

TEST REPORT

Product Name Model Number Contains FCC ID

: Tablet
: M12, TPC12-PS
: 2BEA6TPC121

Prepared for
Address:Vantron Technology, Inc.
48434 Milmont Drive Fremont, California 94538-7324, United
StatesPrepared by
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Report Number:ENS2410220034W01004RDate(s) of Tests:October 23, 2024 to November 6, 2024Date of issue:November 6, 2024

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1 TEST RESULT CERTIFICATION

Applicant	:	Vantron Technology, Inc.
Address	:	48434 Milmont Drive Fremont, California 94538-7324, United States
Manufacturer	:	Vantron Technology, Inc.
Address	:	48434 Milmont Drive Fremont, California 94538-7324, United States
EUT	:	Tablet
Model Name	:	M12, TPC12-PS
Trademark	:	Vantron

Measurement Procedure Used:

APPLICABLE STANDARDS					
STANDARD	TEST RESULT				
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	PASS				
IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021) IC RSS-247 Issue 3(08-2023)	PASS				

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2, Part 15.407, IC RSS-247 Issue 3 and IC RSS-GEN, Issue 5.

The test results of this report relate only to the tested sample identified in this report.

Date of Test :

Prepared by :

October 23, 2024 to November 6, 2024

Una yu

Una Yu/Editor

ve Xid

Reviewer :

Joe Xia/Supervisor

Approve & Authorized Signer :

Lisa Wang/Manager



Modified History

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2410220034W01004R	/	Original Report
Type is F Permissi than the	is change is to request approval PC antenna, According to the reve ve Change Policy v06, the anter original, Radiated Spurious Emi ace,and the results of other test i	equirements for antenna nna types are different a ssion tests were perform	Change in KDB178919 D01 nd the gain value is greater ned to verify RF



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2 EUT TECHNICAL DESCRIPTION

Characteristics	Description					
Product:	Tablet					
Model Number:	M12, TPC12-PS (The same product, different names sold to different customers or regions)					
Sample Number:	2#					
Wifi Type:	Wifi 5G with 5150MHz-5250MHz Band Wifi 5G with 5250MHz-5350MHz Band Wifi 5G with 5470MHz-5725MHz Band Wifi 5G with 5725MHz-5850MHz Band					
WLAN Supported:	802.11a/n/ac					
Data Rate :	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: MCS0-MCS15 802.11ac: MCS0-MCS9					
Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac					
	UNII-1: 5150MHz-5250MHz Band 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20) 5190-5230MHz for 802.11n(HT40)/ac(VHT40) 5210MHz for 802.11ac(VHT80)					
	UNII-2A: 5250MHz-5350MHz Band 5260-5320MHz for 802.11a/n(HT20)/ac(VHT20) 5270-5310MHz for 802.11n(HT40)/ac(VHT40) 5290MHz for 802.11ac(VHT80)					
Frequency Range:	UNII-2C: 5470MHz-5725MHz Band 5500-5700MHz for 802.11a/n(HT20)/ac(VHT20) 5510-5670MHz for 802.11n(HT40)/ac(VHT40) 5530MHz for 802.11ac(VHT80)					
	UNII-3 with 5725MHz-5850MHz Band 5745-5825MHz for 802.11a/n(HT20)/ac(VHT20) 5755-5795MHz for 802.11n(HT40)/ac(VHT40) 5775MHz for 802.11ac(VHT80);					
Antenna Type:	FPC Antenna					
Antenna Gain: Ant1: 4.3 dBi Ant2: 5.7 dBi (Note: The antenna information is provided by the customers, which certain impact on the test results.)						
Power Supply:	AC 230V/50Hz, AC 120V/60Hz, DC 7.6V from Internal Battery					
Temperature Range:	0-40 °C					

Note: For more details, please refer to the User's manual of the EUT.

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3 SUMMARY OF TEST RESULT

FCC PartClause	IC Part Clause	Test Parameter	Verdict	Remark		
15.407 (b) 15.209 15.205	RSS-247, 6.2 RSS-Gen 8.9 RSS-Gen 8.10 RSS-Gen 6.13	8.9 8.10 RadiatedSpurious Emission				
NOTE1:N/A (Not Applicable) NOTE2:According to FCC OET KDB 789033, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.						

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for **ContainsFCC ID:2BEA6TPC121** filing to comply with Section 15.407 of the FCC Part 15, Subpart C Rules.



4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021) IC RSS-247 Issue 3(08-2023) FCC KDB 662911 D01 Multiple Transmitter Output v02r01 FCC KDB 789033 D2 General UNII Test Procedures New Rules v02r01

4.2 MEASUREMENT EQUIPMENT USED

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval					
Pre-Amplifier	Bonn	BLMA 011001N	2213967A	2024/10/23	1Year					
EMI Test Receiver	Rohde & Schwarz	ESR7	102551	2024/10/23	1Year					
Bilog Antenna	Schwarzbeck	VULB9163	9163142	2024/7/8	2Year					
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1198	2023/6/2	2Year					
Pre-Amplifier	Bonn	BLMA 0118-5G	2213967B-01	2024/10/23	1Year					
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101290	2024/10/23	1Year					
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2023/5/12	2Year					
Pre-Amplifier	Pre-Amplifier Lunar EM		J1012131010 001	2024/5/11	1Year					
Pre-Amplifier Lunar EM		LNA26G40-40	J1013131028 001	2024/5/11	1Year					
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2023/5/12	2Year					
Cable			N/A	2024/5/15	1 Year					
Cable	H+B	NmSm-2-C1520 1	N/A	2024/5/15	1 Year					
Cable	H+B	NmNm-7-C1570 2	N/A	2024/5/15	1 Year					
Cable	H+B	SAC-40G-1	414	2024/5/15	1 Year					
Cable	H+B	SUCOFLEX104	MY14871/4	2024/5/15	1 Year					
Cable	H+B	BLU18A-NmSm- 6500	D8501	2024/5/15	1 Year					
Band reject Filter(50dB)	WI/DE	WRCGV-2400(2 400-2485MHz)	2	2024/5/15	1 Year					

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4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11a: 54 Mbps; 802.11n(HT20): MCS0; 802.11ac(VHT20): MCS0; 802.11n(HT40): MCS0; 802.11ac(VHT40): MCS0; 802.11ac(VHT80): MCS0;) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Wifi 5G with U-NII - 1

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220		
40	5200	48	5240		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230		

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210		6		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest Frequency		Middle F	requency	Highes	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	48	5240

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest Frequency		Middle F	requency	Highes	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	N/A	N/A	46	5230

Test Frequency and channel for 802.11ac (VHT80):

Lowest F	Lowest Frequency		Middle Frequency		st Frequency
Channel	Channel Frequency (MHz)		Frequency (MHz)	Channel	Frequency (MHz)
42	5210	N/A	N/A	N/A	N/A

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☑ Wifi 5G with U-NII -2A

Frequency and Channel list 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300		
56	5280	64	5320		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270				
62	5310				

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	56	5280	64	5320

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	N/A	N/A	62	5310

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle F	Frequency	Highe	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				



⊠ Wifi 5G with U-NII -2C

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	118	5590	134	5670
110	5550	126	5630		

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	120	5600	140	5700

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest Frequency		Middle F	requency	Highes	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510			134	5670

Test Frequency and channel for 802.11ac (VHT80):

Lowest F	requency	Middle F	requency	Highes	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530				

☑ Wifi 5G with U-NII -3

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825
153	5765	161	5805		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795		

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Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest F	requency	Middle Frequency		Highes	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest F	requency	Middle Frequency		Highes	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	N/A	N/A	159	5795

Test Frequency and channel for 802.11ac (VHT80):

Lowest F	requency	Middle Frequency		Highes	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				



5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at:

EMTEK (Shenzhen) Co., Ltd.

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
EMC Lab. :	Accredited by CNAS The Certificate Registration Number is L2291. The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)
	Accredited by FCC Designation Number: CN1204 Test Firm Registration Number: 882943
	Accredited by A2LA The Certificate Number is 4321.01.
	Accredited by Industry Canada The Conformity Assessment Body Identifier is CN0008
Name of Firm : Site Location :	EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

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6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Parameter	Measurement Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Power Density	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5°C
Humidity	±3%

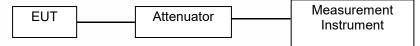
Measurement Uncertainty for a level of Confidence of 95%



7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360° , and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Measurements shall be taken, using the following steps, at a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment (see RSS-Gen for applicable versions of ANSI and CISPR standards). (1) Line the ground plane with absorbers between the transmitter and the receive antenna to minimize reflections. The absorbers used should have a minimum-rated attenuation of 20 dB through the measurement frequency range of interest. The absorbers shall be positioned to replicate the layout used when compliance with the applicable acceptability criterion was achieved, as set forth in the aforementioned standards on site validation.

(2) Set the height of the receive antenna to 1.5 m. The receive antenna must be one that was designed and fabricated to operate over the entire frequency range of interest, for example, an appropriate standard gain horn.

(3) The distance between the receive antenna and the radiating source shall be sufficient in order to ensure far-field conditions.

(4) Mount the transmitter at a height of 1.5 m.

(5) Configure the device under test (DUT) to produce the maximum power spectral density as measured while assessing compliance with Section 6.2.2 (i.e. channel frequency, modulation type and data rate). If the DUT is equipped with a detachable antenna and the antenna is intended for remote installation (i.e. tower-mounted), the DUT may be substituted with a suitable signal generator. The level and frequency settings on the generator shall be set so as to reproduce the maximum power spectral density, measured within a 1 MHz bandwidth, obtained while assessing compliance to Section 6.2.2.

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(6) Position the transmitter or the radiating antenna so that elevation pattern measurements can be taken.(7) Find the 0° reference point in the horizontal plane.

(8) Care should be taken when positioning the receive antenna to avoid cross-polarization. Antennas of known mounting polarization should be assessed with the receive antenna oriented in the same polarity. If the polarization of the transmit antenna is unknown or the transmit antenna can be mounted in either polarization, e.i.r.p. measurements should be performed to find which

mounting polarity provides the highest e.i.r.p. value. Testing shall be carried out with the receive antenna and the DUT mounted in each polarity.

(9) The emission shall be centred on the display of the spectrum analyzer with the following settings: i. If the power spectral density of the DUT was assessed with a peak detector and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

ii. If the power spectral density of the DUT was assessed using a sample detector with power averaging and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a sample detector, configured to produce 100 power averages and set with a resolution bandwidth, as well as a video bandwidth of 1 MHz.

iii. If the antenna can be detached from the DUT, a continuous wave (CW) signal equal to that of the power spectral density measurement may be used, the spectrum analyzer shall be set to peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

(10) Rotate the turntable 360° recording the field strength at each step. Throughout the main beam of the antenna, the step size shall be kept to a maximum of 1°.

Once outside the main beam of the antenna, the maximum step size shall be as follows, when compared to the requirements of Section 6.2.2:

i. Between 0° and 8°, maximum step size of 2°;

ii. Between 8° and 40°, maximum step size of 4°;

iii. Between 40° and 45°, maximum step size of 1°;

iv. Between 45° and 90°, maximum step size of 5°.

Once the mask reaches 90°, the mask will be inverted and the step size will follow in the same manner as above.

For the purpose of this procedure, the main beam of the antenna is defined as the 3 dB beamwidth. (11) Convert the measured field strength values in terms of e.i.r.p. density (dBW/1 MHz) using the following equation:

e.i.r.p density(dBW/MHz)=10log((E*r)²/30)

E = field strength in V/m

r = measurement distance in metres

(12) Plot the results against the emission mask with reference to the horizontal plane.

(13) Using the plot, the 0° can be rotated to determine the worst-case installation tilt angle.

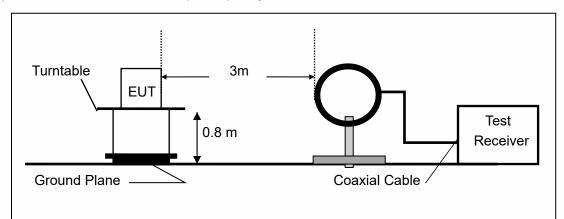
(14) Testing shall be performed using the highest gain antenna for every antenna type, if applicable.

(15) Antenna type(s), antenna model number(s), and worst-case tilt angle(s) necessary to remain

compliant with the elevation mask requirement set forth in Section 6.2.2(3) of RSS-247 shall be clearly indicated in the user manual.

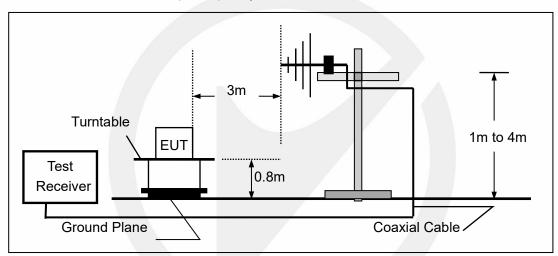
The following figure is an example of a polar elevation mask measured using the Method 1 reference to $dB\mu V/m$ at 3 m.



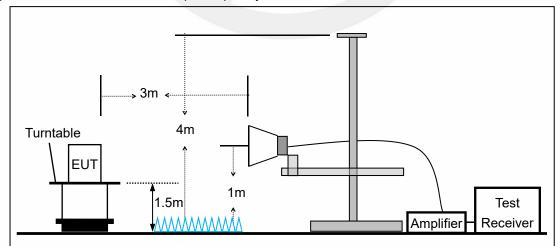


(a) Radiated Emission Test Set-Up, Frequency Below 30MHz

(b)Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



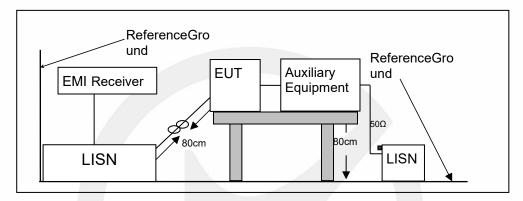


7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

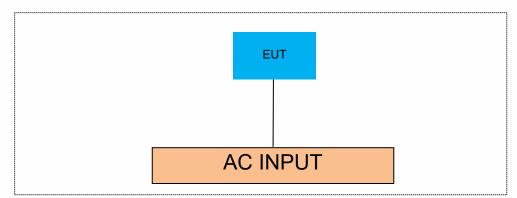
Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.





7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

EUT Cable List and Details					
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite		
1	1	1	/		

Auxiliary Cable List and Details

Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
1	1	1	1

Auxiliary Equipment List and Details					
Description	Manufacturer	Model	Serial Number		
1	1	1	/		

Notes:

*1.*All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



7.6 UNDESIRABLE RADIATED SPURIOUS EMISSION

7.6.1 Applicable Standard

According to FCC Part 15.407 (b), 15.209, 15.205 According to 789033 D02 SectionII(G) According to RSS-GEN 8.9, 8.10 and 6.13

7.6.2 Conformance Limit

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

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

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

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209 The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Restricted	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement
Frequency(MHz)			Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The provisions of §15.205 apply to intentional radiators operating under this section, 15.205 Restricted bands of operation

MHz	MHz	GHz
16.42-16.423	399.9-410	4.5-5.15
16.69475-16.69525	608-614	5.35-5.46
16.80425-16.80475	960-1240	7.25-7.75
25.5-25.67	1300-1427	8.025-8.5
37.5-38.25	1435-1626.5	9.0-9.2
73-74.6	1645.5-1646.5	9.3-9.5
74.8-75.2	1660-1710	10.6-12.7
123-138	2200-2300	14.47-14.5
149.9-150.05	2310-2390	15.35-16.2
156.52475-156.52525	2483.5-2500	17.7-21.4
156.7-156.9	2690-2900	22.01-23.12
162.0125-167.17	3260-3267	23.6-24.0
167.72-173.2	3332-3339	31.2-31.8
240-285	3345.8-3358	36.43-36.5
322-335.4	3600-4400	(2)
	16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358

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Remark: 1. Emission level in dBuV/m=20 log (uV/m)

Measurement was performed at an antenna to the closed point of EUT distance of meters.
 Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

7.6.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

7.6.4 Test Procedure

Unwanted Emissions Measurements below 1000 MHz

Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

The EUT was placed on a turn table which is 0.8m above ground plane.

And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Repeat above procedures until all frequency measured was complete.

We use software control the EUT, Let EUT hopping on and transmit with highest power, All the modes have been tested and the worst result was reported.

Use the following spectrum analyzer settings:

SetRBW=120kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f<150KHz(9KHz to 150KHz), 9KHz for <30MHz(150KHz to 30KHz).

Set the VBW > RBW.

Detector = Peak.

Trace mode = max hold.

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Repeat above procedures until all frequency measured was complete.

Unwanted Maximumpeak Emissions Measurements above 1000 MHz

Maximum emission levels are measured by setting the analyzer as follows:

RBW = 1 MHz.

VBW ≥ 3 MHz.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

■ Unwanted Average Emissions Measurements above 1000 MHz

Method VB (Averaging using reduced video bandwidth): Alternative method.

RBW = 1 MHz.

Video bandwidth. • If the EUT is configured to transmit with duty cycle \geq 98 percent, set VBW \leq RBW/100 (i.e., 10 kHz) but not less than 10 Hz.

• If the EUT duty cycle is < 98 percent, set VBW \geq 1/T, where T is defined in section II.B.1.a).

Video bandwidth mode or display mode • The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS and setting the Average-VBW Type to Power (RMS).

• As an alternative, the analyzer may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some analyzers require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode.

Detector = Peak.

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Sweep time = auto.

Trace mode = max hold.

Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle. For example, use at least 200 traces if the duty cycle is 25 percent. (If a specific emission is demonstrated to be continuous—i.e., 100 percent duty cycle—rather than turning on and off with the transmit cycle, at least 50 traces shall be averaged.)

Band edge measurements.

Unwanted band-edge emissions may be measured using either of the special band-edge measurement techniques (the marker-delta or integration methods) described below. Note that the marker-delta method is primarily a radiated measurement technique that requires the 99% occupied bandwidth edge to be within 2 MHz of the authorized band edge, whereas the integration method can be used in either a radiated or conducted measurement without any special requirement with regards to the displacement of the unwanted emission(s) relative to the authorized bandwidth.

Marker-Delta Method. The marker-delta method, as described in

The marker-delta method, as described in ANSI C63.10, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied bandwidth of the fundamental is within 2 MHz of the authorized band-edge.

7.6.5 Test Results

Temperature:	22° C
Relative Humidity:	43%
ATM Pressure:	1011 mbar

Spurious Emission below 30MHz(9KHz to 30MHz)

Freq. Ant.Pol.		Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(IVIHZ)	H/V	PK	ÁV	PK	AV	PK	AV
			/				

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

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For Undesirable radiatedSpurious Emission in U-NII - 1

•Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz) All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode:	802.11a	Freque	ncy: Cha	annel 36: 5180N	Hz
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
8696.348	V	42.76	-52.47	-27	-25.47
10737.36	V	44.96	-50.27	-27	-23.27
17566.28	V	46.35	-48.88	-27	-21.88
8713.356	Н	43.05	-52.18	-27	-25.18
9988.994	Н	41.82	-53.41	-27	-26.41
15899.44	н	44.20	-51.03	-27	-24.03

Test mode:	802.11a	Freque	ncy: Cha	annel 40: 5200N	IHz
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
8135.067	V	40.88	-54.35	-27	-27.35
11120.06	V	44.51	-50.72	-27	-23.72
16579.78	V	44.57	-50.66	-27	-23.66
8679.339	Н	42.57	-52.66	-27	-25.66
11069.03	Н	44.10	-51.13	-27	-24.13
17838.41	Н	47.05	-48.18	-27	-21.18

Test mode:	802.11a	Freque	nnel 48: 5240M	IHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7437.718	V	39.83	-55.40	-27	-28.40
11077.53	V	44.08	-51.15	-27	-24.15
16316.15	V	44.23	-51.00	-27	-24.00
10091.04	Н	46.99	-48.24	-27	-21.24
12990.99	Н	46.16	-49.07	-27	-22.07
17311.15	Н	45.29	-49.94	-27	-22.94

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3)EIRP[dBm] = E[dBµV/m] + 20 log(d[meters]) - 104.77 d is the measurement distance in 3 meters



Test mode: 802.11a Frequency: Channel 36: 5180MHz								
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)		
	H/V	PK	AV	PK	AV	PK	AV	
8696.348	V	57.96	42.76	74	54	16.04	11.24	
10737.36	V	62.23	44.96	74	54	11.77	9.04	
17566.28	V	64.12	46.35	74	54	9.88	7.65	
8713.356	Н	57.96	43.05	74	54	16.04	10.95	
9988.994	Н	61.27	41.82	74	54	12.73	12.18	
15899.44	Н	63.16	44.20	74	54	10.84	9.80	

Test mode:802.11aFrequency:Channel 40: 5200MHz							
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m((dBuV/m)	Ove	er(dB)
(11112)	H/V	PK	AV	PK	AV	PK	AV
8135.067	V	57.55	40.88	74	54	16.45	13.12
11120.06	V	61.55	44.51	74	54	12.45	9.49
16579.78	V	63.58	44.57	74	54	10.42	9.43
8679.339	Н	57.50	42.57	74	54	16.50	11.43
11069.03	Н	60.80	44.10	74	54	13.20	9.90
17838.41	Н	63.50	47.05	74	54	10.50	6.95

Test mode:802.11aFrequency:Channel 48: 5240MHz							MHz
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m((dBuV/m)	Ove	er(dB)
(11112)	H/V	PK	AV	PK	AV	PK	AV
7437.718	V	56.91	39.83	74	54	17.09	14.17
11077.53	V	61.03	44.08	74	54	12.97	9.92
16316.15	V	63.67	44.23	74	54	10.33	9.77
10091.04	Н	60.45	46.99	74	54	13.55	7.01
12990.99	Н	62.09	46.16	74	54	11.91	7.84
17311.15	Н	62.86	45.29	74	54	11.14	8.71

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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•Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode:	802.11ac(VHT20)		Frequency	: Cha	Channel 36: 5180MH		
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)		E.I.R.P (dBm)	Limit (dBm)	Verdict	
5138.62	Н	45.13		-50.10	-27	Pass	
5126.925	V	2	14.64	-50.59	-27	Pass	

Test mode: 802.11ac(VHT20) Frequency: Channel 48: 5240MHz

Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5360.14	Н	44.89	-50.34	-27	Pass
5356.43	V	44.99	-50.24	-27	Pass

Note:(1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).(2) Emission Level= Reading Level+Probe Factor +Cable Loss.(3)EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77d is the measurement distance in 3 meters

Test mode:	802.11ac(V	(HT20) Frequence	cy: Ch	annel 36: 5180N	/Hz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5138.62	н	55.38	74	45.13	54
5126.925	V	55.09	74	44.64	54

Test mode:	802.11ac(V	HT20) Frequence	y: Ch	annel 48: 5240N	1Hz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5360.14	Н	53.95	74	44.89	54
5356.43	V	53.86	74	44.99	54

Note:

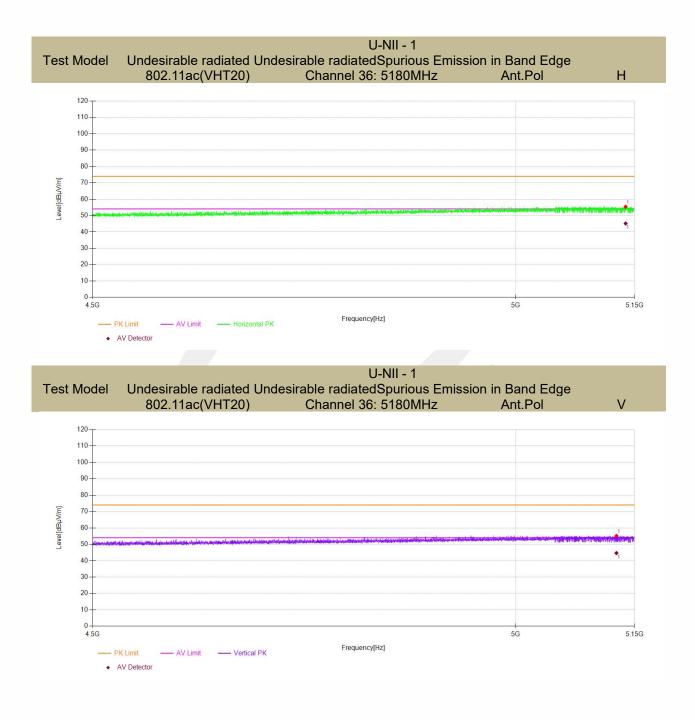
(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

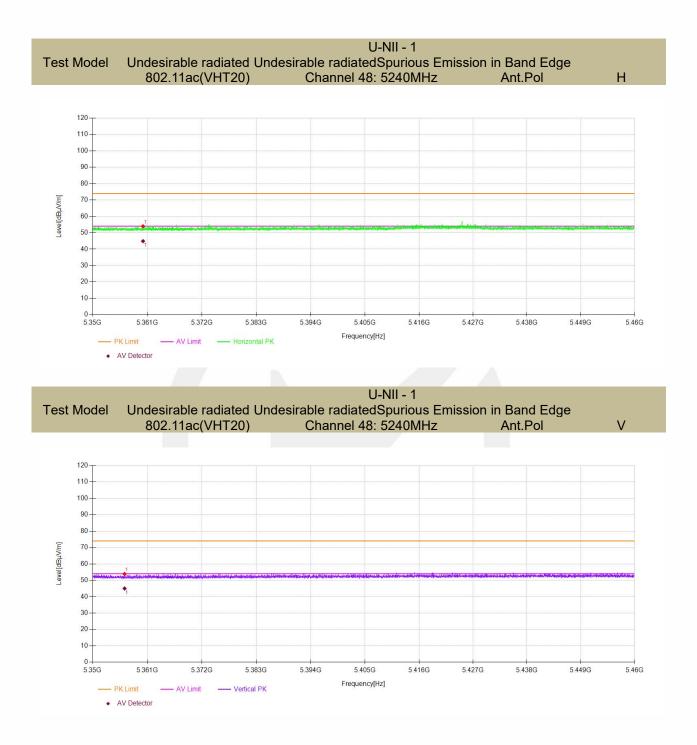
(3) Correct Factor= Ant_F + Cab_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.











For Undesirable RadiatedSpurious Emission in U-NII -2A
 Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)
 All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode:	802.11a	Freque	ncy: Cha	nnel 52: 5260N	IHz
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
8050.025	V	40.52	-54.71	-27	-27.71
10745.87	V	44.82	-50.41	-27	-23.41
17778.88	V	46.58	-48.65	-27	-21.65
8670.835	Н	42.47	-52.76	-27	-25.76
12531.76	Н	47.48	-47.75	-27	-20.75
16214.10	н	44.15	-51.08	-27	-24.08

Test mode:	802.11a	Freque	ncy: Cha	annel 56: 5280M	IHz
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
8696.348	V	43.01	-52.22	-27	-25.22
10737.36	V	44.65	-50.58	-27	-23.58
16528.76	V	45.01	-50.22	-27	-23.22
8696.348	Н	43.11	-52.12	-27	-25.12
11052.02	Н	44.06	-51.17	-27	-24.17
17914.95	Н	46.92	-48.31	-27	-21.31

Test mode:	802.11a	Freque	ncy: Cha	nnel 64: 5320M	IHz
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
8721.860	V	42.58	-52.65	-27	-25.65
11103.051	V	44.27	-50.96	-27	-23.96
15168.08	V	44.13	-51.10	-27	-24.10
9291.645	Н	43.88	-51.35	-27	-24.35
11094.54	Н	44.51	-50.72	-27	-23.72
16409.70	Н	45.02	-50.21	-27	-23.21

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3)EIRP[dBm] = E[dBµV/m] + 20 log(d[meters]) - 104.77 d is the measurement distance in 3 meters



Test mode:	802.11a		F	requency:	Chan	nel 52: 5260M	MHz
Freq. (MHz)	Ant.Pol.	Emis Level(d	ssion BuV/m)	Limit 3m	(dBuV/m)	Ove	r(dB)
	H/V	PK	AV	PK	AV	PK	AV
8050.025	V	57.56	40.52	74	54	16.44	13.48
10745.87	V	61.15	44.82	74	54	12.85	9.18
17778.88	V	63.41	46.58	74	54	10.59	7.42
8670.835	Н	57.99	42.47	74	54	16.01	11.53
12531.76	Н	62.35	47.48	74	54	11.65	6.52
16214.10	Н	63.07	44.15	74	54	10.93	9.85

Test mode:	802.11a		F	requency:	Chan	nel 56: 5280N	MHz
Freq. (MHz)	Ant.Pol.	Emis Level(d	ssion BuV/m)	Limit 3m	(dBuV/m)	Ove	r(dB)
(101112)	H/V	PK	AV	PK	AV	PK	AV
8696.348	V	57.58	43.01	74	54	16.42	10.99
10737.36	V	61.62	44.65	74	54	12.38	9.35
16528.76	V	63.86	45.01	74	54	10.14	8.99
8696.348	Н	57.93	43.11	74	54	16.07	10.89
11052.02	Н	61.64	44.06	74	54	12.36	9.94
17914.95	Н	64.28	46.92	74	54	9.72	7.08

Test mode:	802.11a		F	requency:	Chan	nel 64: 5320N	MHz
Freq. (MHz)	Ant.Pol.		ssion BuV/m)	Limit 3m	(dBuV/m)	Ove	r(dB)
(11112)	H/V	PK	AV	PK	AV	PK	AV
8721.860	V	57.89	42.58	74	54	16.11	11.42
11103.051	V	61.86	44.27	74	54	12.14	9.73
15168.08	V	64.30	44.13	74	54	9.70	9.87
9291.645	Н	57.41	43.88	74	54	16.59	10.12
11094.54	Н	61.31	44.51	74	54	12.69	9.49
16409.70	Н	64.28	45.02	74	54	9.72	8.98

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp
(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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•Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode:	802.11ac(VH	IT20) F	requency:	Cha	nnel 52: 5260M	Hz
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)		E.I.R.P (dBm)	Limit (dBm)	Verdict
5084.67	Н	44.2	7	-50.96	-27	Pass
5098.56	V	44.5	5	-50.68	-27	Pass

Test mode: 802.11ac(VHT20) Frequency: Channel 64: 5320MHz

Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5357.49	Н	45.56	-49.67	-27	Pass
5357.98	V	45.07	-50.16	-27	Pass

Note:(1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).(2) Emission Level= Reading Level+Probe Factor +Cable Loss.(3)EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77d is the measurement distance in 3 meters

Test mode:	802.11	ac(VHT20)	Frequency:	Channel 5	52: 5260MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5084.67	Н	64.58	74.00	44.27	54.00
5098.56	V	64.49	74.00	44.55	54.00

Test mode:	802.11ac(VHT20)		Frequency: Channel 6		4: 5320MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5357.49	Н	63.65	74.00	45.56	54.00
5357.98	V	64.13	74.00	45.07	54.00

Note:

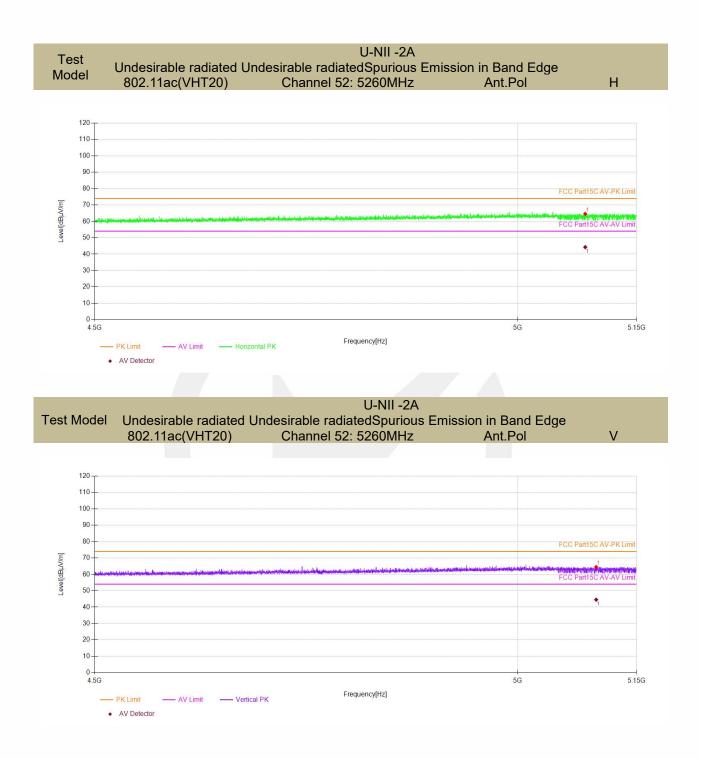
(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant F + Cab L - Preamp

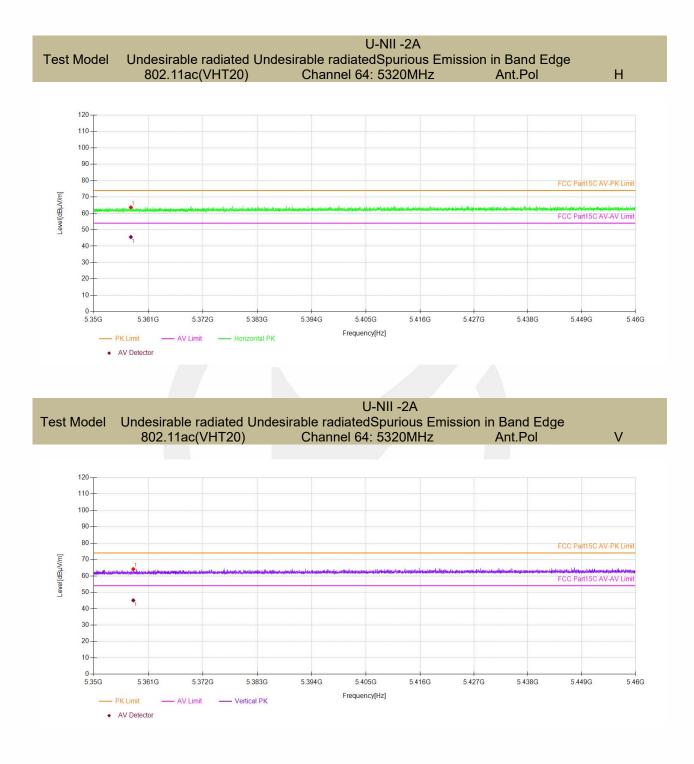
(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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For Undesirable radiated Spurious Emission in U-NII -2C
 Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)
 All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode:	802.11a	Frequency:		Channel 100: 5500MHz		
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)	
8747.373	V	42.53	-52.70	-27	-25.70	
10992.49	V	44.48	-50.75	-27	-23.75	
16766.88	V	45.03	-50.20	-27	-23.20	
8670.835	Н	41.80	-53.43	-27	-26.43	
11026.51	Н	44.46	-50.77	-27	-23.77	
17761.88	н	46.97	-48.26	-27	-21.26	

Test mode:	802.11a	Freque	ncy: Cha	hannel 120: 5600MHz		
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)	
8645.322	V	41.97	-53.26	-27	-26.26	
12582.79	V	45.06	-50.17	-27	-23.17	
17506.75	V	45.41	-49.82	-27	-22.82	
8670.835	Н	42.47	-52.76	-27	-25.76	
10660.83	Н	44.36	-50.87	-27	-23.87	
17778.88	Н	46.56	-48.67	-27	-21.67	

Test mode:	802.11a	Freque	ncy: Cha	hannel 140: 5700MHz		
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)	
8653.826	V	42.33	-52.90	-27	-25.90	
9997.498	V	41.59	-53.64	-27	-26.64	
16588.29	V	45.09	-50.14	-27	-23.14	
8135.067	Н	40.79	-54.44	-27	-27.44	
9903.952	Н	41.51	-53.72	-27	-26.72	
17727.86	Н	46.41	-48.82	-27	-21.82	

 Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77 d is the measurement distance in 3 meters



Test mode: 802.11a Frequency: Char)MHz
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(1011 12)	H/V	PK	AV	PK	AV	PK	AV
8747.373	V	57.89	42.53	74	54	16.11	11.47
10992.49	V	60.97	44.48	74	54	13.03	9.52
16766.88	V	63.99	45.03	74	54	10.01	8.97
8670.835	Н	57.90	41.80	74	54	16.10	12.20
11026.51	Н	61.41	44.46	74	54	12.59	9.54
17761.88	Н	63.56	46.97	74	54	10.44	7.03

Test mode: 802.11a

Frequency: Channel 116: 5580MHz

Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)		
H/V	PK	AV	PK	AV	PK	AV	
V	57.96	41.97	74	54	16.04	12.03	
V	62.32	45.06	74	54	11.68	8.94	
V	64.53	45.41	74	54	9.47	8.59	
н	57.72	42.47	74	54	16.28	11.53	
Н	61.22	44.36	74	54	12.78	9.64	
Н	64.06	46.56	74	54	9.94	7.44	
	H/V V V V H H	Ant.Pol. Level(d H/V PK V 57.96 V 62.32 V 64.53 H 57.72 H 61.22	Ant.Pol. Level(dBuV/m) H/V PK AV V 57.96 41.97 V 62.32 45.06 V 64.53 45.41 H 57.72 42.47 H 61.22 44.36	Ant.Pol. Level(dBuV/m) Limit 3mg H/V PK AV PK V 57.96 41.97 74 V 62.32 45.06 74 V 64.53 45.41 74 H 57.72 42.47 74 H 61.22 44.36 74	Ant.Pol. Level(dBuV/m) Limit 3m(dBuV/m) H/V PK AV PK AV V 57.96 41.97 74 54 V 62.32 45.06 74 54 V 64.53 45.41 74 54 H 57.72 42.47 74 54 H 61.22 44.36 74 54	Ant.Pol. Level(dBuV/m) Limit 3m(dBuV/m) Ove H/V PK AV PK AV PK V 57.96 41.97 74 54 16.04 V 62.32 45.06 74 54 11.68 V 64.53 45.41 74 54 9.47 H 57.72 42.47 74 54 16.28 H 61.22 44.36 74 54 12.78	

Test mode: 802.11a

Frequency:

Channel 140: 5700MHz

(MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8653.826	V	57.68	42.33	74	54	16.32	11.67
9997.498	V	61.50	41.59	74	54	12.50	12.41
16588.29	V	63.29	45.09	74	54	10.71	8.91
8135.067	Н	56.99	40.79	74	54	17.01	13.21
9903.952	Н	61.27	41.51	74	54	12.73	12.49
17727.86	Н	63.85	46.41	74	54	10.15	7.59

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



•Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode:	802.11ac(VF	IT20)	Frequency:	Cha	nnel 100: 5500	MHz
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)		E.I.R.P (dBm)	Limit (dBm)	Verdict
5468.51	Н		54.58	-40.65	-27	Pass
5466.76	V		55.32	-39.91	-27	Pass

Test mode: 802.11ac(VHT20) Frequency: Channel 140: 5700MHz

Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5727.67	н	55.12	-40.11	-27	Pass
5725.50	V	55.94	-39.29	-27	Pass

Note:(1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).(2) Emission Level= Reading Level+Probe Factor +Cable Loss.(3)EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77d is the measurement distance in 3 meters

Test mode:	802.11	lac(VHT20)	Frequency:	Channel 1	100: 5500MH
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5469.56	Н	56.75	74.00	45.81	54.00
5469.23	V	54.82	74.00	46.08	54.00

Test mode:	802.11	ac(VHT20)	Frequency:	Channel 1	40: 5700MH
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5725.47	Н	55.32	74.00	46.28	54.00
5727.15	V	55.02	74.00	45.89	54.00

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

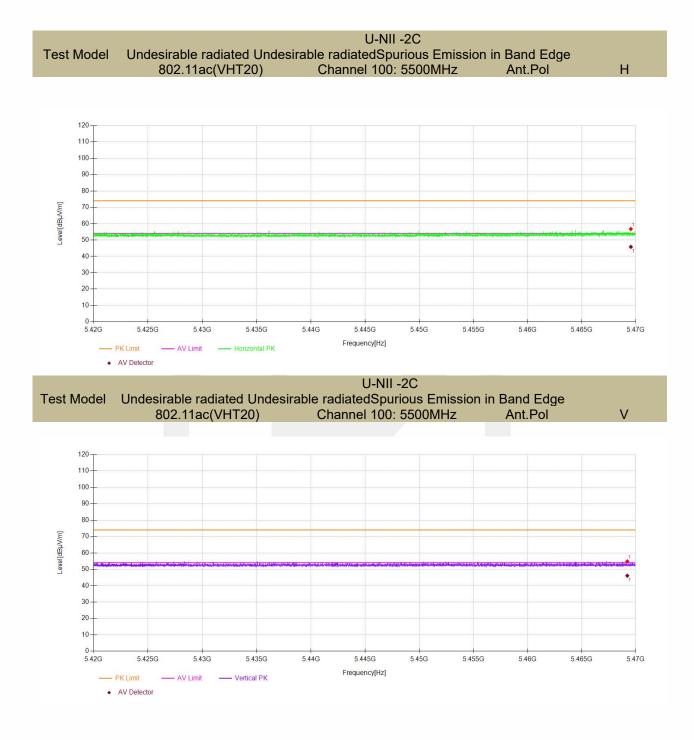
(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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For Undesirable radiated Spurious Emission in U-NII -3

•Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna (Antenna 1&2) and modes (802.11a/n/ac) has been tested and the worst (Antenna 1,802.11a) result recorded was report as below:

Test mode:	802.11a	Freque	ncy: Cha	Channel 149: 5745MHz		
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)	
8721.860	V	46.37	-48.86	-27	-21.86	
11842.92	V	45.32	-49.91	-27	-22.91	
17608.80	V	45.10	-50.13	-27	-23.13	
8466.733	Н	40.26	-54.97	-27	-27.97	
10728.86	Н	45.17	-50.06	-27	-23.06	
17285.64	Н	44.79	-50.44	-27	-23.44	

Test mode:	802.11a	Freque	ncy: Cha	hannel 157: 5785MHz		
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)	
8687.843	V	42.79	-52.44	-27	-25.44	
10754.37	V	44.74	-50.49	-27	-23.49	
17336.66	V	44.77	-50.46	-27	-23.46	
7922.461	Н	39.12	-56.11	-27	-29.11	
10023.01	Н	41.73	-53.50	-27	-26.50	
17974.48	Н	46.69	-48.54	-27	-21.54	

Test mode:	802.11a	Freque	ncy: Cha	nnel 165: 5825	nel 165: 5825MHz		
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
8687.843	V	42.59	-52.64	-27	-25.64		
9903.952	V	41.10	-54.13	-27	-27.13		
15601.80	V	42.77	-52.46	-27	-25.46		
8577.288	Н	40.92	-54.31	-27	-27.31		
10737.36	Н	44.98	-50.25	-27	-23.25		
17617.30	Н	46.85	-48.38	-27	-21.38		

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3)EIRP[dBm] = E[dBµV/m] + 20 log(d[meters]) - 104.77 d is the measurement distance in 3 meters



Test mode:	802.11a		F	requency:	Chan	nel 149: 5745	5MHz
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8721.860	V	58.11	46.37	74.00	54.00	15.89	11.37
11842.92	V	60.92	45.32	74.00	54.00	13.08	10.30
17608.80	V	64.01	45.10	74.00	54.00	9.99	7.18
8466.733	Н	57.63	40.26	74.00	54.00	16.37	13.74
10728.86	Н	61.50	45.17	74.00	54.00	12.50	8.83
17285.64	Н	64.51	44.79	74.00	54.00	9.49	9.21

Test mode: 802.11aFrequency:Channel 157: 5785MHz							5MHz
Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
8687.843	V	57.85	42.79	74.00	54.00	16.15	11.21
10754.37	V	60.93	44.74	74.00	54.00	13.07	9.26
17336.66	V	63.39	44.77	74.00	54.00	10.61	9.23
7922.461	Н	56.45	39.12	74.00	54.00	17.55	14.88
10023.01	Н	61.09	41.73	74.00	54.00	12.91	12.27
17974.48	Н	64.11	46.69	74.00	54.00	9.89	7.31

Test mode::	802.11a		Frequency: Channel 165: 5825MHz				
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8687.843	V	57.40	42.59	74.00	54.00	16.60	11.41
9903.952	V	61.34	41.10	74.00	54.00	12.66	12.90
15601.80	V	63.49	42.77	74.00	54.00	10.51	11.23
8577.288	Н	57.42	40.92	74.00	54.00	16.58	13.08
10737.36	Н	61.74	44.98	74.00	54.00	12.26	9.02
17617.30	Н	64.03	46.85	74.00	54.00	9.97	7.15

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp
(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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•Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode:	802.11ac(VF	(VHT20) Frequency:		Channel 149: 5745MHz			
Freq. (MHz)	Ant.Pol.	(RBW	Strength =100KHz) 3uV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict	
5725	Н	80.20		-15.03	27	Pass	
5724.81	V	e	64.74	-30.49	26.57	Pass	

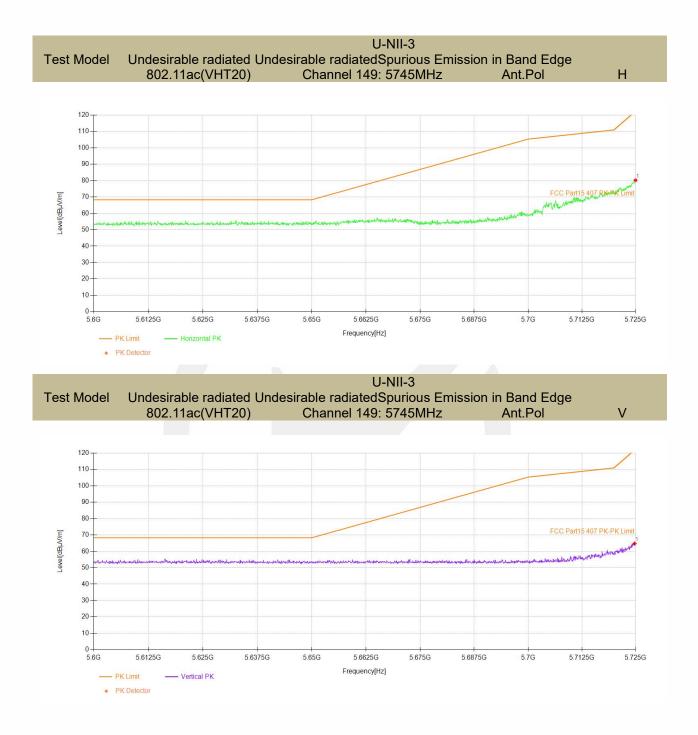
Test mode:	802.11ac(VH	IT20)	Frequency: Cha		nnel 165: 5825MHz		
Freq. (MHz)	Ant.Pol.	(RBW	l Strength /=100KHz) BuV/m)	E.I.R.P (dBm)	Limit (dBm)		
5850.31	Н	71.81		-23.42	26.29	Pass	
5851.00	V		60.11	-35.12	24.72	Pass	

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz). (2) Emission Level= Reading Level+Probe Factor +Cable Loss.

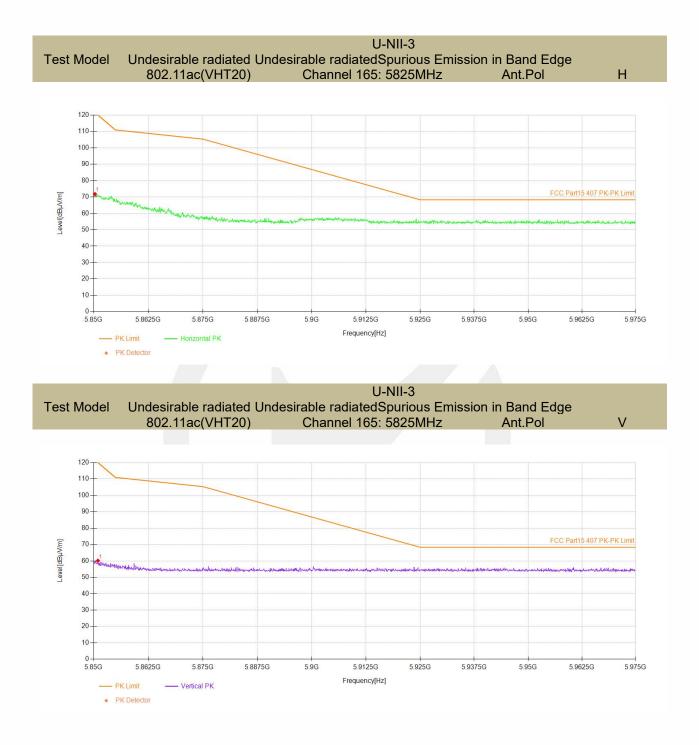
(3)EIRP[dBm] = E[dB μ V/m] + 20 log(d[meters]) - 104.77

d is the measurement distance in 3 meters



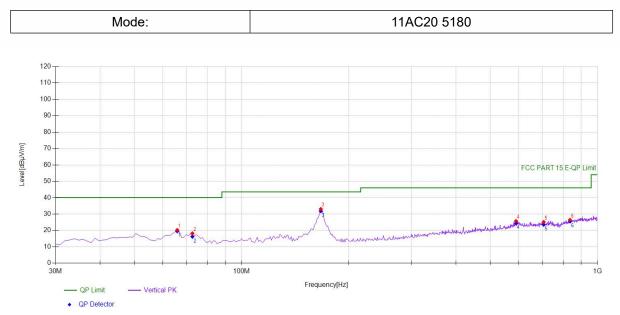








 Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz) All the antenna (Antenna 1&2) and modes (802.11a/n/ac) has been tested and the worst (Antenna 1,802.11ac(VHT20)) result recorded was report as below:

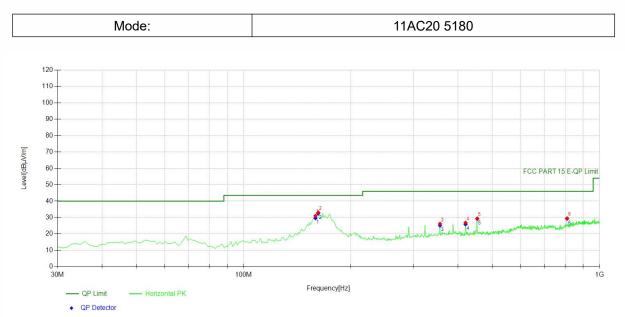


Suspe	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity			
1	65.9259	38.50	-18.24	20.26	PK	40.00	19.74	Vertical			
2	72.7227	37.42	-19.21	18.21	PK	40.00	21.79	Vertical			
3	166.9069	52.24	-19.17	33.07	PK	43.50	10.43	Vertical			
4	590.2503	32.67	-6.97	25.70	PK	46.00	20.30	Vertical			
5	705.7958	31.26	-6.14	25.12	PK	46.00	20.88	Vertical			
6	836.8769	31.16	-4.74	26.42	PK	46.00	19.58	Vertical			

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]
1	65.9259	-18.24	19.56	40.00	20.44
2	72.7227	-19.21	16.23	40.00	23.77
3	166.9069	-19.17	31.80	43.50	11.70
4	590.2503	-6.97	24.43	46.00	21.57
5	705.7958	-6.14	23.53	46.00	22.47
6	836.8769	-4.74	25.55	46.00	20.45

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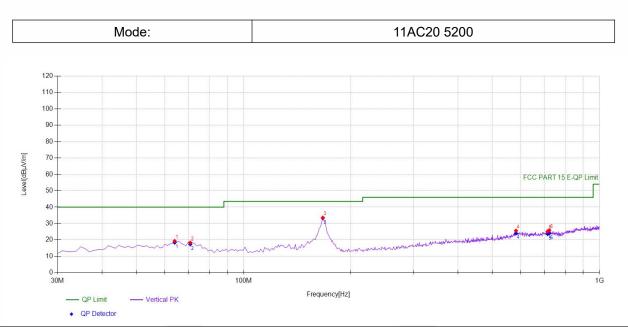




Suspe	Suspected Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity				
1	159.1391	50.49	-19.47	31.02	PK	43.50	12.48	Horizontal				
2	162.0521	52.48	-19.37	33.11	PK	43.50	10.39	Horizontal				
3	356.2462	38.51	-12.35	26.16	PK	46.00	19.84	Horizontal				
4	420.3303	38.70	-11.87	26.83	PK	46.00	19.17	Horizontal				
5	453.3433	40.10	-10.64	29.46	PK	46.00	16.54	Horizontal				
6	810.6607	34.83	-5.32	29.51	PK	46.00	16.49	Horizontal				

Final Data List										
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]					
1	159.1391	-19.47	29.67	43.50	13.83					
2	162.0521	-19.37	32.47	43.50	11.03					
3	356.2462	-12.35	25.20	46.00	20.80					
4	420.3303	-11.87	25.87	46.00	20.13					
5	453.3433	-10.64	29.22	46.00	16.78					
6	810.6607	-5.32	29.27	46.00	16.73					

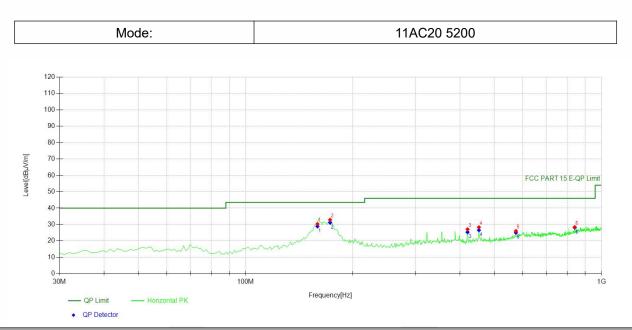




Suspe	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity			
1	63.984	37.32	-17.98	19.34	PK	40.00	20.66	Vertical			
2	70.7808	37.23	-18.90	18.33	PK	40.00	21.67	Vertical			
3	166.9069	52.75	-19.17	33.58	PK	43.50	9.92	Vertical			
4	582.4825	32.96	-7.34	25.62	PK	46.00	20.38	Vertical			
5	714.5345	31.30	-6.14	25.16	PK	46.00	20.84	Vertical			
6	722.3023	32.03	-6.14	25.89	PK	46.00	20.11	Vertical			

Final Data List										
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]					
1	63.984	-17.98	18.38	40.00	21.62					
2	70.7808	-18.90	17.37	40.00	22.63					
3	166.9069	-19.17	33.34	43.50	10.16					
4	582.4825	-7.34	24.10	46.00	21.90					
5	714.5345	-6.14	23.64	46.00	22.36					
6	722.3023	-6.14	24.04	46.00	21.96					

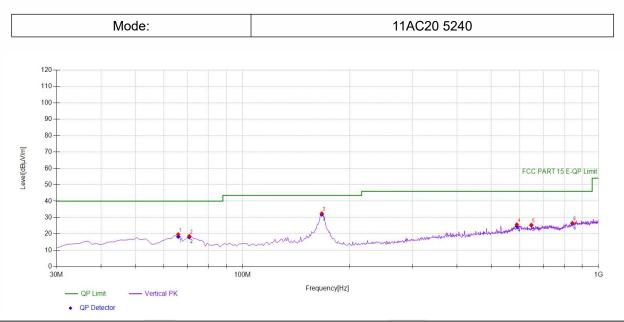




Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity	
1	159.1391	49.81	-19.47	30.34	PK	43.50	13.16	Horizontal	
2	172.7327	51.82	-18.92	32.90	PK	43.50	10.60	Horizontal	
3	420.3303	38.97	-11.87	27.10	PK	46.00	18.90	Horizontal	
4	452.3724	39.00	-10.68	28.32	PK	46.00	17.68	Horizontal	
5	574.7147	33.79	-7.73	26.06	PK	46.00	19.94	Horizontal	
6	840.7608	33.09	-4.63	28.46	PK	46.00	17.54	Horizontal	

Final Data List							
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]		
1	159.1391	-19.47	28.90	43.50	14.60		
2	172.7327	-18.92	31.14	43.50	12.36		
3	420.3303	-11.87	25.34	46.00	20.66		
4	452.3724	-10.68	26.56	46.00	19.44		
5	574.7147	-7.73	25.01	46.00	20.99		
6	840.7608	-4.63	28.13	46.00	17.87		

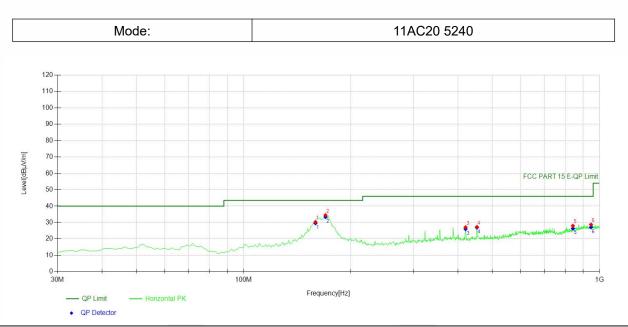




Suspe	Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity	
1	65.9259	37.98	-18.24	19.74	PK	40.00	20.26	Vertical	
2	70.7808	37.60	-18.90	18.70	PK	40.00	21.30	Vertical	
3	166.9069	51.72	-19.17	32.55	PK	43.50	10.95	Vertical	
4	589.2793	32.81	-7.02	25.79	PK	46.00	20.21	Vertical	
5	647.5375	32.84	-7.31	25.53	PK	46.00	20.47	Vertical	
6	844.6446	31.15	-4.45	26.70	PK	46.00	19.30	Vertical	

Final Data List								
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]			
1	65.9259	-18.24	18.30	40.00	21.70			
2	70.7808	-18.90	17.98	40.00	22.02			
3	166.9069	-19.17	31.83	43.50	11.67			
4	589.2793	-7.02	24.74	46.00	21.26			
5	647.5375	-7.31	25.20	46.00	20.80			
6	844.6446	-4.45	26.37	46.00	19.63			





Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity	
1	159.1391	49.80	-19.47	30.33	PK	43.50	13.17	Horizontal	
2	169.8198	53.56	-19.06	34.50	PK	43.50	9.00	Horizontal	
3	420.3303	39.01	-11.87	27.14	PK	46.00	18.86	Horizontal	
4	452.3724	37.99	-10.68	27.31	PK	46.00	18.69	Horizontal	
5	841.7317	32.59	-4.58	28.01	PK	46.00	17.99	Horizontal	
6	946.5966	31.92	-3.17	28.75	PK	46.00	17.25	Horizontal	

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Final	Data	LIST

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]			
1	159.1391	-19.47	29.59	43.50	13.91			
2	169.8198	-19.06	33.43	43.50	10.07			
3	420.3303	-11.87	26.07	46.00	19.93			
4	452.3724	-10.68	26.96	46.00	19.04			
5	841.7317	-4.58	26.38	46.00	19.62			
6	946.5966	-3.17	27.12	46.00	18.88			

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