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FCC Test Report

Applicant : WeHome Technology Company Limited

Address Room 12A, Kiu Fu Comm Building 300 Lockhart

Road, Wan Chai, Hong Kong

Product Name : ROLA Pet Companion Robot

Report Date : Apr. 26, 2024

Shenzhen Anbotek

Shenzhen Anb







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TEST REPORT

Applicant : WeHome Technology Company Limited

Manufacturer : Fuzhi Technology (Shenzhen) Co., Ltd.

Product Name : ROLA Pet Companion Robot

Test Model No. : ROLA PetPal

Reference Model No. : N/A

Trade Mark : Enabot

Rating(s) : Input: 5V=2A (with DC 3.65V, 3350mAh battery inside)

47 CFR Part 15E

ANSI C63.10-2020

Test Standard(s) KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 KDB 905462 D03 UNII Clients Without Radar Detection New Rules

v01r02

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:			Feb. 22, 20	24 nboten	
				h. abotek	
Date of Test:		And stek F	eb. 22, 2024 to Ma	r. 30, 2024	
			abotek Anbo	CI - hotel	
			Nian Xiu	Chen	
Prepared By:	And hotek And	otek Yupo,	abotek	Aupon Aur	notek !
			(Nianxiu Ch	en), nbore	
			7-1	Anbore	
Anborek Anbore			Edward	pour	Andhotel
Approved & Authorize	ed Signer:	anbotek	Aupo, W.	otak Anbote	And
		ok hotek	(Edward Pa	in) sek noo	

Shenzhen Anbotek Compliance Laboratory Limited







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Revision History

	Report Version	Description	Issued Date
	Anbore R00 potek An	Original Issue.	Apr. 26, 2024
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1. General Information

1.1. Client Information

Applicant	:	WeHome Technology Company Limited
Address	:	Room 12A, Kiu Fu Comm Building 300 Lockhart Road, Wan Chai, Hong Kong
Manufacturer	:	Fuzhi Technology (Shenzhen) Co., Ltd.
Address		Room 302,Building 10,Qianhai E-Hub,Shenzhen,Guangdong,China
Factory	:	Shenzhen Hytera Communications Corporation Limited
Address	:	Haineng Technology Park, 3 Longbao 4th Road, Baolong Industrial City, Longgang District, Shenzhen, China

1.2. Description of Device (EUT)

1.2. Description C	71/06	Searce (EO1)
Product Name	:	ROLA Pet Companion Robot
Test Model No.	:	ROLA PetPal
Reference Model No.	:	N/A otek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Enabot Anborek Anborek Anborek Anborek
Test Power Supply	:	AC 120V, 60Hz for Adapter/ DC 3.65V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	MODEL: PS10UA050K2000UU INPUT: 100-240V~, 50/60Hz, 0.35A MAX OUTPUT: 5.0V== 2.0A 10.0W
RF Specification		
Operation Frequency	:	802.11a/n(HT20)/ac(HT20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; 802.11n(HT40)/ac(HT40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; U-NII Band 1: 5210MHz; U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz
Number of Channel	:	802.11a/n(HT20)/ac(HT20): U-NII Band 1: 4; U-NII Band 2A: 4; 802.11n(HT40)/ac(HT40): U-NII Band 1: 2; U-NII Band 2A: 2 802.11ac(HT80):







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		U-NII Band 1: 1; U-NII Band 2A: 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	:	FPC Antenna
Antenna Gain(Peak)	:	WiFi 5.2G: 5.08dBi WiFi 5.3G: 5.33dBi

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.

1.3. Auxiliary Equipment Used During Test

O	Title	Manufacturer	Model No.	Serial No.
P	ROG Rapture Quad- band Gaming Router	ASUSTeK Computer Inc	GT-AXE16000 (FCC ID: MSQ- RTAX5D00 IC: 3568A-RTAX5D00)	RAIG5D2020695NL

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	otelt 38 noote	5190	Anbore 42	5210 5210
40	5200	nbotek 46 Anbote	5230	Aupoter A	hos arek I and
otek 44 nbotek	5220	Anbotek/ Anb	rek Amabotel	PLA OLGE	And Solds A
nbotek 48 Anbote	5240	Anboyek A	upo. dek / who	tek Anbores	Aurabotek

Operation Band: U-NII Band 2A

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
botek 52 Anbotek	5260	54 pr	5270	58	5290
hotel 56 Anbo	5280	62	5310	notek / Anborek	Aup)
60	5300	tek Tupotek	Anbore Ar	boiek / Anboi	ex Apo
64	5320	otek / Anbotek	Anbore	And Anotest An	potek / Ando







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1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1 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.
otek Anbotek AnTM2 Anbotek Anbotek Anbotek Anbotek Anbotek	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	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.
stek Anborek	Keep the EUT works in normal operating mode and connect to companion device

1.6. Measurement Uncertainty

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

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.









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1.7. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1,2,3	Ann Potek
Duty Cycle	Mode1,2,3	P
Maximum conducted output power	Mode1,2,3	P PART
Power spectral density	Mode1,2,3	P
Emission bandwidth and occupied bandwidth	Mode1,2,3	rupos Pk
Channel Move Time, Channel Closing Transmission Time	Mode4	Anb P tek
DFS Detection Thresholds	Mode4	P P
Band edge emissions (Radiated)	Mode1,2,3	PARTE
Undesirable emission limits (below 1GHz)	Mode1,2,3	P Pur
Undesirable emission limits (above 1GHz)	Mode1,2,3	nbore P
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek	Anbotek Anbotek

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.





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1.9. Disclaimer

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

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







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1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupord	k Pur	Anboten	Aupo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
30t	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Alootek	Auporek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Duty Cycle

Maximum conducted output power

Power spectral density

Emission bandwidth and occupied bandwidth

Channel Move Time, Channel Closing Transmission Time

Non-Occupancy Period Test

DFS Detection Thresholds

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal	Cal.Due Date
e* 1	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
Anboard	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-10-12	2024-10-11
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





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	edge emissions (Ra sirable emission limi		Anbotok	Anborek	Anbore	VII.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbote 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Aupolek
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
¹ 2	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Unde	sirable emission limit	ts (below 1GHz)			Anbo	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
40tel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.nb	EMI Test Software EZ-EMC	SHURPLE	N/A nbor	N/A door	V Vupo	k Anbotek





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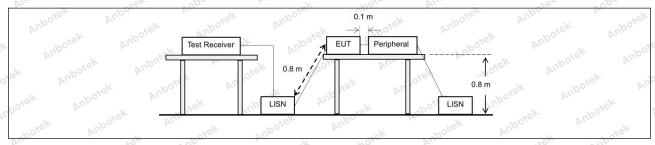
2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	ok hotek Anbi	ye. Wur
Aug sek spotek	Frequency of emission (MHz)	Conducted limit (dBµV)	aboten Anbo
Anbor Ar	anboren And	Quasi-peak	Average
K botek Anbo	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 And	56°	46 200 tel
otek Anbore Al	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	And rek abo	tek Aupore

2.1. EUT Operation

Operating Env	ironment: And tek noote And
otek 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.
otek 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.

2.2. Test Setup



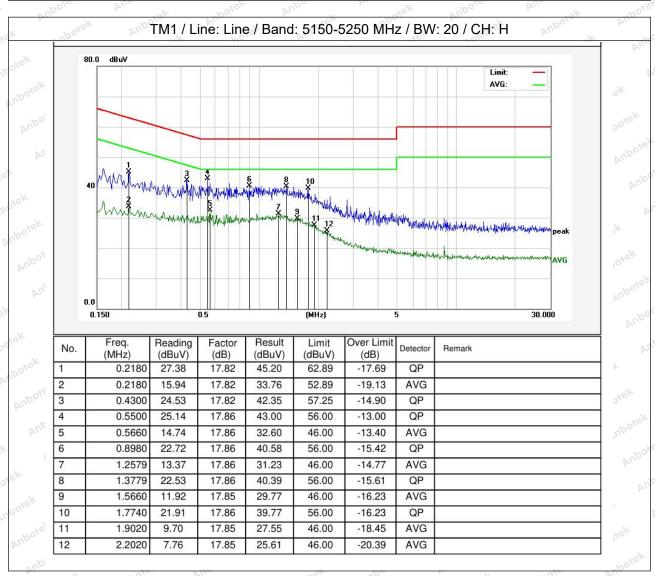




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2.3. Test Data

Temperature:	21.2 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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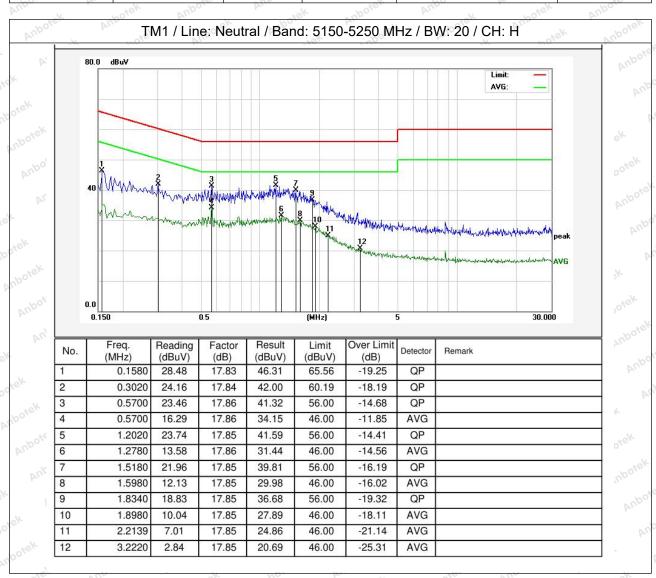






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Temperature: 21.2 °C Humidity: 52 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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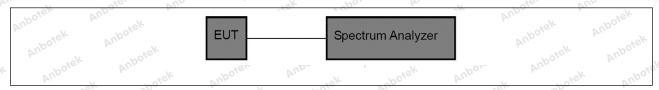
3. Duty Cycle

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)
Anbotek Anbotek	 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.
Procedure:	iii) Set VBW >= RBW. iv) Set detector = peak.
otek Anbotek Anb	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 Env	vironment: And tek Anborek Anborek Anborek Anborek Anborek
Test mode:	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 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
ek Anborek	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:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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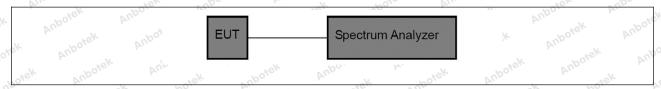
4. Maximum conducted output power

47 OFD D-++ 45 407(-)(4)(*;·)
47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2)
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 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. 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.
ANSI C63.10-2020, section 12.4
Refer to ANSI C63.10-2020 section 12.4

4.1. EUT Operation

Operating Envir	ronment:
Test mode:	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 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.

4.2. Test Setup



4.3. Test Data

Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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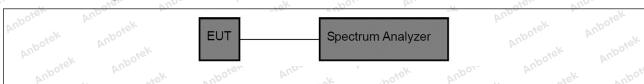
5. Power spectral density

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2)
Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek	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 5.25-5.35 GHz and 5.47-5.725 GHz bands, 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.
Test Method:	ANSI C63.10-2020, section 12.6
Procedure:	Refer to ANSI C63.10-2020, section 12.6

5.1. EUT Operation

Operating Env	ironment: An otek Anborek Anborek Anborek Anborek
rek Anborek	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.
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

5.2. Test Setup



the data of worst case is recorded in the report.

5.3. Test Data

Temperature: 25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa	
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6. Emission bandwidth and occupied bandwidth

Test Requirement:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Limit:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Method:	ANSI C63.10-2020, section 6.9 & 12.5
Anto	Emission bandwidth:
	a) Set RBW = approximately 1% of the emission bandwidth.
	b) Set the VBW > RBW.
botek Aupe	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%.
	botek Ando A. Otek Andote And ak hotek
	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,
	and VBW shall be approximately three times the RBW, unless otherwise
ok hotek	specified by the
	applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal
Procedure:	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 an
	single sweep mode
	shall be used. Otherwise, peak detection and max hold mode (until the trace
	stabilizes) shall be
	used.
	l diseu. If) 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
Up wotek	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







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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).

6.1. EUT Operation

Operating Environment:

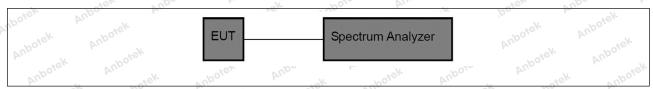
1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

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.

6.2. Test Setup



6.3. Test Data

Temperature: 25.3 °C Humidity: 49 % Atmospheric Pressure:	101 kPa
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7. Channel Move Time, Channel Closing Transmission Time

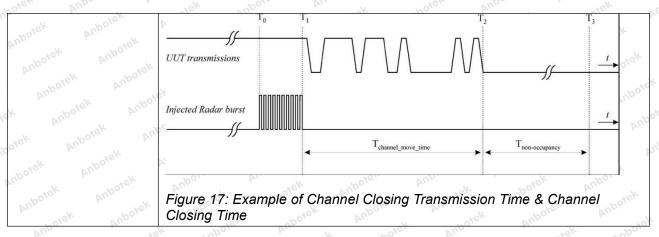
Test Requirement:	47 CFR Part 15.407(h)(2)(iii)
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Channel Move Time: within 10 seconds Channel Closing Transmission Time: 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.)
Test Method:	KDB 905462 D02, Clause 7.8.3
Test Method: Anborek Anborek	KDB 905462 D02, Clause 7.8.3 The steps below define the procedure to determine the above-mentioned parameters when a radar <i>Burst</i> with a level equal to the <i>DFS Detection Threshold</i> + 1dB is generated on the <i>Operating Channel</i> of the U-NII device (<i>In- Service Monitoring</i>). 1. One frequency will be chosen from the <i>Operating Channels</i> of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected. 2. In case the UUT is a U-NII device operating as a <i>Client Device</i> (with or without DFS), a U-NII device operating as a <i>Master Device</i> . In case the UUT (Client device) to <i>Associate</i> with the <i>Master Device</i> . In case the UUT is a <i>Master Device</i> , a U-NII device operating as a <i>Client Device</i> will be used and it is assumed that the Client will <i>Associate</i> with the UUT (Master). In both cases for conducted tests, the <i>Radar Waveform</i> generator will be directed towards the <i>Master Device</i> . If the <i>Master Device</i> has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing. 3. Stream the channel loading test file from the <i>Master Device</i> to the <i>Client Device</i> on the test <i>Channel</i> for the entire period of the test. 4. At time T0 the <i>Radar Waveform</i> generator sends a <i>Burst</i> of pulses for one of the Radar Type 0 in Table 5 at levels defined in Table 3, on the <i>Operating Channel</i> . An additional 1 dB is added to the radar test signal to ensure it is at or above the <i>DFS Detection Threshold</i> , accounting for equipment variations/errors. 5. Observe the transmissions of the UUT at the end of the radar Burst on the <i>Operating Channel</i> for duration greater than 10 seconds. Measure and
	record the transmissions from the UUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs. Figure 17 illustrates Channel Closing Transmission Time.
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	6. When operating as a <i>Master Device</i> , monitor the UUT for more than 30 minutes following instant T2 to verify that the UUT does not resume any transmissions on this <i>Channel</i> . Perform this test once and record the measurement result. 7. In case the UUT is a U-NII device operating as a <i>Client Device</i> with <i>In-Service Monitoring</i> , perform steps 1 to 6.







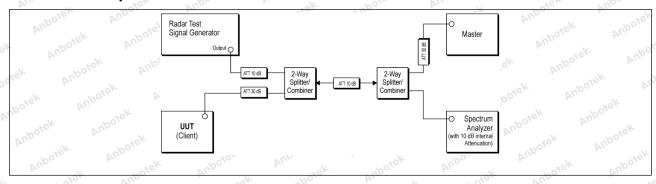
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7.1. EUT Operation

Operating Envir	onment:	hojek	Anboten		. Yek	anbotek		ek bi.
lest mode.	4: Normal Opera	_ ''9'	the EUT wo	rks in no	mal ope	rating mod	de and co	nnect to
abore Mod And	companion device	e ^{vu} po,	120	Ya	Abote.	AUR	V	-otek

7.2. Test Setup



7.3. Test Data

Temperature. 20.0 0 Training. 40 % Managinerie i ressure. To titl a	Temperature: 25.3 °C Humidity:	49 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



Hotline



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8. DFS Detection Thresholds

Test Requirement:	KDB 905462 D02, Clause 5.2 Table 3	
Anbotek Anbotek	Table 3: DFS Detection Thresholds for Master E with Radar Detection Table 3: DFS Detection Thresholds for Ma and Client Devices with Radar De	ster Devices
	Maximum Transmit Power EIRP ≥ 200 milliwatt	Value (See Notes 1, 2, and 3)
est Limit:	EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
Anbotek Anbotek Anbotek Anbotek Anbotek Anbot	EIRP < 200 milliwatt that do not meet the power spectral density requirement Note 1: This is the level at the input of the receiver assuming a 0 dl Note 2: Throughout these test procedures an additional 1 dB has be test transmission waveforms to account for variations in measurement the test signal is at or above the detection threshold level to trigger Note3: EIRP is based on the highest antenna gain. For MIMO device 662911 D01.	een added to the amplitude of the ent equipment. This will ensure that a DFS response.
est Method:	KDB 905462 D02, Clause 7.4.1.1	Anbotek Anbotek
	1) A 50 ohm load is connected in place of the spectrum analyzer is connected to place of the2) The interference Radar Detection Threshold had been taken into account the output power r	master Level is TH+ 0dBi +1dB that ange and antenna gain.
	3) The following equipment setup was used to a waveform. A vector signal generator was utilized level for radar type 0. During this process, there either the master or client device. The spectrum	d to establish the test signal were no transmissions by
Procedure:	the zero spans (time domain) at the frequency of generator. Peak detection was used. The spect bandwidth (RBW) and video bandwidth (VBW)	of the radar waveform rum analyzer resolution were set to 3 MHz. The
	spectrum analyzer had offset -1.0dB to compen 4) The vector signal generator amplitude was someasured at the spectrum analyzer was TH + 0	et so that the power level dBi +1dB = -63dBm. Captur
	the spectrum analyzer plots on short pulse rada Note: TH=-64 dBm or -62 dBm	ar wavetorm.

8.1. EUT Operation

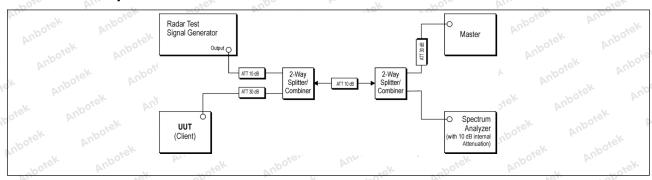
Operating Env	ironment:					And
Test mode:	4: Normal Operating:	Keep the EUT	works in nor	mal operating	mode and	connect to
rest mode.	companion device	Ano	hoiek	Aupor	by,	ik abore





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8.2. Test Setup



8.3. Test Data

e)	Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
		-0.0	Committee 1	10 70	100mm	13.64 2





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9. Band edge emissions (Radiated)

est Requirement:	47 CFR Part 15.407(b 47 CFR Part 15.407(b 47 CFR Part 15.407(b)(10)	Anbotek Anbo	upotek Aupo
k Anbotek Anbo	For transmitters opera of the 5.15-5.35 GHz to			
otek Anbotek	For transmitters opera of the 5.15-5.35 GHz k			
	MHz	MHz	MHz	GHz
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
	10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
	2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75
	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- 1646.5	9.3-9.5
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
	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
st Limit:	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
St Limit.	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
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
	12.57675-12.57725	322-335.4	3600-4400	(2) 0 1 e 1
	13.36-13.41	Jug K Polek	Vupos	rek.
	¹ Until February 1, 1999 ² Above 38.6			
	The field strength of ending exceed the limits so 1000 MHz, compliance using measurement in the transfer of the strength of th	hown in § 15.209. At a with the limits in § 1 strumentation employ	frequencies equ 5.209shall be de ring a CISPR qu	ial to or less the emonstrated iasi-peak
stek Anbotek	detector. Above 1000 I 15.209shall be demon emissions. The provisi	strated based on the	average value o	of the measured
	Except as provided els intentional radiator sha following table:			
	Frequency (MHz)	Field strength (microvolts/met	tor) hotek	Measurement distance









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	", Tek "Upoter b		
ak shotek	probability of the contract of	Nupotes Aug	(meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	ano 30
	1.705-30.0	30 about Att	30
	30-88	100 **	3
w. stek subc	88-216	150 **	3/bots And
	216-960	200 **	x 3 work
	Above 960	500	potek 3 Ambo
	46, 740		100
		paragraph (g), fundamental	
		ating under this section shal	
		MHz, 76-88 MHz, 174-216 M	
		n these frequency bands is p	bermitted under other
	sections of this part, e.g.,		et the handred are subo
		ve, the tighter limit applies a	
	- D2	n in the above table are bas	
		i-peak detector except for the	
v otek		d above 1000 MHz. Radiate	
		sed on measurements emp	oying an average
ack spoier	detector.	Auport Ar.	bojen Anti
Test Method:	ANSI C63.10-2020, secti	on 12.7.4, 12.7.6, 12.7.7	
aborek Anbo	Above 1GHz:	Vive Spoker	Anbo L iso'i
	E1	EUT was placed on the top o	of a rotating table 1.5
		at a 3 meter fully-anechoic	
		etermine the position of the	
		eters away from the interfere	
		ne top of a variable-height ar	
		varied from one meter to fou	
		maximum value of the field s	
		of the antenna are set to ma	
		mission, the EUT was arrang	
		s tuned to heights from 1 me	
		0MHz, the antenna was tun	
		as turned from 0 degrees to	
	maximum reading.	as tarried from a degrees to	order degrees to and the
		em was set to Peak Detect F	unction and Specified
Procedure:	Bandwidth with Maximum		anotion and opcomed
"upor Tale VII.	~10	the EUT in peak mode was	10dB lower than the
		ig could be stopped and the	
		wise the emissions that did	
	LON' AU	y one using peak or average	15/2
	and then reported in a da	, , , , , , , , , , , , , , , , , , ,	e metrioù as specifieu
		west channel, the middle cha	annel the Highest
	channel.	vest charmer, the initiale cha	iririei, irie riigilesi
	717	ments are performed in X, Y	7 avis positioning for
		found the X axis positioning	
	- 20	ound the A axis positioning	WITHOUT ILES WHE WOLST
aporer Anbe	case.	ros until all fraguancias mas	cured was semplete
Vi. Yek "poter	100	res until all frequencies mea	sureu was complete.
	Remark:	oble Less Material Profession	Drooms Fatel
" wotek Anbo		able Loss+ Antenna Factor-	· ///
An	2/2	OGHz, the disturbance abov	





The points marked on above plots are the highest emissions could be found





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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

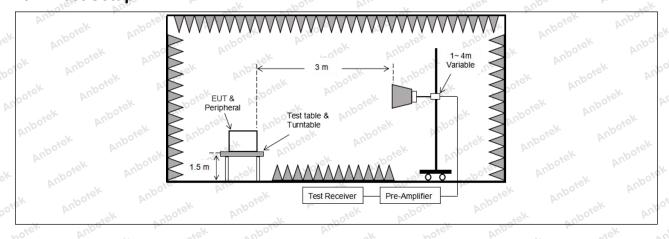
Operating Environment:

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: 25.3 °C	Humidity: 49 %	Atmospheric Pressure:	101 kPa
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		TM1 / B	and: 5150-5	350 MHz / B\	W: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	37.26	15.99	53.25	68.20	-14.95	work H	Peak
5150.00	39.39	15.99	55.38	68.20	-12.82	V.	Peak
5150.00	27.12	15.99	43.11	54.00	-10.89	Hyek Hitek	AVG
5150.00	29.25	15.99	45.24	54.00	-8.76	And Sick	AVG
		TM1 / B	and: 5150-53	350 MHz / BV	V: 20 / H		,
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.63	16.43	54.06	68.20	-14.14	H	Peak
5350.00	40.76	16.43	57.19	68.20	-11.01	And V.ok	Peak
5350.00	29.06	16.43	45.49	54.00	-8.51	PLUBOT IN	AVG
5350.00	29.85	16.43	46.28	54.00	-7.72	Wpoyer	AVG

Remark: 1. Result=Reading + Factor

		TM2 / B	and: 5150-5	350 MHz / BV	V: 20 / L	200	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.11	15.99	52.10	68.20	-16.10	Horek	Peak
5150.00	37.58	15.99	53.57	68.20	-14.63	ek V noore	Peak
5150.00	26.83	15.99	42.82	54.00	-11.18	.ek H	otel ^k AVG probi
5150.00	27.79	15.99	43.78	54.00	-10.22	V	AVG
		TM2 / B	and: 5150-53	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.98	16.43	54.41	68.20	-13.79	k Habotel	Peak
5350.00	38.97	16.43	55.40	68.20	-12.80	V V	Peak, No
5350.00	28.04	16.43	44.47	54.00	-9.53 AN	H And	AVG
5350.00	29.57	16.43	46.00	54.00	-8.00	inpoter A	AVG

Remark: 1. Result=Reading + Factor





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		TM2 / B	and: 5150-53	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.78	15.99	52.77	68.20	-15.43	k Hupoter	Peak
5150.00	38.60	15.99	54.59	68.20°	-13.61	otek V Anbo	Peak
5150.00	27.38	15.99 And	43.37	54.00	-10.63	- orekH	AVG
5150.00	28.87	15.99	44.86	54.00	-9.14	V.	AVG
		TM2 / B	and: 5150-53	350 MHz / BV	V: 40 / H	, , , , , , , , , , , , , , , , , , , ,	,
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	38.28 38.28	16.43	54.71	68.20	-13.49	tek H Anboi	Peak
5350.00	37.07	16.43 nb°	53.50	68.20 M	-14.70	V V	Peak M
5350.00	28.63	16.43	45.06	54.00	-8.94	H W	AVG
5350.00	29.88	16.43	46.31	54.00	-7.69	Anbord	AVG

Remark: 1. Result=Reading + Factor

100	TM3 / Band: 5150-5350 MHz / BW: 20 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5150.00	37.27	15.99	53.26	68.20	-14.94	nboteH	Peak				
5150.00	39.07	15.99	55.06	68.20	-13.14	No Nok	Peak				
5150.00	26.74	15.99	42.73	54.00	-11.27	Hotek	AVG				
5150.00	29.03	15.99	45.02	54.00	-8.98	y V pote	AVG				
		TM3 / B	and: 5150-53	350 MHz / BV	V: 20 / H						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5350.00	38.06	16.43	54.49	68.20	-13.71	NO HPK	Peak				
5350.00	38.28	16.43	54.71	68.20	-13.49	Votek	Peak				
5350.00	28.02	16.43	44.45	54.00	-9.55	H H	AVG				
5350.00	28.69	16.43	45.12	54.00	-8.88 ₀	Avupo	AVG				

Remark: 1. Result=Reading + Factor





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TM3 / Band: 5150-5350 MHz / BW: 40 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5150.00	36.19	15.99	52.18	68.20	-16.02	PHk	Peak			
5150.00	36.53	15.99	52.52	68.20	-15.68	Nupo,	Peak			
5150.00	26.51	15.99	42.50	54.00	-11.50 No	otek H Anbo	AVG			
5150.00	27.11	15.99	43.10	54.00	-10.90	nbotek V Ar	AVG			
	,	TM3 / B	and: 5150-53	350 MHz / BV	V: 40 / H					
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5350.00	38.29	16.43	54.72	68.20	-13.48	Hup	Peak			
5350.00	37.36	16.43	53.79	68.20	-14.41	tek A Vupo	Peak			
5350.00	27.67	16.43	44.10	54.00	-9.90	Lotek H An	ore AVG AM			
5350.00	27.88	16.43	44.31	54.00	-9.69	V	AVG			

Remark: 1. Result=Reading + Factor

	67.	-0.1	~0~	V	07	DI.	-0.7
		TM3 / E	Band: 5150-53	350 MHz / BV	V: 80 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.20 M	15.99	52.19	68.20 And	-16.01	botek H Ant	Peak
5150.00	36.81	15.99	52.80	68.20	-15.40	Produc	Peak
5150.00	26.98	15.99	42.97	54.00	-11.03	Hek	AVG
5150.00	27.11	15.99	43.10	54.00	-10.90	Votek	AVG
		TM3 / E	Band: 5150-53	350 MHz / BV	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	38.67	16.43	55.10	68.20	-13.10	aboreH P	Peak
5350.00	37.74	16.43	54.17	68.20	-14.03	N. N.	Peak
5350.00	29.24	16.43	45.67	54.00	-8.33	And H tek	AVG
5350.00	28.38	16.43	44.81	54.00	-9.19	PV V	AVG

Remark: 1. Result=Reading + Factor





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10. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	And Lek abotek Anb	or All
Anbotek Anbotek	Unwanted emissions below strength limits set forth in §	1 GHz must comply with the ge 15.209.	neral field
		ere in this subpart, the emissions t exceed the field strength levels	
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Test Limit:	1.705-30.0 30-88	30 100 ** 150 **	30 3
botek Anbotek	88-216 216-960 Above 960	200 **	3
	** Except as provided in pa intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissiing under this section shall not b lz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt	e located in the 470-806 MHz.
	In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	e, the tighter limit applies at the bin the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emised on measurements employing	measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020, section	12.7.4, 12.7.5	Aug
	meters above the ground a was rotated 360 degrees to b. The EUT was set 3 or 10 antenna, which was mount c. The antenna height is va ground to determine the materials.	T was placed on the top of a rotate ta 3 meter semi-anechoic chame determine the position of the his meters away from the interferenced on the top of a variable-heigh ried from one meter to four meter aximum value of the field strength of the antenna are set to make the	ber. The table ghest radiation. nce-receiving t antenna tower. ers above the h. Both horizonta
Procedure:	d. For each suspected emis and then the antenna was t test frequency of below 30N and the rotatable table was maximum reading.	ssion, the EUT was arranged to tuned to heights from 1 meter to MHz, the antenna was tuned to he turned from 0 degrees to 360	its worst case 4 meters (for the neights 1 meter) egrees to find the
Anbotek Anbotek	Bandwidth with Maximum If. If the emission level of the limit specified, then testing	was set to Peak Detect Function Hold Mode. E EUT in peak mode was 10dB I could be stopped and the peak was the emissions that did not hat	ower than the values of the EU









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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.

10.1. EUT Operation

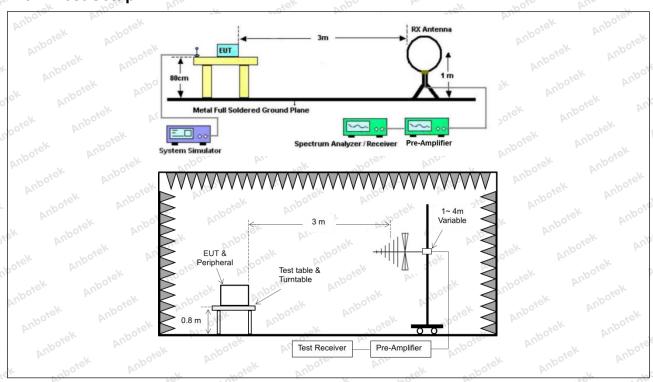
Operating Environment:

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.

10.2. Test Setup









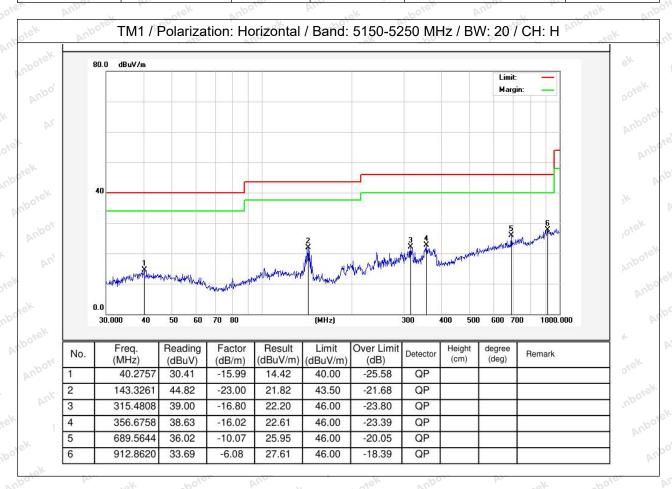


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10.3. Test Data

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

Temperature:	23.5 °C	DUL	Humidity:	49%	Atmospheric Pressure	: 101 kPa
	- 1 1/2			40		100

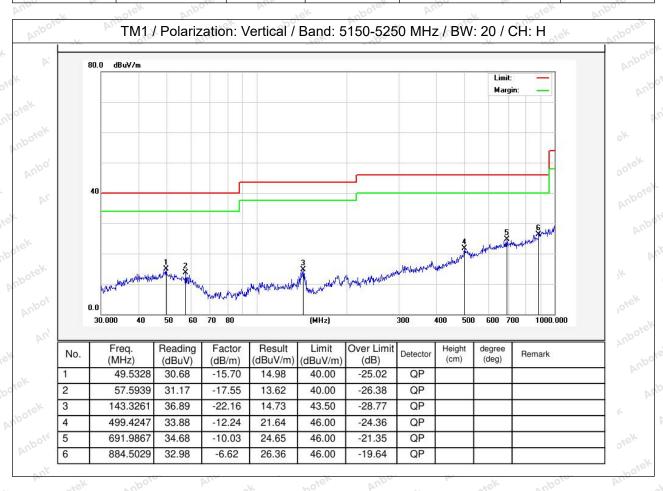






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Temperature: 23.5 °C Humidity: 49 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.









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11. Undesirable emission limits (above 1GHz)

est Requirement:	47 CFR Part 15.407(b 47 CFR Part 15.407(b 47 CFR Part 15.407(b)(2)	Anbotek Anbo	upotek Aupo
k Anbotek Anbo	For transmitters opera of the 5.15-5.35 GHz to			
otek Anbotek	For transmitters opera of the 5.15-5.35 GHz b			
tek aboten	MHz	MHz	MHz	GHz
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
Anbotek Anbo	10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
	2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75
	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- 1646.5	9.3-9.5
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
Anbotek Anbote	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
	6.31175-6.31225	123-138	2200-2300	14.47-14.5
Anbe	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
est Limit:	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
St Lillit.	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
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
	12.57675-12.57725	322-335.4	3600-4400	(2)0000
	13.36-13.41	ing K Polek	Aupo,	by.
	¹ Until February 1, 1999 ² Above 38.6			
	The field strength of ender exceed the limits sand 1000 MHz, compliance using measurement in	hown in § 15.209. At a with the limits in § 1 strumentation employ	frequencies equ 5.209shall be de ing a CISPR qu	ual to or less tha emonstrated uasi-peak
	detector. Above 1000 I 15.209shall be demon emissions. The provisi	strated based on the	average value of	of the measured
	Except as provided els intentional radiator sha following table:			
	Frequency (MHz)	Field strength (microvolts/me	ter) hotek	Measurement distance









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hotek Anbore			Anbore Antonia
ck boick	bugg Stok	Upore Am	(meters)
Anbore And	0.009-0.490	2400/F(kHz)	300
"otek Anbore	0.490-1.705	24000/F(kHz)	Ano 30
And ak hotel	1.705-30.0	30 nbore Ann	30
Upole, Vun	30-88	100 **	3 ok
w work and	88-216	150 **	3 port
And K	216-960	200 **	And a sotek Ant
riek anboter A	Above 960	in 500	anbored 3 Amb
o. h. otek	** Except as provided in	paragraph (g), fundame	ntal emissions from
aporen Anos			shall not be located in the
atek anboten			16 MHz or 470-806 MHz.
Anbo. A. atek			s is permitted under other
abotek Anbo		., §§ 15.231 and 15.241.	
VIII.		ove, the tighter limit appl	
y Aupon An			based on measurements
ok bořek Ar	employing a CISPR qua	si-peak detector except	for the frequency bands 9–
Die Vun	90 kHz, 110–490 kHz ar	nd above 1000 MHz. Rad	diated emission limits in
sofek Anbore	these three bands are b	ased on measurements	employing an average
up -k potek	detector.	anborer Anbo	
Test Method:	ANSI C63.10-2020, sec	tion 12.7.4, 12.7.6, 12.7.	7 And sek abotek
Hotek Aupon	Above 1GHz:	bub bub	tek Aupor Air
Ant bo		ELIT was placed on the	top of a rotating table 1.5
Anbore And			hoic chamber. The table was
K hotek an		determine the position of	
Her And			rference-receiving antenna,
otek anbote.		the top of a variable-heig	
Not k hotek		varied from one meter to	
aboter Ano			ield strength. Both horizontal
arek upore.			to make the measurement.
Anbo			rranged to its worst case
. aboten Anbe			1 meter to 4 meters (for the
Ar. sek an	test frequency of below	30MHz, the antenna was	s tuned to heights 1 meter)
lek Vupo.	and the rotatable table v	vas turned from 0 degree	es to 360 degrees to find the
tek abotek	maximum reading.		
Dor Air	e. The test-receiver syst	tem was set to Peak Det	ect Function and Specified
Procedure:	Bandwidth with Maximu		
Aur apolek			was 10dB lower than the
Anbore An			the peak values of the EUT
hotek Anbor	LONG AV		did not have 10dB margin
And			erage method as specified
ek Aupole Aug	and then reported in a d		Aupole Aur Tek
k korek		west channel, the middle	e channel, the Highest
oter And	channel.	by.	V V 7 - who is a sittle to the internal
atek unboise.			X, Y, Z axis positioning for
Aup. K P. Colek	- 00	iouriu trie A axis positior	ning which it is the worst
"Upoter Vupe	case.	ires until all frequencies	measured was complete.
W. Ciek "Upote,	Remark:	ures unui an nequencles	measured was complete.
Vupo. B.	IV. INV.	Cable Loss+ Antenna Fa	ctor- Preamn Factor
k abotek And			above 18GHz was very low.
All.			st emissions could be found
Tok More A	The points marked on a	bove plots are the highes	at crimosions could be round









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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.

11.1. EUT Operation

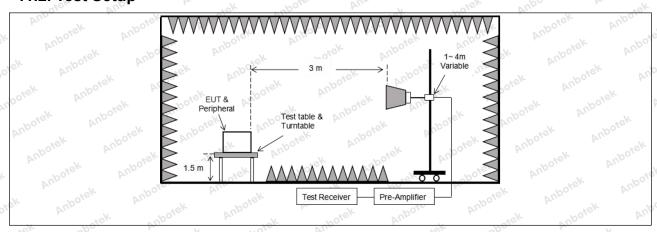
Operating Environment:

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.

11.2. Test Setup









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11.3. Test Data

Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa	
Tomporataro.	WZ0.0 0	a raimaity.	10 70 %	7 tarricopriorio i roccaro.	TO I KI G	2/5

- No.	-PO10	Dis.	76/2	70p.	No.	- h010	VI.
		TM1 / Ban	d: 5150-525	0 MHz / BW:	20 / CH: L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10360.00	31.53	23.81 M	55.34	68.20	-12.86	VerV	Peak
15540.00	32.91	28.68	61.59	68.20	-6.61	rupo, A	Peak
10360.00	31.99	23.81	55.80	68.20	-12.40	Anbolt	Peak
15540.00	32.97	28.68	61.65	68.20	-6.55	"Ho _{fer}	Peak
10360.00	20.963	23.81	44.77	54.00	-9.23	Vootek	AVG
15540.00	22.093	28.68	50.77	54.00	-3.23	V V	AVG NO
10360.00	21.183	23.81	44.99	54.00	otek -9.01 And	H Ann	AVG
15540.00	21.634	28.68	50.31	54.00	-3.69	nbotek H Ar	AVG
		TM1 / Ban	d: 5150-5250	MHz / BW:	20 / CH: M	10	1 % 1/2°
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10400.00	30.89	23.81	54.70	68.20	-13.50	Kupote	Peak
15600.00	32.44	29.13	61.57	68.20	-6.63	ek V nbot	Peak
10400.00	31.48	23.81	55.29	68.20	-12.91	H	Peak
15600.00	32.49	29.13	61.62 ^{kn}	68.20	-6.58	H bu	Peak
10400.00	21.233	23.81	45.04	54.00	-8.96	AnboreV	AVG
15600.00	22.213	29.13	51.34	54.00	-2.66	No Alek	AVG
10400.00	21.173	23.81	44.98	54.00	-9.02	Horek	AVG
15600.00	21.714	29.13	50.84	54.00	-3.16	H	AVG
- 10	100	TM1 / Ban	d: 5150-525	MHz / BW:	20 / CH: H	1-90	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10480.00	30.46	23.80	54.26	68.20	-13.94	Aups A	Peak
15720.00	31.92	30.03	61.95	68.20	-6.25	Anbor	Peak
10480.00	31.12	23.80	54.92	68.20	-13.28	Hoore	Peak
15720.00	31.40	30.03	61.43	68.20	-6.77	ek Habote	Peak
10480.00	19.90	23.80	43.70	54.00	-10.30	V V	otek AVG And
15720.00	20.97	30.03	51.00	54.00	-3.00	Over V Pur	AVG
10480.00	20.38	23.80	44.18	54.00	-9.82	Anbotek H	AVG
15720.00	20.50	30.03	50.53	54.00	-3.47	_bH ^k	AVG

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case (802.11a) is recorded in the report.









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0. by.		746. 740	,		PO. P.	0.4	710.
		TM3 /	Band: 5250-	5350 MHz / E	3W: 80		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10580.00	27.74	23.86	51.60	68.20	-16.60	P.A.	Peak
15870.00	28.20	31.16	59.36	68.20	-8.84	k Nupote	Peak
10580.00	27.97	23.86	51.83	68.20	-16.37	nek H nob	Peak
15870.00	28.20	otek 31.16 And	59.36	68.20	-8.84 PATE	Н	Peak
10580.00	17.97	23.86	41.83	54.00	-12.17	upo, A	AVG
15870.00	18.71	31.16	49.87	54.00	-4.13	Aupof	AVG
10580.00	18.21	23.86	42.07	54.00	-11.93	Hotok	AVG
15870.00	18.57	31.16	49.73	54.00	-4.27	Hotek	AVG

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case (802.11ac(VHT80)) 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_RLAN

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 -----

