

FCC Test Report

Applicant : Teguar Corporation

Address 2920 Whitehall Park Drive Charlotte, NC,

Charlotte, North Carolina, United States, 28273

Product Name : Rugged Tablet

Report Date : Nov. 12, 2024

Shenzhen Anbotek



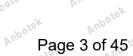




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Report No.:1812C40094012504 FCC ID: 2AL2M-TRT-A5780-08

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TEST REPORT

Applicant Teguar Corporation

Manufacturer : Teguar Corporation

Product Name : Rugged Tablet

Model No. : TRT-A5780-08

Trade Mark : Teguar

Rating(s)

Battery Capacity: DC 3.8V, 10000mAh

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 Receipt:	Sept. 27, 2024
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Date of Test:	Sept. 27, 2024 to Oct. 15, 2024
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Approved & Authorized Signer:	And And And Andrew
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Report No.:1812C40094012504 FCC ID: 2AL2M-TRT-A5780-08

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potek	R00	Vupo	Original Is	sue.	Amotek Nov. 1	2, 2024
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1. General Information

1.1. Client Information

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Applicant	:	Teguar Corporation
Address	:	2920 Whitehall Park Drive Charlotte, NC, Charlotte, North Carolina, United States, 28273
Manufacturer	:	Teguar Corporation
Address	:	2920 Whitehall Park Drive Charlotte, NC, Charlotte, North Carolina, United States, 28273
Factory	:	Inventec Corporation
Address	:	No.349.Sec.2. Renhe Rd. DaDist, Taoyuan City 335, Taiwan

1.2. Description of Device (EUT)					
Product Name	:	Rugged Tablet Anborek			
Model No.	:	TRT-A5780-08			
Trade Mark	:	Teguar Andorek Andorek Andorek Andorek			
Test Power Supply	:	DC 9V from adapter input AC 120V/60Hz; DC 3.8V battery inside			
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)			
Adapter	:	Model: CH010A0S020001 Input: 100-240V~50-60Hz 0.3A Output: 5.0V—2000mA			
RF Specification					
Operation Frequency	:	802.11a/n(HT20)/ac(HT20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 3: 5755MHz to 5795MHz; 802.11ac(HT80): U-NII Band 1: 5210MHz; U-NII Band 3: 5775MHz			
Number of Channel	:	802.11a/n(HT20)/ac(HT20): U-NII Band 1: 4; U-NII Band 3: 5; 802.11n(HT40)/ac(HT40): U-NII Band 1: 2; U-NII Band 3: 2; 802.11ac(HT80): U-NII Band 1: 1; U-NII Band 3: 1			





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	10 h		The state of the s	
, k	Modulation Type	:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);	
	Device Type	:	Indoor AP	
1	Antenna Type	:	FPC Antenna	2
	Antenna Gain(Peak)	:	WiFi 5.2G: 2.84dBi WiFi 5.8G: 2.22dBi	

Remark: New York

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(1) All of the RF specification are provided by customer.

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(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

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upolek	1.3. Auxiliary Equip	ment Used During Te	et Augotek	Aupotek Aupotek	An
Anboiek	Title	Manufacturer	Model No.	Serial No.	
Anb	otek Aug Otek	Aupolek / Aupo.	"upotek Aupote	All Dolle An	ookek
1	Aupoles Aug Apolek	Anbotek Anbo	Aupolek Aut	ole. VIII.	Anbotek

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1.4. Operation channel list

Operation Band: U-NII Band 1

		P ¹	VI.		- AU -
Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Anbor 36	1001e 5180 And	38 ^{Anu}	5190	42 42	5210
40	5200	nbotek 46 And	5230 Nove	Noor	Potek
44	5220	Aupoles Au	otek / anb	otek \ Vupos	ok I abolek
otek 48 Anbores	5240	Antogick	Vup. Office	Pupolek \ Vupo,	lek I more

V	- W	The state of the s	. 01	7.	V8." , (VV	
Operation Band:	H-NII Band 3 Votel	Aupolek	Vup. Pup.	Anbolek A	upor a	potek
Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz	anbo'
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Α'
149	5745	151	5755 An	155	6 ^k 5775 ^{boto}	
153	5765 5765	159	5795	Aupor	opolek / Aupol	5.
157	hotek 5785 knoote	Vupp of 6k	Vipolek.	Vipor /	"potek VL	100,61
161	5805	otek / Ando	lek Inbotek	Vuhore	An Jodek	Anb
165	5825	Aupotek / Aup	Jek / Napol	ek Aupore	W. Josek	

1.5. Description of Test Modes

VIC VII.	No No No
Pretest Modes	Descriptions
Anbotek Anbotek 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 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.
Aupotek LW3 Vapotek VW9 Vapotek VW6 Value Value	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.







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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dBek Anbotte Ambotek Anbotek
Dwell Time	2% Andrew Ambores Amborek Anbo
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

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



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Test Items	Test Modes	Statu
Antenna requirement	Aupole Aurotek	Pup
Conducted Emission at AC power line	Mode1,2,3	» Р
Duty Cycle	Mode1,2,3	potek P
Emission bandwidth and occupied bandwidth	Mode1,2,3	P
Maximum conducted output power	Mode1,2,3	Pre
Power spectral density	Mode1,2,3	Р
Band edge emissions (Radiated)	Mode1,2,3	P
Undesirable emission limits (below 1GHz)	Mode1,2,3	Р
Undesirable emission limits (above 1GHz)	Mode1,2,3	hore P

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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.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

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

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



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1.10. Test Equipment List

Aupolek	Cond	ucted Emission at A	C power line	W upolek	Aupoles	V Votek	Aupolek
Anbo	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
P	nbolek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
olek ek	Anbo	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
Aupolek	3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Asporta	Vupolek Vupolek
anb	orek 4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2024-09-09	2025-09-08

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Occupied Bandwidth

Maximum Conducted Output Power

Power Spectral Density

Emissions in non-restricted frequency bands

			-22			- Lo 0 *
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1001°1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A Anoo	2023-10-16	2024-10-15
Anbox	DC Power Supply	IVYTECH	1006VP	1804D360 510	2024-09-09	2025-09-08
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
, 4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5	Oscilloscope	Tektronix	MDO3012	C020298	2024-10-10	2025-10-09
6 ore	MXG RF Vector Signal Generator	Agilent And	N5182A	MY474206 47	2024-02-04	2025-02-03



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Vur	Utek Aupotek	Anbo	upolek A	hpore	V. Polek	Anboren A
	edge emissions (Ra sions in frequency ba		Aupolek	Vupo _{te} ofek	Aupolek Vupolek	Auporek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Wholek	Aupolo Polek
0105	Horn Antenna	A-INFO no otek	LB-180400- KF	J21106062 8	2024-01-22	2027-01-21
Anb6iek	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
Zupo	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due D
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-
Anb. 2	Pre-amplifier	SONOMA	10N M	186860	2024-01-17	2025-01-
3 ^{Anh}	Bilog Broadband Antenna	Schwarzbeck	VULB9163	And 345	2022-10-23	2025-10-
4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2024-09-12	2025-09-
5.	EMI Test Software EZ-EMC	SHURPLE	N/A ^{botet}	N/A	otek / Aupote	k V Vul

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2. Antenna requirement

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Test Requirement:

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

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2.1. Conclusion

The antenna is a FPC **antenna** which permanently attached, and the best case gain of the antenna is 2.84 **dBi** . It complies with the standard requirement.

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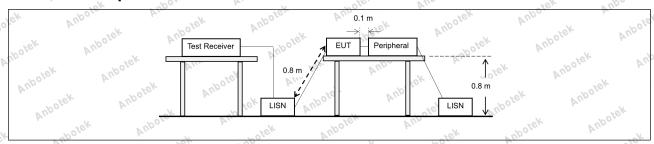
3. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	Anbor	otek Anbore.
otek Vup.	Frequency of emission (MHz)	Conducted limit (dBµV)	100 Y
rek alloler	Aug Polek Vupo	Quasi-peak	Average
Test Limit	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	56	46
And	5-30 And	6000	50 noter
Aupole. Aug	*Decreases with the logarithm of the	ne frequency.	k. hotek
Test Method:	ANSI C63.10-2020 section 6.2	A. Lotek Anbo	ier Vun

3.1. EUT Operation

Operating Envir	onment: And tek And tek And tek And tek
Aupotek Varpotek	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.
Vupotek Vu	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



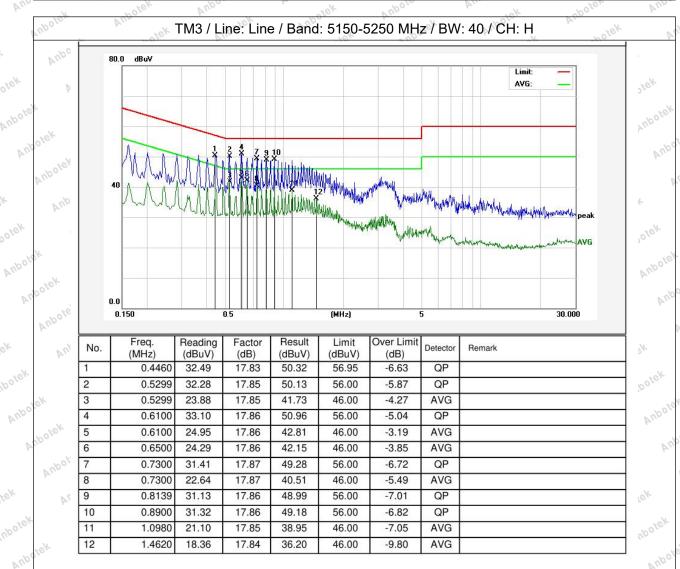






3.3. Test Data

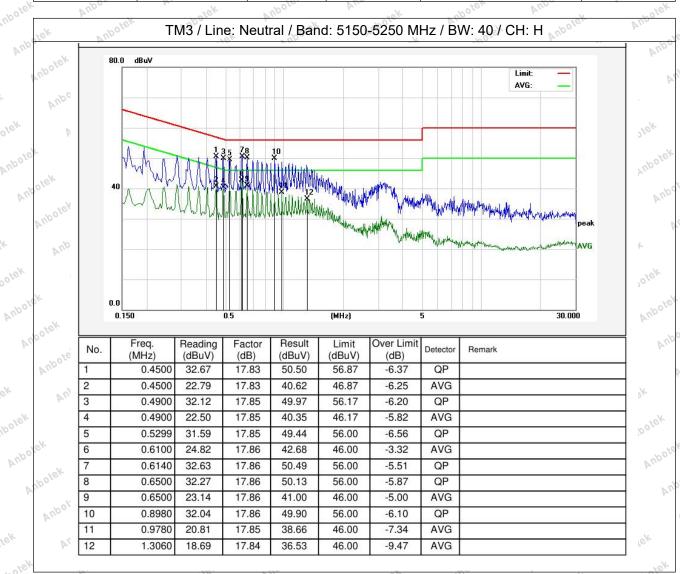
Temperature: 23.3 °C Humidity: 52 % Atmospheric Pressure: 101 kPa







Temperature: 23.3 °C Humidity: 52 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







4. Duty Cycle

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.
No limits, only for report use.
ANSI C63.10-2020 section 12.2 (b)
 i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW >= RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number
of sweep points across duration T exceeds 100.

4.1. EUT Operation

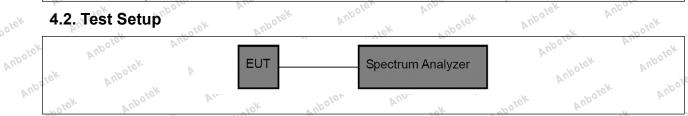
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Operating Envir	onment: And other And othe
Vupotek Vu	1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst 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
in upotek Ar	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:	22.7 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
		1.00	12/		

Please Refer to Appendix for Details.







5. Emission bandwidth and occupied bandwidth

VII.	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	They upoter And ak abotek And
abolek	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
"upotek VIII	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,
Anbotek Anbo	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
otek Anbore	Emission bandwidth:
ok shotek	a) Set RBW = approximately 1% of the emission bandwidth.
Vupoje, Vue	b) Set the VBW > RBW.
y Vupote.	c) Detector = peak.
Anbo	d) Trace mode = max hold.
botek Anbo	e) Measure the maximum width of the emission that is 26 dB down from the
Vu.	peak of the emission.
k Whole V	Compare this with the RBW setting of the instrument. Readjust RBW and
rek	repeat measurement
ootek Anbor	as needed until the RBW/EBW ratio is approximately 1%.
ok abolek	Aupo Aupore Au
Anbotek Anbote	Occupied bandwidth:
Lek Vupote	a) The instrument center frequency is set to the nominal EUT channel center
Anbo	frequency. The
Polek Aup.	frequency span for the spectrum analyzer shall be between 1.5 times and
Alla	5.0 times the OBW.
ek Vupote	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to
Stok	5% of the OBW,
botek Anbe	and VBW shall be approximately three times the RBW, unless otherwise
Procedure:	specified by the
Aupore Am	applicable requirement.
otek Aupole	c) Set the reference level of the instrument as required, keeping the signal
Anbo	from exceeding the
abolek And	maximum input mixer level for linear operation. In general, the peak of the
VII.	spectral envelope
tek Wupolg	shall be more than [10 log (OBW/RBW)] below the reference level. Specific
Stek	guidance is given in 4.1.5.2.
Tholek Anbo	
"II" apolek	d) Step a) through step c) might require iteration to adjust within the
Vupote VII.	specified range. e) Video averaging is not permitted. Where practical, a sample detection and
Olek Vupor	single sweep mode
And	shall be used. Otherwise, peak detection and max hold mode (until the trace
"Dolek An	stabilizes) shall be
V. SK	used.
otek Aupor	f) Use the 99% power bandwidth function of the instrument (if available) and
, olek	report the measured
apoler And	bandwidth.
V. Vek "polek	g) If the instrument does not have a 99% power bandwidth function, then the
Vupor VII.	trace data points are
, , , , , , , , , , , , , , , , , , , ,	1 220 adm bours are







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.

5.1. EUT Operation

Operating Environment:

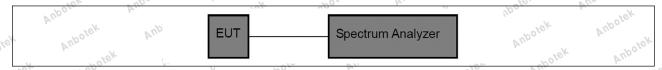
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

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.

5.2. Test Setup



5.3. Test Data

Temperature:	22.7 °C	Vupo.	Humidity:	56 %	Atmospheric Pressure:	101 kPa	-
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Please Refer to Appendix for Details.







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6. Maximum conducted output power

Pole. VIII	they will the same of the same
Test Requirement:	47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(3)(i)
Anbotek Anbotek	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.
k Aupolek Will	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.
lotek Vupor	For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
Test Limit:	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.
ek Aupotek Aupo	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-
Potek Pupotek	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
Anbotek Anbotek	employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Method:	ANSI C63.10-2020, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4

6.1. EUT Operation

	Operating Envir	conment: And
ik-	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
0 1º0	Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Ruh	Aupotek V	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.







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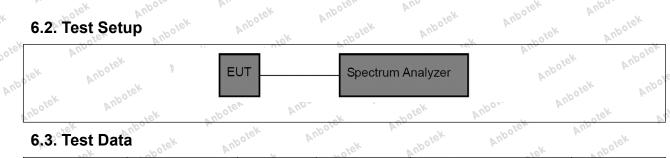
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6.2. Test Setup



6.3. Test Data

6.3. Test Dat	a hotek	Aupotek (Aupore	Aupotek Vi.	Aupoler.	Anotok
Temperature:	22.7 °C	Humidity:	56 %	Atmosph	eric Pressure:	101 kPa

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7. Power spectral density

Test Requirement: 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(3)(i) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1	Aupole
	6 44
megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used maximum power spectral density shall be reduced by the amount in different the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum power spectral density states and the direction of the same and the sam	B that
not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used maximum power spectral density shall be reduced by the amount in directional gain greater than 6 dBi are used maximum power spectral density shall be reduced by the amount in directional gain greater than 6 dBi are used.	, the 🎮
the directional gain of the antenna exceeds 6 dBi. However, fixed poin point U-NII devices operating in this band may employ transmitting an with directional gain greater than 6 dBi without any corresponding red in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint	tennas
systems, omnidirectional applications, and multiple collocated transmit transmitting the same information. The operator of the U-NII device, o equipment is professionally installed, the installer, is responsible for er that systems employing high gain directional antennas are used exclu for fixed, point-to-point operations.	r if the nsuring
Test Method: ANSI C63.10-2020, section 12.6	otek
Procedure: Refer to ANSI C63.10-2020, section 12.6	nbotek
7.1. EUT Operation Anbovek Anbovek Anbovek Anbovek	Anbo

7.1. EUT Operation

P.	Operating Envir	conment: hotek Ando k hotek Ando Ando Ando Ando Ando Ando Ando Ando
	Anborek Ar	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
	Anbo	the worst case. Only the data of worst case is recorded in the report.
Y _S	Aupolek	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
00	Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
	inbotek Anbo	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
	Aupolek A	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.







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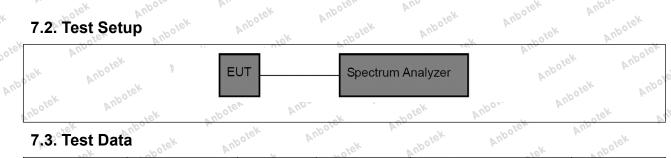
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7.2. Test Setup



7.3. Test Data

Temperature:	22.7 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
		D-1,	184		

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8. Band edge emissions (Radiated)

Test Requiren	nent:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Aupotek Varpotek	Anbotek	Aupore
Anborek		For transmitters operating in the 5.15-5 of the 5.15-5.35 GHz band shall not ex			
"Upolek	And	For transmitters operating solely in the	5.725-5.850 GI	∃z band:	18K

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

increasing linearly to a	level of 27 dBm/lviHz	at the band ed	ge. Noter
MHz	MHz	MHz holes	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
or br.	16.69525	, v , vo	lek Vupo
2.1735-2.1905	16.80425-	960-1240	7.25-7.75
rup. "Otek	16.80475	, ek	upote, Vui
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-	9.3-9.5
"Otek P	Upor K.	1646.5	V.
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
o. K.	Vupore. Vun	1722.2	olek Vup.
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
h. Stek Vup	156.52525	Spoler	Anbo
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)
13.36-13.41	"Olek	Vupor B.	Jek N
D. 15	· 44		-Vo. 4

Test Limit:

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements.



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

² Above 38.6



Except as provide	d elsewhere in	this subpart,	the emissions	from an	poler
intentional radiator	r shall not exce	ed the field	strength levels	specified	in the
following table:	V 50%	ik Aupo	W.	tek	Vupole

Uhr	70°	70,0
Frequency (MHz)	Field strength	Measurement
Aug	(microvolts/meter)	distance
Spoker Aug	Pupo.	(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30 hotek
1.705-30.0	30 Kek Nipole	30
30-88	100 **	e3 Anbore
88-216	150 **	3
216-960	200 **	31ch And
Above 960	500 Jek Naboli	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Method:

Procedure:

ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7

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

8.1. EUT Operation

Operating Environment:

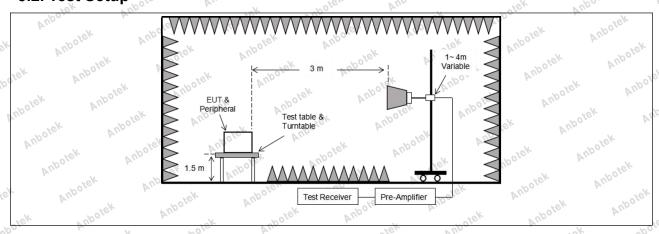
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

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.

8.2. Test Setup







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8.3. Test Data

Temperature: 22.7 °C	Humidity: 56 %	Atmospheric Pressure: 101 kPa

~0,	17.		760	VUD	40-	~00	F			
',po'	TM1 / Band: 5150-5250 MHz / BW: 20 / L									
P	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector		
	5150.00	36.90	15.99	52.89	68.20	-15.31	upotek H P	Peak		
	5150.00	38.96	15.99	54.95	68.20	-13.25	Voda	Peak		
'ek	5150.00	otek 26.86 Ant	15.99 An	42.85	54.00	An-11.15	Holek	AVG		
000	5150.00	28.89	15.99	44.88	54.00	-9.12	V	AVG		
1			TM1 / B	and: 5150-52	250 MHz / BV	V: 20 / H				
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector		
	5250.00	37.37	16.43	53.80	68.20	-14.40	H/r	Peak		
, te	5250.00	40.27	16.43	56.70	68.20	-11.50	Aup ∧ ok	Peak		
	5250.00	^{28.66}	16.43	45.09	54.00	-8.91	Hoose	AVG		
74/2	5250.00	29.59	16.43	46.02	54.00	-7.98	L V nbote	AVG		

Remark: 1. Result=Reading + Factor

-		- N.		16			-17.0
		TM2 / B	and: 5150-52	250 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	35.88	15.99	51.87	68.20	-16.33	H	Peak
5150.00	37.25	15.99	53.24	68.20	-14.96	sk A Vupo,	Peak
5150.00	26.60	15.99	42.59	54.00	-11.41	polek H A	AVG
5150.00	27.59	15.99	43.58	otek 54.00 An	-10.42	Votodo	AVG
		TM2 / B	and: 5150-52	250 MHz / BW	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.68	16.43	54.11	68.20	-14.09	ek H Anbo	Peak And
5250.00	38.74	16.43	55.17	68.20 noot	-13.03	V V	Peak
5250.00	27.71	16.43	44.14	54.00	1001el -9.86	WOOD H	AVG
5250.00	29.14	16.43	otel 45.57 M	54.00	-8.43	Vupo K	AVG

Remark: 1. Result=Reading + Factor

Aupolek









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	V	~0.	N.		16.	*	No.	~0~
otek			TM2 / B	and: 5150-52	250 MHz / BV	V: 40 / L		
Anbo	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
0	5150.00	36.38	15.99	52.37	68.20	-15.83	H ^{nb}	Peak
	5150.00	38.24	15.99	54.23	68.20	-13.97 ₀₀ 0	ick A Vup.	Peak
Ψ.	5150.00	26.95	15.99	42.94 nbox	54.00	11.06	upolek H A	AVG
,k	5150.00	28.71	15.99	44.70	54.00 N	-9.30	VVodn.	AVG
otek			TM2 / B	and: 5150-52	250 MHz / BW	V: 40 / H		
VUp,	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
1	5250.00	38.02	16.43	54.45	68.20	-13.75	rek H Anb	Peak
	5250.00	36.91	16.43	53.34	68.20 M	-14.86	VSKV	Peak
N _S	5250.00	28.20	16.43	44.63	54.00	9.37	rupo, H	AVG
. 10	5250.00	29.39	16.43	45.82	54.00	-8.18	VUD Sign	AVG
100.	Remark: 1. F	Result=Readir	ng + Factor	Aupolek	Aupolek	Vup.	Anborek	Anbox
AND	OLE. VIII	iek	* upolek	Aup	botek	Anbotek	b.	K Anbo

Remark: 1. Result=Reading + Factor

Remark: 1. F	Result=Readi	ng + Factor	Aupolek	Aupole	Aupolek	Anbotek	Anbo
or Vr.	Polek	Aupolen	Ann	Anbolek	Aupo	r upole	k Anbore
		TM3 / B	and: 5150-5	250 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	36.84	15.99 knbc	52.83	68.20	-15.37	Hek	Peak
5150.00	38.58	15.99	54.57	68.20	-13.63	YUDA LOK	Peak
5150.00	26.51	15.99	42.50	54.00	-11.50	H ⁿ oo ,	AVG
5150.00	28.67	15.99	44.66	54.00	-9.34 no 1	A Vupo,	AVG
		TM3 / B	and: 5150-52	250 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.83	16.43	54.26	68.20	-13.94	PUL.	Peak
5250.00	38.08	16.43	54.51	68.20	-13.69	Vupolek	Peak
5250.00	27.72	16.43	44.15	54.00	-9.85	H No	tek AVG Anbo
5250.00	28.26	16.43	44.69	54.00	-9.31 _{Anbo}	V	AVG

Remark: 1. Result=Reading + Factor





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100	· · ·	TM3 / B	and: 5150-5	250 MHz / BV	V: 40 / L		<i></i>
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.79	15.99	51.78	68.20	-16.42	Habotek	Peak
5150.00	36.27	15.99	52.26	68.20	-15.94	Y V	Peak 🗥
5150.00	25.94	15.99	41.93	54.00	-12.07\nb0	H	AVG
5150.00	26.71	15.99 ₀₀ 016	42.70 nbb	54.00	11.30	upoje A	AVG
		TM3 / 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
5250.00	37.96	16.43	54.39	68.20	-13.81	H	Peak N
5250.00	37.13	16.43	53.56	68.20	-14.64	otek A Vup	Peak
5250.00	27.44	16.43	43.87	54.00 And	-10.13	"otekH	AVG
5250.00	27.35	16.43 mb ^o	43.78	54.00	10.22	YUB KK	AVG
Remark: 1. F	Result=Readi	ng + Factor	^{1/0} 0/6k	nbotek	Aupolek	Auporek	Aupotek

Remark: 1. Result=Reading + Factor

K 21.00 00.	10.40	70.70	1.00 T.00	10.22	104	7040
Result=Readi	ng + Factor	Joseph A	upo lek	Aupolek	Auportok	Aupotek
0	TM3 / B	and: 5150-52	250 MHz / BV	W: 80 / L	2.11	
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
35.97	15.99	51.96	168.20 pm	-16.24	Heyou	Peak
36.32	15.99 Anbo	52.31	68.20	-15.89	Anb Vek	Peak
26.45	15.99	nb ⁰¹ 42.44	54.00	-11.56	And H	AVG
26.75	15.99	42.74	54.00	-11.26	N _{port}	AVG
	TM3 / B	and: 5150-52	250 MHz / BV	V: 80 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
38.18	16.43	o ^{ten} 54.61 An	68.20	-13.59	Aupo, H	Peak
37.34 And	16.43	53.77	68.20	-14.43	VUIN VICK	Peak
28.65	16.43	45.08	54.00	-8.92	Hobek	AVG
28.02	16.43	44.45	54.00	-9.55	V	ek AVG no
	Reading (dBuV) 35.97 36.32 26.45 26.75 Reading (dBuV) 38.18 37.34 28.65	TM3 / B Reading (dBuV) (dB/m) 35.97 15.99 36.32 15.99 26.45 15.99 26.75 15.99 TM3 / B Reading (dBuV) (dB/m) 38.18 16.43 37.34 16.43 28.65 16.43	TM3 / Band: 5150-52 Reading (dBuV) (dB/m) (dBuV/m) 35.97 15.99 51.96 36.32 15.99 52.31 26.45 15.99 42.44 26.75 15.99 42.74 TM3 / Band: 5150-52 Reading (dBuV) (dB/m) (dBuV/m) 38.18 16.43 54.61 37.34 16.43 53.77 28.65 16.43 45.08	TM3 / Band: 5150-5250 MHz / BV Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) 35.97 15.99 51.96 68.20 36.32 15.99 52.31 68.20 26.45 15.99 42.44 54.00 26.75 15.99 42.74 54.00 TM3 / Band: 5150-5250 MHz / BV Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) 38.18 16.43 54.61 68.20 37.34 16.43 53.77 68.20 28.65 16.43 45.08 54.00	TM3 / Band: 5150-5250 MHz / BW: 80 / L Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dBuV/m) (dB) 35.97 15.99 51.96 68.20 -16.24 36.32 15.99 52.31 68.20 -15.89 26.45 15.99 42.44 54.00 -11.56 26.75 15.99 42.74 54.00 -11.26 TM3 / Band: 5150-5250 MHz / BW: 80 / H Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 38.18 16.43 54.61 68.20 -13.59 37.34 16.43 53.77 68.20 -14.43 28.65 16.43 45.08 54.00 -8.92	TM3 / Band: 5150-5250 MHz / BW: 80 / L Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) Pol. 35.97 15.99 51.96 68.20 -16.24 H 36.32 15.99 52.31 68.20 -15.89 V 26.45 15.99 42.44 54.00 -11.56 H 26.75 15.99 42.74 54.00 -11.26 V TM3 / Band: 5150-5250 MHz / BW: 80 / H Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) Pol. 38.18 16.43 54.61 68.20 -13.59 H 37.34 16.43 53.77 68.20 -14.43 V 28.65 16.43 45.08 54.00 -8.92 H

Remark: 1. Result=Reading + Factor





Anbotek



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107	- 4D -	-	_ V	70 , k.		760.	VIII
		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	38.41	16.37	54.78	68.20	-13.42	H	Peak And
5725.00	39.88	16.37	56.25	68.20	-11.95,nbo	A V	Peak
5725.00	29.21	16.70	45.91 nbox	54.00	-8.09	Upolog H	AVG
5725.00	30.34	16.70	ote 47.04 pr	54.00	-6.96	Nupo €	AVG
		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	39.40	17.21	56.61	68.20	-11.59	Jiek H Vup	Peak
5850.00	39.81	17.21	57.02	68.20 M	-11.18	Valek	Peak
5850.00	29.34	17.21 nbo	46.55	54.00	7.45	H.	AVG
5850.00	29.31	17.21	46.52	54.00	-7.48	Aup V	AVG

Remark: 1. Result=Reading + Factor

76,	V Ur	- 40.	200	A		D.1.	
		TM2 / 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	38.41 _M	17.05 And	55.46	68.20	-12.74	Hek	Peak
5725.00	39.05	nb ^{ote} 17.05	56.10	68.20	-12.10	N. Volek	Peak
5725.00	27.73	17.05	44.78	54.00	-9.22	A	ek AVG _{Anbo}
5725.00	28.32	17.05	45.37	54.00	-8.63 nb o h	V And	AVG
		TM2 / 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
5850.00 ¹⁰⁵	37.64	17.21	54.85	68.20	-13.35	Anh A	Peak
5850.00	38.19	17.21	55.40	68.20	-12.80	Kuporg	Peak
5850.00	27.98	17.21	45.19	54.00	-8.81	ek H nabo	AVG And
5850.00	28.72	17.21	45.93	54.00	-8.07 And	V	AVG

Remark: 1. Result=Reading + Factor





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V	~0,	r		76.	,•	-01	~0 °
		TM2 / B	and: 5725-58	850 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.99	17.05	55.04	68.20	-13.16	H	Peak no
5725.00	38.93	17.05	55.98	68.20	-12.22 _{nb} o	ick A Vup.	Peak
5725.00	27.24	17.05	44.29 nbot	54.00	9.71	uporek H I	AVG
5725.00	28.53	17.05	45.58	54.00	-8.42	Vode	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	38.35	17.21	55.56	68.20	-12.64	Jek H And	Peak
5850.00	38.66	17.21	55.87	68.20 M	-12.33	V	Peak
5850.00	28.54	× 17.21 nbol	45.75 ^{Ano}	54.00	-8.25	Yupo, H	AVG
5850.00	29.57	17.21	46.78	54.00	-7.22	Aup Of	AVG

Remark: 1. F	Result=Readi	ng + Factor	Aupolek	Aupoles	Vun Fick	Vupo lek	Anbo
ole VI	-potek	Aupolek	Aup	Anborek	Aupolek	k "Upole	k Aupole
		TM3 / B	and: 5725-5	850 MHz / BV	V: 20 / L		p
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.59	17.05 km²	54.64	68.20	-13.56	Hek Hek	Peak
5725.00	37.63	17.05	54.68	68.20	-13.52	YUDA JOK	Peak
5725.00	28.44	17.05	45.49	54.00	-8.51	H ⁿ ho	AVG
5725.00	29.36	17.05	46.41	54.00	-7.59 _{nb} ol ^y	A Vupo,	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	38.33	17.21	55.54	68.20	-12.66	Hra	Peak
5850.00	39.17	17.21	56.38	68.20	-11.82	Vupolek	Peak
5850.00	28.16	17.21	45.37	54.00	-8.63	, H ,	LEK AVG ANDS
5850.00	29.32	17.21	46.53	54.00	-7.47 Anbo	V	AVG

Remark: 1. Result=Reading + Factor





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		TM3 / 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	36.51	17.05	53.56	68.20	-14.64	Habotek	Peak
5725.00	37.97	17.05	55.02	68.20	-13.18	V V	Peak 🗥
5725.00	27.72	17.05	44.77	54.00	-9.23 Anbo	Н	AVG
5725.00	28.39	17.05 ₀₀ 016	45.44 nbbs	54.00	100 te - 8.56	Upole A	AVG
		TM3 / 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	37.84	17.21	55.05	68.20	-13.15	H	Peak
5850.00	38.76	17.21	55.97	68.20	-12.23	otek A Vup	Peak
5850.00	27.86	17.21	45.07	54.00 And	-8.93	"otekH	AVG
5850.00	27.55	17.21 nbo	44.76	54.00	, 50°-9.24	YUR KK	AVG
Remark: 1. F	Result=Readi	ng + Factor	ipole. b	nbotek	Aupolek	Anborotek	Anbolek

Remark: 1. Result=Reading + Factor

0000.00	K 21.00 %	17.21/	77.70	1.00 F	J.2-T	184	1040
Remark: 1. F	Result=Readi	ng + Factor	Joseph A	upo tek	Auporek **	Auporek	Anbotek
		TM3 / B	and: 5725-58	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
5725.00	35.77	17.05	52.82	10 68.20 M	-15.38	Helou	Peak
5725.00	37.36	17.05 Anbc	54.41	68.20	-13.79	And Viek	Peak
5725.00	26.89	17.05	43.94	54.00	-10.06	Augh Fek	AVG
5725.00	27.36	17.05	44.41	54.00	-9.59	N _{port}	AVG
		TM3 / B	and: 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	37.97	17.21 nb	o ^{tek} 55.18 A ^{nt}	68.20	-13.02	Anbor H	Peak
5850.00	38.18 And	17.21	55.39	68.20	-12.81	$^{VU}N_{VSR}$	Peak
5850.00	28.47	17.21	45.68	54.00	-8.32	Horek	AVG
5850.00	28.53	17.21	45.74	54.00	-8.26	V.	LOK AVG NOC

Anbolek

Hotline

Remark: 1. Result=Reading + Factor





9. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	"polek Vupo,	Potek Aupole
uposek Vuposek	Unwanted emissions belo strength limits set forth in	w 1 GHz must comply with the § 15.209.	general field
Aupotek Aupoter		here in this subpart, the emiss ot exceed the field strength lev	
Aupolek b	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
tek Aupor	0.009-0.490	2400/F(kHz)	300
olek Anbore	0.490-1.705	24000/F(kHz)	30
upo colek	1.705-30.0	× 30 hore Amb	6 30 Sporek
Anborek Anb	30-88 NOTE AND ADD	100 **	3 Am
Test Limit:	88-216	150 ** 🗚	otek 3 Aupore
Anbo	216-960	200 **	3 Notek
"polek	Above 960	500	nbol3 And
VI.	** Except as provided in p	aragraph (g), fundamental em	issions from
otek Aupor		iting under this section shall no	
k hotek		Hz, 76-88 MHz, 174-216 MHz	
upolek Aup		these frequency bands is peri	mitted under other
y., rek "upote	sections of this part, e.g.,	§§ 15.231 and 15.241.	3K Wipole
"por	In the emission table abov		
Dr.		/e, the tighter limit applies at th	
Pr. Polsk Vu	The emission limits showr	n in the above table are based	on measurements
Anbotek An	The emission limits shown employing a CISPR quasi	n in the above table are based -peak detector except for the f	on measurements requency bands 9–
k Anbotek An	The emission limits showr employing a CISPR quasi 90 kHz, 110–490 kHz and	n in the above table are based -peak detector except for the f above 1000 MHz. Radiated e	on measurements requency bands 9– mission limits in
k Aupotek Au	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas	n in the above table are based -peak detector except for the f	on measurements requency bands 9– mission limits in
k Aupotek Au	The emission limits showr employing a CISPR quasi 90 kHz, 110–490 kHz and	n in the above table are based -peak detector except for the f above 1000 MHz. Radiated e	on measurements requency bands 9– mission limits in
Test Method:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas	n in the above table are based -peak detector except for the f above 1000 MHz. Radiated e sed on measurements employi	on measurements requency bands 9– mission limits in
Test Method:	The emission limits showr employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector.	n in the above table are based -peak detector except for the f above 1000 MHz. Radiated e sed on measurements employi	on measurements requency bands 9– mission limits in
Test Method:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz:	n in the above table are based -peak detector except for the f above 1000 MHz. Radiated e sed on measurements employi	on measurements requency bands 9– mission limits in ng an average
Test Method:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Electron and the section and the section are bas detector.	n in the above table are based -peak detector except for the f above 1000 MHz. Radiated except on measurements employing 12.7.4, 12.7.5	on measurements requency bands 9-mission limits in ng an average
Test Method: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated except on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a lat a 3 meter semi-anechoic characteristic of the determine the position of the	on measurements requency bands 9-mission limits in ng an average rotating table 0.8 amber. The table highest radiation.
Test Method: Anborek Anborek Anborek Anborek Anborek	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated except on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a at a 3 meter semi-anechoic ch	on measurements requency bands 9-mission limits in ng an average rotating table 0.8 amber. The table highest radiation.
Test Method: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mour	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated except on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a at a 3 meter semi-anechoic character to determine the position of the long meters away from the interfected on the top of a variable-heated.	on measurements requency bands 9-mission limits in ng an average rotating table 0.8 amber. The table highest radiation. erence-receiving eight antenna tower.
Test Method: Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mour c. The antenna height is very section of the sec	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated except on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a at a 3 meter semi-anechoic character of the long term of the l	requency bands 9—mission limits in ng an average rotating table 0.8 namber. The table highest radiation, erence-receiving hight antenna tower, neters above the
Test Method: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mour c. The antenna height is very section of the sec	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated except on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a at a 3 meter semi-anechoic character to determine the position of the long meters away from the interfected on the top of a variable-heated.	requency bands 9—mission limits in ng an average rotating table 0.8 namber. The table highest radiation, erence-receiving hight antenna tower, neters above the
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mour c. The antenna height is we ground to determine the nand vertical polarizations.	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated elsed on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a lat a 3 meter semi-anechoic character to determine the position of the long meters away from the interferted on the top of a variable-heraried from one meter to four maximum value of the field stree of the antenna are set to make	requency bands 9—mission limits in ng an average rotating table 0.8 namber. The table highest radiation. Perence-receiving highest antenna tower. The table highest highest radiation heters above the ngth. Both horizontals the measurement.
Anbotek Anbotek Anbotek Anbotek Anbotek Procedure:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Emeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mour c. The antenna height is we ground to determine the mand vertical polarizations d. For each suspected em	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated ended on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a part a 3 meter semi-anechoic character to determine the position of the long meters away from the interferted on the top of a variable-hearied from one meter to four maximum value of the field stree of the antenna are set to make hission, the EUT was arranged	requency bands 9—mission limits in ng an average rotating table 0.8 namber. The table highest radiation, erence-receiving hight antenna tower, neters above the ngth. Both horizontals the measurement, to its worst case
Anbotek Anbotek Anbotek Anbotek Anbotek Procedure:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mour c. The antenna height is viground to determine the nand vertical polarizations d. For each suspected emand then the antenna was	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated elsed on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a at a 3 meter semi-anechoic character of the top of a variable of the top of a variable of the top of a variable of the antenna are set to make the instance of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the t	requency bands 9—mission limits in ng an average rotating table 0.8 namber. The table en highest radiation. Perence-receiving hight antenna tower. The measurement are the measurement. The its worst case into 4 meters (for the
Potek Vupotek Vupotek Vupotek Vupotek Vupotek Vupotek Vupotek Vupotek Vupotek Vupotek	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mound c. The antenna height is we ground to determine the number of the section of the control of the suspected emand then the antenna was test frequency of below 30 cross and the section of the control	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated elsed on measurements employing at a 3 meter semi-anechoic character away from the interference of the area on the top of a variable-hearied from one meter to four maximum value of the field stree of the antenna are set to make a stranged at tuned to heights from 1 meter DMHz, the antenna was tuned	requency bands 9—mission limits in ng an average rotating table 0.8 amber. The table highest radiation. erence-receiving eight antenna tower. neters above the ngth. Both horizontals the measurement. to its worst case to 4 meters (for the to heights 1 meter)
Anbotek Anbotek Anbotek Anbotek Procedure:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mound c. The antenna height is we ground to determine the number and vertical polarizations d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated elsed on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a at a 3 meter semi-anechoic character of the top of a variable of the top of a variable of the top of a variable of the antenna are set to make the instance of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the antenna are set to make the top of the t	requency bands 9—mission limits in ng an average rotating table 0.8 namber. The table highest radiation. Erence-receiving hight antenna tower. The measurement to its worst case to 4 meters (for the to heights 1 meter)
Anborek Anborek Anborek Anborek Procedure:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mour c. The antenna height is we ground to determine the number and vertical polarizations of the company of below 30 and the rotatable table was maximum reading.	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated elsed on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a sat a 3 meter semi-anechoic character of the top of a variable-heated on the top of a variable-heated from one meter to four maximum value of the field stree of the antenna are set to make hission, the EUT was arranged at tuned to heights from 1 meter DMHz, the antenna was tuned as turned from 0 degrees to 360 meters.	requency bands 9—mission limits in ng an average rotating table 0.8 amber. The table highest radiation. erence-receiving eight antenna tower, neters above the ngth. Both horizontals the measurement, to its worst case to 4 meters (for the to heights 1 meter) of degrees to find the
Anborek Anborek Anborek Anborek Anborek Procedure:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mound c. The antenna height is we ground to determine the number and vertical polarizations of the each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated ended on measurements employing at a 3 meter semi-anechoic character of the top of a variable peak on the top of a variable peak of the antenna are set to make a stuned to heights from 1 meter of the antenna was tuned to the top of the antenna was tuned as turned from 0 degrees to 360 m was set to Peak Detect Functions.	requency bands 9—mission limits in ng an average rotating table 0.8 amber. The table highest radiation. erence-receiving eight antenna tower, neters above the ngth. Both horizontals the measurement, to its worst case to 4 meters (for the to heights 1 meter) of degrees to find the
Anbotek Anbotek Anbotek Anbotek Procedure:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mound c. The antenna height is we ground to determine the number and vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated elsed on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a start a 3 meter semi-anechoic chatco determine the position of the long meters away from the interferted on the top of a variable-hearied from one meter to four maximum value of the field stree of the antenna are set to make a start to the interfert to the interferted on the top of the field stree of the antenna are set to make a start to the interfert to the interfe	requency bands 9—mission limits in ng an average rotating table 0.8 namber. The table highest radiation. Perence-receiving high antenna tower. The measurement. The measurement has been above the measurement. The measurement has been to 4 meters (for the to heights 1 meter) of degrees to find the extinual of the decition and Specified
Anbotek Anbotek Anbotek Anbotek Procedure:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elemeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mound c. The antenna height is very ground to determine the neand vertical polarizations of the control of the co	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated elsed on measurements employing at a 3 meter semi-anechoic character of the top of a period on the top of a period on the top of a variable of the antenna are set to make a strong of the antenna are set to make a tuned to heights from 1 meter of the antenna was tuned as turned from 0 degrees to 360 m was set to Peak Detect Fund Hold Mode. The peak mode was 1000 meters above to Peak Detect Fund Hold Mode. The peak mode was 1000 meters above to Peak Detect Fund Hold Mode. The peak mode was 1000 meters above to 1000 meters above to Peak Detect Fund Hold Mode.	requency bands 9—mission limits in ng an average rotating table 0.8 namber. The table highest radiation. Everace-receiving high antenna tower. The measurement of its worst case to 4 meters (for the to heights 1 meter) of degrees to find the etion and Specified designed by the measurement.
Anbotek Anbotek Anbotek Anbotek Procedure:	The emission limits shown employing a CISPR quasi 90 kHz, 110–490 kHz and these three bands are bas detector. ANSI C63.10-2020, section Below 1GHz: a. For below 1GHz, the Elimeters above the ground was rotated 360 degrees b. The EUT was set 3 or 1 antenna, which was mound c. The antenna height is way ground to determine the number and vertical polarizations d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table way maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the limit specified, then testing	n in the above table are based peak detector except for the fabove 1000 MHz. Radiated elsed on measurements employing 12.7.4, 12.7.5 UT was placed on the top of a start a 3 meter semi-anechoic chatco determine the position of the long meters away from the interferted on the top of a variable-hearied from one meter to four maximum value of the field stree of the antenna are set to make a start to the interfert to the interferted on the top of the field stree of the antenna are set to make a start to the interfert to the interfe	requency bands 9—mission limits in ng an average rotating table 0.8 camber. The table highest radiation. Erence-receiving eight antenna tower. The measurement to its worst case to 4 meters (for the to heights 1 meter) of degrees to find the etion and Specified dB lower than the ak values of the EU







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.
- Repeat above procedures until all frequencies measured was complete.
 Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB







below the limit need not be reported.

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

9.1. EUT Operation

Operating Environment:

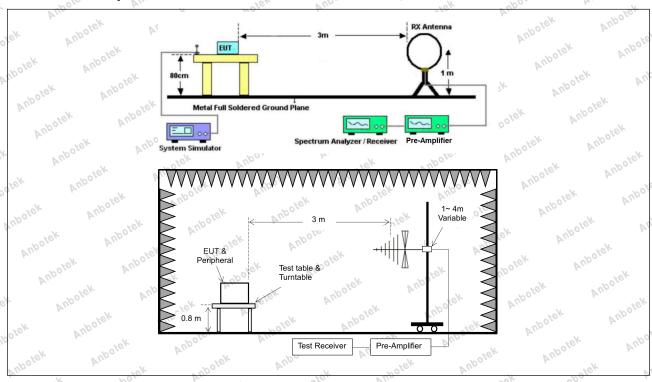
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

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:





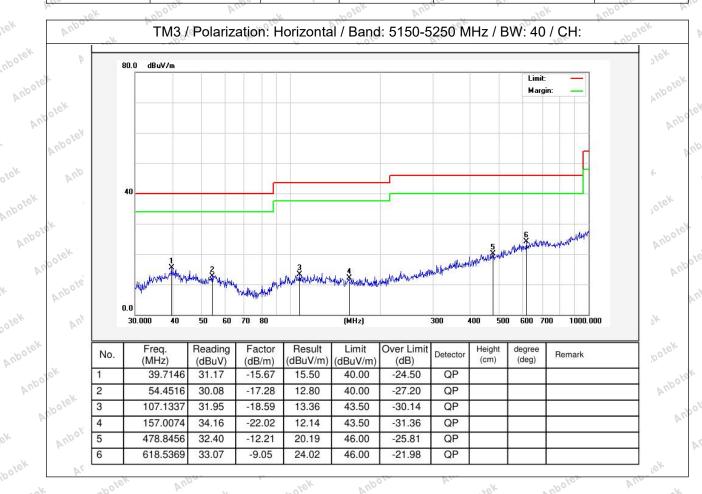




9.3. Test Data

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: 22.6 °C Humidity: 56 % Atmospheric Pressure: 101 kPa







Anbolek

Anbolek

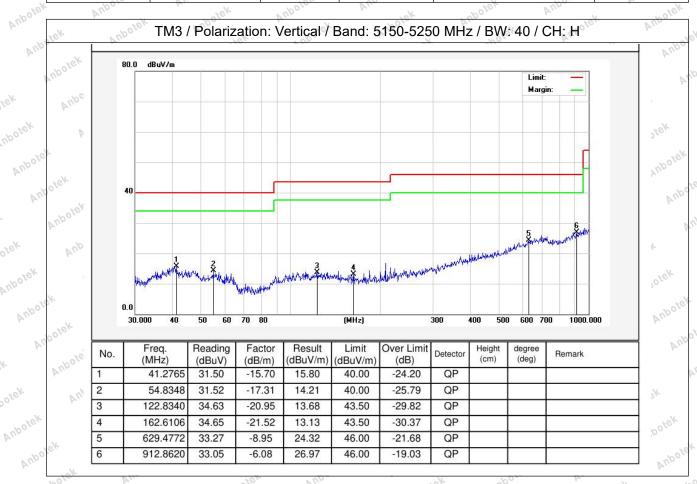
Aupolek

Anbotek

Aupolek

Report No.:1812C40094012504 FCC ID: 2AL2M-TRT-A5780-08

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- P., .	20 0 00	400	0/ V	1 A 1/20" 1	404 1 00%
lemberature:	1 77 6.30	Humidity:	56 %	Atmospheric Pressure:	∣ 101 kPa
Tomporature.	22.000	r i iui i iiuity.	00 /0	Authosphichic i ressule.	i i∪ i M⊽a
/ (S)	V U/N		. W V		17.1.



Note:Only record the worst data in the report.







10. Undesirable emission limits (above 1GHz)

VII.	47 CFR Part 15.407(b)(1) sek so	Post VIII	de de
st Requirement:	47 CFR Part 15.407(b		191	poier And
si Requirement.			Aupore A.	You
ek upoler	47 CFR Part 15.407(b)(10) Aupo.	Nek -	anbolt
W. FEK	For transmitters opera			
Hotek Anbo	of the 5.15-5.35 GHz b	oand shall not exceed	l an e.i.r.p. of −2	7 dBm/MHz.
ick abo	Tel Vulo	totek Anbore	A.	"upole"
Aupole All	For transmitters opera			
"Olek V	All emissions shall be	~0	V 1-0	A. D.
Aug	above or below the ba			
Anborer	above or below the ba			
k.	edge increasing linear			
liek Aupo.	below the band edge, increasing linearly to a			
ok shotek	- VI	- AU - AU -		-\n^0,
upole, Ann	MHz	MHz	MHz	GHz
riek Vup.	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
Anbo	10.495-0.505	16.69475-	608-614	5.35-5.46
Spoker	0.4705.0.4005	16.69525	000 4040	7.05.7.75
Al.	2.1735-2.1905	16.80425-	960-1240	7.25-7.75
Aupole	4.125-4.128	16.80475	1200 1127	0.005.0.5
	- 07	25.5-25.67	1300-1427	8.025-8.5
ofek Vuporer	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
iek upoje	4.20725-4.20775	73-74.6	1645.5-	9.3-9.5
Aupo. W.	6.215-6.218	74.8-75.2	1646.5	10.6-12.7
Potek Vul	6.26775-6.26825	108-121.94	1660-1710	13.25-13.4
Ans	0.20775-0.20825	106-121.94	1718.8- 1722.2	13.25-13.4
st Limit:	6.31175-6.31225	123-138	2200-2300	14.47-14.5
Otek	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
Aupa	8.362-8.366	156.52475-	2483.5-2500	17.7-21.4
iek upolek	0.302-8.300	156.52525	2403.3-2300	17.7-21.4
potek Anbore	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
Polick Vupo.	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
And		167.72-173.2	3332-3339	31.2-31.8
Anbotek An	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
rek	12.57675-12.57725	322-335.4	3600-4400	(2)
Ando	13.36-13.41	022 000.T	3000-1-100	
ak abolek	P.0.00 10:41	Y Vipo,	W.	" Upole.
'SK	¹ Until February 1, 199	9, this restricted band	4 chall bo 0 400	0 510 MU-
Potek Vupore	Origin Condary 1, 199	o, uno resulcieu balic	. 311ali DC 0.430-	O.O TO IVII IZ.
io k hol	² Above 38.6	stek aupole.	VII.	abolek.
" upoles Vur	Above 30.0	Anbo	ek Anbore	V.,
w.	The field strength of e	missions appearing w	vithin these frequ	iency bands sh
Aupo. A	not exceed the limits s			
hotek	1000 MHz, compliance	(3)		-40.
Ans	using measurement in			
iek Vupoje.	detector. Above 1000 I			
W.	15.209shall be demon			

Shenzhen Anbotek Compliance Laboratory Limited



Anbor



Except as provide	d elsewhere in	this subpart,	the emissions	from an	poler
intentional radiator	r shall not exce	ed the field	strength levels	specified	in the
following table:	V 50%	ik Aupo	W.	rek	Vupole

Un- 11 - 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	200	10 C
Frequency (MHz)	Field strength	Measurement
Aupo	(microvolts/meter)	distance
Spoker Aug.	Pupo.	(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30 hotek
1.705-30.0	30 Kek Nipole	30 Am
30-88	100 **	reg Vupore
88-216	150 **	3
216-960	200 **	31eh And
Above 960	500 Jek Naboli	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Method:

Procedure:

ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7

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 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

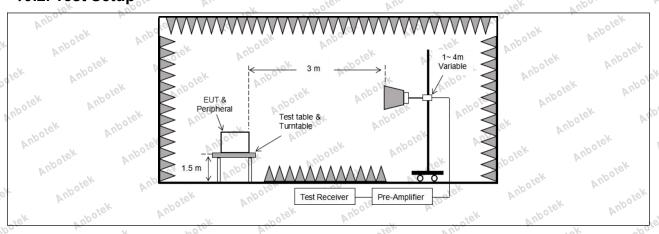
Operating Environment:

1: 802.11a mode: Keep the EUT 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.

10.2. Test Setup







10.3. Test Data

Temperature: 22.7 °C	Humidity:	56 %	Atmospheric Pressure: 101 kPa	
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Vie VIII		TOL	VUD.	You	"PO"	N	20/6	
TM3 / Band: 5150-5250 MHz / BW: 40 / CH: L								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
10380.00	29.65	23.81	53.46 nov	68.20	-14.74	"polekV	Peak	
15570.00	31.00	28.91	59.91	68.20	-8.29	. Kr	Peak	
10380.00	30.85	16 23.81 AN	54.66	68.20	-13.54	Ano H	Peak	
15570.00	31.62	28.91	60.53	68.20	-7.67	PHO.	Peak	
10380.00	20.40	23.81	44.21	54.00	-9.79	· V _{Anbote}	AVG	
15570.00	20.91	28.91	49.82	54.00	-4.18	V V	otek AVG AN	
10380.00	20.80	23.81	44.61	54.00	16k -8.39 My	H	AVG	
15570.00	21.11	28.91	50.02 _k nbo	54.00	-3.98	Anbole H	AVG	
	TM3 / Band: 5150-5250 MHz / BW: 40 / CH: H							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
10460.00	30.04	23.80	53.84	68.20	-14.36	k V Nupoti	Peak	
15690.00	31.21	30.03	61.24	68.20	-6.96 h	V	o [∞] Peak ⋈	
10460.00	30.49	23.80	54.29	68.20	13.91 AN	H	Peak	
15690.00	31.74	30.03	61.77 And	68.20	-6.43	Anboiek H	Peak	
10460.00	20.69	23.80	44.49	54.00	-9.51	Nek	AVG	
15690.00	20.82	30.03	50.85	54.00	-3.15	All V Stek	AVG	
10460.00	20.53	23.80	44.33	54.00	-9.67	Hupo	AVG	
15690.00	20.71	30.03	50.74	54.00	-3.26	SK H Wupo	AVG	
- AVI "								

Remark:

- Result =Reading + Factor
- Only the worst case (802.11ac(HT40)) is recorded in the report.
- Test frequency are from 1GHz to 40GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.







	~ 0 V	12.	76,	" Up			*PO. P	
	TM2 / Band: 5725-5850 MHz / BW: 40 / CH: L							
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
0)	11510.000	28.60	23.36	51.96	68.20	-16.24	V hotek	Peak
. 1	17265.000	29.16	32.02	61.18	68.20	-7.02°	VARIA	Peak No
	11510.000	29.46	23.36	52.82	68.20	-15.38	FOK H AND	Peak
	17265.000	29.41	32.02	61.43	68.20	-6.77	holek H	n ^{bot} Peak
	11510.000	18.32	23.36	41.68	54.00	-12.32	The She	AVG
K	17265.000	18.71	32.02 AN	50.73	54.00	-3.27	Aup C	AVG
	11510.000	18.68	23.36	42.04	54.00	-11.96	PHO.	AVG
>	17265.000	19.17	32.02	51.19	54.00	-2.81	. H _{abote}	AVG
P	TM2 / Band: 5725-5850 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	27.94	23.43	51.37	68.20	-16.83	Yus	Peak
Vs	17385.00	29.12	32.23	61.35	68.20	-6.85	Aup	Peak
	11590.00	28.45 An	23.43	51.88	68.20	-16.32	Hoose	Peak
(0	17385.00	28.68	32.23	60.91	68.20	-7.29	k H nbok	Peak
	11590.00	17.57	23.43	41.00	54.00	-13.00	V	otel AVG
	17385.00	17.73	32.23	49.96	54.00	otek -4.04 An	ore. A V	AVG
	11590.00	18.49	23.43	41.92 And	54.00	-12.08	nboreH	AVG
	17385.00	18.65	32.23	50.88	54.00	-3.12	Hek	AVG

Remark:

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- Result =Reading + Factor
- 2. Only the worst case (802.11n40) is recorded in the report.
- 3. Test frequency are from 1GHz to 40GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

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Report No.:1812C40094012504 FCC ID: 2AL2M-TRT-A5780-08

APPENDIX I -- TEST SETUP PHOTOGRAPH

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Please refer to separated files Appendix I -- Test Setup Photograph RF

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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

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

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