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FCC Test Report

Applicant : Blustream PTY LTD

Address 2440 Australia

Victoria, 3149, Australia

Product Name : Wireless Multiview Presentation Switcher

Report Date : Mar. 23, 2024

Shenzhen Anbotek Compliance Laboratory Limited









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TEST REPORT

Blustream PTY LTD Applicant

Manufacturer Blustream PTY LTD

Product Name Wireless Multiview Presentation Switcher

Test Model No. **WMF51**

: N/A Reference Model No.

Trade Mark N/A

Rating(s) Input: 12V= 1.5A

47 CFR Part 15E

Test Standard(s) ANSI C63.10-2020

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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

Date of Neccipi.	Modification Allow Market Mark
Date of Test:	Jan. 26, 2024 ~ Feb. 26, 2024
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Anbotek Anbotek Anbotek Anbotek	Ella Liang
	The August Auguster Auguster Auguster Auguster
Prepared By:	otek Aupor An abover Aupor
Though William	(Ella Liang)
	And stek Anbotek Anbo Ak hotek
	Idward pan
Approved & Authorized Signer:	Aupore Aurore Aurore
Al. Anborer Anbo	(Edward Pan)







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Revision History

	Report Version	Description	Issued Date		
	Anbore R00 potek Ant	Original Issue.	Mar. 23, 2024		
97	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb		
10	ore Ambotek Anbotek	Anbotek Anbotek Anbot	otek Anbotek Anbotek		





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1. General Information

1.1. Client Information

V U	~/~	No. 10 Villa
Applicant	:	Blustream PTY LTD
Address	:	26 Lionel Rd, Mount Waverley, Melbourne, Victoria, 3149, Australia
Manufacturer	:	Blustream PTY LTD
Address	:	26 Lionel Rd, Mount Waverley, Melbourne, Victoria, 3149, Australia
Factory	:	Blustream PTY LTD
Address	:	26 Lionel Rd, Mount Waverley, Melbourne, Victoria, 3149, Australia

1.2. Description of Device (EUT)

Product Name	:	Wireless Multiview Presentation Switcher
Test Model No.	:	WMF51 Andrew Andrew Andrew Andrew
Reference Model No.	:	N/A otek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Model: GME18A-120150FXR Input: 100-240V~ 50-60Hz 0.8A Output: 12.0V== 1.5A 18.0W
RF Specification (M	odı	ıle: RTL8811CU)
Operation Frequency	:	802.11a/n(HT20)/ac(HT20): NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(VHT40): NII Band 3: 5755MHz to 5795MHz; 802.11ac(HT80): U-NII Band 3: 5775MHz
Number of Channel	:	802.11a/n(HT20)/ac(HT20): NII Band 3: 5; 802.11n(HT40)/ac(VHT40): NII Band 3: 2; 802.11ac(HT80): U-NII Band 3: 1
Modulation Type	:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
Antenna Type	:	Rod Antenna







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3.09dBi Antenna Gain(Peak)

Remark:

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





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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.	
Direk / Aupoter	Anbotek Anbotek	Anbor sek Andorek	Aupote. 1 Aug.	

1.4. Operation channel list

Operation Band: U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745 And	otek 151 nbotek	5755	155 Ant	5775
153	5765	hotek 159 Anbor	5795	W. John Kok	Anbored And
157 nbotek	5785	Ans botel Ant	Potek / Vupo	k Notek	Anbore An
161	5805	Am	Anbotek / Anbo	otek Inbotek	Anboy
165	5825 boots	All botck	Aupoter Aut	otek / anbotel	k Albor

1.5. Description of Test Modes

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



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1.6. Measurement Uncertainty

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

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

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

1.7. Test Summary

Test Items	Test Modes	Status
rest items	163t Wodes	Otatus
Conducted Emission at AC power line	Mode1,2,3	rek P Anbo
Duty Cycle	Mode1,2,3	ibotek P A
Maximum conducted output power	Mode1,2,3	anbo'P
Power spectral density	Mode1,2,3	AN Prok
Emission bandwidth and occupied bandwidth	Mode1,2,3	Photek
Band edge emissions (Radiated)	Mode1,2,3	ek Panbo
Band edge emissions (Conducted)	Mode1,2,3	potek P Ar
Undesirable emission limits (below 1GHz)	Mode1,2,3	A Produc
Undesirable emission limits (above 1GHz)	Mode1,2,3	npBok
Note:	Anbotek Anbotek	Anbotek

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.
- 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				
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	tek /Anbotek	ek apotek

Duty Cycle

Maximum conducted output power

Power spectral density

Emission bandwidth and occupied bandwidth

Band edge emissions (Conducted)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
And 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
100 3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4 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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	edge emissions (Ra sirable emission limi		Aupote _k	Anboiek	Vupo _{tek}	Anboatek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbole 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	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
¹⁶ 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Undesirable emission limits (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		
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22		
4ntel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11		
5,00	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	y Mupo	k Anbotek		



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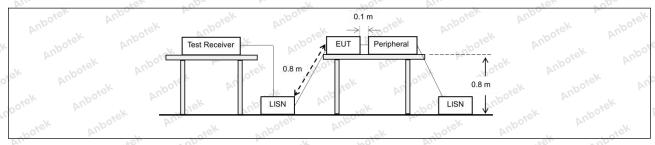
2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	ick hotek Anbi	otek And
Aug 16k Spotek	Frequency of emission (MHz)	Conducted limit (dBµV)	abotel Anbo
Anbor Ar	anboren Anb	Quasi-peak	Average
K botek Anbo	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	56	46
otek Anbore Al	5-30 And And	60 Potek Aupo,	50
otek Anbotek	*Decreases with the logarithm of the	ne frequency.	Aupo
Test Method:	ANSI C63.10-2020 section 6.2	Anbo sek spoo	tek Aupore

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





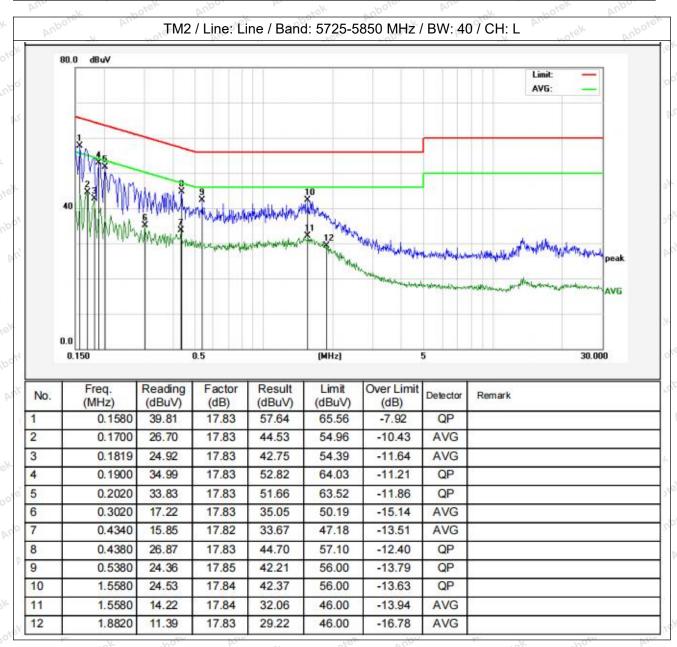




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2.3. Test Data

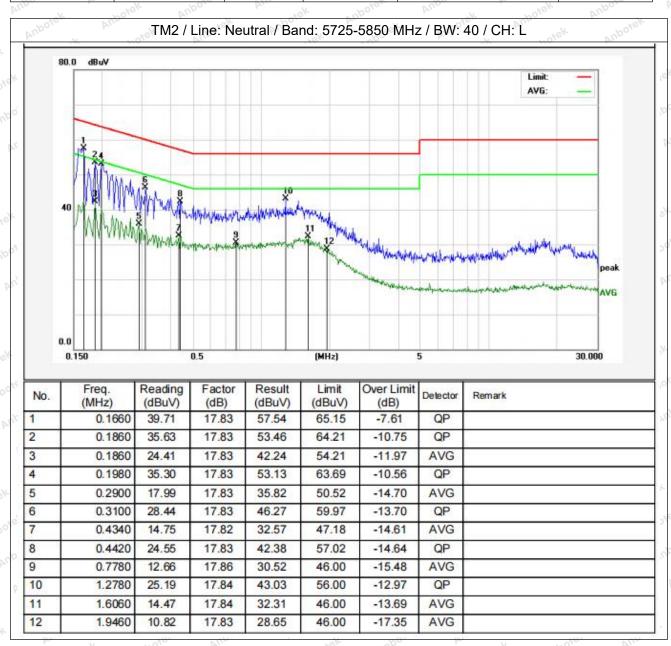
Temperature: 23.6 °C Humidity: 54 % Atm	nospheric Pressure: 101 kF	a
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Temperature: 23.6 °C Humidity: 54 % Atmospheric Pressure: 101 kPa



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







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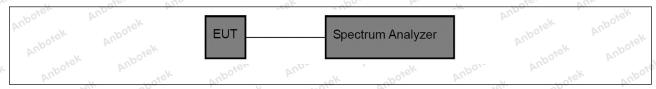
3. Duty Cycle

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

3.2. Test Setup



3.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







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4. Maximum conducted output power

Procedure:	Refer to ANSI C63.10-2020 section 12.4
Test Method:	ANSI C63.10-2013, section 12.4
nbotek Anbotek Antotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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 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 that
k 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.
Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)

4.1. EUT Operation

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

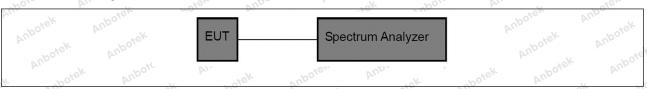






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4.2. Test Setup



4.3. Test Data

	0.0	11	40.04007	All Dates	400 1.5
Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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5. Power spectral density

Procedure:	Refer to ANSI C63.10-2020, section 12.6
Test Method:	ANSI C63.10-2020, section 12.6
otek Anbotek	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 Limit:	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
Anborek Anborek Anborek Anborek	For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)

5.1. EUT Operation

	Operating Envi	ronment:
jk.	ek abotek	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
,01	k Alla	recorded in the report.
70	poter. And	2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously
	Test mode:	transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of
		worst case is recorded in the report. 3: 802.11ac mode: Keep the EUT connect to AC power line and works in
6		continuously transmitting mode with 802.11ac modulation type. All bandwidth and
o ^r i	ak Anboten	data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

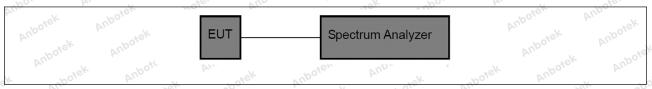






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5.2. Test Setup



5.3. Test Data

	0.0	11	40.04007	All Dates	400 1.5
Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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6. Emission bandwidth and occupied bandwidth

- spotek Anbote	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	Anbo Anbore Anbore Anbore Anbore
Aupore Am	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Anbotek Anb	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,
V. Votek	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
Pupo, k. Polsky	- 400, by, A 2046, My
	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%.
	as needed until the NEW/LEW ratio is approximately 176.
anboten Anbo	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
- Lotek Anbor	specified by the
Procedure:	applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal
	from exceeding the
	maximum input mixer level for linear operation. In general, the peak of the
	spectral envelope
	shall be more than [10 log (OBW/RBW)] below the reference level. Specific
	guidance is given
Anbe	in 4.1.5.2.
aboten And	d) Step a) through step c) might require iteration to adjust within the
	specified range.
	e) Video averaging is not permitted. Where practical, a sample detection and
	single sweep mode
	shall be used. Otherwise, peak detection and max hold mode (until the trace
	stabilizes) shall be
un of wotek	used.
	f) Use the 99% power bandwidth function of the instrument (if available) and
	report the measured
	bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the
	trace data points are









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

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

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

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

the difference between these two frequencies.

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

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

be reported in addition to the plot(s).

6 dB emission bandwidth:

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

6.1. EUT Operation

Operating Environment:

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

Test mode:

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

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

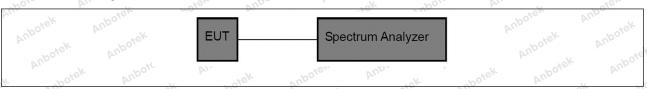






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6.2. Test Setup



6.3. Test Data

	0.0	11	40.04007	All Dates	400 1.5
Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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7. Band edge emissions (Radiated)

hotek Anba	47 CFR Part 15.407(b			
st Requirement:	47 CFR Part 15.407(b	W.) " O		
Aupole, Aug	47 CFR Part 15.407(b)(10)	Anbore. A	, ok
potek Anbor	For transmitters opera	ting in the 5.15-5.25	GHz band: All en	nissions outsid
And	of the 5.15-5.35 GHz k	oand shall not exceed	l an e.i.r.p. of −2	7 dBm/MHz.
Anbore An				
ok hotek	For transmitters opera			
Ve. Vun	All emissions shall be			
botek Anbore	above or below the ba			
is abotek	above or below the ba	.0.1"		
Anbore And	edge increasing linear below the band edge,			
hotek Anbor	increasing linearly to a			
Aug Sek	MHz	MHz	MHz	
Anbore Air		177.	- AV	GHZ
ok hotek	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
An	10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
otek Anbore	2.1735-2.1905	16.80425-	960-1240	7.25-7.75
ok botek	2.1733-2.1903	16.80475	900-1240	1.25-1.15 Anbo
Aupore Aur	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
botek Anbors	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
Anu ok be	4.20725-4.20775	73-74.6	1645.5-	9.3-9.5
Anbore And	Lotek Anbore.	Yun rek spotel	1646.5	K. Siek
ik upoter A	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
st Limit:	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
St Lillit.	6.31175-6.31225	123-138	2200-2300	14.47-14.5
Anbore And	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
Anbotek Anbot	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
Anbore. And	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
h hotek ar	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
And	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
otek unbote.	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
, h. Joseph	12.57675-12.57725	322-335.4	3600-4400	(2) Anbor
aboten And	13.36-13.41	bi.	"poier Vup.	
itek anboter				
Aupo, A.	¹ Until February 1, 1999	9, this restricted band	l shall be 0.490-0	0.510 MHz.
anboter Anbo		'upo, Air		
bi.	² Above 38.6			
Yupo, W.				
ek abojek	The field strength of er			
br.	not exceed the limits s			
polek Aupo.	1000 MHz, compliance			
*ek ~potek	using measurement in			
MOJ. WILL	detector. Above 1000 I			
And	15.209shall be demon	. V. 14.01	- PA'	e 41 1/20









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	Except as provided elsewh	nere in this subpart, the emissi	ons from an
in a upotek		ot exceed the field strength lev	
	Frequency (MHz)	Field strength	Measurement
	Trequency (IVII 12)	(microvolts/meter)	distance
	By Aupor	(Illicrovoits/Illeter)	760. 70
Aupore. Aug	0.000.0.400	2400/5/1415	(meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
tek anboten	1.705-30.0	30	30
	30-88	100 **	3 morek
	88-216	150 **	abo 3 And
	216-960	200 **	3,ek Anbor
	Above 960	500 and apporter	P. 1.3
	** Except as provided in p	aragraph (g), fundamental emi	ssions from
		ting under this section shall no	
		Hz, 76-88 MHz, 174-216 MHz	
		these frequency bands is perr	
	sections of this part, e.g.,		
		e, the tighter limit applies at th	e band edges.
	V	in the above table are based	.0
" sek aboter	· AV	peak detector except for the fr	
		above 1000 MHz. Radiated er	
		ed on measurements employi	
	detector.	tek Suporter Hamilton	ng an average
Test Method:	ANSI C63.10-2020, sectio	n 12.7.4, 12.7.6, 12.7.7	ak botek
otek Anbort A	Above 1GHz:	ups K Polek Aupo,	All.
	WO TO THE RESERVE TO	JT was placed on the top of a	rotating table 1.5
		at a 3 meter fully-anechoic cha	
		termine the position of the high	
			IESI TAMAMON
	I h The FUT was set 3 met		
		ers away from the interference	-receiving antenna
	which was mounted on the	ers away from the interference e top of a variable-height anter	-receiving antenna na tower.
	which was mounted on the c. The antenna height is va	ers away from the interference e top of a variable-height anter aried from one meter to four m	r-receiving antenna ina tower. eters above the
	which was mounted on the c. The antenna height is very ground to determine the m	ers away from the interference e top of a variable-height anter aried from one meter to four m naximum value of the field strei	e-receiving antenna- ina tower. eters above the ngth. Both horizoni
	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of	ers away from the interference top of a variable-height anter aried from one meter to four m naximum value of the field stre of the antenna are set to make	e-receiving antenna- ina tower. eters above the ngth. Both horizon the measurement
	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected em	ers away from the interference top of a variable-height anter aried from one meter to four maximum value of the field strent of the antenna are set to make ission, the EUT was arranged	e-receiving antennation ina tower. eters above the ngth. Both horizont the measurement to its worst case
	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was	ers away from the interference top of a variable-height anter aried from one meter to four maximum value of the field street the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter	e-receiving antennation at tower. eters above the negth. Both horizon the measurement to its worst case to 4 meters (for the
	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30	ers away from the interference top of a variable-height anter aried from one meter to four maximum value of the field street the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to	e-receiving antennational tower. eters above the ngth. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter)
Anbotek Anbotek Anbotek Anbotek Anbotek Procedure:	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was	ers away from the interference top of a variable-height anter aried from one meter to four maximum value of the field street the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter	e-receiving antennational tower. eters above the ngth. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter)
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Procedure: Anbotek	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading.	ers away from the interference top of a variable-height anter aried from one meter to four maximum value of the field strent of the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to sturned from 0 degrees to 360 to top of the antenna was tuned to the sturned from 0 degrees to 360 top of the top of the antenna was tuned to the sturned from 0 degrees to 360 top of the top of t	e-receiving antennational tower. eters above the ngth. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter) degrees to find the
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Procedure: Anbotek Anbotek	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system	ers away from the interference top of a variable-height anterprised from one meter to four maximum value of the field strengt the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Function	e-receiving antennational tower. eters above the ngth. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter) degrees to find the
Anbotek	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum	ers away from the interference top of a variable-height anter aried from one meter to four maximum value of the field strent of the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Function 1 mode.	e-receiving antennational tower. eters above the neath. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter) degrees to find the tion and Specified
Anbotek Anbotek Anbotek Anbotek Procedure: Anbotek Anbotek Anbotek Anbotek Anbotek	which was mounted on the c. The antenna height is was ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the	ers away from the interference top of a variable-height anterparied from one meter to four maximum value of the field strengt the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Fund Hold Mode. The EUT in peak mode was 10d	e-receiving antennational tower. The eters above the neath. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter) degrees to find the etion and Specified B lower than the
Anbotek	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the limit specified, then testing	ers away from the interference top of a variable-height anterprised from one meter to four maximum value of the field strengt the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Fund Hold Mode. The EUT in peak mode was 10d grould be stopped and the peak to the stopped and	e-receiving antennational tower. eters above the ngth. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter) degrees to find the tion and Specified B lower than the ak values of the EL
Anbotek	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the limit specified, then testing	ers away from the interference top of a variable-height anterparied from one meter to four maximum value of the field strengt the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Fund Hold Mode. The EUT in peak mode was 10d	e-receiving antennational tower. eters above the ngth. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter) degrees to find the tion and Specified B lower than the ak values of the EL
Anbotek	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the limit specified, then testing would be reported. Otherwood.	ers away from the interference top of a variable-height anterprised from one meter to four maximum value of the field strengt the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Fund Hold Mode. The EUT in peak mode was 10d grould be stopped and the peak to the stopped and	e-receiving antennational tower. eters above the neath. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter) degrees to find the tion and Specified B lower than the lak values of the EU have 10dB margin
Anbotek	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the limit specified, then testing would be reported. Otherwood.	ers away from the interference top of a variable-height anterprised from one meter to four maximum value of the field strengt the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Fund Hold Mode. The EUT in peak mode was 10d ground be stopped and the peak is the emissions that did not one using peak or average meters.	e-receiving antennational tower. eters above the neath. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter) degrees to find the tion and Specified B lower than the lak values of the EU have 10dB margin
Anbotek	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the limit specified, then testing would be reported. Otherwould be re-tested one by and then reported in a data	ers away from the interference top of a variable-height anterprised from one meter to four maximum value of the field strengt the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Fund Hold Mode. The EUT in peak mode was 10d grould be stopped and the peak isse the emissions that did not one using peak or average meas sheet.	e-receiving antennational tower. eters above the ngth. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter) degrees to find the tion and Specified B lower than the ak values of the EL have 10dB marginethod as specified
Anbotek	which was mounted on the c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the limit specified, then testing would be reported. Otherwould be re-tested one by and then reported in a data	ers away from the interference top of a variable-height anterprised from one meter to four maximum value of the field strengt the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meter MHz, the antenna was tuned to sturned from 0 degrees to 360 m was set to Peak Detect Fund Hold Mode. The EUT in peak mode was 10d ground be stopped and the peak is the emissions that did not one using peak or average meters.	e-receiving antennational tower. eters above the ngth. Both horizont the measurement to its worst case to 4 meters (for the heights 1 meter) degrees to find the tion and Specified B lower than the ak values of the EL have 10dB marginethod as specified

Shenzhen Anbotek Compliance Laboratory Limited



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



case.



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

7.1. EUT Operation

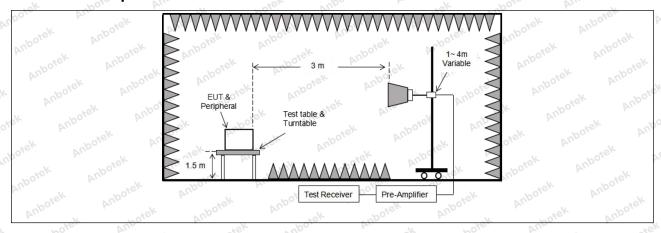
Operating Environment:

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

Test mode:

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

7.2. Test Setup









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7.3. Test Data

Temperature: 25.3 °C	Humidity: 48 %	Atmospheric Pressure:	101 kPa
----------------------	----------------	-----------------------	---------

		TM1 / B	and: 5725-58	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
5725.00	38.02	16.37	54.39	74.00	-19.61	inbotek H Ar	Peak
5725.00	39.35	16.37	55.72	74.00	-18.28	anbo'o'k	Peak
5725.00	28.93	16.70	45.63	54.00	-8.37	nt brek	AVG
5725.00	30.03	16.70	46.73	54.00	-7.27	V V botek	AVG
	10.	TM1 / B	and: 5725-58	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	38.94	17.21	56.15	68.20	-12.05	nboth H	Peak
5850.00	39.28	17.21	56.49	68.20	-11.71	N.Sk	Peak
5850.00	28.95	17.21	46.16	54.00	-7.84	Hotek	AVG
5850.00	29.00	17.21	46.21	54.00	-7.79	V	AVG

Remark: 1. Result=Reading + Factor

				- La [] 1 La []		5/407
	TM2 / B	and: 5725-58	350 MHz / BV	V: 20 / L		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.98	16.37	54.35	74.00	-19.65	Hoor	Peak
38.52	16.37	54.89	74.00	-19.11 ₀₀	Sk Avpose	Peak
27.52 mbo	16.70	ote 44.22 And	54.00 And	-9.78	otek H Anb	AVG
28.01	16.70	44.71	54.00	-9.29	aboteV p	AVG
	TM2 / B	and: 5725-58	350 MHz / BV	V: 20 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.18	17.21	54.39	68.20	-13.81	Hypo,	Peak
37.84	17.21	55.05	68.20	-13.16	otek V Anbo	Peak
27.41	17.21 And	44.62	54.00	-9.38	H	AVG
28.29	17.21	45.50	54.00	-8.50	rupe Ak	AVG
	(dBuV) 37.98 38.52 27.52 28.01 Reading (dBuV) 37.18 37.84 27.41	Reading (dBuV) (dB/m) 37.98 16.37 38.52 16.37 27.52 16.70 28.01 16.70 TM2 / B Reading (dBuV) (dB/m) 37.18 17.21 37.84 17.21 27.41 17.21	Reading (dBuV) Factor (dB/m) Result (dBuV/m) 37.98 16.37 54.35 38.52 16.37 54.89 27.52 16.70 44.22 28.01 16.70 44.71 TM2 / Band: 5725-58 Reading (dBuV) Factor (dB/m) Result (dBuV/m) 37.18 17.21 54.39 37.84 17.21 55.05 27.41 17.21 44.62	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) 37.98 16.37 54.35 74.00 38.52 16.37 54.89 74.00 27.52 16.70 44.22 54.00 28.01 16.70 44.71 54.00 TM2 / Band: 5725-5850 MHz / BV Reading (dBuV) Result (dBuV/m) Limit (dBuV/m) 37.18 17.21 54.39 68.20 37.84 17.21 55.05 68.20 27.41 17.21 44.62 54.00	(dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 37.98 16.37 54.35 74.00 -19.65 38.52 16.37 54.89 74.00 -19.11 27.52 16.70 44.22 54.00 -9.78 28.01 16.70 44.71 54.00 -9.29 TM2 / Band: 5725-5850 MHz / BW: 20 / H Reading (dBuV) Result (dBuV/m) Umit (dBuV/m) Over limit (dBuV/m) 37.18 17.21 54.39 68.20 -13.81 37.84 17.21 55.05 68.20 -13.16 27.41 17.21 44.62 54.00 -9.38	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 37.98 16.37 54.35 74.00 -19.65 H 38.52 16.37 54.89 74.00 -19.11 V 27.52 16.70 44.22 54.00 -9.78 H 28.01 16.70 44.71 54.00 -9.29 V TM2 / Band: 5725-5850 MHz / BW: 20 / H Reading (dBuV) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 37.18 17.21 54.39 68.20 -13.81 H 37.84 17.21 55.05 68.20 -13.16 V 27.41 17.21 44.62 54.00 -9.38 H

Remark: 1. Result=Reading + Factor





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1/2	-100, by		C. S. C.	U_D .	40.	,00° P	
		TM2 / B	and: 5725-58	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
5725.00	37.56	16.37	53.93	74.00	-20.07	K Habotel	Peak
5725.00	38.40	16.37	54.77	^{ek} 74.00 0000	-19.23	otek V Anbo	Peak
5725.00	26.93	16.70 And	43.63	54.00 pm	-10.37	H-Vator	AVG
5725.00	28.32	16.70	45.02	54.00	-8.98	V.	AVG
		TM2 / B	and: 5725-58	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	37.92	17.05	54.97	68.20	-13.23	rek H anboi	Peak
5850.00	38.35	17.05 And	55.40	68.20	-12.80	× V	Peak
5850.00	28.08	17.05	45.13	54.00	-8.87	P. H	AVG
5850.00	29.22	17.05	46.27	54.00	-7.74	Anborv	AVG

Remark: 1. Result=Reading + Factor

1-030	Plum	494	700	P .	v ~070	VU	2-6
		TM3 / B	and: 5725-58	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
5725.00	37.24	16.37	53.61	74.00	-20.40	Anbore H	Peak
5725.00	37.46	16.37	53.83	74.00	-20.17	No Nok	Peak
5725.00	28.20	16.70	44.90	54.00	-9.10	Horiek	AVG
5725.00	28.93	16.70	45.63	54.00	-8.37	y V pote	AVG
		TM3 / B	and: 5725-58	850 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	37.98	17.21	55.19	68.20	-13.02	NO HOL	Peak
5850.00	38.89	17.21	56.10	68.20	-12.10	Votek	Peak
5850.00	27.88	17.21	45.09	54.00	-8.91	H del	AVG
5850.00	28.89	17.21	46.10	54.00	-7.90 pote	VARBO	AVG

Remark: 1. Result=Reading + Factor





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	7181 VUL	,	100	10, V.	2.4	7,67
	TM3 / B	and: 5725-58	350 MHz / BV	V: 40 / L		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
36.20	16.37	52.57	74.00	-21.43	PH	Peak
37.76	16.37	54.13	74.00	-19.87	Nupp.	Peak
27.48	16.70	44.18 AV	54.00	10 -9.82 M	otek H Anbo	AVG
28.18	16.70	44.88	54.00	-9.12	nbotek V A	AVG
	TM3 / B	and: 5725-58	50 MHz / BV	V: 40 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.56	17.21	54.77	68.20	-13.43	H ^{nb}	Peak
38.33	17.21	55.54 no	68.20	-12.66	tek A Vupo,	Peak
27.55	17.21 And	44.76	54.00	-9.24	hotek H An	AVG
27.12	17.21	44.33	54.00	-9.67	V	AVG
	(dBuV) 36.20 37.76 27.48 28.18 Reading (dBuV) 37.56 38.33 27.55	Reading (dBuV) (dB/m) 36.20 16.37 37.76 16.37 27.48 16.70 28.18 16.70 TM3 / B Reading (dBuV) (dB/m) 37.56 17.21 38.33 17.21 27.55 17.21	Reading (dBuV) Factor (dB/m) Result (dBuV/m) 36.20 16.37 52.57 37.76 16.37 54.13 27.48 16.70 44.18 28.18 16.70 44.88 TM3 / Band: 5725-58 Reading (dBuV) Factor (dB/m) Result (dBuV/m) 37.56 17.21 54.77 38.33 17.21 55.54 27.55 17.21 44.76	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) 36.20 16.37 52.57 74.00 37.76 16.37 54.13 74.00 27.48 16.70 44.18 54.00 28.18 16.70 44.88 54.00 TM3 / Band: 5725-5850 MHz / BV Reading (dBuV) Result (dBuV/m) Limit (dBuV/m) 37.56 17.21 54.77 68.20 38.33 17.21 55.54 68.20 27.55 17.21 44.76 54.00	(dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 36.20 16.37 52.57 74.00 -21.43 37.76 16.37 54.13 74.00 -19.87 27.48 16.70 44.18 54.00 -9.82 28.18 16.70 44.88 54.00 -9.12 TM3 / Band: 5725-5850 MHz / BW: 40 / H Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) 37.56 17.21 54.77 68.20 -13.43 38.33 17.21 55.54 68.20 -12.66 27.55 17.21 44.76 54.00 -9.24	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 36.20 16.37 52.57 74.00 -21.43 H 37.76 16.37 54.13 74.00 -19.87 V 27.48 16.70 44.18 54.00 -9.82 H 28.18 16.70 44.88 54.00 -9.12 V TM3 / Band: 5725-5850 MHz / BW: 40 / H Reading (dBuV) (dB/m) (dB/m) (dB/m) (dBuV/m) (dB) Over limit (dBuV/m) (dB) Antenna Pol. 37.56 17.21 54.77 68.20 -13.43 H 38.33 17.21 55.54 68.20 -12.66 V 27.55 17.21 44.76 54.00 -9.24 H

Remark: 1. Result=Reading + Factor

	18.	TM3 / E	Band: 5725-58	350 MHz / BV	V: 80 / L	1/4	507
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	35.49 M	16.37	51.86	74.00 And	-22.14	botek H Ani	Peak
5725.00	36.97	16.37	53.34	74.00	-20.66	Votodo	Peak
5725.00	26.43	16.70	43.13	54.00	-10.87	P P Hek	AVG
5725.00	27.08	16.70	43.78	54.00	-10.22	Vootek	AVG
		TM3 / E	Band: 5725-58	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	37.40	17.21	54.61	68.20	-13.59	n H ^{arodo}	Peak
5850.00	37.75	17.21	54.96	68.20	-13.24	N.	Peak
5850.00	27.73	17.21	44.94	54.00	-9.06	AUR H JOK	AVG
5850.00	28.14	17.21	45.35	54.00	-8.65	AVP	AVG

Remark: 1. Result=Reading + Factor





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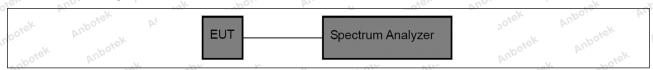
8. Band edge emissions (Conducted)

Who we will be a second of the	word Arr. stell and the sky word
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: And Andorek	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.

8.1. EUT Operation

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
, aboiek	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.

8.2. Test Setup



8.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pre	ssure: 101 kPa	a _{nabot} e

Please Refer to Appendix for Details.







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9. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	And Lek abotek And	or Air
Aupotek Aupotek	Unwanted emissions below strength limits set forth in §	1 GHz must comply with the ge 15.209.	neral field
yek Anbotek An		ere in this subpart, the emissions t exceed the field strength levels	
	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	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.
	In the emission table above The emission limits shown employing a CISPR quasi- 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	An rek
	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 300	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)
Anbotek Anbotek Anbotek Anbotek Anbotek	e. The test-receiver system Bandwidth with Maximum I 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 locold be stopped and the peak was the emissions that did not har	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.

9.1. EUT Operation

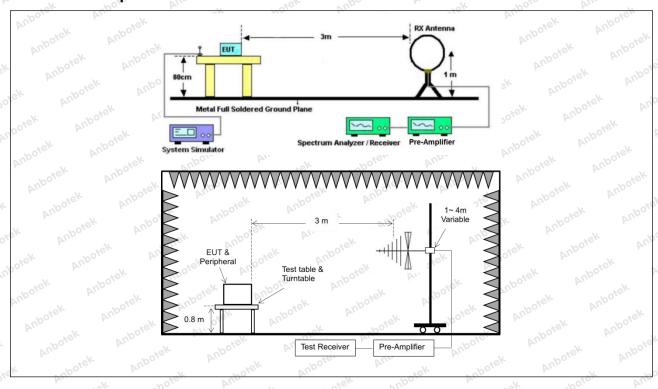
Operating Environment:

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







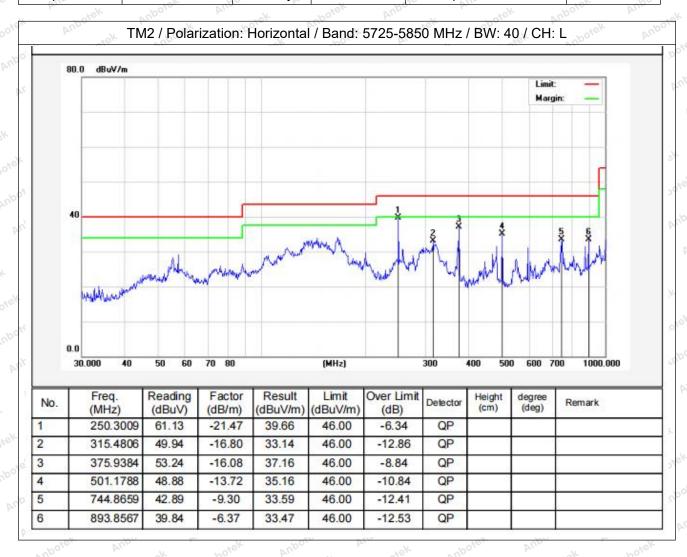


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9.3. Test Data

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

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

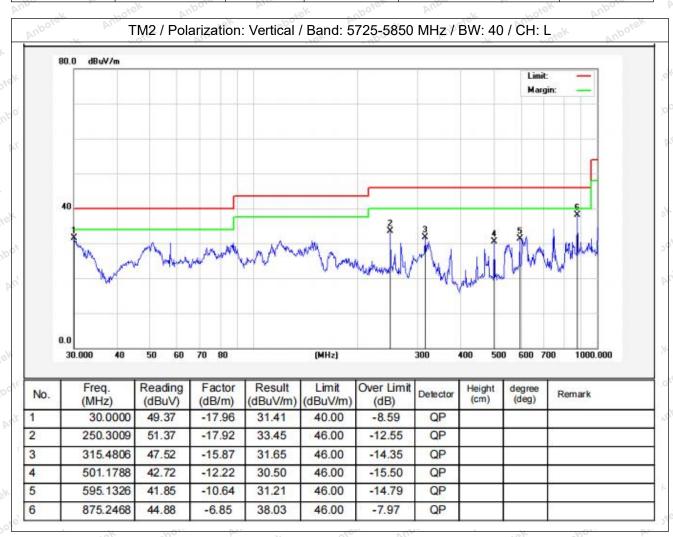






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Temperature: 22.5 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



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







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10. Undesirable emission limits (above 1GHz)

- shotek Anbore	47 CFR Part 15.407(b			
Test Requirement:	47 CFR Part 15.407(b			
Vupose Vii.	47 CFR Part 15.407(b)(10)	Aupora	
botek Anbo	For transmitters opera	ting in the 5.15-5.25	GHz band: All ei	missions outside
VII.	of the 5.15-5.35 GHz I	oand shall not exceed	I an e.i.r.p. of −2	27 dBm/MHz.
	tek anboter	And hore	Yupo,	
	For transmitters opera			
	All emissions shall be			
	above or below the ba			
in abotek	above or below the ba			
	below the band edge,			
	increasing linearly to a			
All.	MHz	MHz	MHz	GHz
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
	¹ 0.495-0.505	16.69475-	608-614	5.35-5.46
	0.495-0.505	16.69525	000-014	3.33-3.40
	2.1735-2.1905	16.80425-	960-1240	7.25-7.75
	2.1700-2.1300	16.80475	300-12-0	pote Anbo
	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
	rek apolen	And K hotek	1646.5	Pr. 11
	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
est Limit:	y, viek vipoje,	And	1722.2	p.,
ost Lillit.	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
	otek Aupo	156.52525	Vu.	botek
	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) Mbon
	13.36-13.41	r. sek	Pupole Vur	49.
botek Anbore	All rock and			
	¹ Until February 1, 199	9, this restricted band	l shall be 0.490-	0.510 MHz.
	ook - botek			
	² Above 38.6			
	+notek Anbor	Ar. Stek Supot	an And	k hotek
	The field strength of e			
	not exceed the limits s			
	1000 MHz, compliance			
	using measurement in detector. Above 1000			
	15.209shall be demon			
	emissions. The provis			
	Gilliosiono. The provis	one in a rolocappiy t	o alogo measur	OHIOHIO, E.









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hotek Anbotek	- V. 100	where in this subpart, the emis not exceed the field strength l	
	Frequency (MHz)	Field strength	Measurement
Aupores Aug	both Anboten Anbot	(microvolts/meter)	distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	atel 30 mbotes
	30-88	100 **	3 All
	88-216	150 **	abore 3 Anbore
	216-960	200 **	3.ek abot
	Above 960	500	Ale. Vie.
	7914	paragraph (g), fundamental ei	n 3
	The emission limits shown employing a CISPR quate 90 kHz, 110–490 kHz are these three bands are be	ove, the tighter limit applies at wn in the above table are base si-peak detector except for the above 1000 MHz. Radiated ased on measurements emplo	d on measurements frequency bands 9– emission limits in
	detector.	hotek Anbor An	ak anboter f
est Method:	ANSI C63.10-2020, sec	tion 12.7.4, 12.7.6, 12.7.7	rek abotek
	meters above the groun rotated 360 degrees to ob. The EUT was set 3 m which was mounted on c. The antenna height is ground to determine the and vertical polarization d. For each suspected eand then the antenna was	EUT was placed on the top of d at a 3 meter fully-anechoic of determine the position of the histers away from the interferenthe top of a variable-height anti-varied from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arrange as tuned to heights from 1 met 30MHz, the antenna was tuned	hamber. The table wanted ghest radiation. ce-receiving antennate enna tower. meters above the rength. Both horizont we the measurement. It do its worst case er to 4 meters (for the
rocedure:		vas turned from 0 degrees to 3	
			Anbores to illian
	e. The test-receiver syst Bandwidth with Maximu		nction and Specified
	e. The test-receiver syst Bandwidth with Maximu f. If the emission level of limit specified, then testi would be reported. Other		nction and Specified OdB lower than the eak values of the EU ot have 10dB margin
	e. The test-receiver syst Bandwidth with Maximu f. If the emission level of limit specified, then testi would be reported. Other would be re-tested one and then reported in a dig. Test the EUT in the lo	m Hold Mode. If the EUT in peak mode was 10 Ing could be stopped and the perwise the emissions that did no by one using peak or average	nction and Specified OdB lower than the eak values of the EU ot have 10dB margin method as specified
	e. The test-receiver syst Bandwidth with Maximu f. If the emission level or limit specified, then testi would be reported. Other would be re-tested one and then reported in a dig. Test the EUT in the lochannel.	m Hold Mode. If the EUT in peak mode was 10 Ing could be stopped and the perwise the emissions that did no Ing one using peak or average lata sheet.	nction and Specified OdB lower than the eak values of the EU ot have 10dB margin method as specified nel, the Highest







case.



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

10.1. EUT Operation

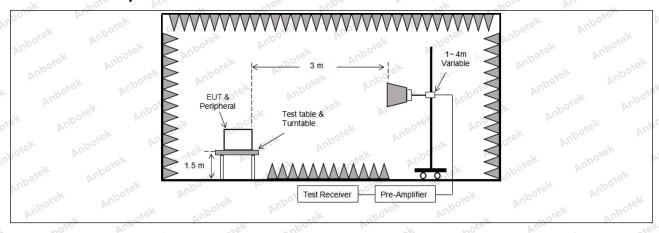
Operating Environment:

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

Test mode:

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

10.2. Test Setup









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10.3. Test Data

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

		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	28.54	23.36	51.90	68.20	-16.30 ·····	V	Peak
17265.000	29.04	32.02	61.06	68.20	-7.14	Wpo. A	Peak
11510.000	29.32	23.36	52.68	68.20	-15.52	Anbold	Peak
17265.000	29.32	32.02	61.34	68.20	-6.86	VI HO4SE	Peak
11510.000	18.23	23.36	41.59	54.00	-12.41	Vabotek	AVG
17265.000	18.59	32.02	50.61	54.00	-3.39	V V	AVG NOOT
11510.000	18.54	23.36	41.90	54.00	-12.10 m	H Amb	AVG
17265.000	19.00	32.02	51.02	54.00	-2.98	nbotek H Ar	AVG
		TM2 / Ban	d: 5725-5850	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	27.82	23.43	51.25	68.20	-16.95	Kupote	Peak
17385.00	29.01	32.23	61.24	68.20	-6.96	rek V nbot	Peak
11590.00	28.41	23.43	51.84	68.20	-16.36	H	ote ^{ll} Peak M
17385.00	28.62	32.23	60.85	68.20	-7.35	Poor H	Peak
11590.00	17.43	23.43	40.86	54.00	-13.14	Aupore	AVG
17385.00	17.62	32.23	49.85	54.00	-4.15	No Ash	AVG
11590.00	18.44	23.43	41.87	54.00	-12.13	Hotek	AVG
17385.00	18.57	32.23	50.80	54.00	-3.20	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 -----

