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FCC Test Report

Applicant Iton Technology Corp.

Room 1302, Block A, Building 4, Tianan Cyber **Address**

Park, Huangge North Road, Longgang District,

Shenzhen, Guangdong, China

Wi-Fi + BT Combo Module **Product Name**

: Jul. 25, 2024 **Report Date**

Shenzhen Anbotek Con Anbotek



ce/Laboratory Limited







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TEST REPORT

Applicant : Iton Technology Corp.

Manufacturer : Iton Technology Corp.

Product Name : Wi-Fi + BT Combo Module

Model No. AW55U1-50B1, AW55U1-50B2, AW55U1-50B3, AW55U1-50B4,

AW55U1-50B5

Trade Mark : N/A

Rating(s) : Input: DC 3.3V

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 Client Without DFS 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:	Jun. 19, 2024
	tek Upotek Aupor Al.
Date of Test: Jun.	. 19, 2024 to Jul. 17, 2024
Anbotek Anbotek Anbotek Anbotek	Tu 7u Hong
Prepared By:	And And And
	(TuTu Hong)
Anbotek Anbotek Anbotek Anbotek Anbotek	dward pan
Approved & Authorized Signer:	hbor And Andores And
	(Edward Pan)





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Revision History

	Report Version	Description	Issued Date
	Anbore R00 potek An	Original Issue.	Jul. 25, 2024
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1. General Information

1.1. Client Information

A 11 4	I Arthur C stek nobor All sk hoter Ar	100
Applicant	: Iton Technology Corp.	
Address	Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge North R Longgang District, Shenzhen, Guangdong, China	load,
Manufacturer	: Iton Technology Corp.	
Address	Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge North R Longgang District, Shenzhen, Guangdong, China	load,
Factory	: Iton Technology Corp.	
Address	Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge North R Longgang District, Shenzhen, Guangdong, China	load,

1.2. Description of Device (EUT)

Product Name	:	Wi-Fi + BT Combo Module
Model No.	:	AW55U1-50B1, AW55U1-50B2, AW55U1-50B3, AW55U1-50B4, AW55U1-50B5 (Note: All samples are the same except the model number and shield-can laser engraving information, PCB silk printing information, PCB solder mask color, so we prepare 'AW55U1-50B1' for test only.)
Trade Mark	:	N/A And stek Andorek Andorek Andorek Andorek Andorek Andorek
Test Power Supply	:	DC 3.3V via Debug board
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A of Ant potek Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	802.11a/n(HT20)/ac(VHT20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; U-NII Band 2C: 5500MHz to 5700MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(VHT40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; U-NII Band 2C: 5510MHz to 5670MHz; U-NII Band 3: 5755MHz to 5795MHz; 802.11ac(VHT80): U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz; U-NII Band 2A: 5290MHz; U-NII Band 3: 5775MHz
Number of Channel	:	802.11a/n(HT20)/ac(VHT20): U-NII Band 1: 4; U-NII Band 2A: 4;







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		U-NII Band 2C: 11; U-NII Band 3: 5;
		802.11n(HT40)/ac(VHT40):
		U-NII Band 1: 2;
		U-NII Band 2A: 2;
		U-NII Band 2C: 5; U-NII Band 3: 2;
		U-NII Band 3: 2; 802.11ac(VHT80):
		802.11ac(VHT80):
		U-NII Band 1: 1;
		U-NII Band 2A: 1;
		U-NII Band 2C: 2; 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);
Device Type	:	Client Devices
DFS Type		Slave without DFS
TPC Function		Without TPC
Antenna Type	:	Dipole Antenna
Antenna Gain(Peak)	:	WiFi 5.2G: 1.87dBi WiFi 5.3G: 2.11dBi WiFi 5.6G: 2.93dBi WiFi 5.8G: 3.16dBi
Damarie V		totel And the solution All K hotel

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

-10°	VII.	- 61	
Title	Manufacturer	Model No.	Serial No.
Acer Computer	And acer nootek	N19W3	2020AJ3862
Acer Computer Adapter	Lite-On Technology Corporation	PA-1650-58	KP06503020
ROG Rapture Quad- band Gaming Router	ASUSTeK Computer Inc	GT-AXE16000 (FCC ID: MSQ- RTAX5D00 IC:3568A- RTAX5D00)	RAIG5D2020695NL



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1.4. Operation channel list

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel Channel	Frequency (MHz)	Channel	Frequency (MHz)
36,50° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1	5180	Anbotek 38 Anbot	5190	42	5210
botek 40 Anbotek	5200	10 46 An	5230	sk Vpolen	Aups Viek
botek44 Anbr	5220	an Brek	Anbore An	potek / Anboten	And
48	5240	ek Inbotek	Vupor V	shotek / Anbot	Approview

Operation Band: U-NII Band 2A

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52 Andrews	5260 150 150 150 150 150 150 150 150 150 15	54	5270	58 Mbote	5290
56 ×	5280	62	5310	and and	otek \Vupour
60 Nek	5300	or I hote	K Woole	Aug	hbotek / Anbor
64	5320	Auport Am	otek \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	And	Anbotek Anb

Operation Band: U-NII Band 2C

- PO.	- 1111 - 11111 - 70	Ville	0/- 2/0.	V. V.	
Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530 And
104 nbox	5520	Anboration And	hotek 5550 Anbotel	122	5610
inbotek 108 Anbo	5540	118	5590	Jek Vupo	, nyotek
Anbot 112	5560 Model	126	5630	ipotek / Anbo	ek Inbotek
116	5580	134	5670	Anbotek / Anbo	otek / Anbotek
120	5600	upotek / Aupote	ek spotek	Aupord Ar	potek / Anbo
124 VOTE	5620	Anbotek / Anbo	ek sporek	Antorion	And Sofet Ar
botek 128 Anbotes	5640	Anbotok Ar	bot A A Sho	ick Yupoter	And
nbot 132 Anbo	5660	Aryotek	Aupo.	botek / Anbote	k Pun Potek
136	5680	lek Aupolek	Anbo / tek	anbotek / Anbot	An Potek
140	5700	botek / Anbotek	Ando	unpotek Au	DOLD Y WILL
		***	- V1V	•	







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Operation Band: U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	botek 151 Anboten	5755	155	5775
153	5765	159 knbo	5795	Auplien	Aupo ofely
botek 157 Anbotek	5785	anbotek Ar	port / All	sk Wpotek	Anbo
bote 161 Anbo	5805	anbbiek	Anbore Am	potek / Anboten	And
165	5825	ek Inpotek	Vupo, 1	botek / Anbote	Androk

1.5. Description of Test Modes

Pretest Modes	Descriptions
Anborek Anbore Anbore	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.
Anbotek TM2 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 Anbotek Anbotel	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.
Anborek TM4	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 Anborek Anborek Anborek
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
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	And Porck
Duty Cycle	Mode1,2,3	P
Emission bandwidth and occupied bandwidth	Mode1,2,3	P P
Maximum conducted output power	Mode1,2,3	P
Power spectral density	Mode1,2,3	hoot Pk
Channel Move Time, Channel Closing Transmission Time	Mode4	Anber P
DFS Detection Thresholds	Mode4	AP P
Band edge emissions (Conducted)	Mode1,2,3	, P ^{Anb}
Band edge emissions (Radiated)	Mode1,2,3	P AT
Undesirable emission limits (below 1GHz)	Mode1,2,3	Upore P
Undesirable emission limits (above 1GHz)	Mode1,2,3	Anbore P. ek
Note: P: Pass	Anbotek Anbotek	Anbort Anbort

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.
- 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				
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	Auport Losek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Band edge emissions (Conducted)

Duty Cycle

Emission bandwidth and occupied bandwidth

Maximum conducted output power

Power spectral density

Channel Move Time, Channel Closing Transmission Time

DFS Detection Thresholds

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal	Cal.Due Date
e ^x 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	102150	2024-05-06	2025-05-05
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
o*6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



Hotline



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	edge emissions (Ra sirable emission limi		Aupotek	Anborek	Aupotek	Anborek
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
nbore 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	Anboiek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
¹⁶ 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Unde	sirable emission limit	ts (below 1GHz)	Anbore.	Ans hotek	Anboiek	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
Anidotel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5,nb	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A Noon	k Vupo,	Anbotek



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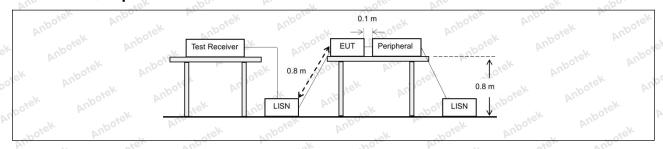
2. Conducted Emission at AC power line

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
Aupo, Vi	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 Env	fronment:
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.
tek 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



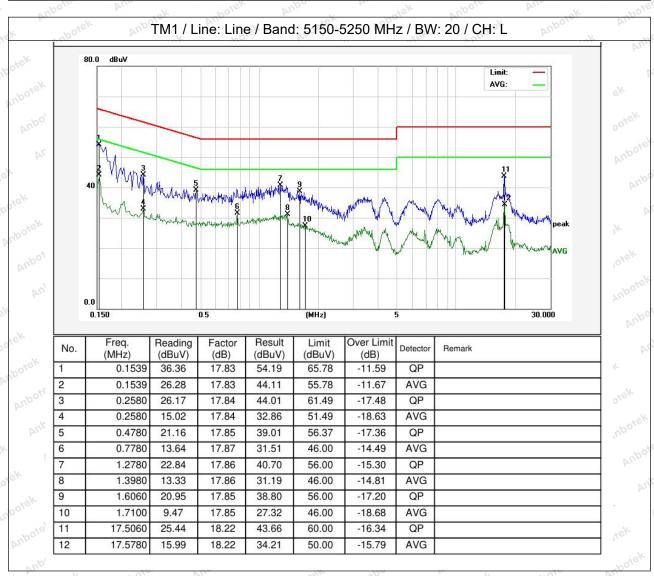




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2.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	aboiel	Atmospheric Pressure:	101 kPa
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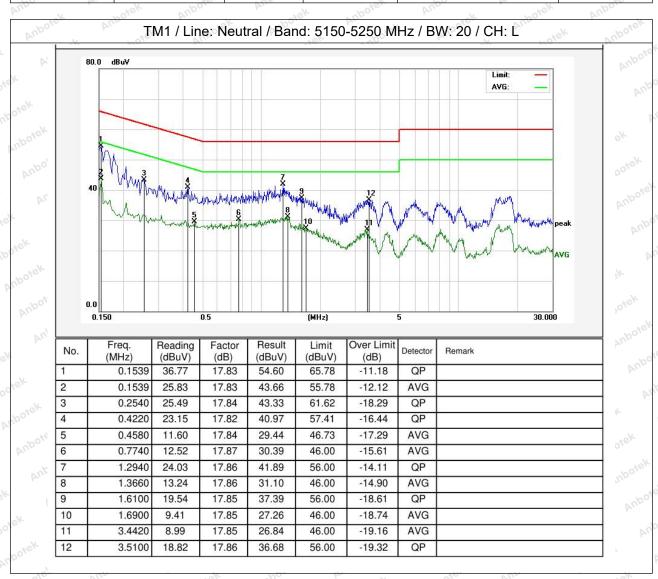






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Temperature: 25.5 °C Humidity: 47 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data (802.11a) in the report.





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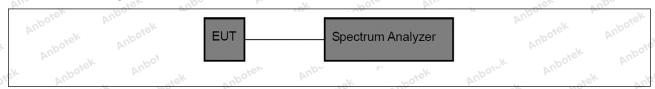
3. Duty Cycle

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 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.
otek Anborek Anborek	 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 Envir	onment:
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.

3.2. Test Setup



3.3. Test Data

Temperature:	25.5 °C	abotek	Humidity:	47 %	ek-	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.







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4. Emission bandwidth and occupied bandwidth

- abotek Anbote	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	Anbo Anbore Anbore Anborek Anbo
Anbore Arr	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Anbotek Anbo	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,
Ar. botek	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
Aupor Air	700, b. K. 200, Pup. Sk. 700,
	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%.
colek Anbore	An Andrew Andrew Andrew Andrew Andrew Andrew
	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
Procedure:	specified by the
	applicable requirement.
Anbo	c) Set the reference level of the instrument as required, keeping the signal
tek abover A	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
notek hotek	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.

4.1. EUT Operation

Operating Environment:

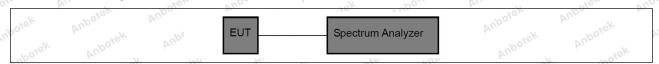
1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

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.

4.2. Test Setup



4.3. Test Data

Temperature: 25.5 °C	Humidity: 47 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

Shenzhen Anbotek Compliance Laboratory Limited





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5. Maximum conducted output power

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 t 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 conduct 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 t the directional gain of the antenna exceeds 6 dBi. Test Limit: For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. 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 to 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-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitted the same information. The operator of the U-NII device, or if the equipment	apo, A.	hoter All tek woo, W. ok hoter
output power over the frequency band of operation shall not exceed 250 m 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 t 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 conduct 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 t 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. 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 to 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 with any corresponding reduction in transmitter conducted power. Fixed, point-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitt the same information. The operator of the U-NII device, or if the equipmen professionally installed, the installer, is responsible for ensuring that system employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Test Method: ANSI C63.10-2013, section 12.4	Test Requirement:	47 CFR Part 15.407(a)(2)
Test Limit: For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. 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 to 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 with any corresponding reduction in transmitter conducted power. Fixed, point-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitted the same information. The operator of the U-NII device, or if the equipment professionally installed, the installer, is responsible for ensuring that system employing high gain directional antennas are used exclusively for fixed, point-to-point operations. Test Method: ANSI C63.10-2013, section 12.4	Anbotek	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
by the state of th	Anbotek	For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. 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.
Procedure: Refer to ANSI C63.10-2020 section 12.4	Test Method:	The Man was a second of the se
70. k. 70. V.	Procedure:	Refer to ANSI C63.10-2020 section 12.4

5.1. EUT Operation

Operating Environment:
1: 802.11a mode: Keep the EUT connect to AC power line and works in continuous 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 continuous 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. On



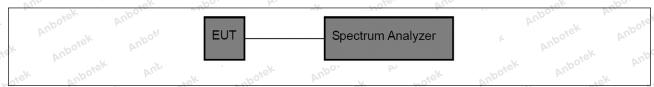




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the data of worst case is recorded in the report.

5.2. Test Setup



5.3. Test Data

1		10, D	10	200	-K ~0,	D1.
	Temperature:	25 5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kDa
	remperature.	23.3, 0	i lulliuity.	41 /0	Aunospheno Fressure.	IUIKFA
	V U .	- 1/-	WO.	_ **		W W

Please Refer to Appendix for Details.





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6. Power spectral density

po, k K	Poles Aug Stek John W. CK Poles
Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
tek 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 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 Limit: Anborek Anborek Anborek Anborek Anborek Anborek	For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. 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

6.1. EUT Operation

isotek p	1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously
VUD.	transmitting mode with 802.11a modulation type. All data rates has been tested and
Anboten	found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
-sk abotel	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
Test mode:	been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anbotek A	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
Anbotek	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.

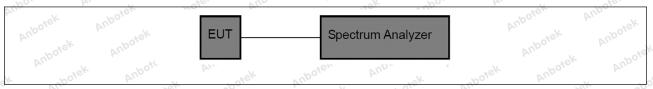






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6.2. Test Setup



6.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
. 2/0.12 2 : 2:12:12.12.1	=0.0		11 1/2	, m	10.111

Please Refer to Appendix for Details.





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7. Channel Move Time, Channel Closing Transmission Time

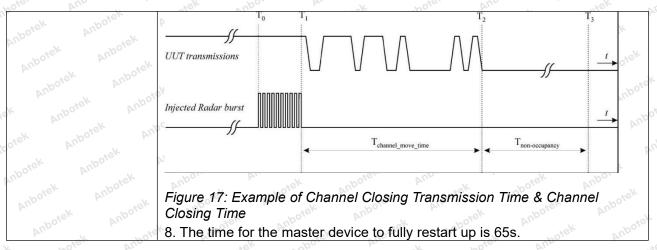
Test Requirement:	47 CFR Part 15.407(h)(2)(iii)
Anbotek Anbotek	Channel Move Time: within 10 seconds Channel Closing Transmission Time: 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (The Channel Closing
Test Limit:	Transmission Time is comprised of 200 milliseconds starting at the beginning
Pupp.	of the Channel Move Time plus any additional intermittent control signals
	required to facilitate a Channel move (an aggregate of 60 milliseconds)
upo ok hotek	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
Anborrou.	The state of the s
	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</i>
	Threshold + 1dB is generated on the Operating Channel of the U-NII device
	(In- Service Monitoring).
	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
And hotek	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 Client Device (with or
	without DFS), a U-NII device operating as a <i>Master Device</i> will be used to
	allow the UUT (Client device) to Associate with the Master Device . 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 Associate with the UUT
	(Master). In both cases for conducted tests, the <i>Radar Waveform</i> generator
abotek Anbo	will be connected to the <i>Master Device</i> . For radiated tests, the emissions of
	the Radar Waveform generator will be directed towards the Master Device.
Procedure:	If the <i>Master Device</i> has antenna gain, the main beam of the antenna will be
Anb	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</i>
	Device on the test Channel 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
	Operating Channel . 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 <i>Burst</i> on
	the <i>Operating Channel</i> for duration greater than 10 seconds. Measure and
W.D.	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.
	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 Client Device with In-
i siek	Service Monitoring, perform steps 1 to 6.







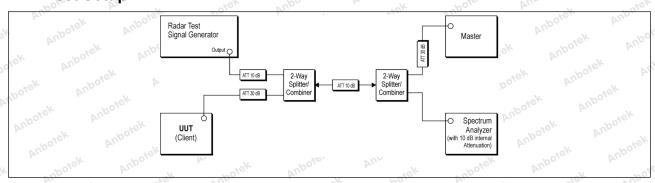
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7.1. EUT Operation

Operating Environment: 4: Normal Operating: Keep the EUT works in normal operating mode and connect to Test mode: companion device

7.2. Test Setup



7.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
VO. Dv.	1 20	~ UV	- 1/4	V0. N.	740.

Please Refer to Appendix for Details.



Hotline

400-003-0500



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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:	Vupotek			Anbore.	Ann
Test mode:	4: Normal Operating:	Keep the EUT	works in nor	mal operating	mode and	connect to
rest mode.	companion device	And	botek	Aupo,	br.	sk about

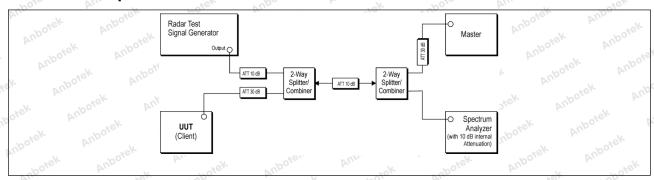






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8.2. Test Setup



8.3. Test Data

0	Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
	Tomporataro.	20.0	biaimanty.	17 70	7 tarroopriorio i roccaro.	10 Part of

Please Refer to Appendix for Details.





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9. Band edge emissions (Conducted)

	- AV	~0. P.	_%&.	~ OV	No.	~0.
	Anbore.	47 CFR Part 15.407(b)(1)	Aupo	r. Ciek	Anbois	AUR
		47 CFR Part 15.407(b)(2)	apoier			Aupo,
	Test Requirement:	47 CFR Part 15.407(b)(3)				hote
	h. Stek Anboti	47 CFR Part 15.407(b)(4)				Vur
46	W Aupo. K	47 CFR Part 15.407(b)(10)	ek abote	Vupo,	-k hote	K Anb

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Toet	ı	imit:	

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
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
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2) Lotek
13.36-13.41	Aupor Arr	195 - 195-	View Vinn

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

² Above 38.6









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otek Anbore A		or k botek A	upo, Ve.
ak abotek	The field strength of emiss	sions appearing within thes	se frequency bands shall
Anbore Arr	not exceed the limits show	n in § 15.209. At frequenc	cies equal to or less than
	1000 MHz, compliance with	th the limits in § 15.209sha	all be demonstrated
	using measurement instru	mentation employing a CIS	SPR quasi-peak
	detector. Above 1000 MHz	z, compliance with the emi	ssion limits in §
A. Otek Anboi	15.209shall be demonstra	ted based on the average	value of the measured
	emissions. The provisions	in § 15.35apply to these n	neasurements.
	k cotek Ant		abotek Anbe
	Except as provided elsewh		
hotek Anbo.	intentional radiator shall no	ot exceed the field strength	n levels specified in the
	following table:	Anbore And	potek Anbo
	Frequency (MHz)	Field strength	Measurement
sofek Anbore	All abover	(microvolts/meter)	distance
And	ek Anbore Arr	k aboten And	(meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30 do 100 pm
	1.705-30.0	30 botek An	30
	30-88	100 **	botel 3 Anbo
	88-216	150 **	AND O TOTOK
	216-960	200 **	Anbor 3 Ans
	Above 960	500	3er Ancor
	** Except as provided in p	V 1201	D.C.
	intentional radiators opera		
	frequency bands 54-72 MI		
sk abotek Ant	However, operation within		
	sections of this part, e.g.,		permitted under other
	In the emission table above		at the hand edges
	The emission limits shown		
	employing a CISPR quasi-		- XC.
	90 kHz, 110–490 kHz and		
	these three bands are bas		
	detector.	K Kotek Anbort	Plus Sek Spot
Test Method:	ANSI C63.10-2020, sectio	n 12.7.4. 12.7.6. 12.7.7	otek Aupon K
- Stek	NOTO ALL	Polok Pupos, - HV	Cick Vupore, Mu
	Above 1GHz:	IT was also and so the tow	of a matation table 1.5
	a. For above 1GHz, the El		
	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 v		
	ground to determine the m		
Procedure:	and vertical polarizations of		
	d. For each suspected em and then the antenna was		
	test frequency of below 30		
	and the rotatable table wa	s turried from 0 degrees to	5 300 degrees to lind the
	maximum reading. e. The test-receiver syster	n was set to Poak Dotact I	Function and Specified
	Bandwidth with Maximum		unction and Specified
	f. If the emission level of the		10dB lower than the
	limit specified, then testing		
		こししいい いき ろいしいせん すけい けん	- DUAN VAIDES UI LIE EUT









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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 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

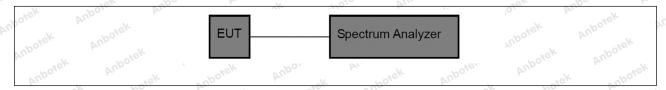
Operating Environment:

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

- 1		101	700		Ol.,	200	
- 1	Temperature:	DE E OC	Humidity:	17 0/	Atmoonharia Drocoura:	101 kDa	
- 1	remperature.	23.3 C	M TUITIUILV.	4/ 70	Atmospheric Pressure:	IUIKPA	

Please Refer to Appendix for Details.





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10. Band edge emissions (Radiated)

	, N - K	70. N.	_XO.	V Ula		VAV.
	anbore.	47 CFR Part 15.407(b)(1)	Aupo.	rojek.	Anbore	Vur Fek
		47 CFR Part 15.407(b)(2)	aboten			Aupo,
	Test Requirement:	47 CFR Part 15.407(b)(3)				hote
		47 CFR Part 15.407(b)(4)				And
6	K Anbo. K A.	47 CFR Part 15.407(b)(10)	ek abote	Anbo	-k hote	K AND

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test Limit:

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
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
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2) soiek
13.36-13.41	Vupo, Vi	de de	View Vup

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



² Above 38.6



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*ek abotek		trength of emiss					
		I the limits show					
		compliance wit					ed
	using meas	surement instru	mentation em	nploying a	CISPR qu	asi-peak	
		bove 1000 MHz					
		ll be demonstra					
	emissions.	The provisions	in § 15.35ap	ply to thes	e measure	ements.	
k aboten	And				aborer		
		provided elsewh					
otek Anbo		radiator shall no	ot exceed the	field stren	igth levels	specified	in the
	following ta	able:	Vupore	VII.	, oo'	iek Ai	100
	Frequenc	y (MHz)	Field stren	gth wood	81.	Measure	ment
	D	ik aboten	(microvolts	/meter)	iek M	distance	
	hotek Anbor	A.	k aporer	And	-14	(meters)	Anb
	0.009-0.4		2400/F(kH	z) (pole.	300	
	0.490-1.7	05	24000/F(kl	Hz)	atek.	30,000	C
	1.705-30.		30	boter	AUD	30	ek
	30-88	work t	100 **	,eK	Spojex	3 Anbo	V
	88-216	Aug	150 **	Vupo,	Pri	s\3	boter
	216-960	Vupo _{4St}	200 **	hotek	Vupo,	3	ate!
	Above 96	0 stek	500	Nu	40	3	PUPO.
	1.00	as provided in p		fundamon	tal omissi	-	-00
	intentional	radiatore apara	aragrapii (g), iting under thi	o cootion o	chall not be	ologotod i	in the
		radiators opera					
		bands 54-72 Mi					
		peration within			is permitte	ed under (other
	sections of	this part, e.g.,	§§ 15.231 an	d 15.241.			
		sion table abov					
		ion limits shown					
		a CISPR quasi-					
		0–490 kHz and					
		e bands are bas	ed on measu	rements e	mploying a	an averag	e Pur
Anbo	detector.	You VII.	ek aboti	AU _E	, v	: otek	20
est Method:	ANSI C63.	10-2020, sectio	n 12.7.4, 12.7	7.6, 12.7.7	Aupoter.	VUP.	<i>Y</i> -
k hotek	Above 1GF	17. sek	Pur Vui	- a/s	hotek	Aupo,	
		ve 1GHz, the El	UT was place	d on the to	op of a rota	ating table	1 5
		ove the ground					
		degrees to de					
		Γ was set 3 met					
	- 4.O.	mounted on the	V.V.				icilia
		enna height is v					the -
		determine the m					
		al polarizations of					
ocedure:							
	1(1)	n suspected em	5/65*		. •		
		ne antenna was					
- v 016		ncy of below 30					
		atable table wa	s turned from	u aegrees	3 to 360 de	egrees to	iina the
	maximum ı		Anbor	b.,.	*e\	boten	VUD.
		-receiver syster		eak Dete	ct Function	n and Spe	cified
	27.7.	with Maximum			botek	Aupo.	by
	CLO' DV	ission level of th	NO		as 10dB lo	ower than	the
			could be sto			-100	









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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.
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10.1. EUT Operation

Operating Environment:

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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.



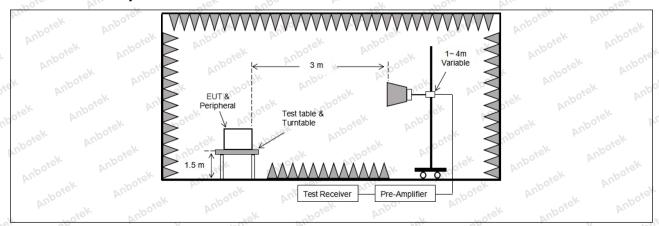






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10.2. Test Setup







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10.3. Test Data

Temperature: 25.5 °C Humidity: 47 %	Atmospheric Pressure:	101 kPa
-------------------------------------	-----------------------	---------

- No.	. No.	La.	ate.	VUD	No.	-700.	Part and a second
		TM1 / B	and: 5150-5	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.95	15.99 h	52.94	68.20	-15.26	workH A	Peak
5150.00	39.01	15.99	55.00	68.20	-13.20	V.	Peak
5150.00	26.89	15.99	42.88	54.00	-11.12	Ans Hick	AVG
5150.00	28.94	15.99	44.93	54.00	-9.07	AND STOK	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	37.53	16.43	53.96	68.20	-14.24	H	Peak
5350.00	40.57	16.43	57.00	68.20	-11.20	Aug A'ek	Peak
5350.00	28.91	16.43	45.34	54.00	-8.66	Anh H	AVG
5350.00	29.75	16.43	46.18	54.00	-7.82	N/poles	AVG

Remark:

1. Result=Reading + Factor

1. Result-Re	eading + Fact	Oh William	<u> </u>	och No.	O. br.		oie. An
		TM2 / B	and: 5150-53	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.02	15.99	52.01	68.20	-16.19	And H Nek	Peak
5150.00	37.45	15.99	53.44	68.20	-14.76	App.	Peak
5150.00	26.74	15.99	42.73	54.00	-11.27 · · · · · · · · · · · · · · · · · · ·	H bubbe	AVG
5150.00	27.72	15.99	43.71 AND	54.00	-10.29 _M	otek V And	AVG
		TM2 / B	and: 5150-53	50 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	37.72	16.43	54.15	68.20	-14.05	PH	Peak
5350.00	38.77	16.43	55.20	68.20	-13.00	VAnbo.	Peak
5350.00	27.75	16.43	44.18	54.00	-9.82	orek H Anb	AVG
5350.00	29.19	16.43 And	45.62	54.00	-8.38	VietV	AVG

Remark:







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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	36.63	15.99	52.62	68.20	-15.58	k Hupoten	Peak
5150.00	38.47 ₀₀ 000	15.99	54.46	68.20 100T	-13.74	otek V Anbo	Peak
5150.00	27.21	otel 15.99 And	43.20	54.00 pm	-10.80	H-Verton	AVG
5150.00	28.81	15.99	44.80	54.00	-9.20	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	38.18	16.43	54.61	68.20	-13.59	tek H anboi	Peak
5350.00	37.01	16.43 M	53.44	68.20 M	-14.76	V V	Peak
5350.00	28.46	16.43	44.89	54.00	-9.11 P	H by	AVG
5350.00	29.69	16.43	46.12	54.00	-7.88	Anbord	AVG

Remark:

^{1.} Result=Reading + Factor

		TM3 / B	and: 5150-53	350 MHz / BV	V: 20 / 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	And Hek	Peak
5150.00	38.88	15.99	54.87	68.20	-13.33	Anby Mek	Peak
5150.00	26.65	15.99	42.64	54.00	-11.36	H	AVG
5150.00	28.90	15.99	44.89	54.00	ek -9.11 noot	VANDO	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	37.97	16.43	54.40	68.20	-13.80	Ans H stek	Peak
5350.00	38.21	16.43	54.64	68.20	-13.56	AV	Peak
5350.00	27.91	16.43	44.34	54.00	-9.66	K Hanbore	AVG
5350.00	28.52	16.43	44.95	54.00	-9.05	otek V probin	AVG

Remark:





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		TM3 / 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	36.04	15.99	52.03	68.20	-16.17	HA H	Peak
5150.00	36.43	15.99	52.42	68.20	-15.78	Nupp.	Peak
5150.00	26.29	15.99	42.28	54.00	11.72	otek H Anbo	AVG
5150.00	26.96	15.99	42.95	54.00	-11.05	nbotek V A	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	38.16	16.43	54.59	68.20	-13.61	Hup	Peak
5350.00	37.27	16.43	53.70 moot	68.20	-14.50	tek A Vupo	Peak
5350.00	27.58	16.43	44.01	54.00	-9.99	otek H An	AVG N
5350.00	27.68	16.43	44,11	54.00	-9.89	V	AVG

Remark:

1. Result=Reading + Factor

The Automotive Automot	1070	8/11	201	- 40-	V.	Lm 07	D'1.
		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	36.11	15.99	52.10	68.20	-16.10	H	Peak
5150.00	36.62	15.99	52.61	68.20	-15.59	Anbe Vek	Peak
5150.00	26.78	15.99	42.77	54.00	-11.23	Anb H tek	AVG
5150.00	26.98	15.99	42.97	54.00	-11.03	V.	AVG
		TM3 / B	and: 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	38.48	16.43	54.91	68.20	-13.29	And Hk	Peak
5350.00	37.59	16.43	54.02	68.20	-14.18	Aup Aup	Peak
5350.00	29.02	16.43	45.45	54.00	-8.55	AHO TO	AVG
5350.00	28.25	16.43	44.68	54.00	-9.32	k Aupote	AVG
. 40		V	0//		.81		V0

Remark:





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		TM1 / B	and: 5470-5	850 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	38.51	16.37	54.88	68.20	-13.32	WHO,	Peak
5460.00	40.02	16.37	56.39	68.20	-11.81	v V shotek	Peak
5470.00	39.44	16.70	56.14	68.20	-12.06	H	o Peak o
5470.00	40.31	16.70	57.01 m	68.20	-11.19	OLEN A VUDE	Peak
5460.00	29.01	16.37	45.38	54.00	-8.62	botekH Ar	AVG
5460.00	28.91	16.37	45.28	54.00	-8.72	V	AVG
5470.00	29.28	16.70	45.98	54.00	-8.02	And H ok	AVG
5470.00	30.42	16.70	47.12	54.00	-6.88	PU.	AVG
		TM1 / B	and: 5470-58	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
5850.00	39.52	17.21 ATT	56.73	68.20	-11.47	Lotek H An	Peak Pr
5850.00	39.95	17.21	57.16	68.20	-11.04	V	Peak
5850.00	29.44	17.21	46.65	54.00	-7.35	Anbort H	AVG
5850.00	29.39	17.21	46.60	54.00	-7.40	VUIA,	AVG

Remark:

1. Result=Reading + Factor

		TM2 / B	and: 5470-58	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	38.51	16.37	54.88	68.20	-13.32	AUDO H	Peak
5460.00	39.19	16.37	55.56	68.20	-12.64	AnbP	Peak
5470.00	38.62	16.70	55.32	68.20	-12.88	Hookek	Peak
5470.00	39.14	16.70	55.84	68.20	-12.36	V Note	Peak
5460.00	27.34	16.37	43.71	54.00	-10.29	HAM	AVG N
5460.00	27.86	16.37	44.23	54.00	-9.77	potek V Anb	AVG
5470.00	27.78	16.70 ATT	44.48	54.00	-9.52	, He'r	AVG
5470.00	28.40	16.70	45.10	54.00	-8.90	AUR NA	AVG
		TM2 / B	and: 5470-58	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
5850.00	37.76	17.21	54.97	68.20	-13.23	Handa	Peak
5850.00	38.28	17.21	55.49	68.20	-12.71	otek V Anios	Peak
5850.00	28.12	o ^{tel} 17.21 And	45.33	54.00	-8.67	H	bote AVG N
5850.00	28.82	17.21	46.03	54.00	-7.97	Nupp A	AVG

Remark:







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	*	TM2 / B	and: 5470-58	850 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	38.09	16.37	54.46	68.20	-13.74	"Ho _{tot}	Peak
5460.00	39.07	16.37	55.44	68.20	-12.76	k V botek	Peak
5470.00	38.92	16.70	55.62	68.20	-12.58	H	Peak
5470.00	39.68	16.70	56.38 50°	68.20	-11.82	oter A Vupo	Peak
5460.00	27.12	16.37	43.49	54.00	-10.51	botek H M	AVG
5460.00	28.90	16.37	45.27	54.00	-8.73	V	AVG
5470.00	27.32	16.70	44.02	54.00	-9.98	Aug H K	AVG
5470.00	28.58	16.70	45.28	54.00	-8.72	PUA.	AVG
		TM2 / B	and: 5470-58	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
5850.00	38.45	17.21 And	55.66	68.20	-12.54	otek H An	Peak Am
5850.00	38.74	17.21	55.95	68.20	-12.25	V	Peak
5850.00	28.66	17.21	45.87	54.00	-8.13	Pupo, H	AVG
5850.00	29.66	17.21	46.87	54.00	-7.13	an Vier	AVG

Remark:

1. Result=Reading + Factor

		TM3 / B	and: 5470-58	850 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	37.68	16.37	54.05	68.20	-14.15	Anbote H	Peak
5460.00	37.68	16.37	54.05	68.20	-14.15	Nek	Peak
5470.00	38.26	16.70	54.96	68.20	-13.24	H Nek	Peak
5470.00	38.48	16.70	55.18	68.20	-13.02	V	Peak
5460.00	28.23	16.37	44.60	54.00	-9.40	ek Hanbore	AVG
5460.00	29.00	16.37	45.37	54.00 mb°	-8.63	stek V no	AVG AND
5470.00	28.51	16.70	45.21	54.00	-8.79	Н	AVG
5470.00	29.46	16.70	46.16	54.00	-7.84	Yupou A	AVG
		TM3 / B	and: 5470-58	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
5850.00	38.42	17.21	55.63	68.20	-12.57	k Hanbore	Peak
5850.00	39.24	17.21	56.45	68.20	-11.75	V	Peak nbo
5850.00	28.23	17.21 And	45.44 And	54.00	otek-8.56 Ant	H	AVG
5850.00	29.42	17.21	46.63	54.00	-7.37	Note V A	AVG

Remark:





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<u> </u>	* *	740. 70.		- ^/-	Mo		7/0
		TM3 / B	and: 5470-58	850 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	36.59	16.37	52.96	68.20	-15.24	"Ho _{ter}	Peak
5460.00	38.02	16.37	54.39	68.20	-13.81	k V botek	Peak
5470.00	37.02	16.70	53.72	68.20	-14.48	H	Peak
5470.00	38.36	16.70	55.06	68.20	13.14	oter V Ande	Peak
5460.00	27.54	16.37	43.91	54.00	-10.09	hotek H Ar	AVG
5460.00	27.63	16.37	44.00	54.00	-10.00	V	AVG
5470.00	27.79	16.70	44.49	54.00	-9.51	Pupp H ok	AVG
5470.00	28.44	16.70	45.14	54.00	-8.86	AUD TO	AVG
		TM3 / B	and: 5470-58	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
5850.00	37.91	17.21	55.12	68.20	-13.08	otek H an	Peak An
5850.00	38.86	17.21	56.07	68.20	-12.13	V	Peak
5850.00	27.94	17.21	45.15	54.00	-8.85	₽upo,H	AVG
5850.00	27.65	17.21	44.86	54.00	-9.14	N/A/S	AVG

Remark:

1. Result=Reading + Factor

1. I COOUL TO	sading . I do		and: E470 F	DEO MULL / DV	V: 00 / I		, VU _n			
TM3 / Band: 5470-5850 MHz / BW: 80 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5460.00	35.84	16.37	52.21	68.20	-15.99	AuporeH	Peak			
5460.00	37.46	16.37	53.83	68.20	-14.37	Nek	Peak			
5470.00	36.20	16.70	52.90	68.20	-15.30	H rek	Peak			
5470.00	38.41	16.70	55.11	68.20	-13.09	V	Peak			
5460.00	26.26	16.37	42.63	54.00	-11.37	ek Hanbon	AVG			
5460.00	27.22	16.37	43.59	54.00	-10.41	dna V Yata	AVG			
5470.00	27.01	16.70	43.71	54.00	-10.29	Н	AVG			
5470.00	27.43	16.70	44.13	54.00	-9.87	Aupolo	AVG			
		TM3 / B	and: 5470-58	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			
5850.00	38.11	17.21	55.32	68.20	-12.88	k Hanbote	Peak			
5850.00	38.28	17.21	55.49	68.20	-12.71	V V	Peak noo			
5850.00	28.66	17.21	45.87	54.00	otel -8.13 M	H	AVG			
5850.00	28.63	17.21	45.84	54.00	-8.16	nbote V	AVG			

Remark:





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11. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	And Andrew Andrew	or All
Aupotek Aupotek	Unwanted emissions below strength limits set forth in §	1 GHz must comply with the ge 15.209.	neral field
tek Anbotek An		ere in this subpart, the emission 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 operat 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	ons from e located in the 470-806 MHz.
	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 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	And tek
	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 rota t a 3 meter semi-anechoic cham determine the position of the hi meters away from the interference ed on the top of a variable-heigh ried from one meter to four meter aximum value of the field strength	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 test frequency of below 30I 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
Anborek Anborek Anborek Anborek	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.

11.1. EUT Operation

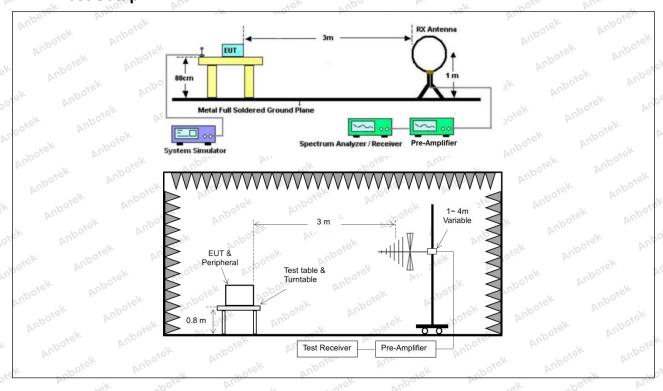
Operating Environment:

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









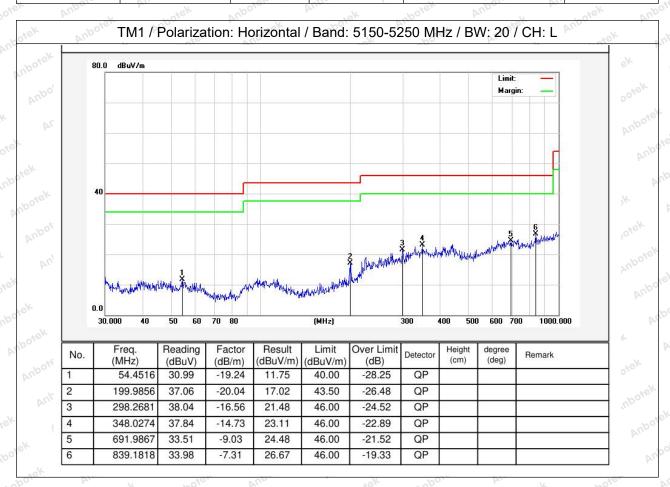


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11.3. Test Data

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

Temperature:	25.5 °C	Hum	nidity: 47 %	Atmo	spheric Pressur	e: 101 kPa

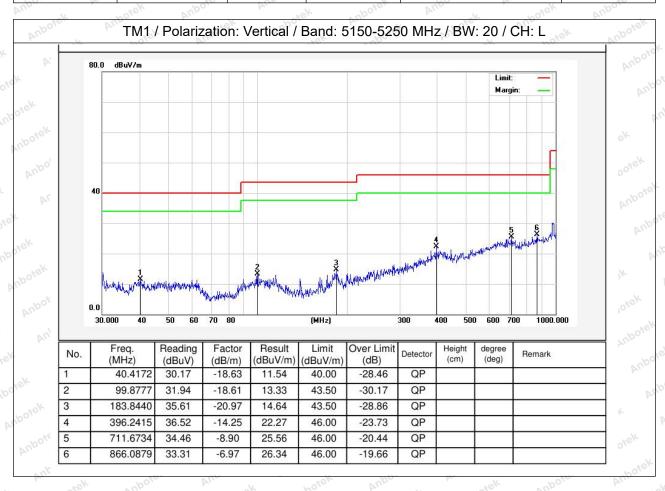






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Temperature: 25.5 °C Humidity: 47 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data (802.11a) in the report.







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12. Undesirable emission limits (above 1GHz)

	- AV	~0. P.	_%&.	~ OV	No.	~0.
	Anbore.	47 CFR Part 15.407(b)(1)	Aupo	r. Ciek	Anbois	AUR
		47 CFR Part 15.407(b)(2)	apoier			Aupo,
	Test Requirement:	47 CFR Part 15.407(b)(3)				hote
	h. Stek Anboti	47 CFR Part 15.407(b)(4)				Vur
46	W Aupo. K	47 CFR Part 15.407(b)(10)	ek abote	Vupo,	-k hote	K Anb

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test Limit:

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
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
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2) soiek
13.36-13.41	Vupo, Vi	de de	View Vup

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

² Above 38.6









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*ek abotek		trength of emiss					
		I the limits show					
		compliance wit					ed
	using meas	surement instru	mentation em	nploying a	CISPR qu	asi-peak	
		bove 1000 MHz					
		ll be demonstra					
	emissions.	The provisions	in § 15.35ap	ply to thes	e measure	ements.	
k aboten	And				aborer		
		provided elsewh					
otek Anbo		radiator shall no	ot exceed the	field stren	igth levels	specified	in the
	following ta	able:	Vupore	VII.	, oo'	iek Vi	100
	Frequenc	y (MHz)	Field stren	gth wood	81.	Measure	ment
	D	ik aboten	(microvolts	/meter)	iek M	distance	
	hotek Anbor	A.	k aporer	And		(meters)	Anb
	0.009-0.4		2400/F(kH	z) (pole.	300	
	0.490-1.7	05	24000/F(kl	Hz)	atek.	30,000	C
	1.705-30.		30	boter	AUD	30	ek
	30-88	work t	100 **	,eK	Spojex	3 Anbo	V
	88-216	Aug	150 **	Vupo,	Pri	s\3	boter
	216-960	Vupo _{4St}	200 **	hotek	Vupo,	3	,te
	Above 96	0 stek	500	Nu	40	3	PUPO.
	1.00	as provided in pa		fundamon	tal omissi	_	-00
	intentional	radiatore apara	aragrapii (g), iting under thi	o cootion o	chall not be	ologotod i	in the
		radiators opera					
		bands 54-72 Mi					
		peration within			is permitte	ed under (other
	sections of	this part, e.g.,	§§ 15.231 an	d 15.241.			
		sion table abov					
		ion limits shown					
		a CISPR quasi-					
		0–490 kHz and					
		e bands are bas	ed on measu	rements e	mploying a	an averag	e Pur
Anbo	detector.	You VII.	ek abore	AU _E	, v	: otek	20
est Method:	ANSI C63.	10-2020, sectio	n 12.7.4, 12.7	7.6, 12.7.7	Aupoter.	VUP.	<i>Y</i> -
k hotek	Above 1GF	17. sek	Pur Vui	- ok	hotek	Aupo,	
		ve 1GHz, the El	UT was place	d on the to	op of a rota	ating table	1 5
		ove the ground					
	V() *	degrees to de		- AV			
		Γ was set 3 met					
	- 4.O.	mounted on the	V.V.				icilia
		enna height is v					the -
		determine the m					
ocedure:		l polarizations o					
	1(1)	n suspected em	5/65*		. •		
		ne antenna was					
- v 016		ncy of below 30					
		atable table wa	s turned from	u aegrees	3 to 360 de	egrees to	iina the
	maximum ı		Anbor	b.,.	*e\	boten	VUD.
		-receiver syster		eak Dete	ct Function	n and Spe	cified
	27.7.	with Maximum			botek	Aupo.	by
	CLO' DV	ission level of th	NO		as 10dB lo	ower than	the
			could be sto			-100	









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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 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.

12.1. 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.

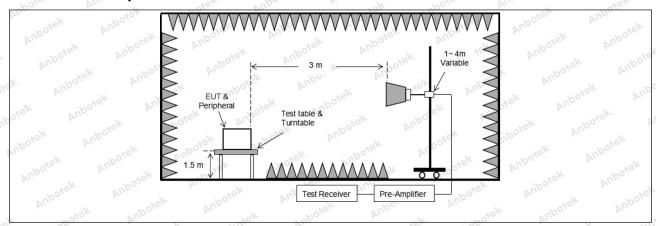






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12.2. Test Setup







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12.3. Test Data

Temperature: 25.5 °C Humidity: 47 % Atmospheric Pressure: 101 kPa

		TM2 / Ban	d: 5150-525	0 MHz / BW:	40 / CH: L	-111	- · · · · · · · · · · · · · · · · · · ·
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10380.00	29.44	23.81 M	53.25	68.20	-14.95	V	Peak
15570.00	30.62	28.91	59.53	68.20	-8.67	Wpo. A	Peak
10380.00	30.39	23.81	54.20	68.20	-14.00	Anbold	Peak
15570.00	31.32	28.91	60.23	68.20	-7.97	VI HO4SE	Peak
10380.00	20.10	23.81	43.91	54.00	-10.09	Vabotek	AVG
15570.00	20.53	28.91	49.44	54.00	-4.56	V V	AVG (both
10380.00	20.34	23.81	44.15	54.00	ore -9.85 and	H Amb	AVG
15570.00	20.56	28.91	49.47	54.00	-4.53	nbotek H Ar	AVG
		TM2 / Ban	d: 5150-5250	MHz / BW:	40 / CH: H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10460.00	29.66	23.80	53.46	68.20	-14.74	Kupote	Peak
15690.00	30.87	30.03	60.90	68.20	-7.30	rek V nbot	Peak
10460.00	30.36	23.80	54.16	68.20	-14.04	H	ote ^{ll} Peak M
15690.00	31.53	30.03	61.56	68.20	-6.64	Pos. A	Peak
10460.00	20.23	23.80	44.03	54.00	-9.97	Aupore	AVG
15690.00	20.48	30.03	50.51	54.00	-3.49	V PAN Sur	AVG
10460.00	20.36	23.80	44.16	54.00	-9.84	Horek	AVG
15690.00	20.46	30.03	50.49	54.00	-3.51	H	AVG

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case (802.11n(HT40)) is recorded in the report.





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		TM2 / Ban	d: 5250-535	0 MHz / BW:	40 / CH: L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10540.00	27.07	23.83	50.90	68.20	-17.30	P.V.	Peak
15810.00	28.81	30.70	59.51	68.20	-8.69	K Nupote	Peak
10540.00	27.61	23.83	51.44	68.20	-16.76	dek H no	Peak
15810.00	28.97	otel 30.70 prob	59.67	68.20	-8.53 Ant	Н	Peak
10540.00	16.92	23.83	40.75	54.00	-13.25	Nupor V	AVG
15810.00	17.95	30.70	48.65	54.00	-5.35	PUPO A	AVG
10540.00	17.29	23.83	41.12	54.00	-12.88	Hotek	AVG
15810.00	18.34	30.70	49.04	54.00	-4.96	H botek	AVG
5.00		TM2 / Ban	d: 5250-535	0 MHz / BW:	40 / CH: H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10620.00	27.75	23.90	51.65	68.20	-16.55	Ŋ.	Peak
15930.00	27.75	31.83	59.58	68.20	-8.62	Anb V.K	Peak
10620.00	28.41	23.90	52.31	68.20	-15.89	AnH	Peak
15930.00	28.50	31.83	60.33	68.20	-7.87	Hupoter	Peak
10620.00	18.04	23.90	41.94	54.00	-12.06	ek V nbot	AVG
15930.00	17.39	31.83	49.22	54.00	-4.78	V	AVG N
10620.00	18.46	23.90	42.36	54.00	-11.64	Apole H BU	AVG
15930.00	17.59	31.83	49.42	54.00	-4.58	nbotell H	AVG

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case (802.11n(HT40)) is recorded in the report.



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ter Vup.		riek nat	pore Ans	- ~ 1	hotel An	D. L.	riek
		TM3 / Bar	nd: 5470-572	5 MHz / BW:	40 / CH: L	1	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11020.000	27.43	24.12	51.55	68.20	-16.65	AV O	Peak
16530.000	27.61	32.96	60.57	68.20	-7.63	K VAnbore	Peak
11020.000	28.37	24.12	52.49	68.20	-15.71	otek H anbo	Peak
16530.000	27.31	32.96 And	60.27	68.20	-7.93 Ant	Н	Peak
11020.000	17.09	24.12	41.21	54.00	-12.79	Nupo. A	AVG
16530.000	17.73	32.96	50.69	54.00	-3.31	Auport.	AVG
11020.000	16.57	24.12	40.69	54.00	-13.31	Hotek	AVG
16530.000	17.41	32.96	50.37	54.00	-3.63	Hobotek	AVG
		TM3 / Ban	nd: 5470-572	5 MHz / BW:	40 / CH: M		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11180.000	26.65	23.86	50.51	68.20	-17.69	Ŋ.	Peak
16770.000	27.85	32.25	60.10	68.20	-8.10	Aup Aup A	Peak
11180.000	27.36	23.86	51.22	68.20	-16.98	AUH.	Peak
16770.000	27.52	32.25	59.77	68.20	-8.43	Hypoyer	Peak
11180.000	16.21	23.86	40.07	54.00	-13.93	ek V nbot	AVG
16770.000	16.46	32.25 no	48.71	54.00	-5.29 no	V	AVG
11180.000	16.36	23.86	40.22	54.00	-13.78	H by	AVG
16770.000	16.99	32.25	49.24	54.00	-4.76	AnboteH	AVG
		TM3 / Bar	nd: 5470-572	5 MHz / BW:	40 / CH: H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11340.000	27.65	23.60	51.25	68.20	-16.95	isk A Vupos	Peak
17010.000	27.85	31.58	59.43	68.20	-8.77	otek V Ant	Peak P
11340.000	26.36	23.60	49.96	68.20	-18.24	Н	Peak
17010.000	26.97	31.58	58.55	68.20	-9.65	Aupo, H	Peak
11340.000	17.00	23.60	40.60	54.00	-13.40	Anbolio	AVG
17010.000	17.70	31.58	49.28	54.00	-4.72	Notek	AVG
11340.000	16.84	23.60	40.44	54.00	-13.56	ek Habote	AVG
17010.000	17.59	31.58	49.17	54.00	-4.83	, Н	AVG

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case (802.11ac(VHT40)) is recorded in the report.







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		TM2 / Ban	d: 5725-585	0 MHz / BW:	40 / CH: L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11510.000	28.53	23.36	51.89	68.20	-16.31	P.V.	Peak
17265.000	29.03	32.02	61.05	68.20	-7.15	K Nupote	Peak
11510.000	29.30	23.36	52.66	68.20	-15.54	dek H no	Peak
17265.000	29.31	32.02	61.33	68.20	-6.87 Ant	Н	Peak
11510.000	18.22	23.36	41.58	54.00	-12.42	Nupor A	AVG
17265.000	18.58	32.02	50.60	54.00	-3.40	AUP OF	AVG
11510.000	18.52	23.36	41.88	54.00	-12.12	Hotek	AVG
17265.000	18.97	32.02	50.99	54.00	-3.01	H botek	AVG
0.00		TM2 / Ban	d: 5725-585	0 MHz / BW:	40 / CH: H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11590.00	27.81	23.43	51.24	68.20	-16.96	Ŋ.	Peak
17385.00	29.00	32.23	61.23	68.20	-6.97	Aup Aug	Peak
11590.00	28.41	23.43	51.84	68.20	-16.36	AUH.	Peak
17385.00	28.61	32.23	60.84	68.20	-7.36	Hoose	Peak
11590.00	17.41	23.43	40.84	54.00	-13.16	ek V nbot	AVG
17385.00	17.61	32.23	49.84	54.00	-4.16	V	AVG
11590.00	18.43	23.43	41.86	54.00	-12.14	Apole H BU	AVG
17385.00	18.56	32.23	50.79	54.00	-3.21	nbotell H	AVG

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case (802.11n(HT40)) 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 -----

