbotek	Anbo	~ botek	Anboro
Test mode:	1: TX mode:	Keep the EUT	in continuou	sly transmitting	g mode with GFS	K npoter
Test model	modulation.	aboter.	Ano	v	K Aupo.	h.
		DI.		0 N N N		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

4.2. Test Setup

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	Anbor	Anbotek	Alle	je po	poter	And		ootek	Anbotek	÷	

4.3. Test Data

Temperature: 24.8 °C Humidity	54 % Andoren	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

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Anbotek 5. Maximum Conducted Output Power

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Test Requirement:	47 CFR 15.247(b)(3)
Anboten An nbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

5.1. EUT Operation

Operating Env	vironment:	v r	-otek	Aupolo	P	nboten	VUI
Test mode:	1: TX mode: modulation.	Keep the E	UT in continu	uously transm	itting mode wit	th GFSK	
5.2. Test Se	tupootek	upo. atek	Anbotek	Anbote	k And abotek	k Anbotek	V

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5.2. Test Setup

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5.3. Test Data

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Temperature:	24.8 °C	Auport	Humidity:	54 %	Atr	nospheric Pressure	: 101 kPa
Please Refer to	Appendix	for Detail	S. tek	Amotek	Anb	oten And	k Anbotek

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Please Refer to Appendix for Details.

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Test Requirement:	47 CFR 15.247(e)
Anbotek Test Limit: Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

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6.1. EUT Operation

6.1. EUT Op	peration	Anbore	Amotek	Anborea	Anbotek	Anbotek	Anbor
Operating Env	vironment:	Ann	K Anbolek	Andos	k nbotek	Anbore	k h.
Test mode:	1: TX n modula	•	e EUT in conti	nuously transn	nitting mode wit	th GFSK	Anu
6.2. Test Se	tup Anb	on bu	Anbotek A	nboten Ar	botek l	Inbotek An	outek p

6.2. Test Setup

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Temperature:	24.8 °C	Humidity:	54 % 100 ⁰⁰⁰	Atmospheric	Pressure:	101 kPa	
1 - V.		PL.	7.94	. 90		N.	~0°

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Anbotel 7. Emissions in non-restricted frequency bands

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Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

7.1. EUT Operation

Operating E	nvironment:	, Au.	. otek	Anboten	AUD	nbotek	PU
Test mode:	1: TX mod modulatior	Un .	UT in continu	uously transm	nitting mode with	n GFSK	
7.2. Test S	etupo ^{otek}	Anbor	Anbotek	Anboten	ek abotek	Anbotek	V

7.2. Test Setup

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7.3. Test Data

7.3. Test Data vek Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek	Tempe	rature:	24.8 °C	AUPO	Humidity:	54 %	Atmo	spheric Pressur	e: 101 kPa	
	7.3. T	est Data	Bolek	Anbotek	Ano	hotek	Anbotek	Anborsstek	A. Anbotek	P

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8. Band edge emissions (Radiated)

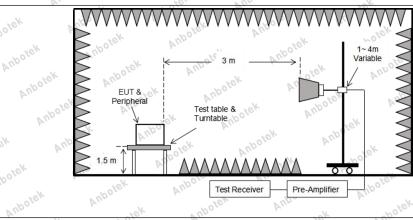
Test Requirement:	restricted bands, as defined	In addition, radiated emissions I in § 15.205(a), must also comp cified in § 15.209(a)(see § 15.2	bly with the
ek Anbole h	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anbotek Anboten	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Anbotek Anbot	1.705-30.0 30-88	30 All Anbolek Anbolek	30 And
Anbote: An	88-216 216-960	150 ** 200 **	3 And
Test Limit:	Above 960 ** Except as provided in pa	500 ragraph (g), fundamental emissi	3 ons from
Anbotek Anbotek Anbotek	frequency bands 54-72 MH However, operation within t sections of this part, e.g., §		470-806 MHz. ted under other
tek Anbotek An	The emission limits shown i employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	, the tighter limit applies at the b n the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis of on measurements employing	measurements uency bands 9– ssion limits in
Anboten Anu	detector.	Anbotek Anbor	Antoliek
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		k Anbotek
Procedure:	ANSI C63.10-2020 section	101 191	

8.1. EUT Operation

Operating Environment:

1: TX mode: Keep the EUT in continuously transmitting mode with GFSK Test mode: modulation.

8.2. Test Setup



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Report No.:1812C40062312501 FCC ID:2AH9Q-K01201

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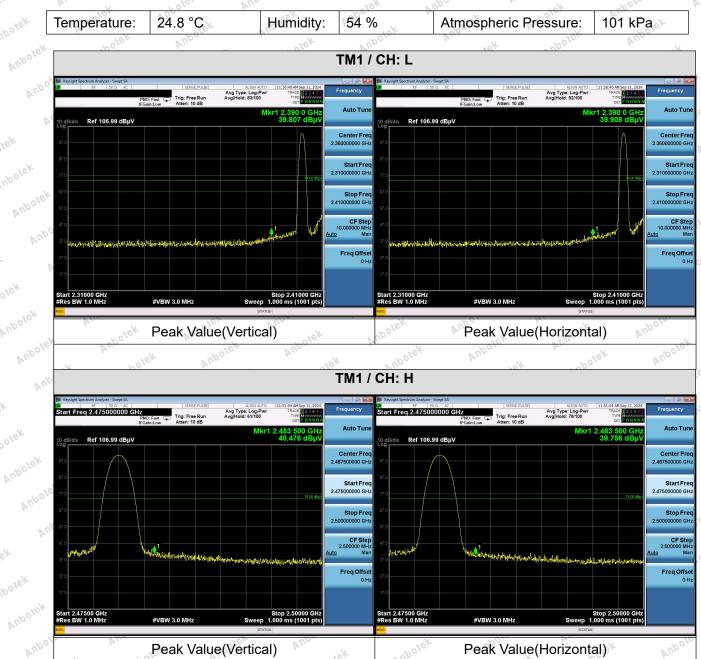
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8.3. Test Data



Remark:

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

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Anbotek 9. Emissions in frequency bands (below 1GHz)

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Test Requirement:	restricted bands, as define), In addition, radiated emissions d in § 15.205(a), must also com ecified in § 15.209(a)(see § 15.2	ply with the
otek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
lek nbolek	0.009-0.490	2400/F(kHz)	300,001
Anbore An	0.490-1.705	24000/F(kHz)	30 tek
botek Anbo	1.705-30.0	30 All	30 And
Au.	30-88	100 **	3 noter
Anbors Ar.	88-216	150 **	3
k hotek	216-960	200 **	3 tek Anbo
est Limit:	Above 960	│ 500 aragraph (g), fundamental emiss	3
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek tek Anbotek Anbotek nbotek Anbotek	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	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 in the above table are based on peak detector except for the free above 1000 MHz. Radiated emis ed on measurements employing	470-806 MHz. ted under other band edges. measurements quency bands 9– ssion limits in
Fest Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 I		Anborek Anborek
Procedure:	ANSI C63.10-2020 section	190	

9.1. EUT Operation

Operating Environment:

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1: TX mode: Keep the EUT in continuously transmitting mode with GFSK Test mode: modulation. Anbo

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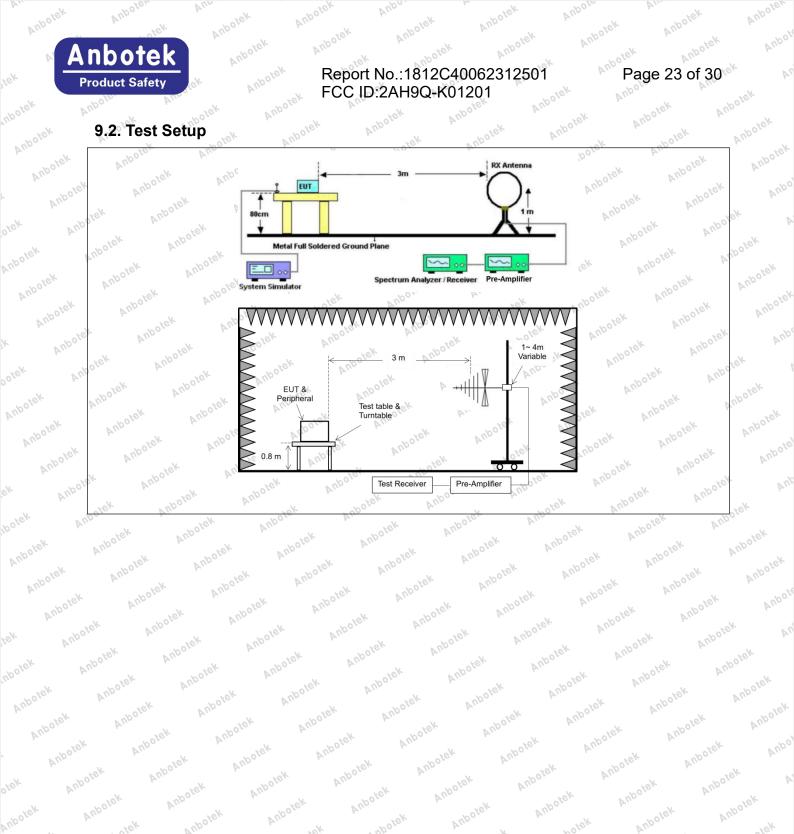


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9.3. Test Data

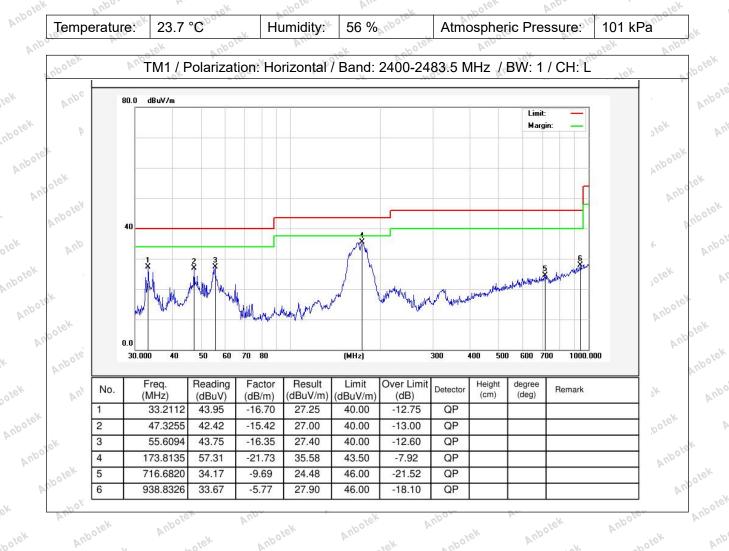
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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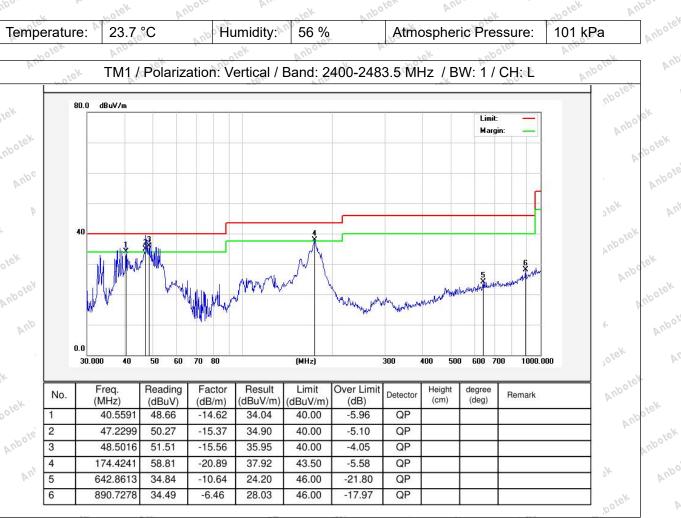
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Note: Only the worst case data was showed in the report. Anbotek

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10. Emissions in frequency bands (above 1GHz)

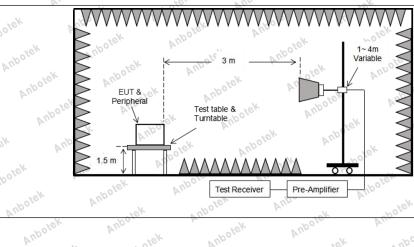
Procedure:	ANSI C63.10-2020 section	10 × 10 ×	tek hote
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		k Ano aborek
Anbotek Anbotek	90 kHz, 110–490 kHz and a	above 1000 MHz. Radiated emised on measurements employing	sion limits in
an Anb stek		in the above table are based on beak detector except for the freq	M. And
All stok Al		, the tighter limit applies at the b	
nbotek Anbol	sections of this part, e.g., §		
Anbotek Anbote	frequency bands 54-72 MH	z, 76-88 MHz, 174-216 MHz or hese frequency bands is permit	470-806 MHz.
Test Limit:		ragraph (g), fundamental emissi ing under this section shall not b	
oter And	Above 960	500 poter p	3
A. Lotek	216-960	200 **	3 tek Anb
k nbotek Ant	88-216	150 **	3
Anboten And	1.705-30.0	30 http://www.cet	30 And
Anbur hote	0.490-1.705	24000/F(kHz)	30 storek
An-	0.009-0.490	2400/F(kHz)	300,000
botek Anboter	All otek Anbotek	(microvolts/meter)	(meters)
stek Anbo	Frequency (MHz)	Field strength	Measurement distance
Anbo	in § 15.209(a)(see § 15.205	5(c)) jek Anbore An	hotek Anbo
Test Requirement:	in § 15.205(a), must also co	omply with the radiated emissior	limits specified

10.1. EUT Operation

Operating Environment:

1: TX mode: Keep the EUT in continuously transmitting mode with GFSK Test mode: modulation.

10.2. Test Setup



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10.3. Test Data

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Temperature:	22.7 °C	Humidity:	48.9 %	Atmospheric	Pressure:	101 kPa
bolek	Anbor	All alok	Anboter	P.C.	abotek	Anbo
		-	TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarizatio
4804.00	28.89	15.27	44.16	74.00	-29.84	Vertical
7206.00	28.88	18.09	46.97	74.00	-27.03	Vertical
9608.00	29.88	23.76	53.64	74.00	-20.36	Vertical
12010.00	A#10010	An	Anboter	74.00	nbotek	Vertical
14412.00	ek * nbote	AND	toda you	74.00	× ~ ~	Vertical
4804.00	28.52	ot ^{ek} 15.27 An ^{bo}	43.79	74.00	o ^{ven} -30.21 ^{And}	Horizonta
7206.00	29.57	18.09	17.66 ¹⁰ 47.66	74.00	-26.34	Horizonta
9608.00	28.30	23.76	52.06	74.00	-21.94	Horizonta
12010.00	botek.	Amboro	An	74.00	Ann	Horizonta
14412.00	All *	Anbotek	And	74.00	Anboter	Horizonta
Average value: Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4804.00	17.16	15.27	32.43	54.00	-21.57	Vertical
7206.00	17.93	18.09	36.02	54.00	-17.98	Vertical
9608.00	19.35	23.76	43.11	54.00	-10.89	Vertical
12010.00	* Anbore	Alle	k Aupoter	54.00	Node No	Vertical
14412.00	tek * nbot	sk Aupo	de de	xe ^k 54.00 x ^{nbo}	, A.	Vertical
4804.00	16.85	ote 15.27 pm	32.12	54.00	^{رور -} 21.88	Horizonta
7206.00	18.60	18.09	36.69	54.00	-17.31	Horizonta
9608.00	17.81	23.76	41.57	54.00	-12.43	Horizonta
12010.00	* tek	Anboren	Ann	54.00	And	Horizonta
14412.00	P.C*	Anbolek	Aupo	54.00	Anboter	Horizonta

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Peak value:						
Frequency	Reading	Factor	Result	Limit Line	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
4880.00	28.44	15.42	43.86	74.00	-30.14	Vertical
7320.00	28.85	18.02 NOV	46.87	74.00	-27.13 m ^{bo}	Vertical
9760.00	o ^{tek} 29.38 A ^{nb}	23.80	otet 53.18 pm	74.00	-20.82	Vertical N
12200.00	hotek *	nboto A	atek	74.00	no	Vertical
14640.00	Ans *ek	Anbotek	Aupo	74.00	Anboten	Vertical
4880.00	28.33	15.42	43.75	74.00	-30.25	Horizontal
7320.00	29.44	18.02	47.46	74.00	-26.54	Horizontal
9760.00	28.02	23.80	51.82	74.00	-22.18	Horizontal
12200.00	*	otek Anbo	to. Au.	74.00	oten And	Horizontal
14640.00	bote. * Vu.	. 10 ^K	hotek Ar	74.00	abotek p	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	17.25	15.42	32.67	54.00	-21.33	Vertical
7320.00	17.79 mbo	18.02	35.81 m ⁰	54.00	-18.19	Vertical ^{nt}
9760.00	19.20 M	23.80 And	43.00	54.00 M	-11.00	Vertical
12200.00	*	abotek	Aupo. M	54.00	Anbote	Vertical
14640.00	Aupor *	p	Anboten	54.00	nbotek	Vertical
4880.00	16.96	15.42	32.38	54.00	-21.62	Horizontal
7320.00	18.95	18.02	36.97	54.00	-17.03	Horizontal
9760.00 ⁰⁰⁰⁰	18.11	23.80,000	41.91	54.00	-12.09	Horizontal
12200.00	let * Aupo	to Age	otek Anbr	54.00	hotek An	Horizontal
14640.00	wolek * A	100 P.C.	-otek	54.00	10	Horizontal
Anbote. P	Anbotek	Anbotek	Anbotek	Anbotek	Aupore	Anbolek
Annotek	Ann	botek	Ano	K. Jek	Aupor	Pr.

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eak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.57	15.58	44.15	74.00	-29.85	Vertical
7440.00 pote	29.01	17.93	46.94	74.00	-27.06 no ^{ot}	Vertical
9920.00	otet 30.08 Mainto	23.83	53.91	o ^{ven} 74.00 ^{kno}	-20.09	Vertical M
12400.00	*	nbotek Ar	100	74.00	nbort A	Vertical
14880.00	Anbo *	hotek	Anbore	74.00	Anboten	Vertical
4960.00	28.47	15.58	44.05	74.00	-29.95	Horizontal
7440.00	29.65	17.93	47.58	74.00	-26.42	Horizontal
9920.00	28.40	23.83	52.23	74.00	-21.77	Horizontal
12400.00	* And	N NO	tek Aupo	74.00	stek Anbo	Horizontal
.0. P.'		101 101		de de	v	N
14880.00	potek * Anb	oter And	hotek Ar	74.00 And	alek n	Horizontal
001 101	potek * And	-k Gfei, - Mun	hotek Ar	10 10	stek v	
14880.00	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	10 10	Over Limit (dB)	
14880.00 Average value: Frequency	Reading		Result	Limit	Over Limit	Horizontal
14880.00 Average value: Frequency (MHz)	Reading (dBuV)	(dB/m)	Result (dBuV/m)	274.00 Limit (dBuV/m)	Over Limit (dB)	Horizontal
14880.00 Average value: Frequency (MHz) 4960.00	Reading (dBuV) 18.37	(dB/m) 15.58	Result (dBuV/m) 33.95	74.00 Limit (dBuV/m) 54.00	Over Limit (dB) -20.05	Horizontal polarization Vertical
14880.00 Average value: Frequency (MHz) 4960.00 7440.00	Reading (dBuV) 18.37 19.06 19.85 *	(dB/m) 15.58 17.93	Result (dBuV/m) 33.95 36.99	74.00 Limit (dBuV/m) 54.00 54.00	Over Limit (dB) -20.05 -17.01	Horizontal polarization Vertical Vertical
14880.00 Average value: Frequency (MHz) 4960.00 7440.00 9920.00	Reading (dBuV) 18.37 19.06 19.85	(dB/m) 15.58 17.93 23.83	Result (dBuV/m) 33.95 36.99	74.00 Limit (dBuV/m) 54.00 54.00 54.00	Over Limit (dB) -20.05 -17.01	Horizontal polarization Vertical Vertical Vertical
14880.00 Average value: Frequency (MHz) 4960.00 7440.00 9920.00 12400.00	Reading (dBuV) 18.37 19.06 19.85 *	(dB/m) 15.58 17.93 23.83	Result (dBuV/m) 33.95 36.99	74.00 Limit (dBuV/m) 54.00 54.00 54.00 54.00	Over Limit (dB) -20.05 -17.01 -10.32	Horizontal polarization Vertical Vertical Vertical
14880.00 Average value: Frequency (MHz) 4960.00 7440.00 9920.00 12400.00 14880.00	Reading (dBuV) 18.37 19.06 19.85 *	(dB/m) 15.58 17.93 23.83	Result (dBuV/m) 33.95 36.99 43.68	74.00 Limit (dBuV/m) 54.00 54.00 54.00 54.00 54.00	Over Limit (dB) -20.05 -17.01 -10.32	Horizontal polarization Vertical Vertical Vertical Vertical Vertical
14880.00 Average value: Frequency (MHz) 4960.00 7440.00 9920.00 12400.00 14880.00 4960.00	Reading (dBuV) 18.37 19.06 19.85 * * 18.14	(dB/m) 15.58 17.93 23.83 45.58	Result (dBuV/m) 33.95 36.99 43.68 33.72	74.00 Limit (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00	Over Limit (dB) -20.05 -17.01 -10.32 -20.28	Horizontal polarization Vertical Vertical Vertical Vertical Vertical Horizontal
14880.00 Average value: Frequency (MHz) 4960.00 7440.00 9920.00 12400.00 14880.00 4960.00 7440.00	Reading (dBuV) 18.37 19.06 19.85 * * 18.14 19.75	(dB/m) 15.58 17.93 23.83 15.58 17.93	Result (dBuV/m) 33.95 36.99 43.68 33.72 37.68	74.00 Limit (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Over Limit (dB) -20.05 -17.01 -10.32 -20.28 -16.32	Horizontal polarization Vertical Vertical Vertical Vertical Vertical Horizontal Horizontal

Remark:

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botek Result =Reading + Factor 1.

Anbotek , nbotek Test frequency are from 1GHz to 25GHz, "*" means the test results were attenuated more than 2. 20dB below the permissible limits, so the results don't record in the report.

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APPENDIX I -- TEST SETUP PHOTOGRAPH

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Please refer to separated files Appendix I -- Test Setup Photograph RF

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APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

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Please refer to separated files Appendix III -- Internal Photograph Anbotek

> Anbote Anbotek End of Report Anbo

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