

18220WC30266102 FCC ID: 2AJFX-N5 Page 1 of 44 Report No.:

FCC Test Report

DDPAI Technology Co., Ltd. **Applicant**

28F, Building 8A International Innovation Valley, **Address**

Nanshan District, Shenzhen, China

Dash Cam Product Name

: Jan. 22, 2024 **Report Date**



ce Laboratory Limited







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TEST REPORT

Applicant : DDPAl Technology Co., Ltd.

Manufacturer : DDPAI Technology Co., Ltd.

Product Name : Dash Cam

Test Model No. : N5 Dual

Reference Model No. : N5, N5 Pro, N5 Ultra, N5 Plus

Trade Mark : DDPAI

Rating(s) : Input: 5V= 2A

47 CFR Part 15E

Test Standard(s)

ANSI C63.10-2020

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: Dec. 13, 2023
Anbotes And Lotek Anbotek Anbotek Anbotek Anbotek Anbotek
Date of Test: Dec. 13, 2023 to Jan. 22, 2024
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Prepared By:
Prepared By:
(Stella Zhu)
And tek Anbotek Anbot Anbotek Anbotek Anbotek Anbotek Anbotek
Idward pan
Approved & Authorized Signer:
(Edward Pan)







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Revision History

	Report Version	Description	Issued Date
	Anbore R00 potek An	Original Issue.	Jan. 22, 2024
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1. General Information

1.1. Client Information

Applicant	:	DDPAI Technology Co., Ltd.
Address	:	28F, Building 8A International Innovation Valley, Nanshan District, Shenzhen, China
Manufacturer	:	DDPAI Technology Co., Ltd.
Address	:	28F, Building 8A International Innovation Valley, Nanshan District, Shenzhen, China
Factory	:	DDPai vision equipment Co.,Ltd
Address	:	Building A, Futai Industrial Park, Qingfeng south Road, Keyuancheng, Tangxia Town, Dongguan city, Guangdong province, China

1.2. Description of Device (EUT)

Product Name	:	Dash Cam
Test Model No.	:	N5 Dual
Reference Model No.	:	N5, N5 Pro, N5 Ultra, N5 Plus (Note: All samples are the same except the model number, so we prepare "N5 Dual" for test only.)
Trade Mark	:	DDPALnbore Anborek Anborek Anborek Anborek Anborek Anborek
Test Power Supply	:	DC 5V via car charger
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Name: OBD intelligent step-down line Model: DC001 Input: 12V Output: 5V/2A
RF Specification		
Operation Frequency	:	802.11a/n(HT20)/ac(VHT20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; 802.11n(HT40)/ac(VHT40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; 802.11ac(VHT80): U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz;
Number of Channel	:	802.11a/n(HT20)/ac(VHT20): U-NII Band 1: 4; U-NII Band 2A: 4; 802.11n(HT40)/ac(VHT40): U-NII Band 1: 2;







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7010 VIII		of the policy of the policy Ali
		U-NII Band 2A: 2; 802.11ac(VHT80): 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)	:	5.2G: 2.43dBi 5.3G: 3.49dBi
Device Type		□ Outdoor AP □ Indoor AP □ Point-to-point AP
Device Type	•	⊠ Client
TPC Function	:	☐ With TPC ⊠ Without TPC
DFS Type	:	Slave without radar detection ☐ Slave with radar detection ☐ Master
		ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the

User's Manual.





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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Bluetooth Car Charger	Shenzhen Lohee Technology Co.,Ltd	CD229	80910
AX1500 Wi-Fi 6 Router	Micronet Union Technology(Chengdu) Co., Ltd	T262-T21D	FCC ID: 2A22E- WWYLT262

1.4. Operation channel list

Operation Band: U-NII Band 2A

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
otek 52 nobotek	5260	54 _{AN}	5270	58	5290
rock 56 Anbot	5280	62	5310 And	otek / Anbotek	Anbol
60	5300	ek /botek	Aupores Au	Lotek / Anbote	A Proof
64	5320	rek Inbotek	Aup Ofer	YUR POJEK PUP	otek /Anbor

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40 40	5200	46	5230	Anborr	botek / Anbote
44	5220	inpoles / Aug	tek Anborek	Pupo,	anborek / Anbr
48	5240	Anbore / Ans	hotek / Anbote	Anyo	Sport A

Hotline



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1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1 Anbotek	Keep the EUT 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 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 Anbotek An	Keep the EUT 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.
otek 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)	ek 3.4dBotek Anbotek Anbotek Anbotek
Conducted Output Power	0.76dBnbotek Anbott
Power Spectral Density	0.76dB Anbotek Anbotek Anbotek Anbotek
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 Andrek Andrek Andrek
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The measurement uncertainty and decision risk e	evaluated according to AB/WI-RE-F-032

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









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1.7. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Anbotek / Anboten	And N ofek
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	hoor Pk
Channel Move Time, Channel Closing Transmission Time	Mode4	Anbot P rek
DFS Detection Thresholds	Mode4	A P
Band edge emissions (Radiated)	Mode1,2,3	PARTE
Band edge emissions (Conducted)	Mode1,2,3	PAN
Undesirable emission limits (below 1GHz)	Mode1,2,3	nbone P
Undesirable emission limits (above 1GHz)	Mode1,2,3	Anbore P. ek
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anboro Anboro





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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

- 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.
- 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	Anbore	k Viii.	Anboiek	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	2023-10-12	2024-10-11
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	Anborok Aborek

Duty Cycle

Maximum conducted output power

Power spectral density

Emission bandwidth and occupied bandwidth

Band edge emissions (Conducted)

Channel Move Time, Channel Closing Transmission Time

DFS Detection Thresholds

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
e ^k 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 3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
× 5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22





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0,0	And	otek anbo.	N. Ok	pois.	VUL	- Yeigh
	edge emissions (Ra sirable emission limi		Aupo, otek	Anboiek	Aupoten	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 0.0	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
100 to 10	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
e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

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



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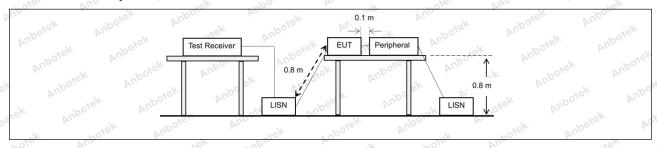
2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	ek hotek Ant	Jose Aug Otek
Yun Volek	Frequency of emission (MHz)	Conducted limit (dBµV) bojek Anbo
	And Andrew 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 20010
	5-30 And And	60 Potek Wupo,	50
otek Anbotek	*Decreases with the logarithm of the	ne frequency.	V Vupo.
Test Method:	ANSI C63.10-2020 section 6.2	Aug.	otek Anbote

2.1. EUT Operation

N.	Operating Envir	onment:	Aupa	upotek	Aupor	Purpotek	Anbores	VUD
	Test mode:	1 Anbotek	Anbo	Spotek	Anboro	Y. Potek	Anboten	Vup

2.2. Test Setup



2.3. Test Data

Not applicable. This is an in-vehicle device, which is intended to be installed on a vehicle only, not connect to the public utility under normal use.15.207 test is exempted.



Hotline



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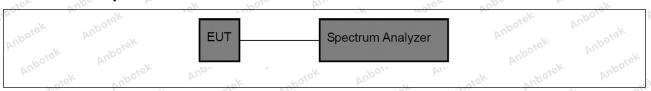
3. Duty Cycle

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)
Aupotek Aupotek	 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.
stek Aupotek Aup	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	1 2k 2/0, k, 1 1/2, kt, 1 1/2, kt
	1: 802.11a mode: Keep the EUT 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 in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data
Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
	3: 802.11ac mode: Keep the EUT 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:	25.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Tomporataro.	20.00	Trairingity.	19/100	/ tarricopriorio i roccaro.	MIOT KI G







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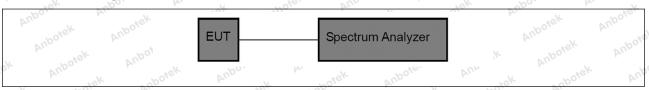
4. Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2)
Anbotek Anbotek Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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.
Test Method:	ANSI C63.10-2020, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4

4.1. EUT Operation

Operating Envi	ronment: Andrew Andrew Andrew Andrew Andrew
Anbotek Anbote	1: 802.11a mode: Keep the EUT 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 in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data
Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. 3: 802.11ac mode: Keep the EUT 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:	45 %	Atmospheric Pressure:	101 kPa







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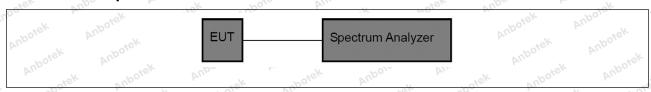
5. Power spectral density

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2)
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.
Anbotek Anbotek Anbotek Anbote	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	1 2k 2/0, k, 1 1/2, kt, 1 1/2, kt
	1: 802.11a mode: Keep the EUT 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 in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data
Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
	3: 802.11ac mode: Keep the EUT 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.

5.2. Test Setup



5.3. Test Data

Temperature:	25.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Tomporataro.	20.000	i idiiidity.	127/11/0	/ turrioopriorio i roccuro.	Prioriting







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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 Anbo	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					
orek Ant	as needed until the RBW/EBW ratio is approximately 1%.					
Ann	hotek Aupo, W. Jek Upoter Aug.					
	Occupied bandwidth:					
	a) The instrument center frequency is set to the nominal EUT channel center					
	frequency. The					
VI., Upolek	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					
k kotek	specified by the					
	applicable requirement.					
	c) Set the reference level of the instrument as required, keeping the signal					
Procedure:	from exceeding the					
aboren Anbe	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.					
Vi. Jek "Upo	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. Wolek	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:

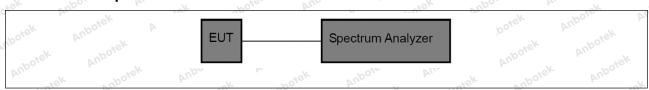
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT 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 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

Test mode:



6.3. Test Data

Temperature: 20.5 C Humbrig: 45 % Atmospheric Flessure: To rikea	Temperature:	25.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
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7. Channel Move Time, Channel Closing Transmission Time

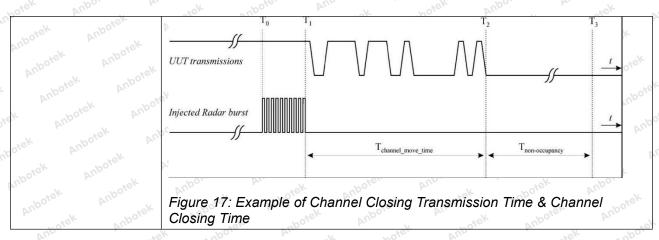
Test Requirement:	47 CFR Part 15.407(h)(2)(iii)
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Channel Move Time: within 10 seconds Channel Closing Transmission Time: 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (The Channel Closing Transmission 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.







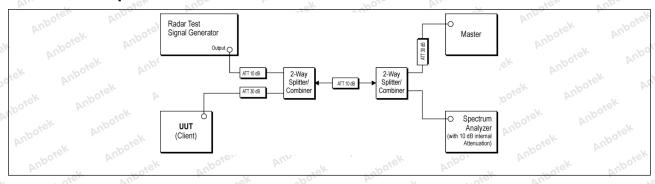
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7.1. EUT Operation

Operating Envir	ronment:	hotek	Anboien	Aupr	iek .	anboick	Auport	by.
Test mode:	4: Normal Operati	9	the EUT wo	ks in norr	mal oper	ating mo	de and cor	nnect to
holder mode.	companion device	· vupo.						

7.2. Test Setup



7.3. Test Data

18, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	Temperature: 25.3 °C Humidity: 45 % 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 I with Radar Detection Table 3: DFS Detection Thresholds for Ma and Client Devices with Radar De	ster Devices
ek Anbotek An	Maximum Transmit Power EIRP ≥ 200 milliwatt	Value (See Notes 1, 2, and 3) -64 dBm
est Limit:	EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz EIRP < 200 milliwatt that do not meet the power spectral density	-62 dBm
	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	Anbo tek nbotek
	1) A 50 ohm load is connected in place of the spectrum analyzer is connected to place of the 2) The interference Radar Detection Threshold had been taken into account the output power r 3) The following equipment setup was used to contain the contains the setup was used to contain the contains the contains the setup was used to contain the contains the	master Level is TH+ 0dBi +1dB that ange and antenna gain. calibrate the conducted rada
Procedure:	waveform. A vector signal generator was utilized level for radar type 0. During this process, there either the master or client device. The spectrum the zero spans (time domain) at the frequency of	e were no transmissions by n analyzer was switched to of the radar waveform
	generator. Peak detection was used. The spect bandwidth (RBW) and video bandwidth (VBW) spectrum analyzer had offset -1.0dB to compen 4) The vector signal generator amplitude was so	were set to 3 MHz. The sate RF cable loss 1.0dB.
	measured at the spectrum analyzer was TH + 0 the spectrum analyzer plots on short pulse rada Note: TH=-64 dBm or -62 dBm	dBi +1dB = -63dBm. Captur

8.1. EUT Operation

Operating Env	ironment:					And
Test mode:	4: Normal Operating	: Keep the EUT	works in no	rmal operating	mode and o	connect to
rest mode.	companion device	VUD.	"otek	Vupo,	bi.	r upore

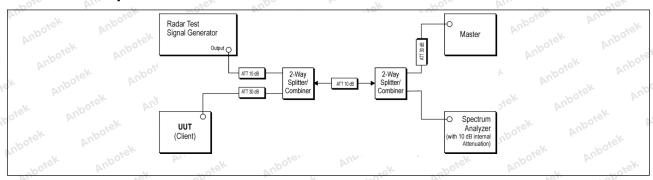






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8.2. Test Setup



8.3. Test Data

e)	Temperature:	25.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
		-0.0	Committee 1	10 70	, 5, times 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	13.64 2





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9. Band edge emissions (Radiated)

ntek anbotek	47 CFR Part 15.407(b)(1) Anbore Ac	otek onbo	Her Wyp
est Requirement:	47 CFR Part 15.407(b			
shorek Anbo	47 CFR Part 15.407(b			
All sek anboi	For transmitters opera		GHz hand: All er	niesione outside
	of the 5.15-5.35 GHz k			
	0.10 0.00 0.12 k	oarra orian riot execet	a dir o.i.r.p. or 2	And And A
	For transmitters opera	ting in the 5.25-5.35	GHz band: All er	nissions outside
otek Anbo.	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-	608-614	5.35-5.46
	0.430,0.000	16.69525	000-014	D.OO Ant
	2.1735-2.1905	16.80425-	960-1240	7.25-7.75
	2.1700 2.1300	16.80475	300-12-0	Anbolito
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
	4.20725-4.20775	73-74.6	1645.5-	9.3-9.5
	4.20725-4.20775	73-74.0	1646.5	9.5-9.5
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
	6.26775-6.26825	108-121.94	1718.8-	13.25-13.4
Ando	0.04475.0.04005	400 400	1722.2	4447445
"upoter Aug	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-	2483.5-2500	17.7-21.4
- 19 Kinster abover	0.07005.0.00075	156.52525	0000 0000	00.04.00.40
est Limit:	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
est Lillit. Anbotek	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) ore A
Anbe	13.36-13.41	Mr. Poter	Anbe	Lotek L
ek aboter A	wo kek		tek anboten	
	¹ Until February 1, 1999	9, this restricted band	d shall be 0.490-0	0.510 MHz.
	A. Otek Anbore			
	² Above 38.6			
	. Shotek Anbe	k hotek		tek abo
	The field strength of er			
	not exceed the limits s			
	1000 MHz, compliance			
	using measurement in			
	detector. Above 1000 I			
	15.209shall be demon			
	emissions. The provisi	ions in § 15.35apply t	to these measure	ements.
	H. Otek Vupoter	And	hotek Anbo	b
	Except as provided els			
	intentional radiator sha	all not exceed the fiel	d strength levels	specified in the
	following table:			
10 m	ak hore A			









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potek Aupo,	Ar atek anboter p	ind ok botek An	po, br.
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance
work Anbore	An abotek	Anbe	(meters)
Anbo	0.009-0.490	2400/F(kHz)	300
abover And	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	AS AND	30
	30-88	100 **	3 stek mb
	88-216	150 **	ores 3 Aribo
	216-960	200 **	sek 3 pooter
botek Anbo.	Above 960	500	Anbo 3 Mek
Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	intentional radiators open frequency bands 54-72 M However, operation within sections of this part, e.g.		I not be located in the Hz or 470-806 MHz. permitted under other
	The emission limits show	ove, the tighter limit applies a n in the above table are bas si-peak detector except for th	ed on measurements
nbotek Anbotek	90 kHz, 110–490 kHz an	d above 1000 MHz. Radiated ased on measurements empl	d emission limits in
- aborek Anbe	i oter and	VII.	Aupo ek potek
Test Method:	ANSI C63.10-2020, sect	on 12.7.4, 12.7.6, 12.7.7	k Anbore And
Anbo	Above 1GHz:		L' Crek Aupol
lpotek Aupotek	meters above the ground rotated 360 degrees to d b. The EUT was set 3 me	EUT was placed on the top on the top on the second at a 3 meter fully-anechoic etermine the position of the leters away from the interfere	chamber. The table was highest radiation. nce-receiving antenna,
	c. The antenna height is	ne top of a variable-height ar varied from one meter to fou maximum value of the field s	r meters above the
Anbotek Anbo	and vertical polarizations	of the antenna are set to ma mission, the EUT was arrang	ake the measurement.
ek Yupo, ' Y.	and then the antenna wa	s tuned to heights from 1 me	eter to 4 meters (for the
potek Anbotek	and the rotatable table w	30MHz, the antenna was tundas tundas turned from 0 degrees to	
Procedure:	maximum reading. e. The test-receiver system Bandwidth with Maximur	em was set to Peak Detect F	unction and Specified
Anborek Anbor	f. If the emission level of	the EUT in peak mode was and could be stopped and the	500
k Anboiek Ant	would be reported. Other	wise the emissions that did by one using peak or average	not have 10dB margin
Potek Vupor		ata sheet. west channel, the middle cha	nnel, the Highest
Anborek Anborek		ements are performed in X, Y found the X axis positioning v	
k Anbotek Anb	i. Repeat above procedu Remark:	res until all frequencies mea	Am stek and
750	or i. Level= Read Level+ C	able Loss+ Antenna Factor-	Freamp Factor









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- 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.





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9.1. EUT Operation

Operating Environment:

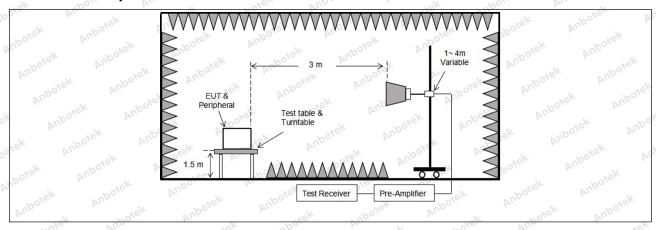
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT 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 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

Test mode:









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9.3. Test Data

	-01	The state of the s	U 07	VII.	700	
Temperature:	0E 2 °C	Lumidity: *2	1 E 0/	Atmospheric Pressure:	101 kDa	
remperature.	25.5 C	Humidity: "	45 70	Aumosphenic Pressure.	IUIKPA	

Radiated Measurement:

	TM1 / 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	36.89	15.99	52.88	68.20	-15.32	hotek H Ar	Peak				
5150.00	38.94	15.99	54.93	68.20	-13.27	anbo V	Peak				
5150.00	26.85	15.99	42.84	54.00	-11.16	n b btek	AVG				
5150.00	28.88	15.99	44.87	54.00	-9.13	Vaborek	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	37.36	16.43	53.79	68.20	-14.41	nbot H	Peak				
5350.00	40.25	16.43	56.68	68.20	-11.52	N.Sk	Peak				
5350.00	28.65	16.43	45.08	54.00	-8.92	Hotek	AVG				
5350.00	29.58	16.43	46.01	54.00	-7.99	V	AVG				

Remark: 1. Result=Reading + Factor

		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	35.87	15.99	51.86	68.20	-16.34	Hoor	Peak
5150.00	37.24	15.99	53.23	68.20	-14.98	Sk VAnbore	Peak
5150.00	26.59 m ²⁰	15.99	ote 42.58 And	54.00	-11.42	otek H Anb	AVG
5150.00	27.59	15.99	43.58	54.00	-10.43	aboteV p	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	37.67	16.43	54.10	68.20	-14.10	Hyppo,	Peak
5350.00	38.73	16.43	55.16	68.20	-13.04	otek V Anbo	Peak
5350.00	27.70	o ^{tel} 16.43 And	44.13	54.00	-9.88	H	AVG N
5350.00	29.12	16.43	45.55	54.00	-8.45	rupe Ak	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	36.37	15.99	52.36	68.20	-15.84	K Habotel	Peak
5150.00	38.23	15.99	54.22	68.20 100T	-13.98	otek V Anbo	Peak
5150.00	26.93	otel 15.99 And	42.92	54.00 pm	-11.08 Arriv	H-Market	o AVG
5150.00	28.70	15.99	44.69	54.00	-9.31	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	38.01	16.43	54.44	68.20	-13.76	rek H anboi	Peak
5350.00	36.90	16.43 M	53.33	68.20	-14.87	× V	Peak
5350.00	28.18	16.43	44.61	54.00	-9.39	A H	AVG
5350.00	29.37	16.43	45.80	54.00	-8.20	Anbord	AVG

Remark: 1. Result=Reading + Factor

	6//,	194			4 50	011.	26
		TM3 / 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	36.37	15.99	52.36	68.20	-15.84	Anbore ^H	Peak
5150.00	38.23	15.99	54.22	68.20	-13.98	Nok Nok	Peak
5150.00	26.93	15.99	42.92	54.00	-11.08	Hootek	AVG
5150.00	28.70	15.99	44.69	54.00	-9.31	y V pote	AVG
		TM3 / B	and: 5150-5	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	38.01	16.43	54.44	68.20	-13.76	NO HE	Peak
5350.00	36.90	16.43	53.33	68.20	-14.87	Votek	Peak
5350.00	28.18	16.43	44.61	54.00	-9.39	H del	AVG
5350.00	29.37	16.43	45.80	54.00	-8.20 vo ¹⁶	VARBO	AVG

Remark: 1. Result=Reading + Factor





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0, 0,		TM2 / D	and: 5150-53	DEO MUZ / DV	W: 40 / I	**	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.78	15.99	51.77	68.20	-16.43	AH	Peak
5150.00	36.26	15.99	52.25	68.20	-15.95°	Nupos.	Peak
5150.00	25.92	15.99	otek 41.91 _A nbo	54.00	12.09 NO	otek H Anbo	AVG
5150.00	26.70 An	15.99	42.69	54.00 An	-11.31	nbotek V Ar	AVG
130		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	37.95	16.43	54.38	68.20	-13.83	Hupa	Peak
5350.00	37.12	16.43	53.55	68.20	-14.65	tek A Vupo	Peak
5350.00	27.43	16.43	43.86	54.00	-10.14	otek H An	o ^{Ner} AVG
5350.00	27.33	16.43	43.76	54.00	-10.24	V	AVG

Remark: 1. Result=Reading + Factor

	674.	-0.7		V	01	DZZ.	-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	o ^{telk} 35.96 ⊾ ^{nbf}	15.99	51.95	68.20 And	-16.25	botek H Ant	Peak
5150.00	36.30	15.99	52.29	68.20	-15.91	Verodo	Peak
5150.00	26.43	15.99	42.42	54.00	-11.58	Hek	AVG
5150.00	26.74	15.99	42.73	54.00	-11.27	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	38.16	16.43	54.59	68.20	-13.61	nbote H	Peak
5350.00	37.33	16.43	53.76	68.20	-14.44	N. N.	Peak
5350.00	28.63	16.43	45.06	54.00	-8.95	And H tek	AVG
5350.00	28.01	16.43	44.44	54.00	-9.56	PV V	AVG

Remark: 1. Result=Reading + Factor





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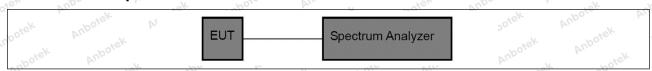
10. Band edge emissions (Conducted)

Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2)
k Aupotek Aupot	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.
Test Limit:	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.
Test Method:	Peak emission levels are measured by setting the instrument as follows: RBW = 1 MHz. VBW ≥ [3 × RBW] Detector = peak. Sweep time = auto. Trace mode = max hold.

10.1. EUT Operation

Operating Envi	ronment:
Anbotek Anbotek	1: 802.11a mode: Keep the EUT 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 in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data
Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anbotek Anbotek	3: 802.11ac mode: Keep the EUT 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



10.3. Test Data

Temperature:	25.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa	χ¢







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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
Test Limit:	1.705-30.0 30-88 88-216	30 100 ** 150 **	30 3
botek Anbotes	216-960 Above 960	200 **	3 Antorek
	** 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 b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed 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 emissand then the antenna was 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
	Bandwidth with Maximum H f. If the emission level of the limit specified, then testing	was set to Peak Detect Function Hold Mode. EEUT 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:

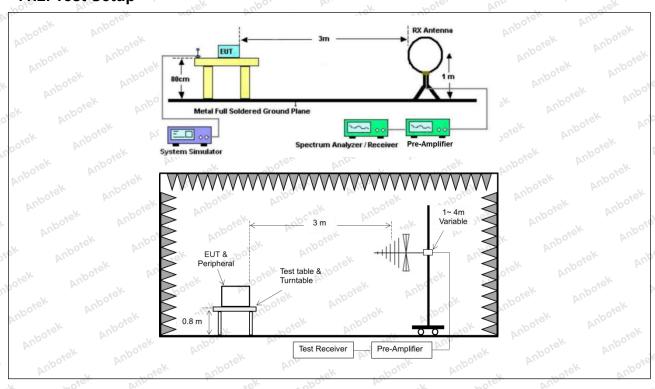
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT 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 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

Test mode:







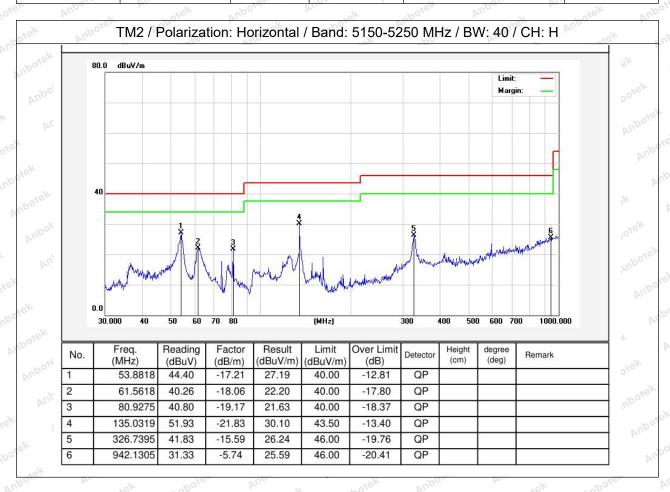


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11.3. Test Data

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

Tem	perature:	25.3 °C	Vup.	Humidity:	45%	Atmo	spheric Pre	ssure:	101 kPa
10111	Joiataro.	20.0		i iditiidity.	70 70	W. Little	opilolio i io	oourc.	pero i ki a i

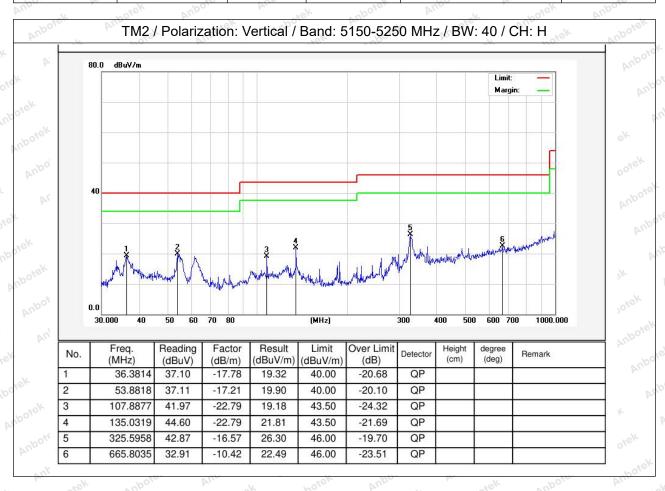






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Temperature: 25.3 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data (802.11n(HT40)) in the report.



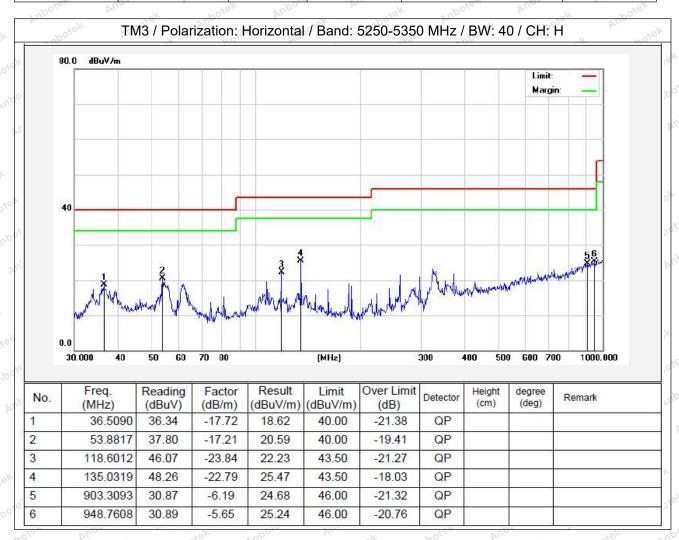






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Temperature: 25.3 °C Humidity: 45 % Atmospheric Pressure: 101 kPa

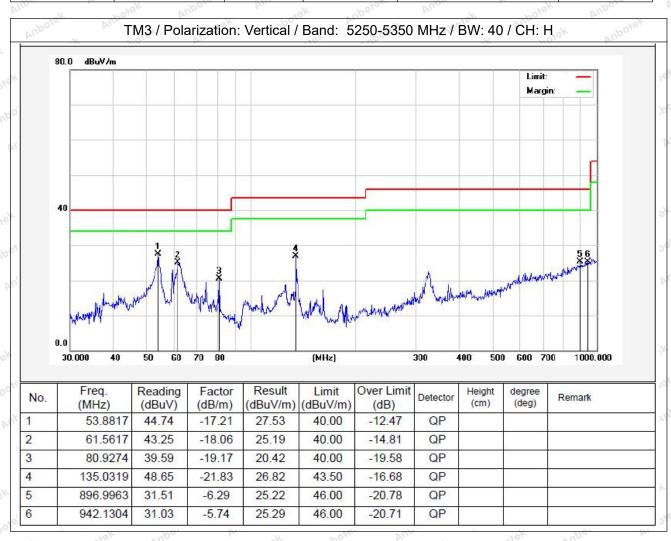






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Temperature: 25.3 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data (802.11ac(VHT40)) in the report.







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12. Undesirable emission limits (above 1GHz)

st Requirement:	47 CFR Part 15.407(b 47 CFR Part 15.407(b 47 CFR Part 15.407(b)(2)	Anbotek Anbr	upotek Anbo
Anbotek Anbo	For transmitters opera of the 5.15-5.35 GHz to			
tek Anbotek	For transmitters opera of the 5.15-5.35 GHz b			
	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
rek abover	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
VII.	12.57675-12.57725	322-335.4	3600-4400	(2) or
	13.36-13.41	ing of Polick	Anbo.	Pr.
	¹ Until February 1, 1999 ² Above 38.6			
	The field strength of er not exceed the limits s 1000 MHz, compliance using measurement in	hown in § 15.209. At with the limits in § 1 strumentation employ	frequencies equ 5.209shall be de ring a CISPR qu	ual to or less that emonstrated uasi-peak
	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	Pupo,	Measurement distance









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botek Anbore			Anbore Are
ak spotek	pupe	Mpola Vin	(meters)
Aupore Aur	0.009-0.490	2400/F(kHz)	300
"Otek Anbore	0.490-1.705	24000/F(kHz)	And 30
And ak hote	1.705-30.0	× 30 0000 Am	30
Upole, Aug	30-88	100 **	of 3
w. otek and	88-216	150 **	3 botte
Ando	216-960	200 **	ind a solek line
tek anboter	Above 960	inb 500 atek	anboret 3 America
o. W. Stek	- VIV VIV.	paragraph (g), fundame	ntal emissions from
abotek Anbo			shall not be located in the
Thotek Spotek		MHz, 76-88 MHz, 174-21	
Anbo. Air otel			s is permitted under other
sbotek Anbu		., §§ 15.231 and 15.241.	
VII.		ove, the tighter limit appli	
r Aupon Air			based on measurements
ok hotek A			or the frequency bands 9–
ore And	90 kHz, 110–490 kHz ar	nd above 1000 MHz. Rad	iated emission limits in
rojek anbore	these three bands are b	ased on measurements e	employing an average
upo k kotek	detector.		potek Anbore
Test Method:	ANSI C63.10-2020, sec	tion 12.7.4, 12.7.6, 12.7.7	And botek
hotek Anbore	Above 1GHz:	Public 15 100	lek Vupove VIII
And ak ho	30	EUT was placed on the t	on of a rotating table 1.5
Anbore And			noic chamber. The table was
k hotek at		d at a 5 meter fully-affect determine the position of	
YEL YUDG			ference-receiving antenna,
otek anbote.		the top of a variable-heigh	
100 K. Cotek		varied from one meter to	
aboten And			eld strength. Both horizontal
A. Viek Vupote,			o make the measurement.
Anbo		emission, the EUT was ar	
. aboien Anbe			1 meter to 4 meters (for the
A. Stek	test frequency of below	30MHz, the antenna was	tuned to heights 1 meter)
lek Yupor " W.	and the rotatable table v	vas turned from 0 degree	s to 360 degrees to find the
ek abotek	maximum reading.		
Doug VI.	e. The test-receiver syst	em was set to Peak Dete	ect Function and Specified
Procedure:	Bandwidth with Maximu		
Yun Potek		f the EUT in peak mode v	
Anbore Air			the peak values of the EUT
hotek Anbor	100		did not have 10dB margin
And			rage method as specified
ek aupole Au	and then reported in a d		Aupore Aur
k work		west channel, the middle	channel, the Highest
oten And	channel.	Ar.	V V 7 - ok iti - bet - f - u
stek upote.			X, Y, Z axis positioning for
Aup. Augek		found the X axis position	ing which it is the worst
abover Anbe	i Repeat above procedu	ires until all fraguencies	measured was complete
by. Tek "upote		ares unui aii irequencies i	measured was complete.
Vupo. VI.	Remark:	Cable Loss+ Antenna Fac	otor- Preamp Factor
k sbotek Anb			above 18GHz was very low.
Vu.			it emissions could be found
Lek Spore	The points marked on a	bove plots are the highes	r emissions could be lound









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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.

12.1. EUT Operation

Operating Environment:

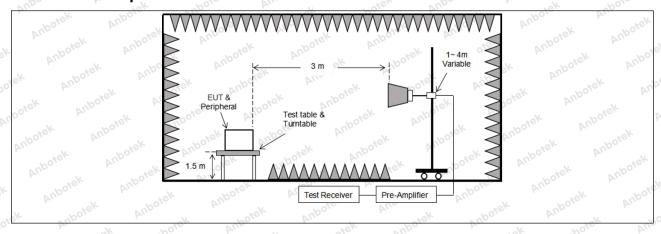
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

Test mode:

2: 802.11n mode: Keep the EUT 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 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.

12.2. Test Setup









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12.3. Test Data

45 % Temperature: 25.3 °C Humidity: Atmospheric Pressure: 101 kPa

10		TM2 / B	and: 5150-52	250 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10380.00	29.60	23.81	53.41	68.20	-14.79	V	Peak
15570.00	30.92	28.91	59.83	68.20	-8.37	Nupo. A	Peak
10380.00	30.76	23.81	54.57	68.20	-13.63	Anbold	Peak
15570.00	31.56	28.91	60.47	68.20	-7.73	VI HO4SH	Peak
10380.00	20.34	23.81	44.15	54.00	-9.85	Vobotek	AVG
15570.00	20.83	28.91	49.74	54.00	-4.26	V V	AVG NOOT
10380.00	20.71	23.81	44.52	54.00	-9.48 M	H Ann	AVG
15570.00	21.00	28.91	49.91	54.00	-4.09	nbotek H Ar	AVG
		TM2 / B	and: 5150-52	250 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10460.00	29.96	23.80	53.76	68.20	-14.44	Kupose	Peak
15690.00	31.14	30.03	61.17	68.20	-7.03	ek V nbot	Peak
10460.00	30.46	23.80	54.26	68.20	-13.94	H	otel Peak
15690.00	31.69	30.03	61.72 And	68.20	-6.48	H bu	Peak
10460.00	20.60	23.80	44.40	54.00	-9.60	Aupore	AVG
15690.00	20.75	30.03	50.78	54.00	-3.22	No Alek	AVG
10460.00	20.50	23.80	44.30	54.00	-9.70	Hotek	AVG
15690.00	20.66	30.03	50.69	54.00	-3.31	H	AVG

Remark:

- Result =Reading + Factor
- Only record the worst data (802.11n(HT40)) in the report.



Hotline



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Yes. ALL		riek nip	O. b.	40.	HOLE. YU		V. C.K.
		TM3 / B	and: 5250-5	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
10540.00	27.66	23.83	51.49	68.20	-16.71	P.V.	Peak
15810.00	29.45	30.70	60.15	68.20	-8.05	K Nupote	Peak
10540.00	27.87	23.83	51.70	68.20	-16.50	dek H no	Peak
15810.00	29.29	otel 30.70 prob	59.99	68.20	oten-8.21 Ant	Н	Peak
10540.00	17.08	23.83	40.91	54.00	-13.09	Nupor V	AVG
15810.00	18.59	30.70	49.29	54.00	-4.71	PUPO A	AVG
10540.00	17.77	23.83	41.60	54.00	-12.40	Hotek	AVG
15810.00	18.60	30.70	49.30	54.00	-4.70	H botek	AVG
5.55		TM3 / B	and: 5250-5	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
10620.00	28.45	23.90	52.35	68.20	-15.85	Ŋ.	Peak
15930.00	27.91	31.83	59.74	68.20	-8.46	Anb V.K	Peak
10620.00	28.67	23.90	52.57	68.20	-15.63	AnH	Peak
15930.00	28.72	31.83	60.55	68.20	-7.65	Hupoter	Peak
10620.00	18.63	23.90	42.53	54.00	-11.47	ek V nbot	AVG
15930.00	17.82	31.83	49.65	54.00	-4.35	V	otel AVG An
10620.00	18.68	23.90	42.58	54.00	-11.42	Apole H W	AVG
15930.00	17.91	31.83	49.74	54.00	-4.26	nbotell H	AVG

Remark:

- 1. Result =Reading + Factor
- 2. Only record the worst data (802.11ac(VHT40)) 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 -----

