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FCC Test Report

Applicant : Grastron Technology CO., LTD

401 Building#B Dingxin Science and

Address Technology Park, Honglangbei #2 Road, Xin'an

street, Baoan district, Shenzhen, Guangdong

Province, 518101, China

Product Name : BYOM Wireless Conference System

Report Date : Jan. 19, 2024

Shenzhen Anbotek Compliance Laboratory Limited
*Approved**





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Hotline



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TEST REPORT

Grastron Technology CO., LTD Applicant

Grastron Technology CO., LTD Manufacturer

BYOM Wireless Conference System Product Name

WMB-P35 Test Model No.

WU-20, WU-21, WU-22, WU-23, WU-24, WU-25, WU-26, WU-27, WU-28,

WU-29, WMB-P30, WMB-P31, WMB-P32, WMB-P33, WMB-P34, WMB-Reference Model No.

P36, WMB-P37, WMB-P38, WMB-P39

Trade Mark

Input: 12V == 3A Rating(s)

> 47 CFR Part 15E ANSI C63.10-2020

Test Standard(s) KDB 662911 D01 Multiple Transmitter Output v02r01

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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:	Dec. 12, 2023
Date of Test:	Dec. 12, 2023 ~ Jan. 05, 2024
	Nian xiu Chen
Prepared By:	the potek Aupo K. Josek Au
potek Anbotek Anbotek Anbotek	(Nianxiu Chen)
	Idward pan
Approved & Authorized Signer:	ek Anbore An
Mupo, W. Wotek Aupoter Aug	(Edward Pan)







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Revision History

Report Version	Description	Issued Date
Anbore R00 potek An	Original Issue.	Jan. 19, 2024
k Anborek Anborek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb
ore Ambotek Anbotek	Anbotek Anbotek Anbot	rek Anbotek Anbotek





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1. General Information

1.1. Client Information

Applicant	Î:	Grastron Technology CO., LTD
Address	:	401 Building#B Dingxin Science and Technology Park,Honglangbei #2 Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province, 518101, China
Manufacturer	:	Grastron Technology CO., LTD
Address	:	401 Building#B Dingxin Science and Technology Park,Honglangbei #2 Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province, 518101, China
Factory	:	Grastron Technology CO., LTD
Address	:	401 Building#B Dingxin Science and Technology Park,Honglangbei #2 Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province, 518101, China

1.2. Description of Device (EUT)

Product Name	:	BYOM Wireless Conference System				
Test Model No.	:	WMB-P35				
Reference Model No.	:	WU-20, WU-21, WU-22, WU-23, WU-24,WU-25, WU-26, WU-27, WU-28, WU-29, WMB-P30, WMB-P31, WMB-P32, WMB-P33, WMB-P34, WMB-P36, WMB-P37, WMB-P38, WMB-P39 (Note: All samples are the same except the model number and appearance color, so we prepare "WMB-P35" for test only.)				
Trade Mark	:	N/A stek Anbotek Anbote Anbotek Anbotek				
Test Power Supply	:	AC 120V/60Hz for Adapter				
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)				
Adapter	:	Manufacturer: Dong Guan City GangQi Electronic Co., Ltd Model: GQ36-120300-AX Input: 100-240V~ 50/60Hz 1.0A Max Output: 12.0V— 3.0A 36.0W				
RF Specification						
Operation Frequency	:	802.11a/n(HT20)/ac(HT20): NII Band 1: 5180MHz to 5240MHz; NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40): NII Band 1: 5190MHz to 5230MHz; NII Band 3: 5755MHz to 5795MHz; 802.11ac(HT80): NII Band 1: 5210MHz; U-NII Band 3: 5775MHz				
Number of Channel	:	802.11a/n(HT20)/ac(HT20): NII Band 1: 4;				









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DOTO ALL		arek and arek born All
		NII Band 3: 5;
		802.11n(HT40)/ac(HT40):
		NII Band 1: 2;
		NII Band 3: 2;
		802.11ac(HT80):
		NII Band 1: 1;
		U-NII Band 3: 1
Modulation Type	:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
Antenna Type	:	Rod Antenna
Antonna Cain(Dook)		WiFi 5.2G: 1.75 dBi
Antenna Gain(Peak)	•	WiFi 5.8G: 3.88 dBi
P'Danasantic' v		

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.





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1.3. Auxiliary Equipment Used During Test

Title Manufacturer		Model No.	Serial No.	
W. Vosek Auposes	And stek I nobotek	Aupo, A Air potek	Anbore / And	

1.4. Operation channel list

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	otek 38 Mbotek	5190	100 42 Ant	5210
40 otek	5200	hotek 46 Anbor	5230	and dek	Aupoles / Aug
tek 44 nbotek	5220	And hotely Ant	otek / Anbo	L hotek	Anboro. An
48	5240	Pur Pick	Aupolek / Aupon	tek Inbotek	Vupoje,

Operation Band: U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	obotek 5755 Anbote	155	5775
153	5765 both	159	5795 And	ote /Ame	. Andorok
157	Sore 5785 Anbore	Agoo	anborek 6	upore 1 Am	tek Anbotek
A-161	5805	oten / Anbo	Amorek	Anbor An	botek / Anboten
165	5825	inbore. / Anbo	tek Inbotek	Anboy A	abotek / Anbot

1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1 nbotek Anbotek	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
orek Anborek Anborek TM2 Anborek	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anbotek TM3 botek An	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.







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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Anborek Anborek
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Occupied Bandwidth	925Hz
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

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

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

1.7. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1,2,3	iek P Anbo
Duty Cycle	Mode1,2,3	hoiek P Ar
Maximum conducted output power	Mode1,2,3	anbot P
Power spectral density	Mode1,2,3	An Prek
Emission bandwidth and occupied bandwidth	Mode1,2,3	Photek
Band edge emissions (Radiated)	Mode1,2,3	ek P Anboi
Undesirable emission limits (below 1GHz)	Mode1,2,3	potek P An
Undesirable emission limits (above 1GHz)	Mode1,2,3	nbore P
Note: P: Pass	Anbotek Anbotek	Aupotek Br.

N: N/A, not applicable







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1.8. Description of Test Facility

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

FCC-Registration No.: 434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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

1.9. Disclaimer

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

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





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1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupo	k spotel	Anbore	An
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
2 5016K	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	Anborotek

Duty Cycle

Maximum conducted output power

Power spectral density
Emission bandwidth and

Emission bandwidth and occupied bandwidth

Emis	sion bandwidth and d	occupied bandwidth	- Yek	700,	- N	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 _{An} l	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3/	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
An4ore	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5nb	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

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400-003-0500



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	edge emissions (Ra		Anborok	Auporg	Aurotek	Aupotek Ar
Unde	sirable emission limi	ts (above 1GHz)	borek	Aupo.	h. Hek	Cupole.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
7 ¹⁰ 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	Aupolok
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Unde	sirable emission limit	ts (below 1GHz)	Anbore.	Anshotek	Anboiek	Anbo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
40tel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5,00	EMI Test Software EZ-EMC	SHURPLE	N/A nbor	N/A.cbott	Nupon pole	k Anbotek





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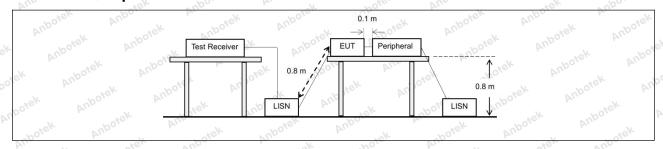
2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	ek hotek Anb	ote, but
Yung sek spotek	Frequency of emission (MHz)	Conducted limit (dBµV)	hotel Anbe
Anbo, Ai,	And Andrew And	Quasi-peak	Average
K- Lotek Anbo	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 And	56 ° A	46 300 ter
	5-30 And And	60 hotek Anbor	50
otek Anbotek	*Decreases with the logarithm of the	ne frequency.	Anbo
Test Method:	ANSI C63.10-2020 section 6.2	Anbo sek abo	stek Anbore

2.1. EUT Operation

Operating Envir	onment:					Anbore.	
Test mode:	1: 802.11a m transmitting r found the dat recorded in th 2: 802.11n m transmitting r been tested a worst case is 3: 802.11ac r continuously	node with 802. a rate @ 6Mbp ne report. ode: Keep the node with 802. and found the o recorded in the node: Keep the transmitting m	11a modulations is the worst EUT connect 11n modulation data rate @ Me e report. e EUT connect ode with 802.	to AC power library modulation data rate @ N	a rates has to a rates has to a rate of wo ne and work adwidth and rest case. Only line and work on type. All b	peen tested rst case is s in contin data rates y the data ks in andwidth a	uously has of
hoten Anbu	the data of w	orst case is red	corded in the i	report.		Y**	

2.2. Test Setup



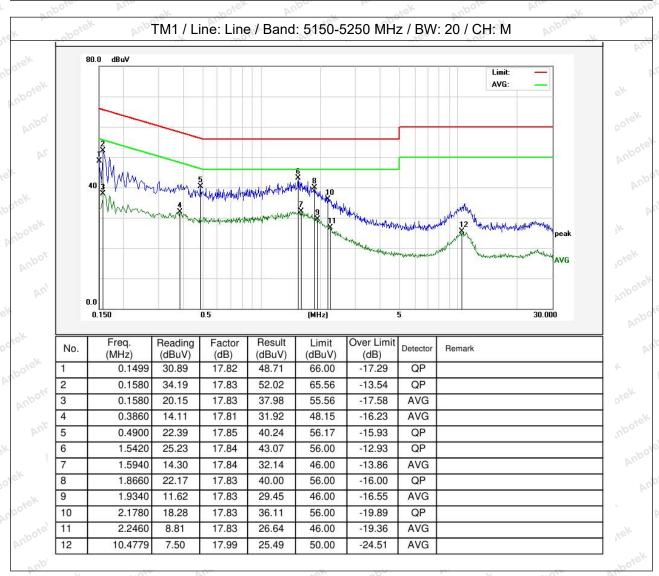




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2.3. Test Data

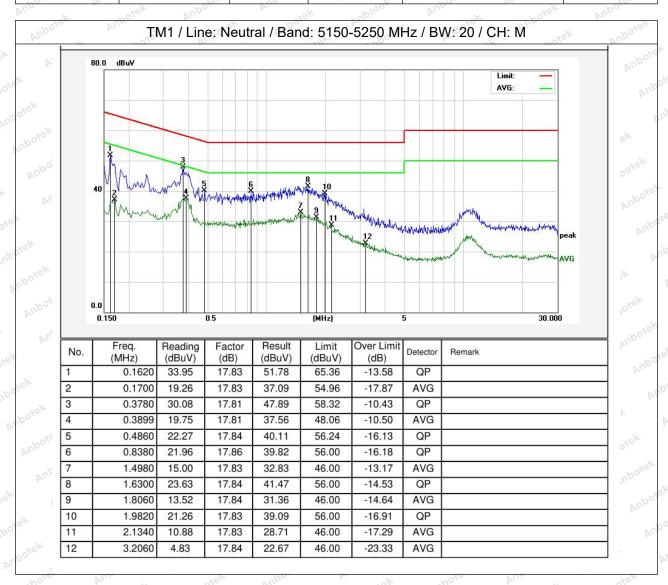
Temperature:	23.6 °C	aboter	Humidity:	54 %	hotel	Atmospheric Pressure: 101 kPa	
, L	70	D1.	,	75 S.	* Op.	K MO,	





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Temperature: 23.6 °C Humidity: 54 % Atmospheric Pressure: 101 kPa

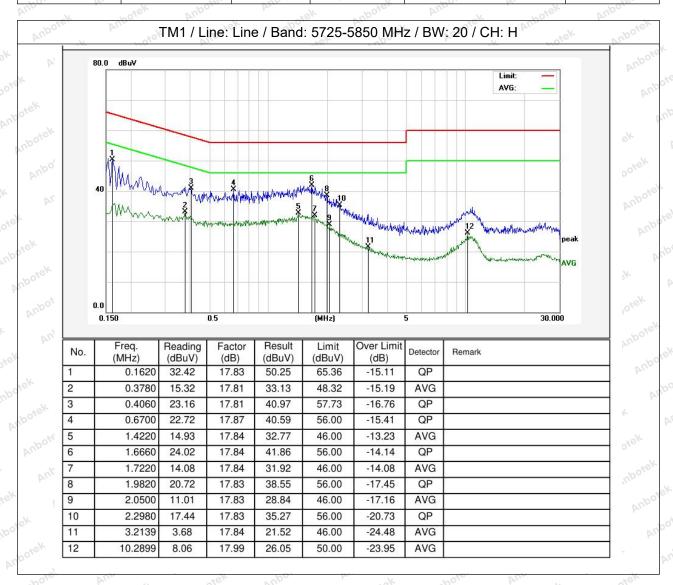






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Temperature: 23.6 °C Humidity: 54 % Atmospheric Pressure: 101 kPa

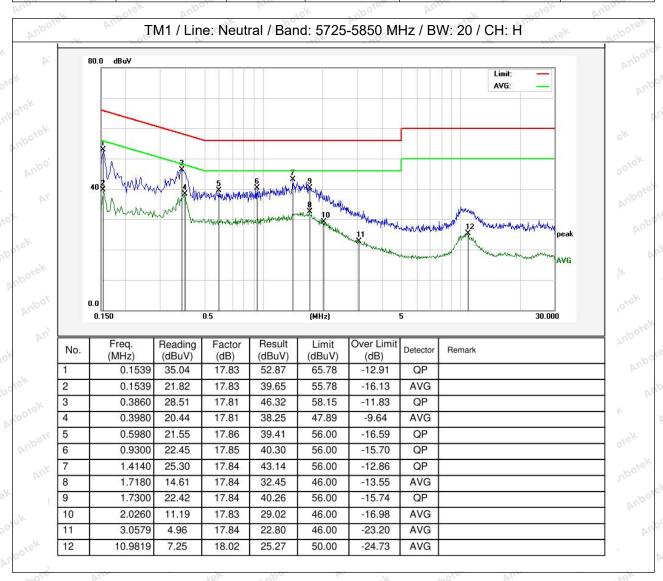






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Temperature: 23.6 °C Humidity: 54 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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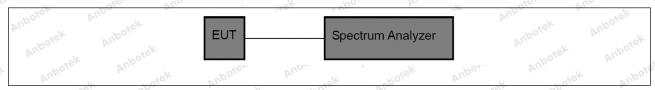
3. Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Limit:	No limits, only for report use.
Test Method:	ANSI C63.10-2020 section 12.2 (b)
Anborek Anborek Procedure:	 i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW >= RBW.
otek Anbotek Anb	iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

3.1. EUT Operation

Operating Envi	ronment: Anbore Anti-
tek Anbotek	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. 2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously
Test mode:	transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
	3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

3.2. Test Setup



3.3. Test Data

Temperature: 25.4 °C	Humidity:	46 %	Atmospheric Pressure:	101 kPa	
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Please Refer to Appendix for Details.







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4. Maximum conducted output power

Procedure:	Refer to ANSI C63.10-2020 section 12.4
Test Method:	ANSI C63.10-2013, section 12.4
Test Limit: Anbotek Anbotek	If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Anbotek	47 CFR Part 15.407(a)(3)(i) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
Test Requirement:	47 CFR Part 15.407(a)(1)(iv)

4.1. EUT Operation

Operating Env	vironment:
stek Aupotek	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
Test mode:	2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anborek	3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

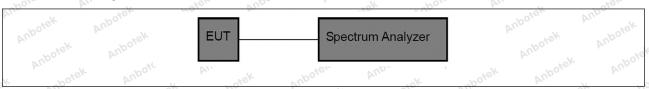






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4.2. Test Setup



4.3. Test Data

10	Tanàn araturas	25.4 °C	Llungidite	4C 0/\0010	Atmoonbaria Drassura	101 kDa
	Temperature:	25.4 °C	Humidity:	46 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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5. Power spectral density

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.
Test Limit: ek Anbotek	If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Method:	ANSI C63.10-2020, section 12.6
Procedure:	Refer to ANSI C63.10-2020, section 12.6

5.1. EUT Operation

Operating Envi	ronment: Anborek Anborek
ek Anbotek	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
Test mode:	2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
ek Anbotek	3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

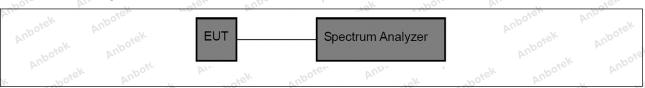






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5.2. Test Setup



5.3. Test Data

10	Tanàn araturas	25.4 °C	Llungidite	4C 0/\0010	Atmoonbaria Drassura	101 kDa
	Temperature:	25.4 °C	Humidity:	46 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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6. Emission bandwidth and occupied bandwidth

Tabolek Anbole	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Anbotek Anbot	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Limit:	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 6.9 & 12.5 KDB 789033 D02, Clause C.2
Anbotek Anbote	Emission bandwidth: a) Set RBW = approximately 1% of the emission bandwidth. b) Set the VBW > RBW. c) Detector = peak.
	d) Trace mode = max hold. e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission.
	Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
	Occupied bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The
	frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW,
Procedure:	and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the
	spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
	d) Step a) through step c) might require iteration to adjust within the specified range. e) Video averaging is not permitted. Where practical, a sample detection and
	single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be
	used. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the trace data points are









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recovered and directly summed in linear power terms. The recovered amplitude data points,

beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached:

that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the

total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is

the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument

display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may

be reported in addition to the plot(s).

6 dB emission bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 >= RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.1. EUT Operation

Operating Environment:

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

Test mode:

2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.



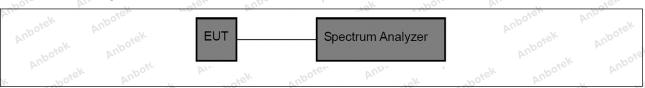






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6.2. Test Setup



6.3. Test Data

10	Tanàn araturas	25.4 °C	Llungidite	4C 0/\0010	Atmoonbaria Drassura	101 kDa
	Temperature:	25.4 °C	Humidity:	46 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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7. Band edge emissions (Radiated)

	47 CFR Part 15.407(b)(1) Anbo		
est Requirement:	47 CFR Part 15.407(b)(1))(4)		
of requirement.	47 CFR Part 15.407(b	16.1	" hotek Ar	
And the	Sec. Value	- 200'-	And Bkall	hotek A
Anbore. And	For transmitters opera			
	of the 5.15-5.35 GHz t	oand shall not exceed	I an e.i.r.p. of −2	/ dBm/MHz.
VUD.	Fotek Mbor	tion of a law in the average	NE E 0E0 CH- 64	- d. hotek
iek Anboie.	For transmitters opera			
	All emissions shall be above or below the ba			
	above or below the ba			
	edge increasing linear			
	below the band edge,			
	increasing linearly to a			
	MHz	MHz	MHz	GHz
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
	¹ 0.495-0.505	16.69475-	608-614	5.35-5.46
	0.495-0.505	16.69525	1400-014	J.30-3.40
	2.1735-2.1905	16.80425-	960-1240	7.25-7.75
	2.1733-2.1903	16.80475	900-1240	1.23-1.13 Anbov
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
	4.20725-4.20775	73-74.6	1645.5-	9.3-9.5
	otek Aupoter	Yun rek spotek	1646.5	K. Oick
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
otek Anbotek	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
est Limit:	6.31175-6.31225	123-138	2200-2300	14.47-14.5
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
aborer Anbe	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
tek aboten	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
	12.57675-12.57725	322-335.4	3600-4400	(2) Mb016
	13.36-13.41	bu.	"poles Vup.	N. Contraction
	AUBO	otek Anbore	W. Sk	spoter Aug
	¹ Until February 1, 199	9 this restricted band	l shall be 0.490-0) 510 MHz
	211.11 1 22.1 daily 1, 100	nborge 135411000 Barro	hotek 100 (Aupo
	² Above 38.6			
	rek hotek			
	The field strength of e	missions appearing w	ithin these frequ	ency bands sh
	not exceed the limits s			
	1000 MHz, compliance			
	using measurement in			
aboter Anbo	detector. Above 1000			
		strated based on the		
	10.2000Hall bu dollion			









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	intentional radiator shall n following table:	here in this subpart, the emission of exceed the field strength leve	
Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	tel 30 anbore
er Anbo	30-88	100 **	3 Sotek
tek aboten	88-216	150 **	nborg Amb
bo. by.	216-960	200 **	3,ek noot
	Above 960	500	A 7 3
	** Except as provided in p	paragraph (g), fundamental emistating under this section shall no	ssions from
		Hz, 76-88 MHz, 174-216 MHz o	
		חב, זיס-סס אוחב, דוזים-נוס אוחב נ these frequency bands is pern	
			inited under other
	sections of this part, e.g.,		a hand odges
		ve, the tighter limit applies at the n in the above table are based o	
" " " " " " " " " " " " " " " " " " "	- AP		
		-peak detector except for the fr	
		l above 1000 MHz. Radiated en sed on measurements employir	
	LUICOC UILCC DALIUO ALC DAS		an average
		sed on measurements employing	ng an average
h. Morek	detector.	otek Aupor Wr.	ng an average
st Method:		otek Aupor Wr.	ng an average
st Method:	detector.	otek Aupor Wr.	ng an average
st Method:	detector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a i	rotating table 1.5
st Method:	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a lat a 3 meter fully-anechoic cha	rotating table 1.5 mber. The table wa
st Method:	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a i	rotating table 1.5 mber. The table wa
st Method:	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a lat a 3 meter fully-anechoic cha	rotating table 1.5 mber. The table wa
otek Anborek Anborek Anborek Anborek Anborek Anborek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 meters	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a lat a 3 meter fully-anechoic chaptermine the position of the high	rotating table 1.5 mber. The table wa nest radiation. -receiving antenna
st Method: Anborek Anborek Anborek Anborek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 met which was mounted on the	UT was placed on the top of a lat a 3 meter fully-anechoic chastermine the position of the high ters away from the interference	rotating table 1.5 mber. The table wa nest radiation. -receiving antenna na tower.
st Method: Anborek Anborek Anborek Anborek Anborek Anborek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to deep b. The EUT was set 3 meters which was mounted on the c. The antenna height is well.	UT was placed on the top of a lat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference e top of a variable-height anten	rotating table 1.5 mber. The table wa nest radiation. receiving antenna ina tower. eters above the
st Method: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 met which was mounted on the c. The antenna height is viground to determine the next above 10-2020.	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference top of a variable-height antendaried from one meter to four meters.	rotating table 1.5 mber. The table wanter radiationreceiving antennation tower. eters above the angth. Both horizont
st Method: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to deep b. The EUT was set 3 meters which was mounted on the c. The antenna height is we ground to determine the neand vertical polarizations.	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference top of a variable-height antendaried from one meter to four meaning maximum value of the field strend of the antenna are set to make	rotating table 1.5 mber. The table wantest radiation. e-receiving antennationa tower. eters above the ngth. Both horizont
st Method: Anbotek Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 met which was mounted on the c. The antenna height is we ground to determine the number of the control of the c	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference e top of a variable-height antendaried from one meter to four meaximum value of the field strends of the antenna are set to make hission, the EUT was arranged	rotating table 1.5 mber. The table wantest radiation. receiving antennation tower. eters above the angth. Both horizont the measurement.
st Method: Anborek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Est meters above the ground rotated 360 degrees to destable b. The EUT was set 3 meters which was mounted on the c. The antenna height is was ground to determine the number of the control of the contr	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference top of a variable-height antendaried from one meter to four menaximum value of the field strends the antenna are set to make hission, the EUT was arranged to tuned to heights from 1 meters.	rotating table 1.5 mber. The table wanter radiation. receiving antennation tower. eters above the agth. Both horizont the measurement. to its worst case to 4 meters (for the
otek Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to dee b. The EUT was set 3 methods which was mounted on the c. The antenna height is we ground to determine the number of the control of t	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference et op of a variable-height antendaried from one meter to four menaximum value of the field strends the antenna are set to make hission, the EUT was arranged to tuned to heights from 1 meter DMHz, the antenna was tuned to	rotating table 1.5 mber. The table water radiation. receiving antennation at tower. eters above the neasurement the measurement to its worst case to 4 meters (for the oheights 1 meter)
Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to dee b. The EUT was set 3 met which was mounted on the c. The antenna height is very ground to determine the number of the control of th	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference top of a variable-height antendaried from one meter to four menaximum value of the field strends the antenna are set to make hission, the EUT was arranged to tuned to heights from 1 meters.	rotating table 1.5 mber. The table wanter radiation. receiving antennation and tower. eters above the neasurement. the measurement to its worst case to 4 meters (for the oheights 1 meter)
Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to dee b. The EUT was set 3 met which was mounted on the c. The antenna height is very ground to determine the number and vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading.	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic charactermine the position of the high ters away from the interference top of a variable-height antendaried from one meter to four menaximum value of the field strends the antenna are set to make hission, the EUT was arranged to tuned to heights from 1 meter DMHz, the antenna was tuned to set turned from 0 degrees to 360 meters.	rotating table 1.5 mber. The table wantest radiation. e-receiving antennation and tower. eters above the nearment the measurement to its worst case to 4 meters (for the oheights 1 meter) degrees to find the measurement to the measurement to its worst case to 4 meters (for the oheights 1 meter)
Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to dee b. The EUT was set 3 met which was mounted on the c. The antenna height is we ground to determine the number and vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference e top of a variable-height antendaried from one meter to four meaning maximum value of the field strend the antenna are set to make hission, the EUT was arranged to tuned to heights from 1 meter DMHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Function	rotating table 1.5 mber. The table wantest radiation. e-receiving antennation and tower. eters above the nearment the measurement to its worst case to 4 meters (for the oheights 1 meter) degrees to find the measurement to the measurement to its worst case to 4 meters (for the oheights 1 meter)
otek Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 met which was mounted on the c. The antenna height is we ground to determine the number and vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference et op of a variable-height antendaried from one meter to four meaximum value of the field strends the antenna are set to make hission, the EUT was arranged at tuned to heights from 1 meter DMHz, the antenna was tuned the sturned from 0 degrees to 360 m was set to Peak Detect Function Hold Mode.	rotating table 1.5 mber. The table wantest radiation. e-receiving antennational tower. eters above the negth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter) degrees to find the tion and Specified
Jotek Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 met which was mounted on the c. The antenna height is we ground to determine the number and vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the section of the	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference et op of a variable-height antendaried from one meter to four meaximum value of the field strends the antenna are set to make hission, the EUT was arranged at tuned to heights from 1 meter DMHz, the antenna was tuned to set turned from 0 degrees to 360 m was set to Peak Detect Function Hold Mode. The provided the top of a rate of the top of the antenna was tuned to the set turned from 1 degrees to 360 m was set to Peak Detect Function Hold Mode. The provided top of a rate of the top of t	rotating table 1.5 mber. The table wantest radiation. receiving antennational tower. eters above the neath Both horizont the measurement. to its worst case to 4 meters (for the oheights 1 meter) degrees to find the tion and Specified B lower than the
otek Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 met which was mounted on the c. The antenna height is viground to determine the number and vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the limit specified, then testing	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference et op of a variable-height antendraried from one meter to four menaximum value of the field strends the antenna are set to make hission, the EUT was arranged to tuned to heights from 1 meter DMHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Function Hold Mode. The Hold Mode was 10ding could be stopped and the peak	rotating table 1.5 mber. The table wanter radiationreceiving antennation and tower. eters above the negth. Both horizont the measurement to its worst case to 4 meters (for the oheights 1 meter) degrees to find the tion and Specified B lower than the ak values of the EL
otek Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 met which was mounted on the c. The antenna height is viground to determine the number and vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. be and the emission level of the limit specified, then testing would be reported. Otherwoods	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference et op of a variable-height antendaried from one meter to four menaximum value of the field strends the antenna are set to make hission, the EUT was arranged to tuned to heights from 1 meter DMHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Function Hold Mode. The EUT in peak mode was 10d grould be stopped and the peak wise the emissions that did not the start and the start and the peak wise the emissions that did not the start and the peak wise the emissions that did not the start and the peak wise the emissions that did not the start and the peak wise the emissions that did not the start and the peak wise the emissions that did not the start and the peak wise the emissions that did not the start and the peak wise the emissions that did not the start and the peak wise the emissions that did not the start and the peak wise the start and the peak wise the emissions that did not the peak wise the start and the peak wise the emissions that did not the peak wise the start and the peak wise the emissions that did not the peak wise the	rotating table 1.5 mber. The table wantest radiation. e-receiving antennation at tower. eters above the negth. Both horizont the measurement to its worst case to 4 meters (for the oheights 1 meter) degrees to find the tion and Specified B lower than the ak values of the EU have 10dB margin
Anbotek	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 met which was mounted on the c. The antenna height is viground to determine the number and vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. be and the emission level of the limit specified, then testing would be re-tested one by	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference et op of a variable-height antendaried from one meter to four menaximum value of the field strends the antenna are set to make hission, the EUT was arranged to tuned to heights from 1 meter DMHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Function Hold Mode. The EUT in peak mode was 10ding could be stopped and the peak wise the emissions that did not a one using peak or average meters.	rotating table 1.5 mber. The table wantest radiation. e-receiving antennation at tower. eters above the negth. Both horizont the measurement to its worst case to 4 meters (for the oheights 1 meter) degrees to find the tion and Specified B lower than the ak values of the EU have 10dB margin
st Method:	ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 met which was mounted on the c. The antenna height is we ground to determine the number and vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the limit specified, then testing would be re-tested one by and then reported in a data.	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chartermine the position of the high ters away from the interference et op of a variable-height antendaried from one meter to four menaximum value of the field strends the antenna are set to make hission, the EUT was arranged to tuned to heights from 1 meter DMHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Function Hold Mode. The EUT in peak mode was 10ding could be stopped and the peak wise the emissions that did not a one using peak or average meters.	rotating table 1.5 mber. The table wantest radiation. e-receiving antennational tower. eters above the night. Both horizont the measurement to its worst case to 4 meters (for the oheights 1 meter) degrees to find the edge of the EL have 10dB marginethod as specified

Shenzhen Anbotek Compliance Laboratory Limited



h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst



case.

channel.



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- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

7.1. EUT Operation

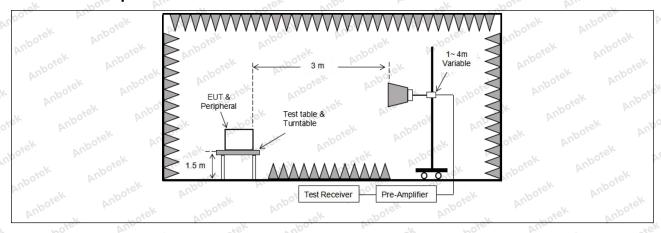
Operating Environment:

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

Test mode:

- 2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

7.2. Test Setup









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7.3. Test Data

Temperature: 25.4 °C Humidity: 46 % Atmospheric Pressure: 101 kP	T	spheric Pressure: 101 kPa	perature: 25.4 °C Humidity
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WiFi 5.2G:

VVII 1 0.20.			700	- Shair	- AD	Pre-	
			TM ²	1 / L			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	37.12	15.99	53.11	68.20	-15.09	Anboter H	Peak
5150.00	39.22	15.99	55.21	68.20	-12.99	VUA. A. J. S.	Peak
5150.00	27.02	15.99	43.01	54.00	-10.99	Hupotek	AVG
5150.00	29.11	15.99	45.10	54.00	-8.90	tek V Anboi	AVG
			TM′	I / H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.53	16.43	53.96	68.20	-14.24	An Hren	Peak
5250.00	40.56	16.43	56.99	68.20	-11.21	Vpotek	Peak
5250.00	28.90	16.43	45.33	54.00	-8.67	H work	AVG
5250.00	29.75	16.43	46.18	54.00	-7.82 no	V	AVG N

Remark: 1. Result=Reading + Factor

		Jpo,					vopo.
			TM	2 / L			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.01	15.99 (b)	52.00	68.20 68.20 G	-16.20	Lek H	orek Peak
5150.00	37.44	15.99 AN	53.43	68.20	-14.77 M	o, K	Peak
5150.00	26.73	15.99	42.72	54.00	-11.28	Aupor H	AVG
5150.00	27.71	15.99	43.70	54.00	-10.30	Aup A	AVG
			TM	2 / H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.86	ote 16.43 And	54.29	68.20	-13.91 PM	Н	Peak
5250.00	38.87	16.43	55.30	68.20	-12.90	Aupolo V	Peak
5250.00	27.90	16.43	44.33	54.00	-9.67	Anboien	AVG
5250.00	29.40	16.43	45.83	54.00	-8.17	Votek	AVG

Remark: 1. Result=Reading + Factor







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			TM	3 / L			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	37.10	15.99	53.09	68.20	-15.11	AA H	Peak
5150.00	38.87	15.99	54.86	68.20	-13.34	Nupo.	Peak
5150.00	26.64 ^{7/000}	15.99	42.63	54.00	-11.37 ₍₁₀	otek H Anbo	AVG
5150.00	28.89 M	15.99	44.88	54.00	-9.12	nbotek V Ar	AVG
			TM3	3 / H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.96	16.43	54.39	68.20	-13.81	Hup	Peak
5250.00	38.20	16.43	54.63	68.20	-13.57	iek A Vupo,	Peak
5250.00	27.90	16.43	44.33	54.00	-9.67	hotel H An	AVG AM
5250.00	28.52	16.43	44.95	54.00	-9.05	V	AVG
- 1/2	NO.		_10	V 27.		- VV	Part -

Remark: 1. Result=Reading + Factor

WiFi 5.8G:

h	~ ~ ~ ~ ~ ~	VUL	-xe	K 2000.	h.,	_VV
		TM ²	1 / L			
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
38.23	16.37	54.60	68.20	-13.60	Aupore H	Peak
39.63	16.37	56.00	68.20	-12.20	AnbView	Peak
29.08	16.70	45.78	54.00	-8.22	Hooish	AVG
30.19	16.70	46.89	54.00	-7.11	sk Andore	AVG
		TM ²	1 / H			
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
39.19	17.21	56.40	68.20	-11.80	Anb H	Peak
39.56	17.21	56.77	68.20	-11.43	Notek	Peak
29.16	17.21	46.37	54.00	-7.63	K H abotel	AVG
29.16	× 17.21,0016	46.37	54.00	-7.63°	V	AVG
	(dBuV) 38.23 39.63 29.08 30.19 Reading (dBuV) 39.19 39.56 29.16	(dBuV) (dB/m) 38.23 16.37 39.63 16.37 29.08 16.70 30.19 16.70 Reading (dBuV) (dBwV) (dB/m) 39.19 17.21 39.56 17.21 29.16 17.21	Reading (dBuV) Factor (dB/m) Result (dBuV/m) 38.23 16.37 54.60 39.63 16.37 56.00 29.08 16.70 45.78 30.19 16.70 46.89 TM* Reading (dBuV) Factor (dB/m) Result (dBuV/m) 39.19 17.21 56.40 39.56 17.21 56.77 29.16 17.21 46.37	(dBuV) (dB/m) (dBuV/m) (dBuV/m) 38.23 16.37 54.60 68.20 39.63 16.37 56.00 68.20 29.08 16.70 45.78 54.00 30.19 16.70 46.89 54.00 TM1 / H Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) 39.19 17.21 56.40 68.20 39.56 17.21 56.77 68.20 29.16 17.21 46.37 54.00	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) 38.23 16.37 54.60 68.20 -13.60 39.63 16.37 56.00 68.20 -12.20 29.08 16.70 45.78 54.00 -8.22 30.19 16.70 46.89 54.00 -7.11 TM1 / H Reading (dBuV) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) 39.19 17.21 56.40 68.20 -11.80 39.56 17.21 56.77 68.20 -11.43 29.16 17.21 46.37 54.00 -7.63	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 38.23 16.37 54.60 68.20 -13.60 H 39.63 16.37 56.00 68.20 -12.20 V 29.08 16.70 45.78 54.00 -8.22 H 30.19 16.70 46.89 54.00 -7.11 V TM1 / H Reading (dBuV) (dB/m) (dB/m) (dB/m) (dBuV/m) (dBuV/m) (dBuV/m) (dB) Over limit (dBuV/m) Pol. Antenna Pol. 39.19 17.21 56.40 68.20 -11.80 H 39.56 17.21 56.77 68.20 -11.43 V 29.16 17.21 46.37 54.00 -7.63 H

Remark: 1. Result=Reading + Factor





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PLO PL		Nick V.	Upo L.	You	1000	74
		TM2	2 / L			
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
38.21	17.05	55.26	68.20	-12.94	k Hupote	Peak
38.80 NON	17.05	55.85	68.20	-12.35	otek V Anb	Peak
27.63	otel 17.05 And	44.68	54.00	-9.32	H	AVG
28.17	17.05	45.22	54.00	-8.78	V.	AVG
		TM2	2 / H		, , , , , , , , , , , , , , , , , , , ,	
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.43	17.21	54.64	68.20	-13.56	tek H No	Peak
38.02	otek 17.21 Anbo	55.23	68.20	-12.97	V V	Peak
27.71	17.21	44.92	54.00	-9.08	H b	AVG
28.52	17.21	45.73	54.00	-8.27	Anboro	AVG
	(dBuV) 38.21 38.80 27.63 28.17 Reading (dBuV) 37.43 38.02 27.71	(dBuV) (dB/m) 38.21 17.05 38.80 17.05 27.63 17.05 28.17 17.05 Reading (dBuV) (dB/m) 37.43 17.21 38.02 17.21 27.71 17.21	Reading (dBuV) Factor (dB/m) Result (dBuV/m) 38.21 17.05 55.26 38.80 17.05 55.85 27.63 17.05 44.68 28.17 17.05 45.22 TM2 Reading (dBuV) Factor (dB/m) Result (dBuV/m) 37.43 17.21 54.64 38.02 17.21 55.23 27.71 17.21 44.92	(dBuV) (dB/m) (dBuV/m) (dBuV/m) 38.21 17.05 55.26 68.20 38.80 17.05 55.85 68.20 27.63 17.05 44.68 54.00 28.17 17.05 45.22 54.00 TM2 / H Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) 37.43 17.21 54.64 68.20 38.02 17.21 55.23 68.20 27.71 17.21 44.92 54.00	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) 38.21 17.05 55.26 68.20 -12.94 38.80 17.05 55.85 68.20 -12.35 27.63 17.05 44.68 54.00 -9.32 28.17 17.05 45.22 54.00 -8.78 TM2 / H Reading (dBuV) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) 37.43 17.21 54.64 68.20 -13.56 38.02 17.21 55.23 68.20 -12.97 27.71 17.21 44.92 54.00 -9.08	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 38.21 17.05 55.26 68.20 -12.94 H 38.80 17.05 55.85 68.20 -12.35 V 27.63 17.05 44.68 54.00 -9.32 H 28.17 17.05 45.22 54.00 -8.78 V TM2 / H Reading (dBuV) (dB/m) (dB/m) (dB/m) (dBuV/m) (dBuV/m) (dB) Over limit (dBuV/m) Antenna Pol. Antenna Pol. 37.43 17.21 54.64 68.20 -13.56 H 38.02 17.21 55.23 68.20 -12.97 V 27.71 17.21 44.92 54.00 -9.08 H

Remark: 1. Result=Reading + Factor

			TM:	3 / L			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.42	17.05	54.47	68.20	-13.73	Anbo. H	Peak
5725.00	37.55	17.05	54.60	68.20	-13.60	Vupo,	Peak
5725.00	28.33	17.05	45.38	54.00	-8.62	H	AVG
5725.00	29.16	17.05	46.21	54.00	-7.79 bot	Sk Aupore	AVG
			TM	3 / H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.16	17.21	55.37	68.20	-12.83	Pup H	Peak
5850.00	39.04	17.21	56.25	68.20	-11.95	AVO TO	Peak
5850.00	28.03	17.21	45.24	54.00	-8.76	k Hupote	AVG
5850.00	29.12	17.21	46.33	54.00	-7.67	ek V	AVG AND

Remark: 1. Result=Reading + Factor





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8. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	And abotek Ant	or Air
Aupotek Vupote	Unwanted emissions below strength limits set forth in §	v 1 GHz must comply with the g 3 15.209.	eneral field
		ere in this subpart, the emission of exceed the field strength level	
Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30 poles Ano	30 Nex
	30-88	100 **	3 And
Test Limit:	88-216	150 **	4 3 Anbore
	216-960	200 **	3 Joseph
	Above 960	500	3 And
	sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	these frequency bands is permits 15.231 and 15.241. e, the tighter limit applies at the in the above table are based or peak detector except for the free above 1000 MHz. Radiated emits and measurements employing	band edges. n measurements quency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020, section	n 12.7.4, 12.7.5	Vupo.
Procedure: Anborek Anborek	meters above the ground a was rotated 360 degrees to b. The EUT was set 3 or 10 antenna, which was mound c. The antenna height is varying ground to determine the mand vertical polarizations of d. For each suspected emit and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system	IT was placed on the top of a roat a 3 meter semi-anechoic char determine the position of the hometers away from the interference on the top of a variable-heigh aried from one meter to four meter aximum value of the field streng of the antenna are set to make the ssion, the EUT was arranged to tuned to heights from 1 meter to MHz, the antenna was tuned to seturned from 0 degrees to 360 cm was set to Peak Detect Functional degrees.	mber. The table highest radiation. ence-receiving that antenna tower, ters above the 19th. Both horizontane measurement. Its worst case 24 meters (for the heights 1 meter) degrees to find the
	limit specified, then testing	Hold Mode. Le EUT in peak mode was 10dB could be stopped and the peak ise the emissions that did not ha	values of the EUT









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would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Above 1GHz:

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB









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below the limit need not be reported.

- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

8.1. EUT Operation

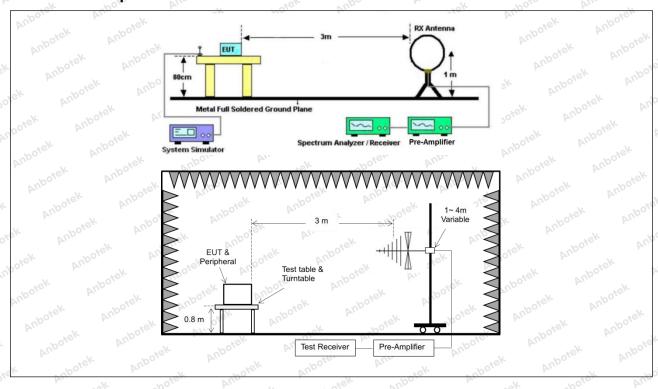
Operating Environment:

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

Test mode:

- 2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

8.2. Test Setup









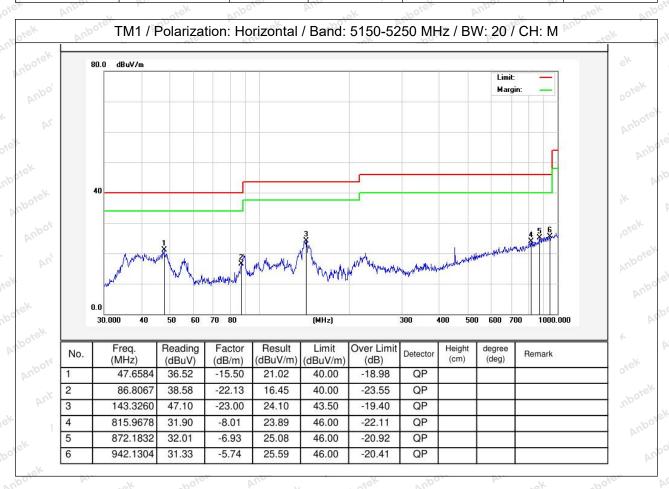


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8.3. Test Data

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

	Temperature:	22.5 °C	DUR	Humidity:	48%	"Upor	Atmospheric Pressure:	101 kPa
--	--------------	---------	-----	-----------	-----	-------	-----------------------	---------

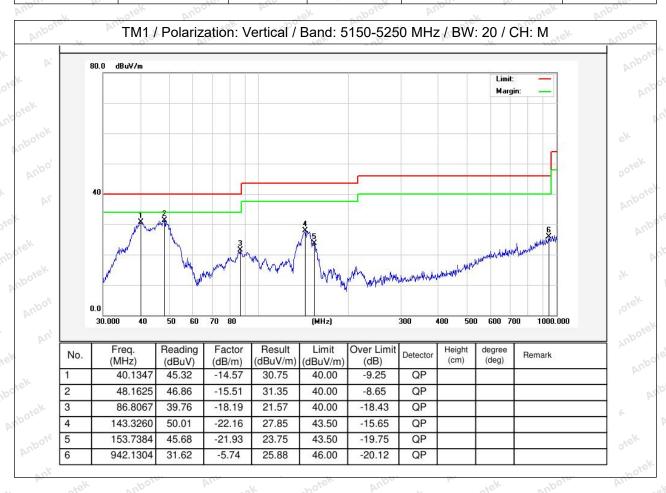






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Temperature: 22.5 °C Humidity: 48 % Atmospheric Pressure: 101 kPa

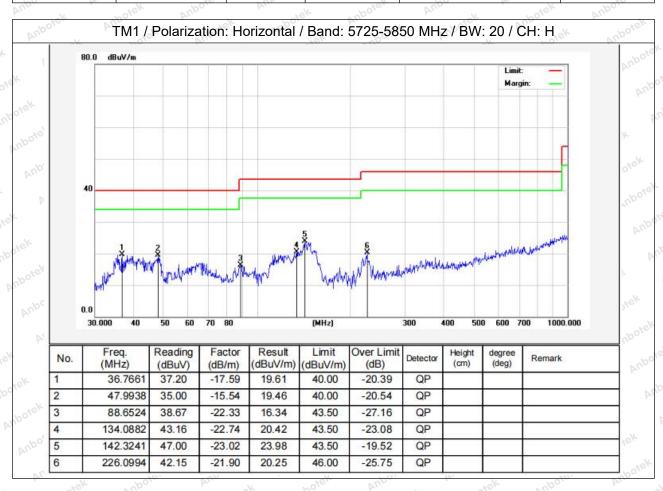






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Temperature: 22.5 °C Humidity: 48 % Atmospheric Pressure: 101 kPa

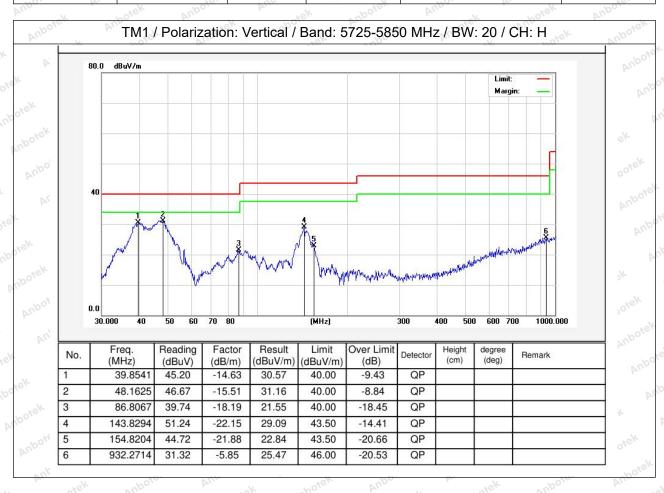






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Temperature: 22.5 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.









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9. Undesirable emission limits (above 1GHz)

potek Aupor	47 CFR Part 15.407(b)(1) And		
est Requirement:	47 CFR Part 15.407(b)(4)	Anbo	
Anboten Anbo	47 CFR Part 15.407(b)(10)		, ak
hotek Anbor	For transmitters opera	ting in the 5.15-5.25	GHz band: All en	nissions outsid
Ann	of the 5.15-5.35 GHz b	oand shall not exceed	d an e.i.r.p. of −2	7 dBm/MHz.
Anbore An				
ok hotek	For transmitters opera	ting solely in the 5.72	25-5.850 GHz ba	nd: Anbor
Je. And	All emissions shall be			
Lotek Anbore	above or below the ba			
ok hotek	above or below the ba			
Anbore. Anb	edge increasing linear			
in otek Ambore	below the band edge,			
AUD	increasing linearly to a			
Vupose, Vun	MHz	MHz	MHz	GHz
v niek	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
iek Anbo	¹ 0.495-0.505	16.69475-	608-614	5.35-5.46
stek anboier	Aug , work	16.69525	Pook 10 10 Mbok	And
ipo, W. Stek	2.1735-2.1905	16.80425-	960-1240	7.25-7.75
abotek Anbe	4.40E 48400 Anboi	16.80475	4000 4407	0.005.0.5
Ar. atek ambote	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
Aupo.	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
Anbotek Anbi	4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5
ek anboten A	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
est Limit:	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
est Limit.	6.31175-6.31225	123-138	2200-2300	14.47-14.5
Anbore And	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
Anborek Anbor	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
anboten Anb	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
W. Stok	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
Anbo k	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
riek anboten	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
o. by	12.57675-12.57725	322-335.4	3600-4400	(2) mbon
shotek Anbo	13.36-13.41	Yu.	abotek Anb	V
YII. POLEK	AUB	otek Anbore	A. Lek	Spoker AU
Anbore K Air	¹ Until February 1, 199	9, this restricted band	l shall be 0.490-0	0.510 MHz.
Anbote. Anb				
h niek an	² Above 38.6			
W. Williams	Lotek Anbore		er Anbe	
tek anboien	The field strength of e			
o. br.	not exceed the limits s			
shotek Anbo.	1000 MHz, compliance			
y. sek abotek	using measurement in			
Aupo, Wi.	detector. Above 1000			
potek Aupor	15.209shall be demon			
VII.	emissions. The provisi	ions in g 15.35apply t	o mese measure	ements.









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		here in this subpart, the emis not exceed the field strength le	
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance
anbote, An	0.000.0.400	0400/5(1-11-)	(meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	otek 30 Mpor
	30-88	100 **	3 botek
	88-216	150 **	Anbol 3 Ans
	216-960	200 **	3 ek Anbor
	Above 960	500	3
	frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abo The emission limits show employing a CISPR quas 90 kHz, 110–490 kHz and	ating under this section shall rather, 76-88 MHz, 174-216 MHz, these frequency bands is per §§ 15.231 and 15.241. It was the tighter limit applies at the interior of the displayed for the displayed for the displayed on measurements employed.	z or 470-806 MHz. rmitted under other the band edges. d on measurements frequency bands 9– emission limits in
est Method:	ANSI C63.10-2020, section	on 12.7.4, 12.7.6, 12.7.7	tek upotek
	meters above the ground rotated 360 degrees to do b. The EUT was set 3 me	EUT was placed on the top of a at a 3 meter fully-anechoic chetermine the position of the highers away from the interference top of a variable-height anter	namber. The table wa ghest radiation. ce-receiving antenna
botek A	c. The antenna height is v	varied from one meter to four	meters above the
	100	maximum value of the field str	
	.07	of the antenna are set to make	
		nission, the EUT was arrange	
	1 C C C C C C C C C C C C C C C C C C C	s tuned to heights from 1 meter	V
		0MHz, the antenna was tuned	
rocedure:		as turned from 0 degrees to 3	60 degrees to find th
abotek Anbo	maximum reading.	All abotek	AUD. W.
		m was set to Peak Detect Fur	nction and Specified
	Bandwidth with Maximum		W. *ek
k Anbotek	limit specified, then testin would be reported. Other	the EUT in peak mode was 10 g could be stopped and the po wise the emissions that did no	eak values of the EU ot have 10dB margin
		y one using peak or average r	nethod as specified
	and then reported in a da		Aupo A.
		est channel, the middle chan	nel, the Highest
	channel.	vest channel, the middle chan ments are performed in X, Y, I	Anb

Shenzhen Anbotek Compliance Laboratory Limited



Transmitting mode, and found the X axis positioning which it is the worst



case.



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- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

9.1. EUT Operation

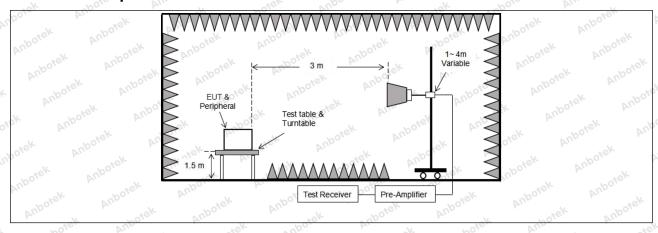
Operating Environment:

1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

Test mode:

- 2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

9.2. Test Setup









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9.3. Test Data

Temperature:	22.5 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	K

WiFi 5.2G:

	~ UD.	- N	TM1 /	CH: L		~ UD.	,
Eroguenev	Pooding	Factor	Result	Limit	Over limit	Antenna	
Frequency (MHz)	Reading (dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Pol.	Detector
10360.00	31.51	23.81	55.32	68.20	-12.88	boteHV A	Peak
15540.00	32.87	28.68	61.55	68.20	-6.65	N.	Peak
10360.00	31.95	23.81	55.76	68.20	-12.44	Aup. H	Peak
15540.00	32.94	28.68	61.62	68.20	-6.58	P/HOJO	Peak
10360.00	20.924	23.81	44.73	54.00	-9.27	· Vupoje	AVG
15540.00	22.036	28.68	50.72	54.00	-3.28	zek V nbo	AVG
10360.00	21.135	23.81	44.95	54.00	-9.05 And	Н	AVG
15540.00	21.612	28.68	50.29	54.00	-3.71	upoug H	AVG
	-		TM1 /	CH: M			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10400.00	30.87	23.81	54.68	68.20	-13.52	Nupo	Peak
15600.00	32.40	29.13	61.53	68.20	-6.67	isk A Vupo	Peak
10400.00	31.44	23.81	55.25	68.20 M	-12.95	otek H an	Peak
15600.00	32.46	29.13	61.59	68.20	-6.61	H	Peak
10400.00	21.194	23.81	45.00	54.00	-9.00	Vupo. A	AVG
15600.00	22.156	29.13	51.29	54.00	-2.71	Antor	AVG
10400.00	21.125	23.81	44.94	54.00	-9.06	Hootek	AVG
15600.00	21.692	29.13	50.82	54.00	-3.18	H DON	AVG O
			TM1 /	CH: H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10480.00	30.44	23.80	54.24	68.20	-13.96	Yek Yek	Peak
15720.00	31.88	30.03	61.91	68.20	-6.29	Anby rek	Peak
10480.00	31.08	23.80	54.88	68.20	-13.32	Hoo	Peak
15720.00	31.37	30.03	61.40	68.20	-6.80	ek H ^{DU} Poje	Peak
10480.00	19.86	23.80	43.66	54.00	-10.34	otek V nob	AVG
15720.00	20.92	ote ³ 30.03 pm	50.95	54.00	-3.05 An	V	AVG
10480.00	20.34	23.80	44.14	54.00	-9.86	Auporg H	AVG
15720.00	20.48	30.03	50.51	54.00	-3.49	Hong	AVG

Remark: 1. Result =Reading + Factor





^{2.} During the test, pre-scan the all modulation, only the worst case(802.11a) is recorded in the report.



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WiFi 5.8G:

WiFi 5.8G:	riek	Vupore b	n. ek	poler	AUD	ntek .	VUPO,
			TM1 /	CH: L			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11490.000	28.53	23.36	51.89	68.20	-16.31	V V	Peak
17235.000	29.88	31.97	61.85	68.20	otek-6.35 Ant	V Am	Peak
11490.000	28.99	23.36	52.35	68.20	-15.85	inboten H A	Peak
17235.000	30.10	31.97	62.07	68.20	-6.13	, oH ^k	Peak
11490.000	17.83	23.36	41.19	54.00	-12.81	Votek	AVG
17235.000	18.60	31.97	50.57	54.00	-3.43	AND SEK	AVG
11490.000	18.02	23.36	41.38	54.00	-12.62	Huppe	AVG
17235.000	18.06	31.97	.e. 50.03,√°	54.00	-3.97	otek H Anbo	AVG
			TM1 /	CH: M			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11570.000	29.11	23.42	52.53	68.20	-15.67	VUIN LOW	Peak
17355.000	29.76	32.18	61.94	68.20	-6.26	Vootek	Peak
11570.000	29.19	23.42	52.61	68.20	-15.59	H	Peak
17355.000	30.19	32.18	62.37	68.20	-5.83 ₆₀ 0°	H Vun	Peak
11570.000	19.103	23.42	42.52	54.00	-11.48	potek V An	AVG
17355.000	18.924	32.18	51.10	54.00	-2.90	VP 10 CL	AVG
11570.000	19.014	23.42	42.43	54.00	-11.57	Hek	AVG
17355.000	18.442	32.18	50.62	54.00	-3.38	And H	AVG
			TM1 /	CH: H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11650.000	28.62	23.49	52.11 And	68.20	-16.09	, A	Peak
17475.000	30.00	32.39	62.39	68.20	-5.81	Aupoter	Peak
11650.000	28.93	23.49	52.42	68.20	-15.78	no Hek	Peak
17475.000	29.80	32.39	62.19	68.20	-6.01	Horek	Peak
11650.000	18.17	23.49	41.66	54.00	-12.34	V	AVG
17475.000	18.72	32.39	51.11	54.00	-2.89 ₀	Vaupo	AVG
11650.000	18.19	23.49	41.68 _M	54.00	-12.32	otek H Ano	AVG
17475.000	18.41 M	32.39	50.80	54.00	-3.20	ωote ^l Η Ω	AVG

Remark: 1. Result =Reading + Factor

3. During the test, pre-scan the all modulation, only the worst case(802.11a) is recorded in the report.







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APPENDIX I -- TEST SETUP PHOTOGRAPH

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

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

