



RF TEST REPORT

Report No.: 20240417G06190X-W5

Product Name: Mobile Labeling Printer

Main Model No. : K388

Series Model No. : K388A, K388B, K388C, K388D, K388E, K388F, K388G, K388H,
K388P, K388R, K388S, K388T, K388W

FCC ID: SWSK388

Applicant: UROVO TECHNOLOGY CO., LTD.

Address: 36F, High-Tech Zone Union Tower, No.63,Xuefu Road, Nanshan
District, Shenzhen, Guangdong, China

Dates of Testing: 05/30/2024 - 07/15/2024

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No.43, Shahe Road, Xili Street,
Nanshan District, Shenzhen, Guangdong, China.

Tel: 86 755 26627338 **E-Mail:** manager@ccic-set.com

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Test Report

Product.....: Mobile Labeling Printer
Trade Name: UROVO
Applicant.....: UROVO TECHNOLOGY CO., LTD.
Applicant Address.....: 36F, High-Tech Zone Union Tower, No.63,Xuefu Road,
Nanshan District, Shenzhen, Guangdong, China
Manufacturer.....: UROVO TECHNOLOGY CO., LTD.
Manufacturer Address.....: 36F, High-Tech Zone Union Tower, No.63,Xuefu Road,
Nanshan District, Shenzhen, Guangdong, China
Test Standards.....: 47 CFR Part 15 Subpart E 15.407
ANSI C63.10-2020
Test Result.....: Pass

Tested by: Chuiwang Zhang 2024.07.15
Chuiwang Zhang, Test Engineer

Reviewed by.....: Sun Jiaohui 2024.07.15
Sun Jiaohui, Senior Engineer

Approved by.....: Chris You 2024.07.15
Chris You, Manager



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Change History		
Issue	Date	Reason for change
1.0	2024.07.15	First edition



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Mobile Labeling Printer
EUT supports Radios application	WLAN5.0GHz 802.11a/n/ac
Product Type	Client devices
Modulation Type	802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 433.333 Mbps
Frequency Range	UNII-1: 5150 ~ 5250MHz UNII-2a: 5250 ~ 5350MHz UNII-2c: 5470 ~ 5725MHz UNII-3: 5725 ~ 5850MHz
Channel Bandwidth	802.11a: 20MHz 802.11n: 20MHz/40MHz 802.11ac: 20MHz/40MHz/80MHz
Channel Number	UNII-1: 4 for 802.11a, 802.11n(HT20), 802.11ac(VHT20) 2 for 802.11n(HT40), 802.11ac(VHT40) 1 for 802.11ac(VHT80) UNII-2a: 4 for 802.11a, 802.11n(HT20), 802.11ac(VHT20) 2 for 802.11n(HT40), 802.11ac(VHT40), 1 for 802.11ac(VHT80) UNII-2c: 11 for 802.11a, 802.11n(HT20), 802.11ac(VHT20) 5 for 802.11n(HT40), 802.11ac(VHT40) 2 for 802.11ac(VHT80) UNII-3: 5 for 802.11a, 802.11n(HT20), 802.11ac(VHT20) 2 for 802.11n(HT40), 802.11ac(VHT40) 1 for 802.11ac(VHT80)
Antenna Type	Internal Antenna
Antenna Gain	2.42dBi
Output Power (Max.)	UNII-1: 15.92dBm UNII-2a: 14.53dBm UNII-2c: 14.54dBm UNII-3: 14.85dBm
Power supply	Rechargeable Li-ion Battery DC10.8V/3000mAh



Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

Note 2: All of the model's circuit theory, electrical design and Critical Components are the same, only have different model name.

1.2. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC/IC certification standards:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E §15.407	Radio Frequency Devices
2	KDB789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices
4	RSS-Gen Issue 5, Feb 2021	General Requirements for Compliance of Radio Apparatus
5	RSS-247 Issue 3, Aug 2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and Licence-Exempt Local Area Network (LE-LAN) Devices

Test detailed items/section required by FCC rules and results are as below:

No.	FCC Rule	Description	Result
1	15.203 15.407(a)	Antenna Requirement	PASS
2	15.407(a)(1)(iv) 15.407 (a)(2) 15.407(a)(3)(i)	Maximum Conducted Output Power	PASS
3	15.407(a)(12)	26dB Emission Bandwidth 99% Occupied Bandwidth	PASS
4	15.407(e)	6dB Emission Bandwidth	PASS
5	15.407(a)(1)(iv) 15.407 (a)(2) 15.407(a)(3)(i)	Power spectral density (PSD)	PASS
6	15.207	AC Power Line Conducted Emission	PASS
7	15.205 15.209 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4)	Radiated Band Edges and Spurious Emission	PASS
8	15.407(g)	Frequency Stability	PASS

1.3. Channel List

Operated band in 5150 MHz ~ 5250MHz

4 channels are provided for 802.11a, 802.11n-HT20 and 802.11ac-VHT20.

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

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40.

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

1 channels are provided for 802.11ac-VHT80.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
42	5210	/	/

Operated band in 5250 MHz ~ 5350MHz

4 channels are provided for 802.11a, 802.11n-HT20 and 802.11ac-VHT20.

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

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40.

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

1 channels are provided for 802.11ac-VHT80.

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

Operated band in 5470 MHz ~ 5725MHz

11 channels are provided for 802.11a, 802.11n-HT20 and 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	/	/

5 channels are provided for 802.11n-HT40 and 802.11ac-VHT40.

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

2 channels are provided for 802.11ac-VHT80.

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

Operated band in 5725 MHz ~ 5850MHz

5 channels are provided for 802.11a, 802.11n-HT20 and 802.11ac-VHT20.

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

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40.

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

1 channel are provided for 802.11ac-VHT80

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

1.4. Test environment and mode

During the measurement, the environmental conditions were within the listed ranges:

Operating Environment	
Temperature	15°C - 35°C
Humidity	30% -60%
Atmospheric Pressure	86kPa-106kPa
Test mode:	
Continuously transmitting mode	Keep the EUT in continuous transmitting with modulation

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

For Frequency band 5150 ~ 5250 MHz				
Test Mode	Frequency(MHz)			Data rate
	LCH	MCH	HCH	
802.11a	5180	5220	5240	6 Mbps
802.11n-HT20/ac-VHT20				MCS 0
802.11n-HT40/ac-VHT40	5190	/	5230	MCS 0
802.11ac-VHT80	5210	/	/	MCS 0
Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.				



For Frequency band 5250 ~ 5350 MHz

Test Mode	Frequency(MHz)			Data rate
	LCH	MCH	HCH	
802.11a	5260	5300	5320	6 Mbps
802.11n-HT20/ac-VHT20				MCS 0
802.11n-HT40/ac-VHT40	5270	/	5310	MCS 0
802.11ac-VHT80	5290	/	/	MCS 0
Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.				

For Frequency band 5470 ~ 5725 MHz

Test Mode	Frequency(MHz)			Data rate
	LCH	MCH	HCH	
802.11a	5500	5580	5700	6 Mbps
802.11n-HT20/ac-VHT20				MCS 0
802.11n-HT40/ac-VHT40	5510	5550	5670	MCS 0
802.11ac-VHT80	5530	/	/	MCS 0
Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.				

For Frequency band 5725 ~ 5850 MHz

Test Mode	Frequency(MHz)			Data rate
	LCH	MCH	HCH	
802.11a	5745	5785	5825	6 Mbps
802.11n-HT20/ac-VHT20				MCS 0
802.11n-HT40/ac-VHT40	5755	/	5795	MCS 0
802.11ac-VHT80	5775	/	/	MCS 0
Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.				

1.5. Table for Supporting Units

Support Equipment:

No.	Equipment	Brand Name	Model Name	Manufacturer	Serial No.	Note
1	Laptop	HP	TPN-Q221	HP	5CD14347QB	FCC DOC

Support Cable:

Description	Shield Type	Ferrite Core	Length
DC Power Cable	Un- shielding	/	2m
Data Connection Cable	Un- shielding	/	6m



1.6. Laboratory Facilities

FCC-Registration No.: CN1283

CCIC Southern Testing Co., Ltd 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. Designation Number: CN1283, valid time is until Jun. 30th, 2025.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

CAB number: CN0064

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

2. Test Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 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.

According to FCC 15.407(a)(1): For client devices in the 5.15-5.25 GHz band, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to FCC 15.407(a)(2): For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to FCC 15.407(a)(3): For the band 5.725-5.850 GHz, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

2.1.2. Antenna Information

Antenna Category: Internal Antenna

A internal Antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT	Operating frequency range	Ant. Type	Ant. Gain
1	Mobile Labeling Printer	UNII-1, UNII-2a, UNII-2c, UNII-3	Internal	2.42dBi

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Maximum Conducted Output Power

2.2.1. Limit of Maximum Conducted Output Power

FCC Part 15.407(a):

The maximum conducted output power should not exceed:

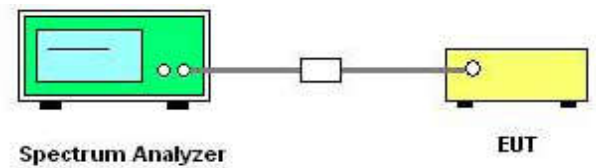
Band	EUT Category	Limit
U-NII-1	☐ Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon)
	☐ Fixed point-to-point Access device	1 Watt (30 dBm)
	☐ Indoor Access Point	1 Watt (30 dBm)
	☒ Mobile and portable client device	250mW (24 dBm)
U-NII-2A	☒	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-2C	☒	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-3	☒	1 Watt (30 dBm)

Note: B* is the 26 dB emission bandwidth in MHz.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.E.2.b and ANSI C63.10-2020 Section 12.4.2.2.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Power is calculated by integrating over the spectrum of the entire 99% OBW signal using the instrument's band power measurement feature.
4. Set span to encompass the entire 99% OBW of the signal.
5. Set RBW = 1MHz, VBW $\geq$ 3MHz, Sweep time = Auto, Detector = power averaging (RMS).



6. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Replace the EUT center frequency and repeat steps 3~7.

2.2.5. Test Results of Maximum Conducted Output Power

Please refer to APPENDIX A for detail.

2.3. Power spectral density (PSD)

2.3.1. Limit of Power Spectral Density

FCC Part 15.407(a)

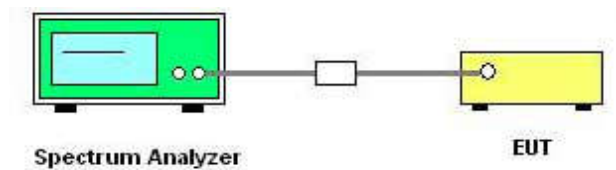
The maximum power spectral density should not exceed:

Band	EUT Category	Limit
U-NII-1	☐ Outdoor Access Point	17 dBm/MHz
	☐ Fixed point-to-point Access device	
	☐ Indoor Access Point	
	☒ Mobile and portable client device	11 dBm/MHz
U-NII-2A	☒	11 dBm/MHz
U-NII-2C	☒	11 dBm/MHz
U-NII-3	☒	30dBm/500kHz

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.F and ANSI C63.10-2020 Section 12.6.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set span to encompass the entire 99% OBW of the signal.
4. For U-NII-1, U-NII-2a, U-NII-2c Band: Set RBW = 1MHz, VBW $\geq$ 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
5. For U-NII-3 Band: Set RBW = 500kHz, VBW $\geq$ 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
6. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Use the peak search function on the instrument to find the peak of the spectrum.

9. Replace the EUT center frequency and repeat steps 3~8.

2.3.5. Test Result of Power Spectral Density

Please refer to APPENDIX A for detail.

2.4. 26dB Emission Bandwidth and 99% Occupied Bandwidth

2.4.1. Limit of 26dB Emission Bandwidth and 99% Occupied Bandwidth

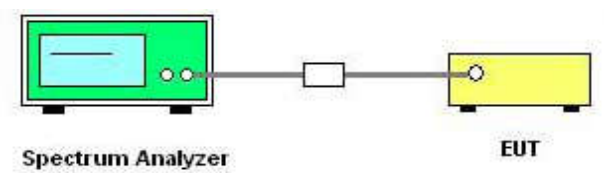
26dB Emission Bandwidth and 99% Occupied Bandwidth no Bandwidth limit.

The minimum 6dB bandwidth of U-NII-3 shall be at least 500 kHz.

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Description



2.4.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.C.D and ANSI C63.10-2020 Section 12.5.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Use the spectrum analyzer “Channel Bandwidth” function to easurement the 26dB EBW, 6dB EBW and 99% OBW.
4. Set center frequency to the nominal EUT channel center frequency.
5. For 99% OBW Measurement:
Set Span = 1.5 times to 5.0 times the OBW/ RBW = Within 1% to 5% of OBW/VBW $\geq 3 \times$ RBW.
6. For 26dB EBW Measurement:
Set Span = 2.0 times to 5.0 times the EBW/ RBW = Within 1% to 5% of EBW/VBW $\geq 3 \times$ RBW.
7. For 6dB EBW Measurement:
Set RBW =100kHz, VBW $\geq 3 \times$ RBW.
8. Set Detector = Peak, Trace mode = max hold and Sweep time = auto couple.
9. Allow the trace to stabilize.
10. Replace the EUT center frequency and repeat steps 3~9.



2.4.5. Test Results of 26dB Emission Bandwidth and 99% Occupied Bandwidth

Please refer to APPENDIX A for detail.

2.5. Frequency Stability

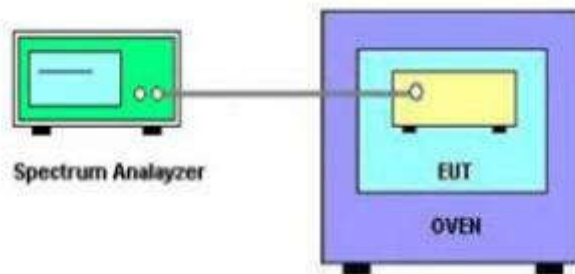
2.5.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.A.3 and ANSI C63.10-2020 Section 6.8.
2. The EUT is installed in an environment test chamber with external power source, was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set the chamber to operate at 50°C and external power source to output at nominal voltage of EUT.
5. A sufficient stabilization period at each temperatures in used prior to each frequency measurement.
6. The test shall be performed under -30°C to 50°C and 85% to 115% of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
7. Replace the EUT center frequency and repeat steps 3~6.



2.5.5. Test Result of Frequency Stability

Please refer to APPENDIX A for detail.

2.6. Radiated Band Edge and Spurious Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

Radiated emission which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level ($\mu\text{V/m}$).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

FCC Part 15.407(b)			
Frequency Band (MHz)	Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength @3m (dB $\mu\text{V/m}$)
5150 - 5250	Outside of the 5.15~5.35 GHz	-27	68.2
5725 - 5850	< 5650	-27	68.2
	5650~5700	-27~10	68.2~105.2
	5700~5720	10~15.6	105.2~110.8
	5720~5725	15.6~27	110.8~122.2
	5850~5855	27~15.6	122.2~110.8
	5855~5875	15.6~10	110.8~105.2
	5875~5925	10~-27	105.2~68.2
	> 5925	-27	68.2

Note:

- 1) $\text{EIRP}[\text{dBm}] = \text{E}[\text{dB}\mu\text{V/m}] + 20 \log (d[\text{m}]) - 104.77$, d is the measurement distance in m.
- 2) $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 68.2 \text{ dB}\mu\text{V/m}$, for $\text{EIRP}[\text{dBm}] = -27\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 105.2 \text{ dB}\mu\text{V/m}$, for $\text{EIRP}[\text{dBm}] = 10\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 110.8 \text{ dB}\mu\text{V/m}$, for $\text{EIRP}[\text{dBm}] = 15.6\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 122.2 \text{ dB}\mu\text{V/m}$, for $\text{EIRP}[\text{dBm}] = 27\text{dBm}$.



Applicable To	Limit	
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	Field Strength at 3m	
	PK: 68.2(dB μ V/m)	AV: 54 (dB μ V/m)

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

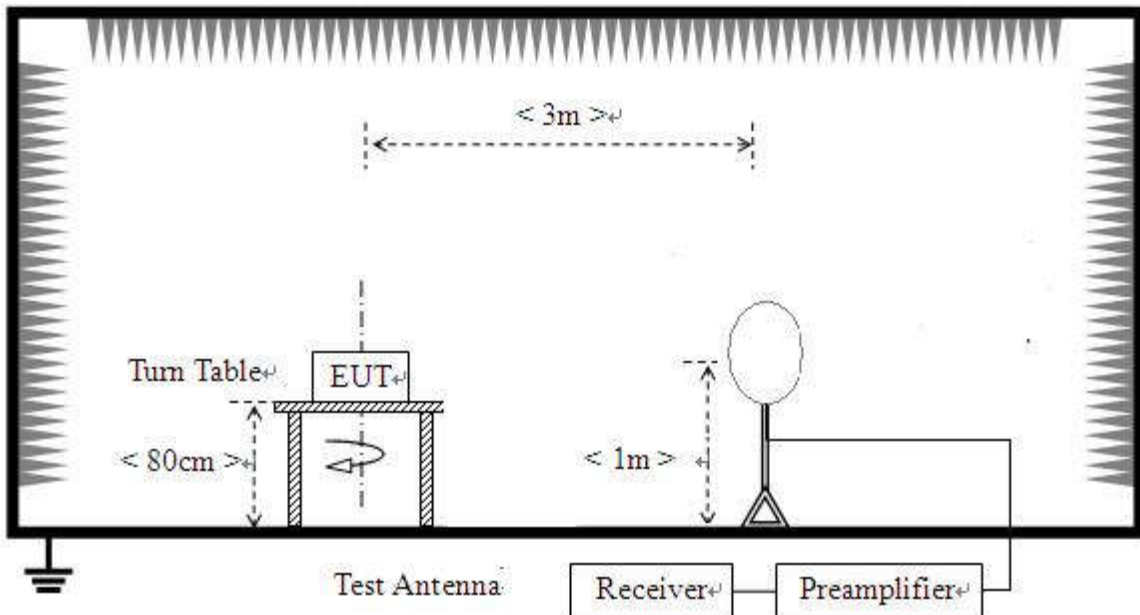
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41	/	/	/
Note: ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6.			

2.6.2. Measuring Instruments

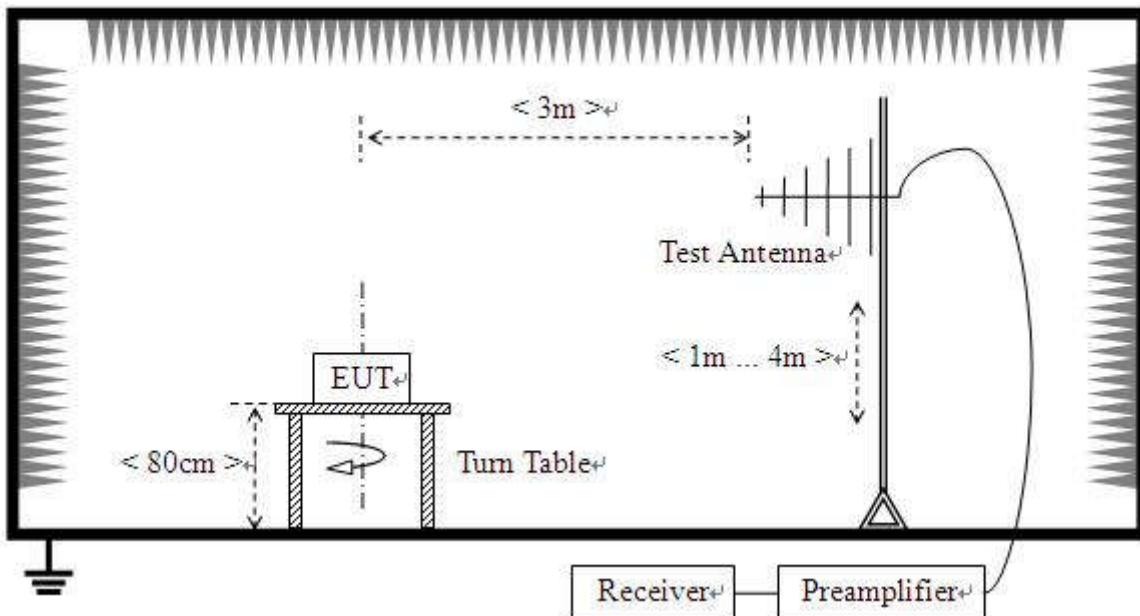
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

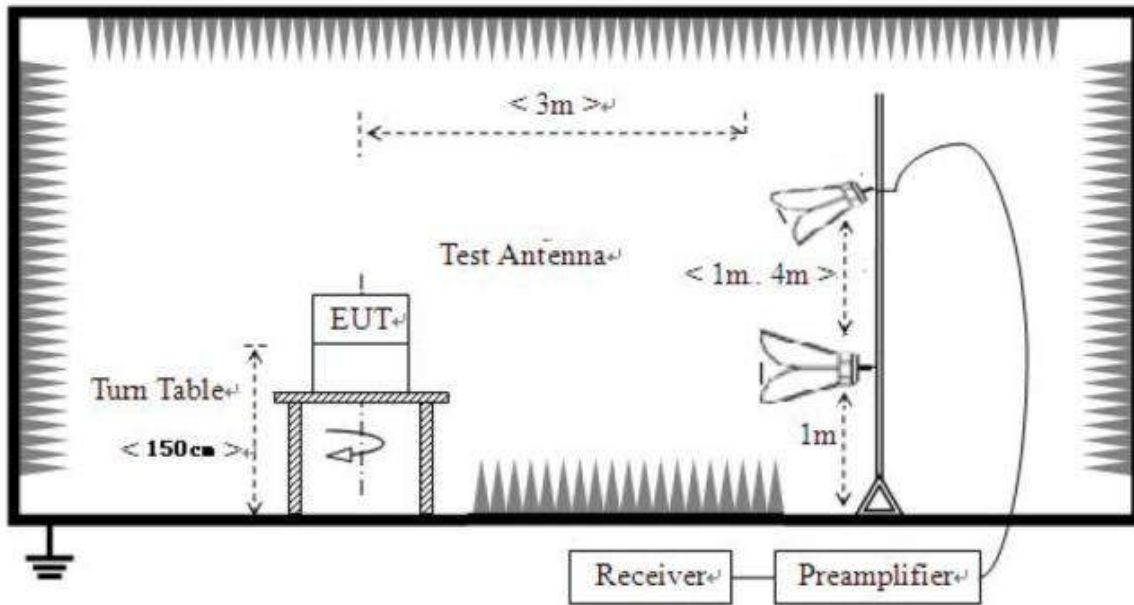
For radiated emissions from 9 kHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna 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.
4. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for

Quasi-peak detection (QP) at frequency below 1 GHz.

2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. Only worst-Case mode data provide here, 802.11a (20MHz) 5180MHz for Below 1GHz.

2.6.5. Test Result of Radiated Band Edge and Spurious Emission

For 9 kHz to 30MHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1GHz, All of the EUT Configure mode were tested and found 802.11a_5240MHz channel is the worst mode, the worst case is recorded in this report.

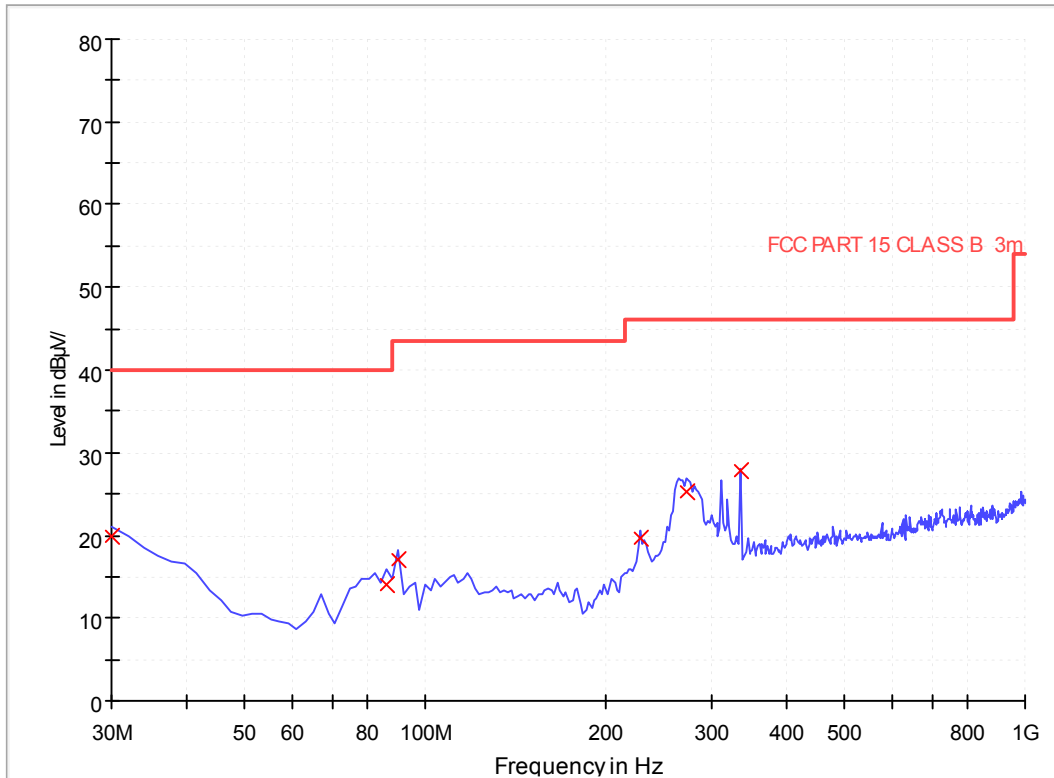
For 1GHz to 18GHz, Only worst-case data is reported.

For above 18GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz

Test site:	3M anechoic chamber	Environment:	Temp: 23℃; Humi:48%;101kPa
Operator:	Deng ShanFei	Test Date:	2024.06.27
Test Mode:	5G WIFI - TX	Test Result:	Pass

EMI Sweep-3M(30-1G)



Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK	Limit - QPK
30.000000	19.95	120.000	100.0	H	21.1	20.05	40.0
86.360000	14.00	120.000	100.0	H	10.7	26.00	40.0
90.280000	17.11	120.000	100.0	H	11.3	26.39	43.5
228.280000	19.70	120.000	100.0	H	12.6	26.30	46.0
273.000000	25.34	120.000	100.0	H	15.1	20.66	46.0
335.200000	27.90	120.000	100.0	H	17.1	18.10	46.0

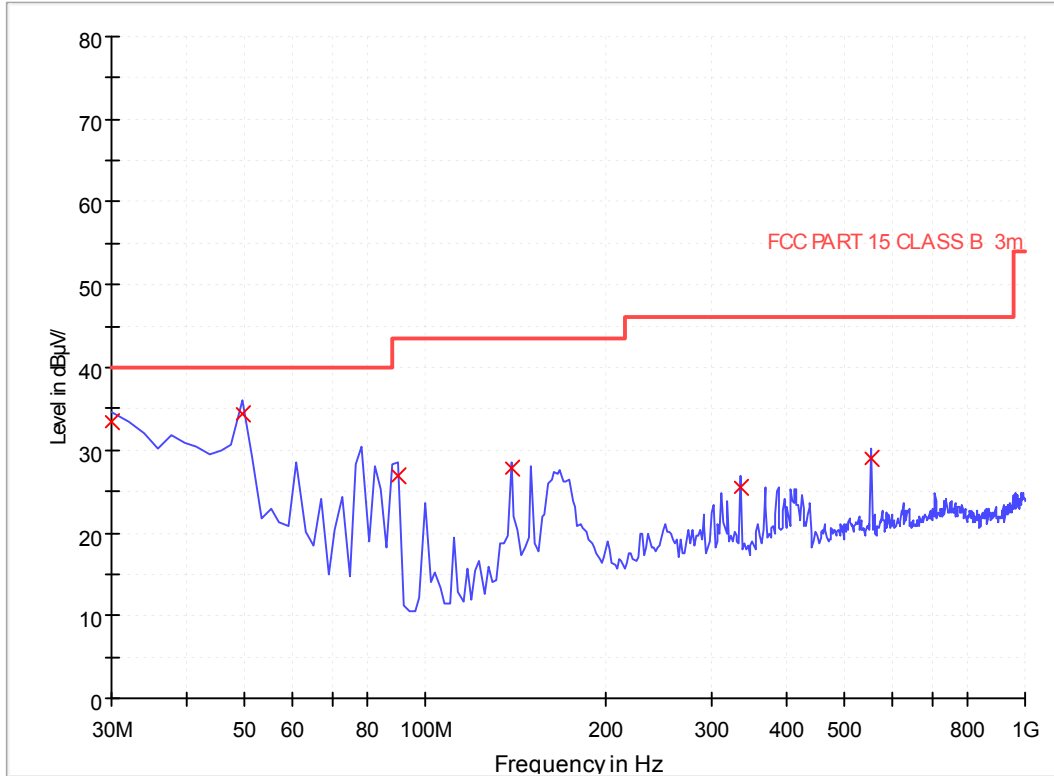
Remark:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
- Margin value = Limit value - Emission Level.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Only the antenna height (from 1m to 4m) at maximum reading are recorded.



Test site:	3M anechoic chamber	Environment:	Temp: 23℃; Humi:48%;101kPa
Operator:	Deng ShanFei	Test Date:	2024.06.27
Test Mode:	5G WIFI - TX	Test Result:	Pass

EMI Sweep-3M(30-1G)



Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Polarity	Corr. (dB/m)	Margin - QPK	Limit - QPK
30.000000	33.49	120.000	100.0	V	21.1	6.51	40.0
49.440000	34.43	120.000	100.0	V	10.5	5.57	40.0
90.280000	26.83	120.000	100.0	V	11.3	16.67	43.5
138.840000	27.78	120.000	100.0	V	13.8	15.72	43.5
335.200000	25.42	120.000	100.0	V	17.1	20.58	46.0
552.920000	29.12	120.000	100.0	V	20.3	16.88	46.0

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. Only the antenna height (from 1m to 4m) at maximum reading are recorded.

**For 1GHz to 40 GHz**

U-NII-1_802.11a_5180MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	48.18	68.20	-20.02	1.50	230	47.74	0.44	Horizontal	Peak
5150.00	39.26	54.00	-14.74	1.50	230	38.82	0.44	Horizontal	Average
10360.00	52.42	68.20	-15.78	1.50	230	41.96	10.46	Horizontal	Peak
10360.00	43.49	54.00	-10.51	1.50	230	33.03	10.46	Horizontal	Average
5150.00	48.94	68.20	-19.26	1.50	160	48.50	0.44	Vertical	Peak
5150.00	38.82	54.00	-15.18	1.50	160	38.38	0.44	Vertical	Average
10360.00	52.59	68.20	-15.61	1.50	160	42.13	10.46	Vertical	Peak
10360.00	43.53	54.00	-10.47	1.50	160	33.07	10.46	Vertical	Average
U-NII-1_802.11a_5220MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	52.59	68.20	-15.61	1.60	200	41.79	10.80	Horizontal	Peak
10440.00	43.52	54.00	-10.48	1.60	200	32.72	10.80	Horizontal	Average
10440.00	52.71	68.20	-15.49	1.70	180	41.91	10.80	Vertical	Peak
10440.00	43.60	54.00	-10.40	1.70	180	32.80	10.80	Vertical	Average
U-NII-1_802.11a_5240MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	47.02	68.20	-21.18	1.50	230	46.77	0.25	Horizontal	Peak
5350.00	37.23	54.00	-16.77	1.50	230	36.98	0.25	Horizontal	Average
10480.00	52.24	68.20	-15.96	1.50	230	41.24	11.00	Horizontal	Peak
10480.00	43.58	54.00	-10.42	1.50	230	32.58	11.00	Horizontal	Average
5350.00	47.30	68.20	-20.90	1.50	160	47.05	0.25	Vertical	Peak
5350.00	37.38	54.00	-16.62	1.50	160	37.13	0.25	Vertical	Average
10480.00	52.34	68.20	-15.86	1.50	160	41.34	11.00	Vertical	Peak
10480.00	43.41	54.00	-10.59	1.50	160	32.41	11.00	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									

**U-NII-1_802.11n-HT40_5190MHz**

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	48.61	68.20	-19.59	1.50	230	48.17	0.44	Horizontal	Peak
5150.00	39.95	54.00	-14.05	1.50	230	39.51	0.44	Horizontal	Average
10380.00	52.37	68.20	-15.83	1.50	230	41.84	10.53	Horizontal	Peak
10380.00	43.58	54.00	-10.42	1.50	230	33.05	10.53	Horizontal	Average
5150.00	48.89	68.20	-19.31	1.50	160	48.45	0.44	Vertical	Peak
5150.00	38.53	54.00	-15.47	1.50	160	38.09	0.44	Vertical	Average
10380.00	53.22	68.20	-14.98	1.50	160	42.69	10.53	Vertical	Peak
10380.00	44.27	54.00	-9.73	1.50	160	33.74	10.53	Vertical	Average

U-NII-1_802.11n-HT40_5230MHz

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	47.28	68.20	-20.92	1.50	230	47.03	0.25	Horizontal	Peak
5350.00	37.14	54.00	-16.86	1.50	230	36.89	0.25	Horizontal	Average
10460.00	52.05	68.20	-16.15	1.50	230	41.14	10.91	Horizontal	Peak
10460.00	43.48	54.00	-10.52	1.50	230	32.57	10.91	Horizontal	Average
5350.00	46.42	68.20	-21.78	1.50	160	46.17	0.25	Vertical	Peak
5350.00	37.48	54.00	-16.52	1.50	160	37.23	0.25	Vertical	Average
10460.00	52.52	68.20	-15.68	1.50	160	41.61	10.91	Vertical	Peak
10460.00	43.57	54.00	-10.43	1.50	160	32.66	10.91	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.



U-NII-1_802.11ac-VHT80_5210MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	48.49	68.20	-19.71	1.50	230	48.05	0.44	Horizontal	Peak
5150.00	39.42	54.00	-14.58	1.50	230	38.98	0.44	Horizontal	Average
5350.00	46.91	68.20	-21.29	1.50	230	46.66	0.25	Horizontal	Peak
5350.00	37.17	54.00	-16.83	1.50	230	36.92	0.25	Horizontal	Average
10420.00	51.81	68.20	-16.39	1.50	230	41.10	10.71	Horizontal	Peak
10420.00	43.36	54.00	-10.64	1.50	230	32.65	10.71	Horizontal	Average
5150.00	49.06	68.20	-19.14	1.50	160	48.62	0.44	Vertical	Peak
5150.00	39.01	54.00	-14.99	1.50	160	38.57	0.44	Vertical	Average
5350.00	46.58	68.20	-21.62	1.50	160	46.33	0.25	Vertical	Peak
5350.00	37.47	54.00	-16.53	1.50	160	37.22	0.25	Vertical	Average
10420.00	52.56	68.20	-15.64	1.50	160	41.85	10.71	Vertical	Peak
10420.00	44.10	54.00	-9.90	1.50	160	33.39	10.71	Vertical	Average
Remark: 1. $Emission\ Level(dBuV/m) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$ 2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB)$ 3. $Margin\ value = Emission\ Level - Limit\ value$ 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Only the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									



U-NII-2A_802.11a_5260MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	48.52	68.20	-19.68	1.50	230	48.08	0.44	Horizontal	Peak
5150.00	38.87	54.00	-15.13	1.50	230	38.43	0.44	Horizontal	Average
10520.00	52.46	68.20	-15.74	1.50	230	41.28	11.18	Horizontal	Peak
10520.00	43.29	54.00	-10.71	1.50	230	32.11	11.18	Horizontal	Average
5150.00	49.49	68.20	-18.71	1.50	160	49.05	0.44	Vertical	Peak
5150.00	38.98	54.00	-15.02	1.50	160	38.54	0.44	Vertical	Average
10520.00	52.62	68.20	-15.58	1.50	160	41.44	11.18	Vertical	Peak
10520.00	43.93	54.00	-10.07	1.50	160	32.75	11.18	Vertical	Average
U-NII-2A_802.11a_5300MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10600.00	52.07	68.20	-16.13	1.50	230	40.55	11.52	Horizontal	Peak
10600.00	42.56	54.00	-11.44	1.50	230	31.04	11.52	Horizontal	Average
10600.00	52.56	68.20	-15.64	1.50	160	41.04	11.52	Vertical	Peak
10600.00	43.80	54.00	-10.20	1.50	160	32.28	11.52	Vertical	Average
U-NII-2A_802.11a_5320MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	47.58	68.20	-20.62	1.50	230	47.33	0.25	Horizontal	Peak
5350.00	36.29	54.00	-17.71	1.50	230	36.04	0.25	Horizontal	Average
10640.00	52.24	68.20	-15.96	1.50	230	40.92	11.32	Horizontal	Peak
10640.00	43.72	54.00	-10.28	1.50	230	32.40	11.32	Horizontal	Average
5350.00	46.24	68.20	-21.96	1.50	160	45.99	0.25	Vertical	Peak
5350.00	36.81	54.00	-17.19	1.50	160	36.56	0.25	Vertical	Average
10640.00	52.16	68.20	-16.04	1.50	160	40.84	11.32	Vertical	Peak
10640.00	43.27	54.00	-10.73	1.50	160	31.95	11.32	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									

U-NII-2A_802.11n-HT40_5270MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	48.32	68.20	-19.88	1.50	230	47.88	0.44	Horizontal	Peak
5150.00	38.53	54.00	-15.47	1.50	230	38.09	0.44	Horizontal	Average
10540.00	52.06	68.20	-16.14	1.50	230	40.80	11.26	Horizontal	Peak
10540.00	43.75	54.00	-10.25	1.50	230	32.49	11.26	Horizontal	Average
5150.00	49.15	68.20	-19.05	1.50	160	48.71	0.44	Vertical	Peak
5150.00	39.55	54.00	-14.45	1.50	160	39.11	0.44	Vertical	Average
10540.00	53.05	68.20	-15.15	1.50	160	41.79	11.26	Vertical	Peak
10540.00	43.37	54.00	-10.63	1.50	160	32.11	11.26	Vertical	Average
U-NII-2A_802.11n-HT40_5310MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	47.54	68.20	-20.66	1.50	230	47.29	0.25	Horizontal	Peak
5350.00	36.21	54.00	-17.79	1.50	230	35.96	0.25	Horizontal	Average
10620.00	52.51	68.20	-15.69	1.50	230	41.10	11.41	Horizontal	Peak
10620.00	44.49	54.00	-9.51	1.50	230	33.08	11.41	Horizontal	Average
5350.00	46.26	68.20	-21.94	1.50	160	46.01	0.25	Vertical	Peak
5350.00	36.74	54.00	-17.26	1.50	160	36.49	0.25	Vertical	Average
10620.00	51.95	68.20	-16.25	1.50	160	40.54	11.41	Vertical	Peak
10620.00	43.16	54.00	-10.84	1.50	160	31.75	11.41	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Only the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									



U-NII-2A_802.11ac-VHT80_5290MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	48.93	68.20	-19.27	1.50	230	48.49	0.44	Horizontal	Peak
5150.00	39.81	54.00	-14.19	1.50	230	39.37	0.44	Horizontal	Average
5350.00	47.18	68.20	-21.02	1.50	230	46.93	0.25	Horizontal	Peak
5350.00	36.79	54.00	-17.21	1.50	230	36.54	0.25	Horizontal	Average
10580.00	51.39	68.20	-16.81	1.50	230	39.95	11.44	Horizontal	Peak
10580.00	43.31	54.00	-10.69	1.50	230	31.87	11.44	Horizontal	Average
5150.00	48.76	68.20	-19.44	1.50	160	48.32	0.44	Vertical	Peak
5150.00	39.18	54.00	-14.82	1.50	160	38.74	0.44	Vertical	Average
5350.00	46.61	68.20	-21.59	1.50	160	46.36	0.25	Vertical	Peak
5350.00	37.43	54.00	-16.57	1.50	160	37.18	0.25	Vertical	Average
10580.00	52.74	68.20	-15.46	1.50	160	41.30	11.44	Vertical	Peak
10580.00	44.34	54.00	-9.66	1.50	160	32.90	11.44	Vertical	Average
Remark: 1. $Emission\ Level(dBuV/m) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$ 2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB)$ 3. $Margin\ value = Emission\ Level - Limit\ value$ 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Only the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									



U-NII-2C_802.11a_5500MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5470.00	46.47	68.20	-21.73	1.50	230	46.51	-0.04	Horizontal	Peak
5470.00	37.32	54.00	-16.68	1.50	230	37.36	-0.04	Horizontal	Average
11000.00	52.68	68.20	-15.52	1.50	230	41.26	11.42	Horizontal	Peak
11000.00	43.38	54.00	-10.62	1.50	230	31.96	11.42	Horizontal	Average
5470.00	46.67	68.20	-21.53	1.50	160	46.71	-0.04	Vertical	Peak
5470.00	37.78	54.00	-16.22	1.50	160	37.82	-0.04	Vertical	Average
11000.00	52.77	68.20	-15.43	1.50	160	41.35	11.42	Vertical	Peak
11000.00	44.04	54.00	-9.96	1.50	160	32.62	11.42	Vertical	Average
U-NII-2C_802.11a_5580MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11160.00	52.32	68.20	-15.88	1.50	230	41.35	11.35	Horizontal	Peak
11160.00	42.94	54.00	-11.06	1.50	230	31.97	11.35	Horizontal	Average
11160.00	53.11	68.20	-15.09	1.50	160	42.14	11.35	Vertical	Peak
11160.00	43.77	54.00	-10.23	1.50	160	32.80	11.35	Vertical	Average
U-NII-2C_802.11a_5700MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5725.00	47.20	68.20	-21.00	1.50	230	45.90	1.30	Horizontal	Peak
5725.00	38.27	54.00	-15.73	1.50	230	36.97	1.30	Horizontal	Average
11400.00	52.71	68.20	-15.49	1.50	230	41.24	11.47	Horizontal	Peak
11400.00	43.38	54.00	-10.62	1.50	230	31.91	11.47	Horizontal	Average
5725.00	48.03	68.20	-20.17	1.50	160	46.73	1.30	Vertical	Peak
5725.00	38.56	54.00	-15.44	1.50	160	37.26	1.30	Vertical	Average
11400.00	52.67	68.20	-15.53	1.50	160	41.20	11.47	Vertical	Peak
11400.00	44.25	54.00	-9.75	1.50	160	32.78	11.47	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									



U-NII-2C_802.11n-HT40_5510MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5470.00	46.41	68.20	-21.79	1.50	230	46.45	-0.04	Horizontal	Peak
5470.00	37.49	54.00	-16.51	1.50	230	37.53	-0.04	Horizontal	Average
11020.00	52.58	68.20	-15.62	1.50	230	41.12	11.46	Horizontal	Peak
11020.00	44.16	54.00	-9.84	1.50	230	32.70	11.46	Horizontal	Average
5470.00	46.59	68.20	-21.61	1.50	160	46.63	-0.04	Vertical	Peak
5470.00	37.71	54.00	-16.29	1.50	160	37.75	-0.04	Vertical	Average
11020.00	53.16	68.20	-15.04	1.50	160	41.70	11.46	Vertical	Peak
11020.00	43.80	54.00	-10.20	1.50	160	32.34	11.46	Vertical	Average
U-NII-2C_802.11n-HT40_5550MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11100.00	53.05	68.20	-15.15	1.50	230	41.96	11.73	Horizontal	Peak
11100.00	43.05	54.00	-10.95	1.50	230	31.96	11.73	Horizontal	Average
11100.00	53.73	68.20	-14.47	1.50	160	42.64	11.73	Vertical	Peak
11100.00	44.43	54.00	-9.57	1.50	160	33.34	11.73	Vertical	Average
U-NII-2C_802.11n-HT40_5670MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5725.00	46.62	68.20	-21.58	1.50	230	45.32	1.30	Horizontal	Peak
5725.00	38.29	54.00	-15.71	1.50	230	36.99	1.30	Horizontal	Average
11340.00	52.64	68.20	-15.56	1.50	230	41.22	11.42	Horizontal	Peak
11340.00	43.64	54.00	-10.36	1.50	230	32.22	11.42	Horizontal	Average
5725.00	48.24	68.20	-19.96	1.50	160	46.94	1.30	Vertical	Peak
5725.00	39.16	54.00	-14.84	1.50	160	37.86	1.30	Vertical	Average
11340.00	52.38	68.20	-15.82	1.50	160	40.96	11.42	Vertical	Peak
11340.00	44.78	54.00	-9.22	1.50	160	33.36	11.42	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									



U-NII-2C_802.11ac-VHT80_5530MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5470.00	46.23	68.20	-21.97	1.50	230	46.27	-0.04	Horizontal	Peak
5470.00	38.16	54.00	-15.84	1.50	230	38.20	-0.04	Horizontal	Average
11060.00	52.49	68.20	-15.71	1.50	230	40.96	11.53	Horizontal	Peak
11060.00	44.14	54.00	-9.86	1.50	230	32.61	11.53	Horizontal	Average
5470.00	46.08	68.20	-22.12	1.50	160	46.12	-0.04	Vertical	Peak
5470.00	37.13	54.00	-16.87	1.50	160	37.17	-0.04	Vertical	Average
11060.00	52.79	68.20	-15.41	1.50	160	41.26	11.53	Vertical	Peak
11060.00	43.85	54.00	-10.15	1.50	160	32.32	11.53	Vertical	Average
U-NII-2C_802.11ac-VHT80_5610MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5725.00	47.53	68.20	-20.67	1.50	230	46.23	1.30	Horizontal	Peak
5725.00	38.06	54.00	-15.94	1.50	230	36.76	1.30	Horizontal	Average
11220.00	53.31	68.20	-14.89	1.50	230	42.26	11.05	Horizontal	Peak
11220.00	43.33	54.00	-10.67	1.50	230	32.28	11.05	Horizontal	Average
5725.00	47.59	68.20	-20.61	1.50	160	46.29	1.30	Vertical	Peak
5725.00	38.82	54.00	-15.18	1.50	160	37.52	1.30	Vertical	Average
11220.00	52.68	68.20	-15.52	1.50	160	41.63	11.05	Vertical	Peak
11220.00	45.11	54.00	-8.89	1.50	160	34.06	11.05	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Only the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									



U-NII-3_802.11a_5745MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	51.12	68.20	-17.08	1.50	230	50.32	0.80	Horizontal	Peak
5700.00	52.61	105.20	-52.59	1.50	230	51.37	1.24	Horizontal	Peak
5720.00	52.70	110.80	-58.10	1.50	230	51.42	1.28	Horizontal	Peak
5725.00	52.44	122.20	-69.76	1.50	230	51.14	1.30	Horizontal	Peak
11490.00	52.52	68.20	-15.68	1.50	230	40.97	11.55	Horizontal	Peak
11490.00	43.16	54.00	-10.84	1.50	230	31.61	11.55	Horizontal	Average
5650.00	52.75	68.20	-15.45	1.50	160	51.95	0.80	Vertical	Peak
5700.00	50.96	105.20	-54.24	1.50	160	49.72	1.24	Vertical	Peak
5720.00	52.29	110.80	-58.51	1.50	160	51.01	1.28	Vertical	Peak
5725.00	52.43	122.20	-69.77	1.50	160	51.13	1.30	Vertical	Peak
11490.00	53.11	68.20	-15.09	1.50	160	41.56	11.55	Vertical	Peak
11490.00	43.18	54.00	-10.82	1.50	160	31.63	11.55	Vertical	Average
U-NII-3_802.11a_5825MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	51.02	122.20	-71.18	1.50	230	49.20	1.82	Horizontal	Peak
5855.00	52.15	110.80	-58.65	1.50	230	50.30	1.85	Horizontal	Peak
5875.00	51.26	105.20	-53.94	1.50	230	49.28	1.98	Horizontal	Peak
5925.00	51.66	68.20	-16.54	1.50	230	49.54	2.12	Horizontal	Peak
11650.00	52.41	68.20	-15.79	1.50	230	40.77	11.64	Horizontal	Peak
11650.00	43.29	54.00	-10.71	1.50	230	31.65	11.64	Horizontal	Average
5850.00	50.52	122.20	-71.68	1.50	160	48.70	1.82	Vertical	Peak
5855.00	51.61	110.80	-59.19	1.50	160	49.76	1.85	Vertical	Peak
5875.00	52.66	105.20	-52.54	1.50	160	50.68	1.98	Vertical	Peak
5925.00	52.98	68.20	-15.22	1.50	160	50.86	2.12	Vertical	Peak
11650.00	53.34	68.20	-14.86	1.50	160	41.70	11.64	Vertical	Peak
11650.00	43.48	54.00	-10.52	1.50	160	31.84	11.64	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									

**U-NII-3_802.11n-HT40_5755MHz**

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	50.92	68.20	-17.28	1.50	230	50.12	0.80	Horizontal	Peak
5700.00	52.49	105.20	-52.71	1.50	230	51.25	1.24	Horizontal	Peak
5720.00	53.28	110.80	-57.52	1.50	230	52.00	1.28	Horizontal	Peak
5725.00	51.10	122.20	-71.10	1.50	230	49.80	1.30	Horizontal	Peak
11510.00	53.13	68.20	-15.07	1.50	230	41.57	11.56	Horizontal	Peak
11510.00	43.03	54.00	-10.97	1.50	230	31.47	11.56	Horizontal	Average
5650.00	52.58	68.20	-15.62	1.50	160	51.78	0.80	Vertical	Peak
5700.00	51.88	105.20	-53.32	1.50	160	50.64	1.24	Vertical	Peak
5720.00	52.46	110.80	-58.34	1.50	160	51.18	1.28	Vertical	Peak
5725.00	52.43	122.20	-69.77	1.50	160	51.13	1.30	Vertical	Peak
11510.00	53.24	68.20	-14.96	1.50	160	41.68	11.56	Vertical	Peak
11510.00	43.98	54.00	-10.02	1.50	160	32.42	11.56	Vertical	Average

U-NII-3_802.11n-HT40_5795MHz

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	51.11	122.20	-71.09	1.50	230	49.29	1.82	Horizontal	Peak
5855.00	51.96	110.80	-58.84	1.50	230	50.11	1.85	Horizontal	Peak
5875.00	51.24	105.20	-53.96	1.50	230	49.26	1.98	Horizontal	Peak
5925.00	51.95	68.20	-16.25	1.50	230	49.83	2.12	Horizontal	Peak
11590.00	51.57	68.20	-16.63	1.50	230	40.06	11.51	Horizontal	Peak
11590.00	43.69	54.00	-10.31	1.50	230	32.18	11.51	Horizontal	Average
5850.00	50.53	122.20	-71.67	1.50	160	48.71	1.82	Vertical	Peak
5855.00	50.82	110.80	-59.98	1.50	160	48.97	1.85	Vertical	Peak
5875.00	52.84	105.20	-52.36	1.50	160	50.86	1.98	Vertical	Peak
5925.00	53.91	68.20	-14.29	1.50	160	51.79	2.12	Vertical	Peak
11590.00	53.35	68.20	-14.85	1.50	160	41.84	11.51	Vertical	Peak
11590.00	43.84	54.00	-10.16	1.50	160	32.33	11.51	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.



U-NII-3_802.11ac-VHT80_5775MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	51.25	68.20	-16.95	1.50	230	50.45	0.80	Horizontal	Peak
5700.00	51.95	105.20	-53.25	1.50	230	50.71	1.24	Horizontal	Peak
5720.00	53.40	110.80	-57.40	1.50	230	52.12	1.28	Horizontal	Peak
5725.00	51.20	122.20	-71.00	1.50	230	49.90	1.30	Horizontal	Peak
5850.00	50.97	122.20	-71.23	1.50	230	49.15	1.82	Horizontal	Peak
5855.00	51.41	110.80	-59.39	1.50	230	49.56	1.85	Horizontal	Peak
5875.00	51.19	105.20	-54.01	1.50	230	49.21	1.98	Horizontal	Peak
5925.00	52.35	68.20	-15.85	1.50	230	50.23	2.12	Horizontal	Peak
11550.00	51.85	68.20	-16.35	1.50	230	40.31	11.54	Horizontal	Peak
11550.00	43.33	54.00	-10.67	1.50	230	31.79	11.54	Horizontal	Average
5650.00	53.05	68.20	-15.15	1.50	160	52.25	0.80	Vertical	Peak
5700.00	52.48	105.20	-52.72	1.50	160	51.24	1.24	Vertical	Peak
5720.00	52.47	110.80	-58.33	1.50	160	51.19	1.28	Vertical	Peak
5725.00	52.49	122.20	-69.71	1.50	160	51.19	1.30	Vertical	Peak
5850.00	50.71	122.20	-71.49	1.50	160	48.89	1.82	Vertical	Peak
5855.00	51.71	110.80	-59.09	1.50	160	49.86	1.85	Vertical	Peak
5875.00	52.93	105.20	-52.27	1.50	160	50.95	1.98	Vertical	Peak
5925.00	53.76	68.20	-14.44	1.50	160	51.64	2.12	Vertical	Peak
11550.00	53.20	68.20	-15.00	1.50	160	41.66	11.54	Vertical	Peak
11550.00	43.66	54.00	-10.34	1.50	160	32.12	11.54	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. Only the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.									

2.7. AC Power Line Conducted Emission

2.7.1. Limit of AC Power Line Conducted Emission

FCC Part 15.207:

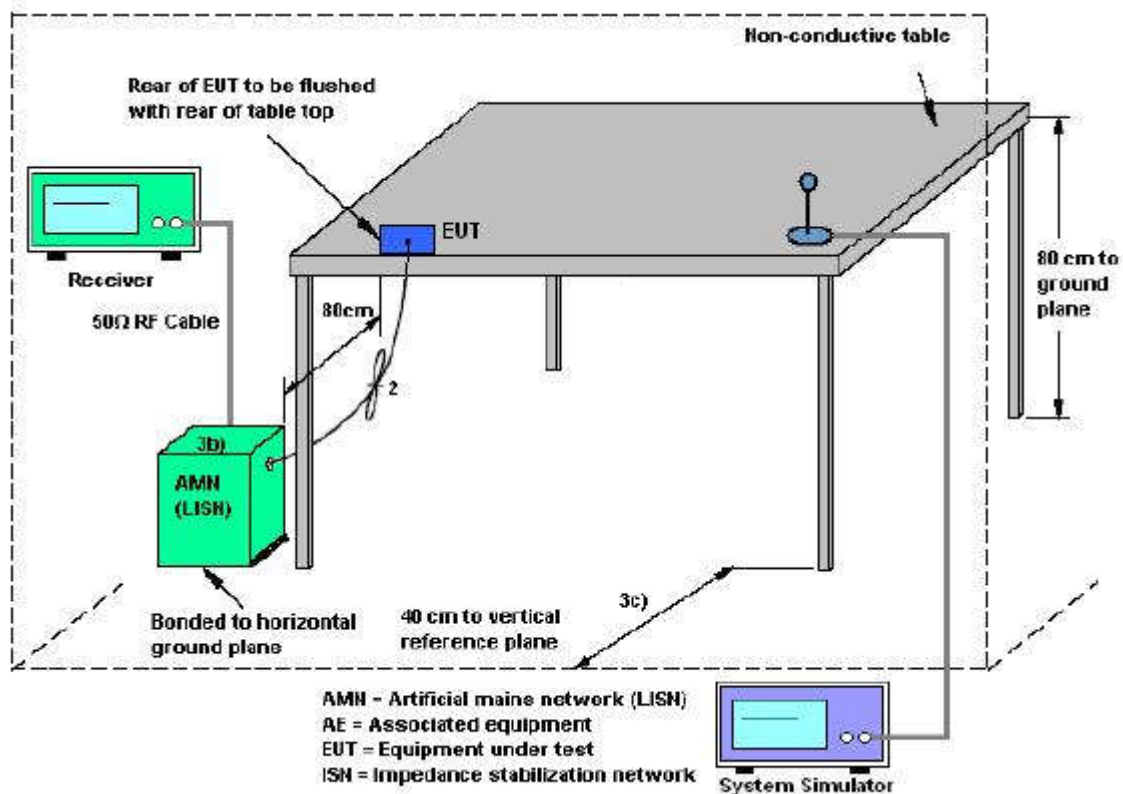
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

2.7.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3. Test Setup



2.7.4. Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

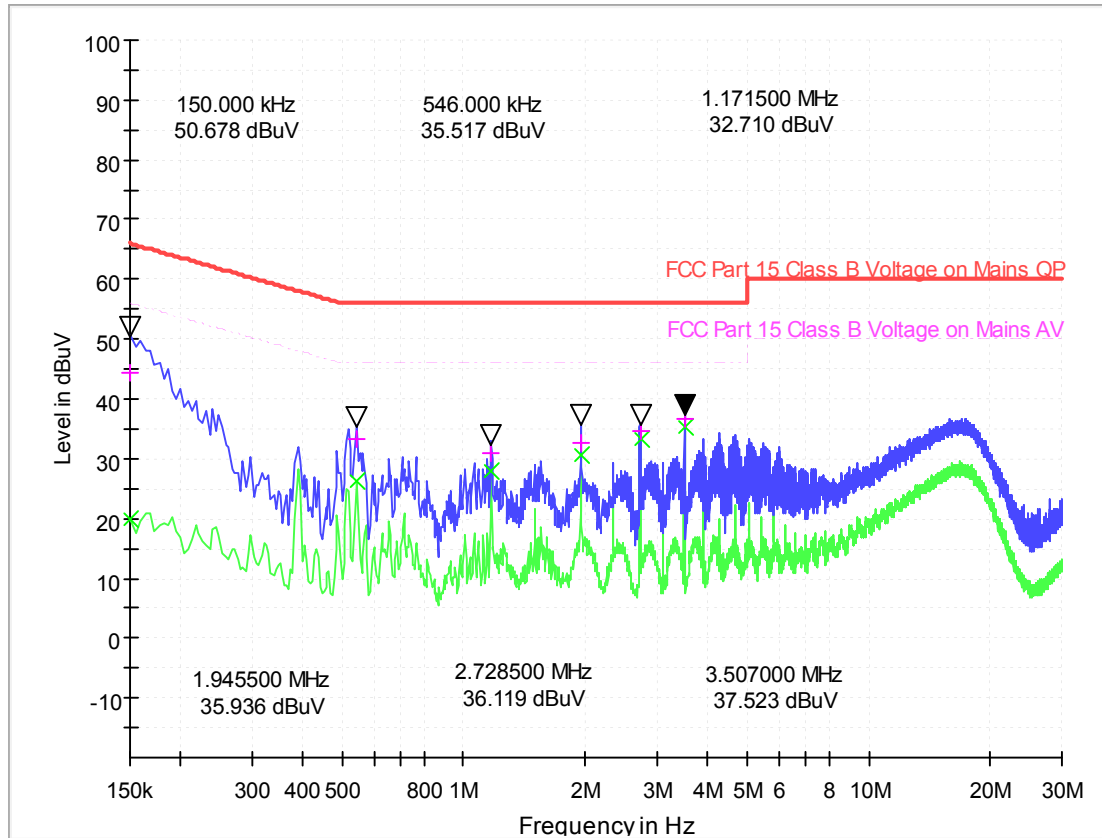
2.7.5. Test Result of AC Power Line Conducted Emission

The EUT configuration of the emission tests is 5G WLAN Link + Charging from Adapter.

All of the EUT Configure mode were tested and found 802.11a_5240MHz channel is the worst mode, the worst case is recorded in this report.



Test site:	Shield ROOM 2	Environment:	Temp: 23℃; Humi:53%;101kPa
Operator:	LIAO HONGTING	Test Date:	2024.06.26
Test Mode:	5G WIFI- TX	Test Part:	L Line



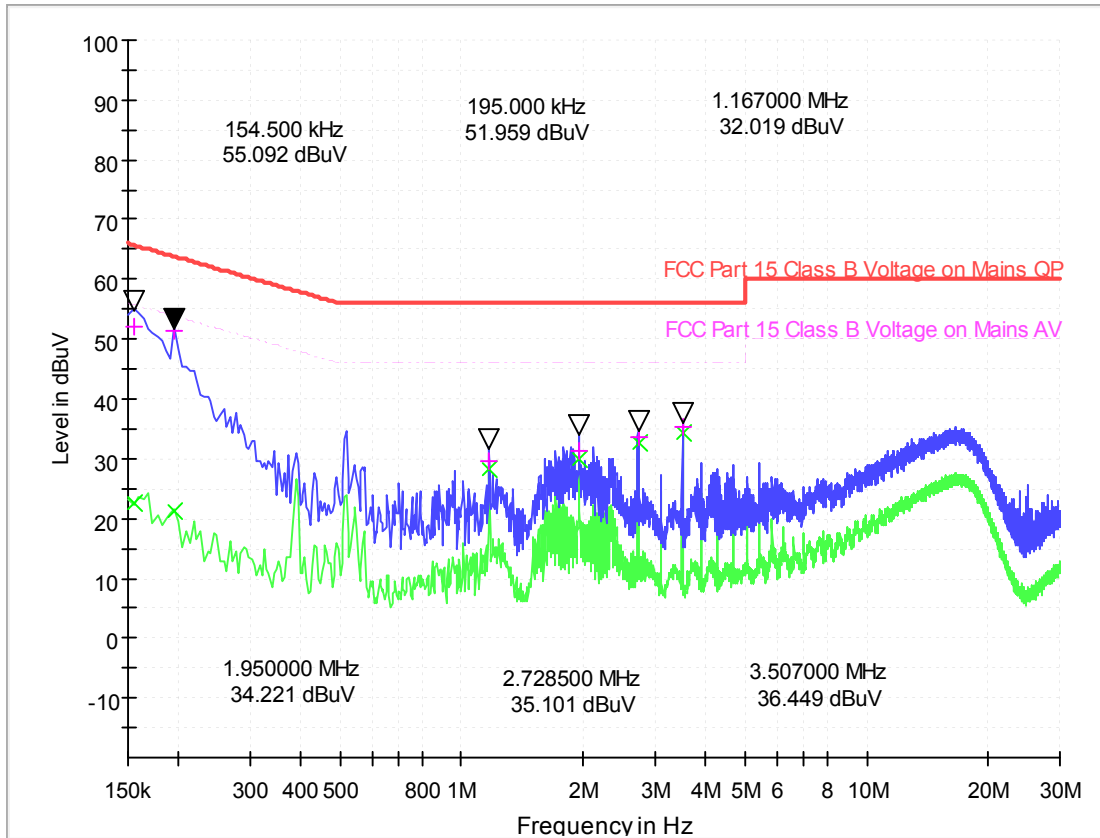
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Corr.Factor (dB)	Margin - QPK	Limit - QPK (dBμV)	Margin - AV (dB)	Limit - AV (dBμV)
0.150000	44.30	19.84	10.8	21.70	66.0	36.16	56.0
0.546000	33.28	26.25	10.7	22.72	56.0	19.75	46.0
1.171500	31.02	28.10	10.7	24.98	56.0	17.90	46.0
1.945500	32.50	30.51	10.7	23.50	56.0	15.49	46.0
2.728500	34.74	33.41	10.6	21.26	56.0	12.59	46.0
3.507000	36.56	35.19	10.5	19.44	56.0	10.81	46.0

Test Result : Pass

Note: Final Level = Receiver Read level + Correction factor.



Test site:	Shield ROOM 2	Environment:	Temp: 23℃; Humi:53%;101kPa
Operator:	LIAO HONGTING	Test Date:	2024.06.26
Test Mode:	5G WIFI- TX	Test Part:	N Line



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Corr.Factor (dB)	Margin - QPK	Limit - QPK (dBμV)	Margin - AV (dB)	Limit - AV (dBμV)
0.154500	52.06	22.70	10.9	13.69	65.8	33.05	55.8
0.195000	51.38	21.37	10.9	12.44	63.8	32.45	53.8
1.167000	29.48	28.28	10.8	26.52	56.0	17.72	46.0
1.950000	31.43	29.97	10.8	24.57	56.0	16.03	46.0
2.728500	33.66	32.49	10.7	22.34	56.0	13.51	46.0
3.507000	35.44	34.25	10.6	20.56	56.0	11.75	46.0

Test Result : Pass

Note: Final Level = Receiver Read level + Correction factor.



3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2023.08.01	2026.07.31
2	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2024.05.23	2025.05.22
3	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
4	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2023.06.08	2026.06.07
5	EMI Horn Ant. (1-18G)	ETC	MCTD-1209	A150402241	2023.05.16	2026.05.15
6	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2023.06.01	2026.05.31
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2023.10.20	2024.10.19
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2023.10.20	2024.10.19
9	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2024.01.18	2025.01.17
10	Test Receiver	R&S	ESIB7	A0501375	2024.02.28	2025.02.27
11	Broadband Ant.	ETC	MCTD 2786	A150402240	2023.05.22	2026.05.21
12	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2024.02.27	2027.02.26
13	Temperature chamber	ESPEC	SU-642	A150802409	2024.02.22	2025.02.21
14	Test Receiver	KEYSIGHT	N9038A	A141202036	2023.06.12	2024.06.11
					2024.06.05	2025.06.04
15	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2024.05.23	2025.05.22
16	Power Supply	R&S	WYJ-60100	A141102031	2023.07.12	2026.07.11

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Power Line Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
--	-------

Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.5dB
--	-------

Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.91dB
--	--------

Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.5dB
--	-------

Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.9dB
--	-------

Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2dB
--	-------

Uncertainty of Occupied Bandwidth Measurement

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2%
--	------



Appendix A

Duty Cycle Test Result and Data

TestMode	Antenna	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc Factor
11A	Ant1	2.06	2.10	98.10	0.08
11N20SISO	Ant1	1.92	1.96	97.96	0.09
11N40SISO	Ant1	0.94	0.98	95.92	0.18
11AC20SISO	Ant1	1.94	1.98	97.98	0.09
11AC40SISO	Ant1	0.95	0.99	95.96	0.18
11AC80SISO	Ant1	0.46	0.50	92.00	0.36

Output power Test Result and Data

UNII-1:

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	15.19	0.08	15.27	≤23.98	PASS
11A	Ant1	5220	15.68	0.08	15.76	≤23.98	PASS
11A	Ant1	5240	15.84	0.08	15.92	≤23.98	PASS
11N20SISO	Ant1	5180	14.55	0.09	14.64	≤23.98	PASS
11N20SISO	Ant1	5220	14.79	0.09	14.88	≤23.98	PASS
11N20SISO	Ant1	5240	14.44	0.09	14.53	≤23.98	PASS
11N40SISO	Ant1	5190	13.94	0.18	14.12	≤23.98	PASS
11N40SISO	Ant1	5230	14.20	0.18	14.38	≤23.98	PASS
11AC20SISO	Ant1	5180	14.83	0.09	14.92	≤23.98	PASS
11AC20SISO	Ant1	5220	14.02	0.09	14.11	≤23.98	PASS
11AC20SISO	Ant1	5240	13.58	0.09	13.67	≤23.98	PASS
11AC40SISO	Ant1	5190	14.46	0.18	14.64	≤23.98	PASS
11AC40SISO	Ant1	5230	14.34	0.18	14.52	≤23.98	PASS
11AC80SISO	Ant1	5210	13.01	0.36	13.37	≤23.98	PASS

UNII-2a:

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	14.19	0.08	14.27	≤23.98	PASS
11A	Ant1	5300	14.34	0.08	14.42	≤23.98	PASS
11A	Ant1	5320	14.45	0.08	14.53	≤23.98	PASS
11N20SISO	Ant1	5260	14.22	0.09	14.31	≤23.98	PASS
11N20SISO	Ant1	5300	13.50	0.09	13.59	≤23.98	PASS
11N20SISO	Ant1	5320	13.54	0.09	13.63	≤23.98	PASS
11N40SISO	Ant1	5270	13.65	0.18	13.83	≤23.98	PASS
11N40SISO	Ant1	5310	12.64	0.18	12.82	≤23.98	PASS
11AC20SISO	Ant1	5260	13.38	0.09	13.47	≤23.98	PASS
11AC20SISO	Ant1	5300	12.84	0.09	12.93	≤23.98	PASS
11AC20SISO	Ant1	5320	11.91	0.09	12.00	≤23.98	PASS
11AC40SISO	Ant1	5270	13.74	0.18	13.92	≤23.98	PASS
11AC40SISO	Ant1	5310	12.72	0.18	12.90	≤23.98	PASS
11AC80SISO	Ant1	5290	11.95	0.36	12.31	≤23.98	PASS

**UNII-2c:**

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5500	14.46	0.08	14.54	≤23.98	PASS
11A	Ant1	5600	14.42	0.08	14.50	≤23.98	PASS
11A	Ant1	5700	13.83	0.08	13.91	≤23.98	PASS
11N20SISO	Ant1	5500	13.54	0.09	13.63	≤23.98	PASS
11N20SISO	Ant1	5600	13.61	0.09	13.70	≤23.98	PASS
11N20SISO	Ant1	5700	12.89	0.09	12.98	≤23.98	PASS
11N40SISO	Ant1	5510	12.20	0.18	12.38	≤23.98	PASS
11N40SISO	Ant1	5590	12.16	0.18	12.34	≤23.98	PASS
11N40SISO	Ant1	5670	12.57	0.18	12.75	≤23.98	PASS
11AC20SISO	Ant1	5500	13.04	0.09	13.13	≤23.98	PASS
11AC20SISO	Ant1	5600	12.84	0.09	12.93	≤23.98	PASS
11AC20SISO	Ant1	5700	12.88	0.09	12.97	≤23.98	PASS
11AC40SISO	Ant1	5510	12.42	0.18	12.60	≤23.98	PASS
11AC40SISO	Ant1	5590	12.18	0.18	12.36	≤23.98	PASS
11AC40SISO	Ant1	5670	12.54	0.18	12.72	≤23.98	PASS
11AC80SISO	Ant1	5530	11.91	0.36	12.27	≤23.98	PASS
11AC80SISO	Ant1	5610	11.74	0.36	12.10	≤23.98	PASS

UNII-3:

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	13.61	0.08	13.69	≤30.00	PASS
11A	Ant1	5785	14.14	0.08	14.22	≤30.00	PASS
11A	Ant1	5825	14.77	0.08	14.85	≤30.00	PASS
11N20SISO	Ant1	5745	13.59	0.09	13.68	≤30.00	PASS
11N20SISO	Ant1	5785	13.09	0.09	13.18	≤30.00	PASS
11N20SISO	Ant1	5825	13.65	0.09	13.74	≤30.00	PASS
11N40SISO	Ant1	5755	13.38	0.18	13.56	≤30.00	PASS
11N40SISO	Ant1	5795	13.76	0.18	13.94	≤30.00	PASS
11AC20SISO	Ant1	5745	13.15	0.09	13.24	≤30.00	PASS
11AC20SISO	Ant1	5785	13.38	0.09	13.47	≤30.00	PASS
11AC20SISO	Ant1	5825	13.48	0.09	13.57	≤30.00	PASS
11AC40SISO	Ant1	5755	13.14	0.18	13.32	≤30.00	PASS
11AC40SISO	Ant1	5795	12.42	0.18	12.60	≤30.00	PASS
11AC80SISO	Ant1	5775	11.04	0.36	11.40	≤30.00	PASS

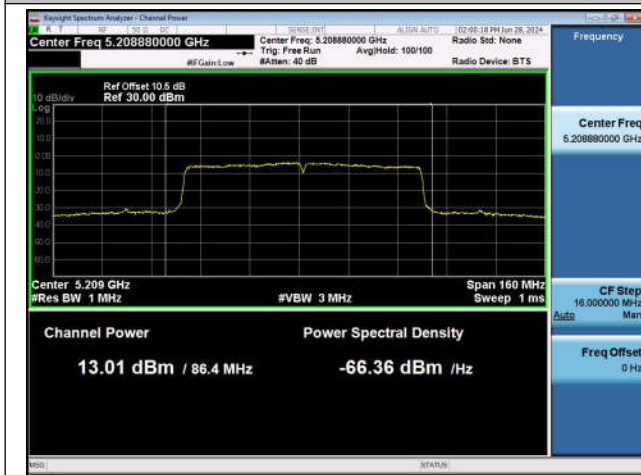
Test plots



11A-Ant1-5180-PASS



11N40SISO-Ant1-5755-PASS



11AC80SISO-Ant1-5775-PASS

/

/

Note: Only UNII-1 20MHz&40MHz&80MHz Bandwidth test plot is reported to show setting parameter complies with testing method and procedure.

**AVGSA Power Spectral Density****Test Result and Data****UNII-1:**

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	4.74	≤11.00	PASS
11A	Ant1	5220	5.39	≤11.00	PASS
11A	Ant1	5240	5.60	≤11.00	PASS
11N20SISO	Ant1	5180	4.76	≤11.00	PASS
11N20SISO	Ant1	5220	3.04	≤11.00	PASS
11N20SISO	Ant1	5240	3.57	≤11.00	PASS
11N40SISO	Ant1	5190	0.42	≤11.00	PASS
11N40SISO	Ant1	5230	0.49	≤11.00	PASS
11AC20SISO	Ant1	5180	2.91	≤11.00	PASS
11AC20SISO	Ant1	5220	3.21	≤11.00	PASS
11AC20SISO	Ant1	5240	2.95	≤11.00	PASS
11AC40SISO	Ant1	5190	0.21	≤11.00	PASS
11AC40SISO	Ant1	5230	0.59	≤11.00	PASS
11AC80SISO	Ant1	5210	-3.39	≤11.00	PASS

UNII-2a:

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5260	3.82	≤11.00	PASS
11A	Ant1	5300	3.87	≤11.00	PASS
11A	Ant1	5320	3.19	≤11.00	PASS
11N20SISO	Ant1	5260	3.56	≤11.00	PASS
11N20SISO	Ant1	5300	3.21	≤11.00	PASS
11N20SISO	Ant1	5320	2.83	≤11.00	PASS
11N40SISO	Ant1	5270	0.22	≤11.00	PASS
11N40SISO	Ant1	5310	-1.11	≤11.00	PASS
11AC20SISO	Ant1	5260	2.44	≤11.00	PASS
11AC20SISO	Ant1	5300	2.16	≤11.00	PASS
11AC20SISO	Ant1	5320	1.29	≤11.00	PASS
11AC40SISO	Ant1	5270	0.05	≤11.00	PASS
11AC40SISO	Ant1	5310	-1.05	≤11.00	PASS
11AC80SISO	Ant1	5290	-6.36	≤11.00	PASS

UNII-2c:

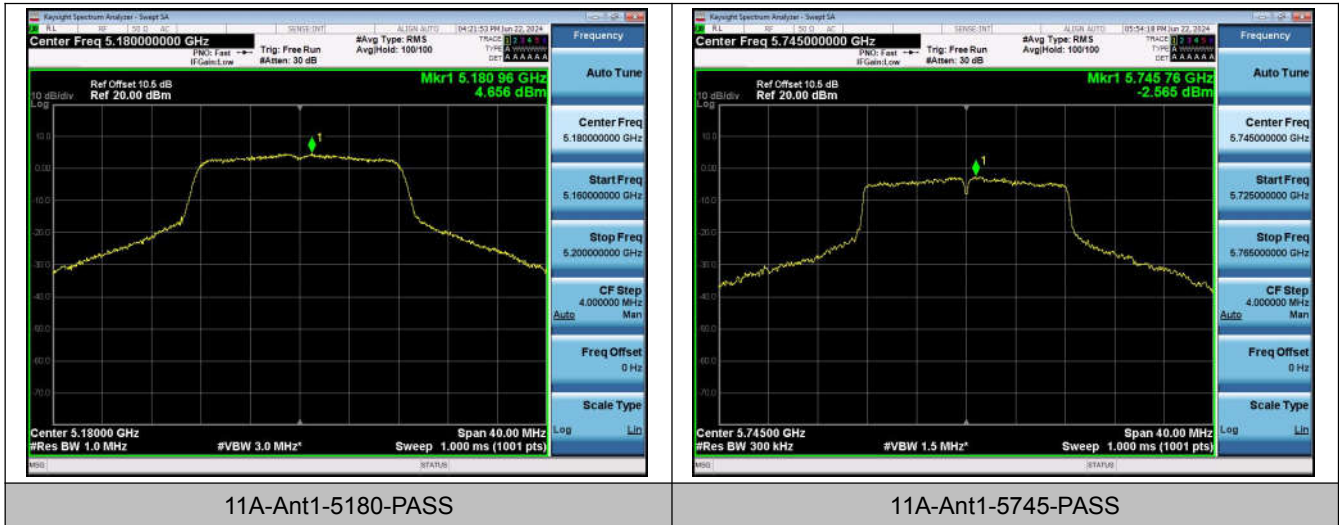
TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5500	4.11	≤11.00	PASS
11A	Ant1	5600	3.40	≤11.00	PASS
11A	Ant1	5700	3.44	≤11.00	PASS
11N20SISO	Ant1	5500	2.92	≤11.00	PASS
11N20SISO	Ant1	5600	2.89	≤11.00	PASS
11N20SISO	Ant1	5700	2.22	≤11.00	PASS
11N40SISO	Ant1	5510	0.47	≤11.00	PASS
11N40SISO	Ant1	5590	-1.34	≤11.00	PASS
11N40SISO	Ant1	5670	-1.06	≤11.00	PASS
11AC20SISO	Ant1	5500	2.16	≤11.00	PASS
11AC20SISO	Ant1	5600	1.07	≤11.00	PASS
11AC20SISO	Ant1	5700	2.84	≤11.00	PASS
11AC40SISO	Ant1	5510	-0.46	≤11.00	PASS
11AC40SISO	Ant1	5590	-1.30	≤11.00	PASS
11AC40SISO	Ant1	5670	-1.15	≤11.00	PASS
11AC80SISO	Ant1	5530	-4.52	≤11.00	PASS
11AC80SISO	Ant1	5610	-4.76	≤11.00	PASS

UNII-3:

TestMode	Antenna	Frequency[MHz]	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
11A	Ant1	5745	-0.27	≤30.00	PASS
11A	Ant1	5785	1.26	≤30.00	PASS
11A	Ant1	5825	1.79	≤30.00	PASS
11N20SISO	Ant1	5745	-0.55	≤30.00	PASS
11N20SISO	Ant1	5785	-0.24	≤30.00	PASS
11N20SISO	Ant1	5825	0.26	≤30.00	PASS
11N40SISO	Ant1	5755	-3.27	≤30.00	PASS
11N40SISO	Ant1	5795	-2.71	≤30.00	PASS
11AC20SISO	Ant1	5745	-0.35	≤30.00	PASS
11AC20SISO	Ant1	5785	-0.13	≤30.00	PASS
11AC20SISO	Ant1	5825	0.02	≤30.00	PASS
11AC40SISO	Ant1	5755	-3.42	≤30.00	PASS
11AC40SISO	Ant1	5795	-3.83	≤30.00	PASS
11AC80SISO	Ant1	5775	-8.30	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Plots



Note: Only UNII-1&3 20MHz Bandwidth test plot is reported to show setting parameter complies with testing method and procedure.

99% Occupied Bandwidth and 26dB Emission Bandwidth

Test Result and Data

UNII-1:

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	99% OBW [MHz]	Verdict
11A	Ant1	5180	30.080	17.648	Pass
11A	Ant1	5220	25.400	17.357	Pass
11A	Ant1	5240	26.440	17.487	Pass
11N20SISO	Ant1	5180	27.600	18.393	Pass
11N20SISO	Ant1	5220	25.720	18.269	Pass
11N20SISO	Ant1	5240	25.840	18.272	Pass
11N40SISO	Ant1	5190	41.840	36.537	Pass
11N40SISO	Ant1	5230	41.680	36.504	Pass
11AC20SISO	Ant1	5180	26.600	18.187	Pass
11AC20SISO	Ant1	5220	25.440	18.236	Pass
11AC20SISO	Ant1	5240	26.080	18.138	Pass
11AC40SISO	Ant1	5190	41.200	36.388	Pass
11AC40SISO	Ant1	5230	41.600	36.417	Pass
11AC80SISO	Ant1	5210	86.400	76.057	Pass

UNII-2a:

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	99% OBW [MHz]	Verdict
11A	Ant1	5260	24.640	17.097	Pass
11A	Ant1	5300	23.760	17.109	Pass
11A	Ant1	5320	23.880	16.958	Pass
11N20SISO	Ant1	5260	26.400	18.211	Pass
11N20SISO	Ant1	5300	24.680	18.133	Pass
11N20SISO	Ant1	5320	24.520	18.171	Pass
11N40SISO	Ant1	5270	42.000	36.501	Pass
11N40SISO	Ant1	5310	41.040	36.382	Pass
11AC20SISO	Ant1	5260	24.160	18.142	Pass
11AC20SISO	Ant1	5300	24.320	18.099	Pass
11AC20SISO	Ant1	5320	23.080	18.096	Pass
11AC40SISO	Ant1	5270	41.600	36.427	Pass
11AC40SISO	Ant1	5310	41.200	36.340	Pass
11AC80SISO	Ant1	5290	89.440	76.007	Pass

**UNII-2c:**

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	99% OBW [MHz]	Verdict
11A	Ant1	5500	27.000	17.280	Pass
11A	Ant1	5600	28.800	17.240	Pass
11A	Ant1	5700	32.440	18.427	Pass
11N20SISO	Ant1	5500	28.040	18.249	Pass
11N20SISO	Ant1	5600	30.080	18.363	Pass
11N20SISO	Ant1	5700	30.160	18.459	Pass
11N40SISO	Ant1	5510	42.240	36.380	Pass
11N40SISO	Ant1	5590	50.800	36.510	Pass
11N40SISO	Ant1	5670	50.720	36.527	Pass
11AC20SISO	Ant1	5500	23.880	18.184	Pass
11AC20SISO	Ant1	5600	24.720	18.198	Pass
11AC20SISO	Ant1	5700	24.280	18.203	Pass
11AC40SISO	Ant1	5510	49.120	36.499	Pass
11AC40SISO	Ant1	5590	42.000	36.398	Pass
11AC40SISO	Ant1	5670	40.960	36.432	Pass
11AC80SISO	Ant1	5530	92.800	75.984	Pass
11AC80SISO	Ant1	5610	96.320	76.190	Pass

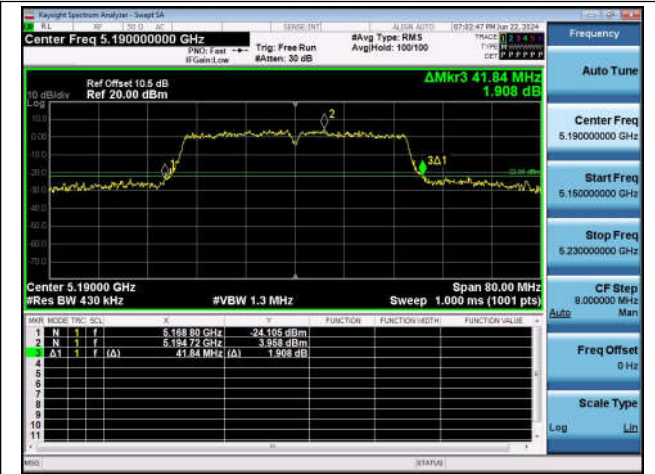
UNII-3:

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	99% OBW [MHz]	Verdict
11A	Ant1	5745	34.160	17.705	Pass
11A	Ant1	5785	34.520	20.805	Pass
11A	Ant1	5825	36.800	22.820	Pass
11N20SISO	Ant1	5745	28.000	18.673	Pass
11N20SISO	Ant1	5785	30.120	18.957	Pass
11N20SISO	Ant1	5825	30.200	19.386	Pass
11N40SISO	Ant1	5755	47.120	36.530	Pass
11N40SISO	Ant1	5795	59.840	36.645	Pass
11AC20SISO	Ant1	5745	24.800	18.202	Pass
11AC20SISO	Ant1	5785	29.360	18.239	Pass
11AC20SISO	Ant1	5825	26.680	18.290	Pass
11AC40SISO	Ant1	5755	41.040	36.455	Pass
11AC40SISO	Ant1	5795	42.000	36.398	Pass
11AC80SISO	Ant1	5775	101.760	76.083	Pass

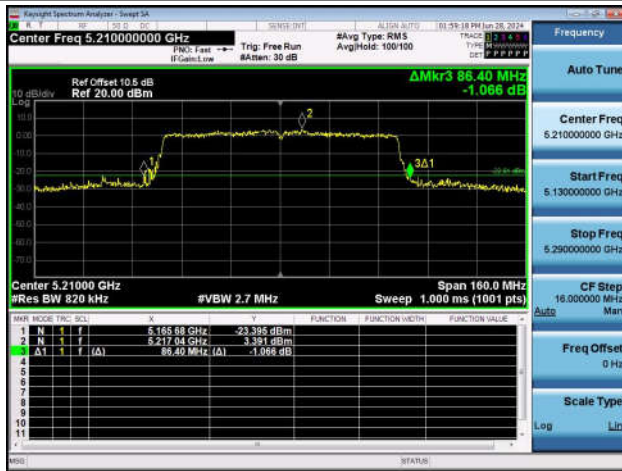
Test Plots



11A-Ant1-5180-26dB EBW



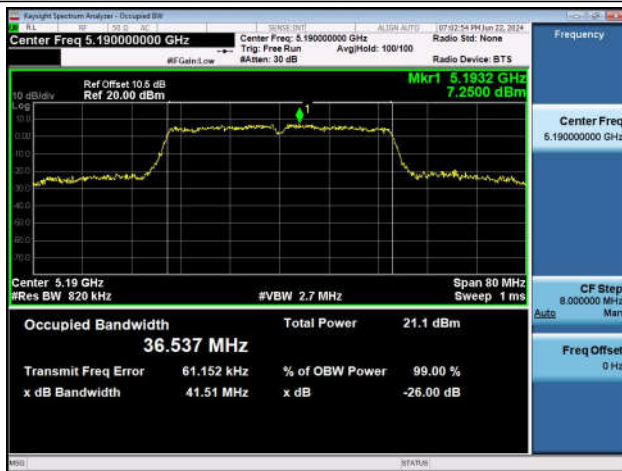
11N40SISO-Ant1-5190-26dB EBW



11AC80SISO-Ant1-5210-26dB EBW



11A-Ant1-5180-99% OBW



11N40SISO-Ant1-5190-99% OBW



11AC80SISO-Ant1-5210-99% OBW

Note: Only UNII-1 20MHz&40MHz&80MHz Bandwidth test plot is reported to show setting parameter complies with testing method and procedure.

**6dB Bandwidth****Test Result and Data**

TestMode	Antenna	Channel Frequency[MHz]	6dB EBW[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.000	0.5	PASS
11A	Ant1	5785	12.600	0.5	PASS
11A	Ant1	5825	16.040	0.5	PASS
11N20SISO	Ant1	5745	17.240	0.5	PASS
11N20SISO	Ant1	5785	17.280	0.5	PASS
11N20SISO	Ant1	5825	15.880	0.5	PASS
11N40SISO	Ant1	5755	35.120	0.5	PASS
11N40SISO	Ant1	5795	35.280	0.5	PASS
11AC20SISO	Ant1	5745	12.520	0.5	PASS
11AC20SISO	Ant1	5785	17.560	0.5	PASS
11AC20SISO	Ant1	5825	12.680	0.5	PASS
11AC40SISO	Ant1	5755	35.280	0.5	PASS
11AC40SISO	Ant1	5795	35.120	0.5	PASS
11AC80SISO	Ant1	5775	75.040	0.5	PASS

Test Plots



11A-Ant1-5745-PASS



11A-Ant1-5785-PASS



11A-Ant1-5825-PASS



11N20SISO-Ant1-5745-PASS



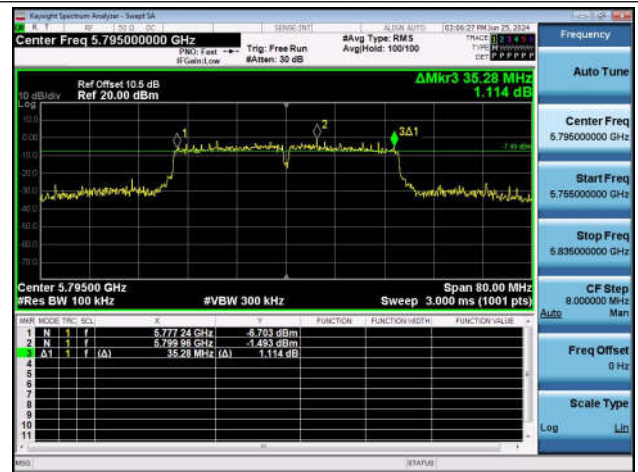
11N20SISO-Ant1-5785-PASS



11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



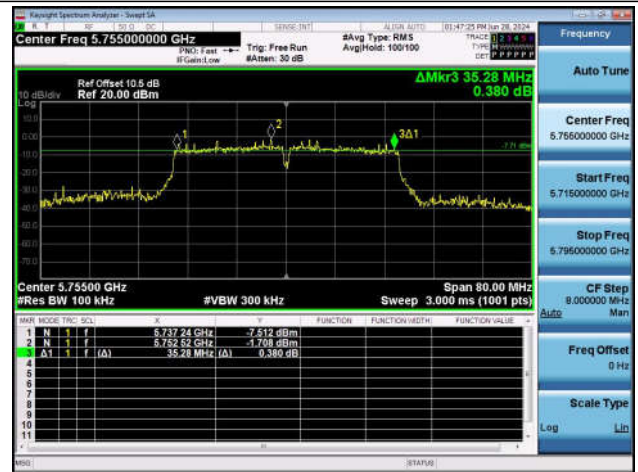
11AC20SISO-Ant1-5745-PASS



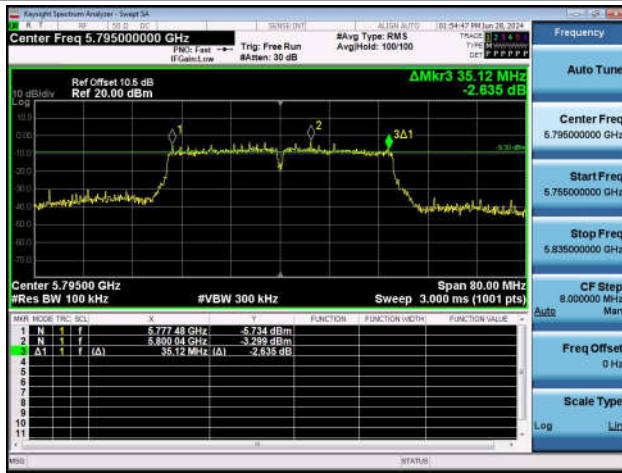
11AC20SISO-Ant1-5785-PASS



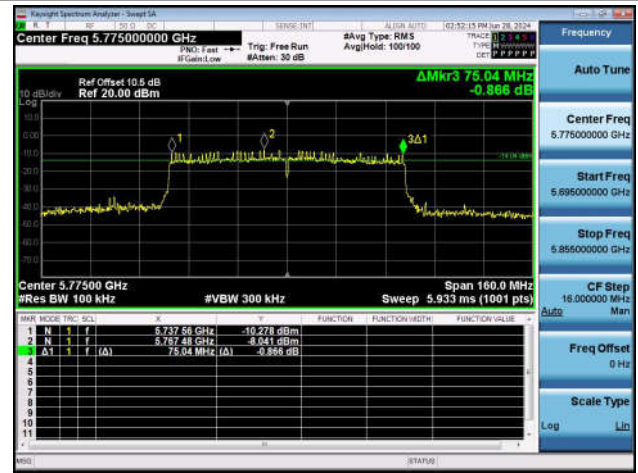
11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5775-PASS



Frequency Stability Test Result and Data

UNII-1:

TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	LV	NT	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	HV	NT	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	50	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	-30	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	-20	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	-10	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	0	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	10	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	30	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	40	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	20	-20000.00	-3.861004	20	PASS

UNII-2a:

TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5260	NV	NT	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	LV	NT	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	HV	NT	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	NV	-30	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	NV	-20	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	NV	-10	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	NV	0	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	NV	10	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	NV	20	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	NV	30	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	NV	40	-20000.00	-3.802281	20	PASS
11A	Ant1	5260	NV	50	-40000.00	-7.604563	20	PASS

**UNII-2c:**

TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5500	NV	NT	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	LV	NT	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	HV	NT	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	NV	-30	60000.00	10.909091	20	PASS
11A	Ant1	5500	NV	-20	60000.00	10.909091	20	PASS
11A	Ant1	5500	NV	-10	60000.00	10.909091	20	PASS
11A	Ant1	5500	NV	0	60000.00	10.909091	20	PASS
11A	Ant1	5500	NV	10	60000.00	10.909091	20	PASS
11A	Ant1	5500	NV	20	60000.00	10.909091	20	PASS
11A	Ant1	5500	NV	30	60000.00	10.909091	20	PASS
11A	Ant1	5500	NV	40	60000.00	10.909091	20	PASS
11A	Ant1	5500	NV	50	60000.00	10.909091	20	PASS

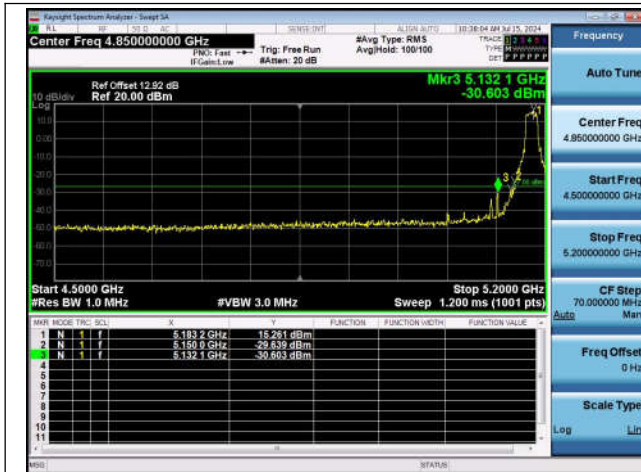
UNII-3:

TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS
11A	Ant1	5745	LV	NT	-20000.00	-3.481288	20	PASS
11A	Ant1	5745	HV	NT	-20000.00	-3.481288	20	PASS
11A	Ant1	5500	NV	20	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	NV	-30	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	NV	-20	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	NV	-10	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	NV	0	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	NV	10	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	NV	30	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	NV	40	-20000.00	-3.636364	20	PASS
11A	Ant1	5500	NV	50	-20000.00	-3.636364	20	PASS

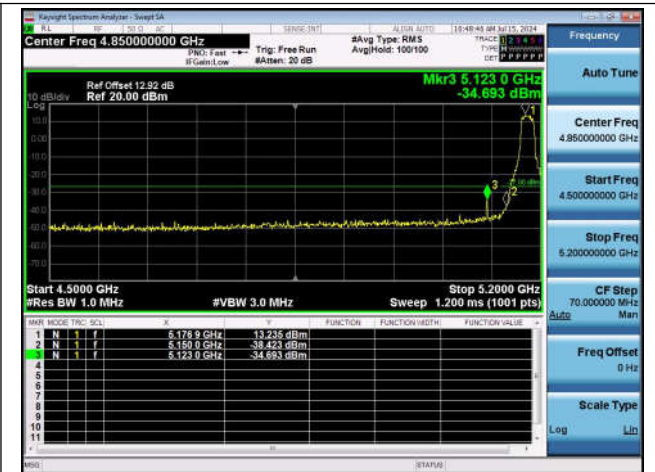
Note 1: All of the EUT Configure Mode were tested, the worst case is recorded in this report.

Conducted Band Edges

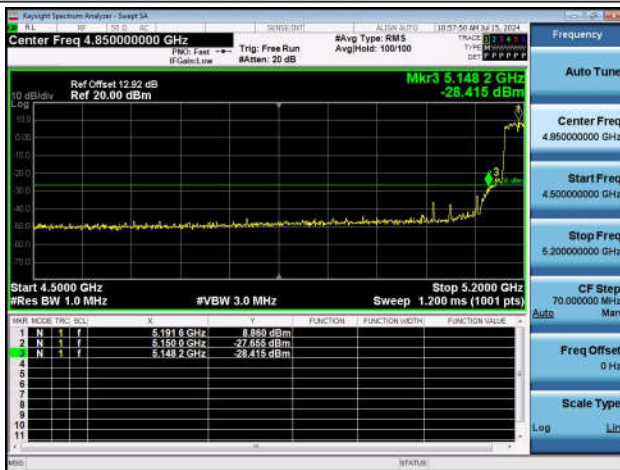
UNII-1:



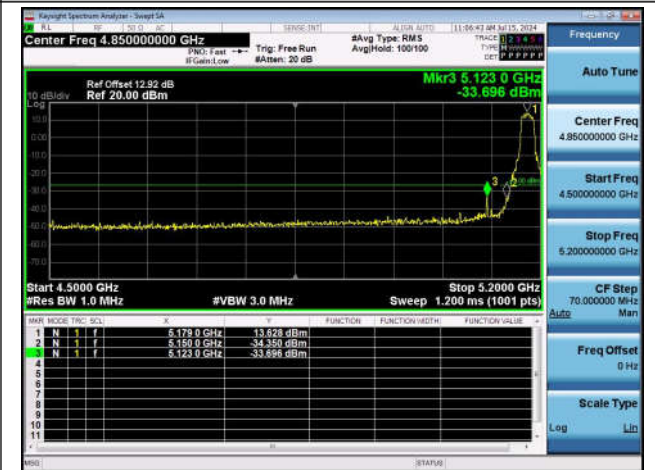
11A-Ant1-5180-PASS



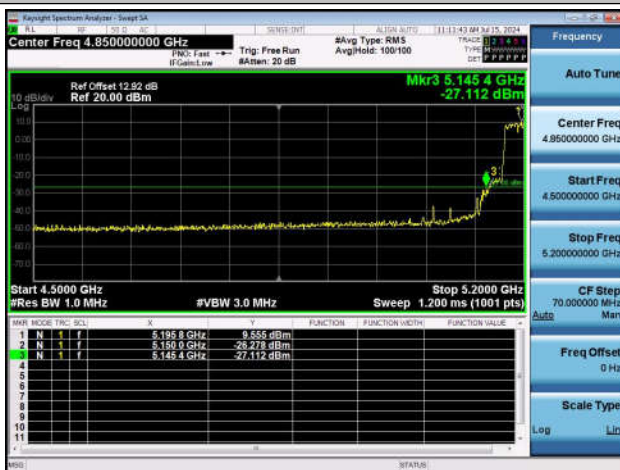
11N20SISO-Ant1-5180-PASS



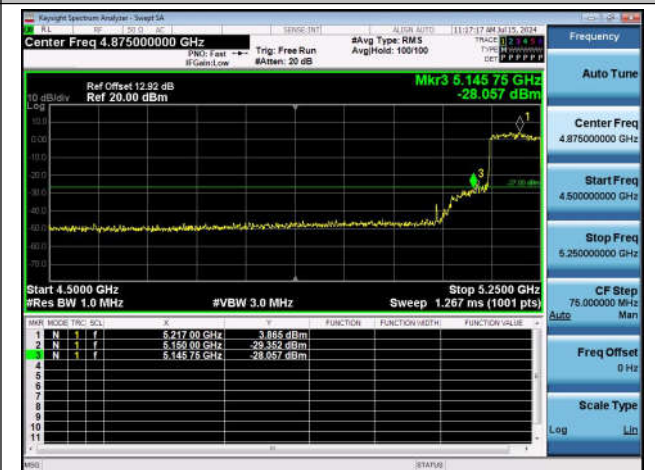
11N40SISO-Ant1-5190-PASS



11AC20SISO-Ant1-5180-PASS

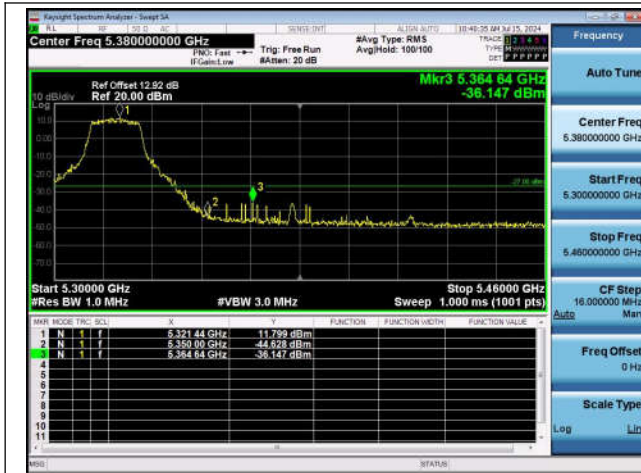


11AC40SISO-Ant1-5190-PASS



11AC80SISO-Ant1-5210-PASS

UNIL-2a:



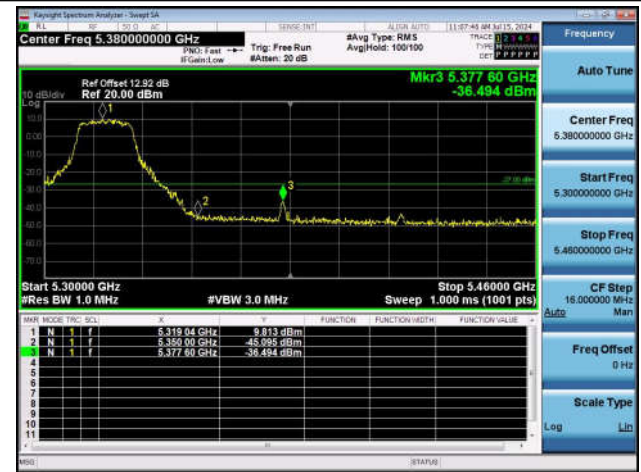
11A-Ant1-5320-PASS



11N20SISO-Ant1-5320-PASS



11N40SISO-Ant1-5310-PASS



11AC20SISO-Ant1-5320-PASS



11AC40SISO-Ant1-5310-PASS



11AC80SISO-Ant1-5290-PASS

UNII-2c:



11A-Ant1-5500-PASS



11A-Ant1-5700-PASS



11N20SISO-Ant1-5500-PASS



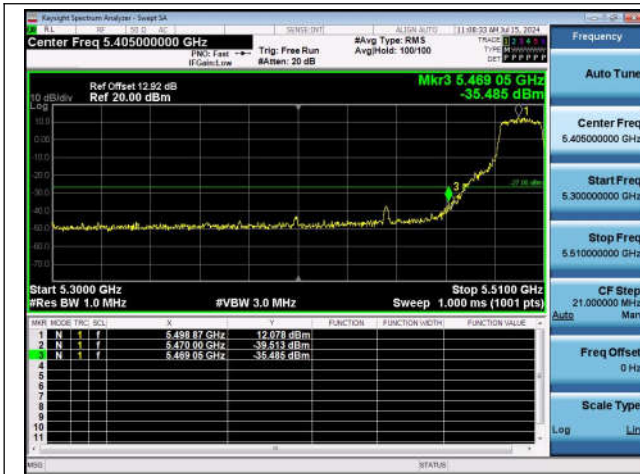
11N20SISO-Ant1-5700-PASS



11N40SISO-Ant1-5510-PASS



11N40SISO-Ant1-5670-PASS



11AC20SISO-Ant1-5500-PASS



11AC20SISO-Ant1-5700-PASS



11AC40SISO-Ant1-5510-PASS



11AC40SISO-Ant1-5670-PASS



11AC80SISO-Ant1-5530-PASS



11AC80SISO-Ant1-5610-PASS

UNIT-3:



11A-Ant1-5745-PASS



11A-Ant1-5825-PASS



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



11AC20SISO-Ant1-5745-PASS



11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5775-PASS



11AC80SISO-Ant1-5775-PASS

** END OF REPORT **