



RF TEST REPORT

Report No.: SET2021-17273

Product Name: Patient Monitor

Model No. : AView V10, AView V12

FCC ID: A49AVIEW

Applicant: Shenzhen Creative Industry Co., Ltd.

Address: Floor 5, BLD 9, Baiwangxin High-Tech Industrial Park, Songbai Road, Xili Street, Nanshan District, Shenzhen, China

Dates of Testing: 10/28/2021 - 12/08/2021

Issued by: CCIC Southern Testing Co., Ltd.

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

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Test Report

Product Name.....: Patient Monitor

Brand Name.....: LEPU MEDICAL

Trade Name.....: LEPU MEDICAL

Applicant.....: Shenzhen Creative Industry Co., Ltd.

Applicant Address.....: Floor 5, BLD 9, Baiwangxin High-Tech Industrial Park,
Songbai Road, Xili Street, Nanshan District, Shenzhen,
China

Manufacturer.....: Shenzhen Creative Industry Co., Ltd.

Manufacturer Address.....: Floor 5, BLD 9, Baiwangxin High-Tech Industrial Park,
Songbai Road, Xili Street, Nanshan District, Shenzhen,
China

Test Standards.....: 47 CFR Part 15 Subpart E 15.407
ANSI C63.10-2013

Test Result.....: PASS

Tested by:  2021.12.28
Sun, Test Engineer

Reviewed by:  2021.12.28
Chris You, Senior Engineer

Approved by:  2021.12.28
ShuangwenZhang, Manager

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Change History		
Issue	Date	Reason for change
1.0	2021.12.28	First edition

1. General Information

1.1. EUT Description

EUT Type	Patient Monitor
Model No.	AIView V10, AIView V12
EUT supports Radios application	WLAN5.0GHz 802.11a/n (HT20)
Product Type	Client devices
Modulation Type	64QAM,16QAM, QPSK, BPSK for OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n : up to 72.2 Mbps
Frequency Range	Band UNII-1: 5150 ~ 5250MHz Band UNII-2a: 5250 ~ 5350MHz Band UNII-2c: 5470 ~ 5725MHz Band UNII-3: 5725 ~ 5850MHz
Channel Bandwidth	802.11a: 20MHz 802.11n: 20MHz
Channel Number	Band UNII-1 & Band UNII-2a: 4 for 802.11a, 802.11n(HT20) Band UNII-2c: 11 for 802.11a, 802.11n(HT20) Band UNII-3: 5 for 802.11a, 802.11n(HT20)
Antenna Type	Internal Antenna
Antenna Gain	4.87dBi
Output Power (Max.)	Band UNII-1: 6.29dBm Band UNII-2a: 5.73dBm Band UNII-2c: 8.54dBm Band UNII-3: 6.38dBm
Power supply	Model No.: HYLB-2260 Rated Voltage: DC 10.95V Capacitance: 2750mAh Model No.: HYLB-2261 Rated Voltage: DC 10.95V Capacitance: 5500mAh

1.2. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart E for the EUT FCC Certification:

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 C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

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

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

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

Operated band in 5250 MHz ~ 5350MHz

4 channels are provided for 802.11a, 802.11n-HT20

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

Operated band in 5470 MHz ~ 5725MHz

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

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

Note: “*” means: the channel will shut down by software in Canada market.

Operated band in 5725 MHz ~ 5850MHz

5 channels are provided for 802.11a, 802.11n-HT20

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

1.4. Test environment and mode

Operating Environment	
Temperature	24°C
Humidity	57 % RH
Atmospheric Pressure	1010 mbar
Test mode:	
Continuously transmitting mode	Keeps the EUT in 100% duty cycle transmitting with modulation in SISO, duty cycle factor is not required.

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			
Mode	Modulation scheme / bandwidth		
	5180 MHz	5220 MHz	5240 MHz
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n – HT20	MCS 0	MCS 0	MCS 0

For Frequency band 5250 ~ 5350 MHz			
Mode	Modulation scheme / bandwidth		
	5260 MHz	5300 MHz	5320 MHz
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n – HT20	MCS 0	MCS 0	MCS 0

For Frequency band 5470 ~ 5725 MHz			
Mode	Modulation scheme / bandwidth		
	5500 MHz	5580 MHz	5700 MHz
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n – HT20	MCS 0	MCS 0	MCS 0

For Frequency band 5725 ~ 5850 MHz			
Mode	Modulation scheme / bandwidth		
	5745 MHz	5785 MHz	5825 MHz
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n – HT20	MCS 0	MCS 0	MCS 0

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation modes or test configuration modes mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	TX A Mode / CH36, CH44, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 3	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 4	TX N20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 6	TX N20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 7	TX A Mode / CH149, CH157, CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149, CH157, CH165 (UNII-3)
Mode 9	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 9	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH44, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 3	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 4	TX N20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 6	TX N20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 7	TX A Mode / CH149, CH157, CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149, CH157, CH165 (UNII-3)

1.5. Power level setup in software

Power level setup in software for 5G wifi			
UNII-1			
Frequency (MHz)	5180	5220	5240
A mode	18	18	18
Frequency (MHz)	5180	5220	5240
N20 mode	18	18	18

Power level setup in software for 5G wifi			
UNII-2A			
Frequency (MHz)	5260	5300	5320
A mode	18	18	18
Frequency (MHz)	5260	5300	5320
N20 mode	18	18	18

Power level setup in software for 5G wifi			
UNII-2C			
Frequency (MHz)	5500	5580	5700
A mode	18	18	18
Frequency (MHz)	5500	5580	5700
N20 mode	18	18	18

Power level setup in software for 5G wifi			
UNII-3			
Frequency (MHz)	5745	5785	5825
A mode	19	19	19
Frequency (MHz)	5745	5785	5825
N20 mode	19	19	19

1.6. Laboratory Facilities

FCC-Registration No.: CN5031

CCIC Southern Electronic Product Testing (Shenzhen) 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: CN5031, valid time is until April 19th, 2023.

ISED Registration: 11185A-1

CAB identifier:CN0064

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-1 on Aug. 04, 2016, valid time is until June 30th, 2023..

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. 47 CFR Part 15E 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.

And according to FCC 47 CFR Section 15.407(E), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.1.2. Antenna Information

No.	EUT	Ant. Type	Ant. Gain
1	Patient Monitor	Internal Antenna	4.87 dBi

2.1.3. Result: comply

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

2.2. Output Power

2.2.1. Limit of Output Power

FCC 15.407(a)

The maximum conducted output power should not exceed:

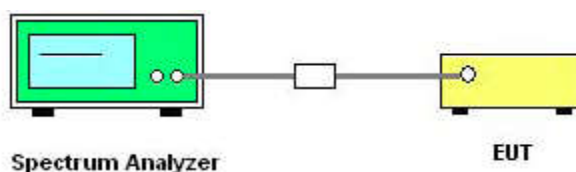
Band	EUT Category	Limit
U-NII-1	☐ Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon)
	☐ Fixed point-to-point Access device	1 Watt (30 dBm)
	☐ Indoor Access Point	1 Watt (30 dBm)
	☒ Mobile and portable client device	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 Measurement Procedure of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02 Method SA-1
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 to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector=average (RMS), Compute power by integrating the spectrum across the 99%OBW.
5. Measure the conducted output power and record the results in the test report.

2.2.5. Test Result

Please refer to APPENDIX A for detail

2.3. Emission Bandwidth

2.3.1. Limit of Bandwidth

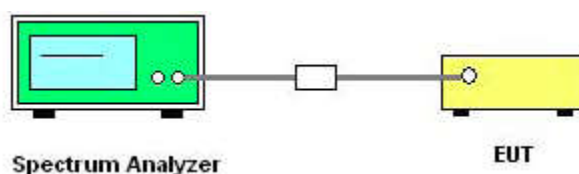
There is no limit bandwidth for bandU-NII-1, U-NII-2A and U-NII-2C.

The minimum of 6dB bandwidth measurement is 0.5 MHz for U-NII-3.

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 Measurement Procedure of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02.
2. The RF output of EUT 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. For 26dB bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = approximately 1%EBW, VBW $\geq$ 3RBW , Detector = Peak, Trace mode = max hold
Span > 26 dB bandwidth and Sweep time = auto
5. Use the spectrum analyzer N dB down function to find the 26dB bandwidth.
6. For 6 Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 100kHz
VBW = 300 kHz, Detector = Peak, Trace mode = max hold
7. Use the spectrum analyzer N dB down and 99%OBW function to find the 6dB and 99% bandwidth
8. Measure and record the worst results in the test report.



2.3.5. Test Results Bandwidth

Please refer to APPENDIX A for detail

2.4. Power spectral density (PSD)

2.4.1. Limit of Power Spectral Density

FCC 15.407(a)

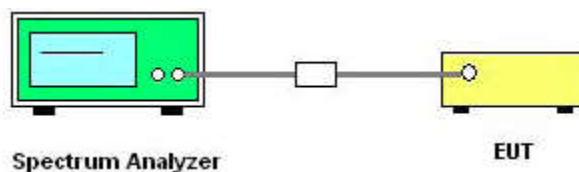
The maximum power spectral density should not exceed:

Band	EUT Category	Limit
U-NII-1	☐ Access Point (Master device)	17 dBm/MHz
	☐ Fixed point-to-point Access device	
	☒ 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

2.4.2. Measuring Instruments

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

2.4.3. Test Setup



2.4.4. Test Procedures

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.

4. For U-NII-1, U-NII-2A, U-NII-2C Band:

Using method SA-1

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = sample, traces 100 sweeps of averaging mode.

For U-NII-3 Band:

Set RBW=500 kHz, $VBW \geq 3RBW$, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = sample, traces 100 sweeps of averaging mode.

5. Use peak search function on the instrument to find the peak of the spectrum and record its value
6. Repeat above procedures until all default test channel (low, middle, and high) was complete.

2.4.5. Test Results of Power spectral density

Please refer to APPENDIX A for detail

2.5. Frequency Stability

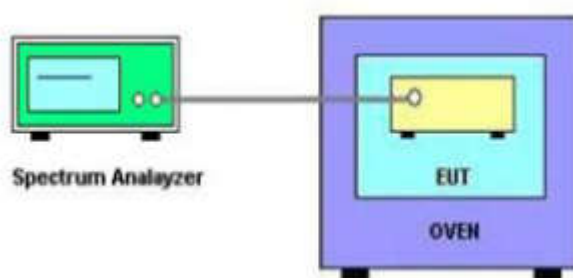
2.5.1. Limit

FCC 15.407(b) Frequency Stability	
Frequency Band(MHz)	Limit
5150~5250	Specified in the user's manual
5250~5350	
5470~5725	
5725~5850	

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 EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. The EUT is installed in an environment test chamber with external power source.
4. Set the chamber to operate at 50 centigrade 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 -10 to 55 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
7. Measure and record the worst results in the test report.

2.5.5. Test Results 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

Applicable To	Limit	
789033 D02 General UNII Test Procedures New Rules v01	Field Strength at 3m	
	PK:74(dB $\mu\text{V/m}$)	AV:54 (dB $\mu\text{V/m}$)

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
5250 - 5350	Outside of the 5.15~5.35 GHz		
5470 -5725	Outside of the 5.47~5.725 GHz		

FCC 15.407			
Frequency Band (MHz)	Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (3m) (dBμV/m)
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. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

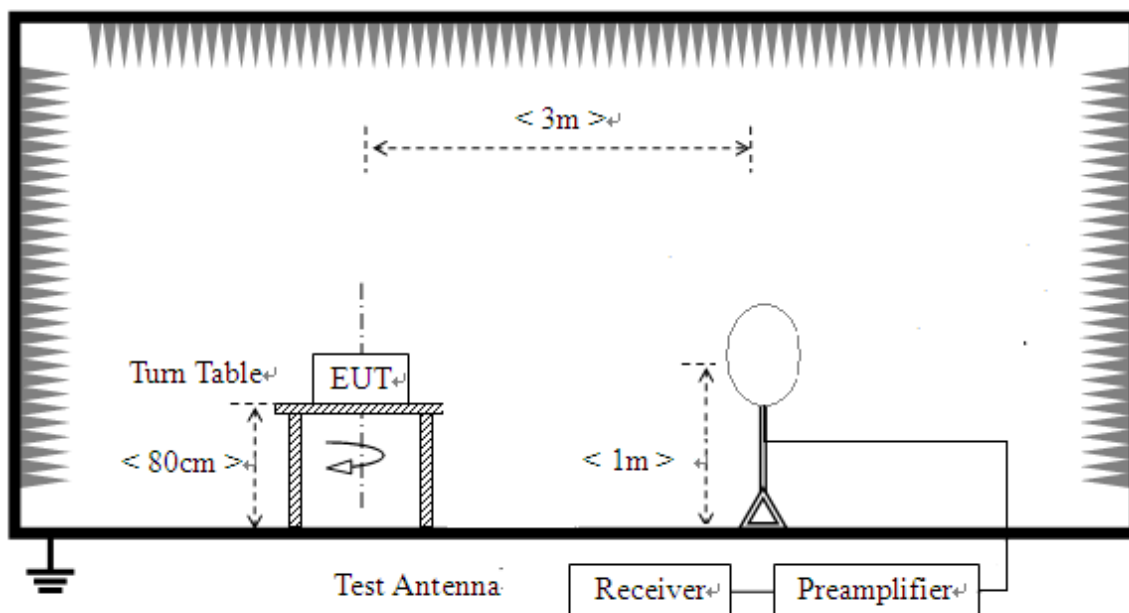
$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

2.6.2. Measuring Instruments

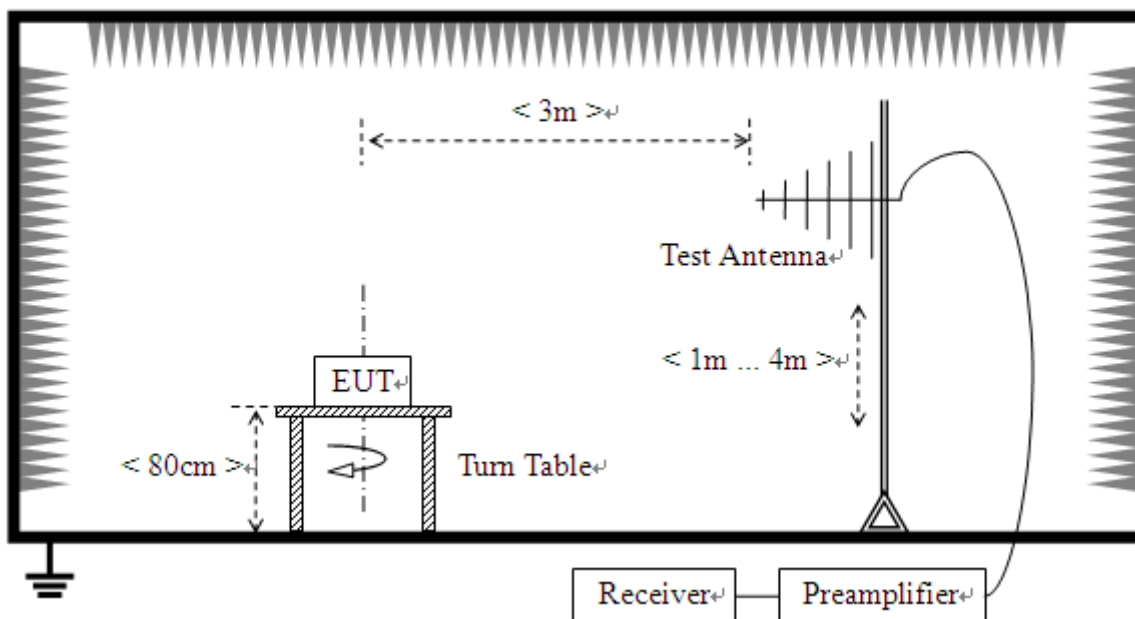
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

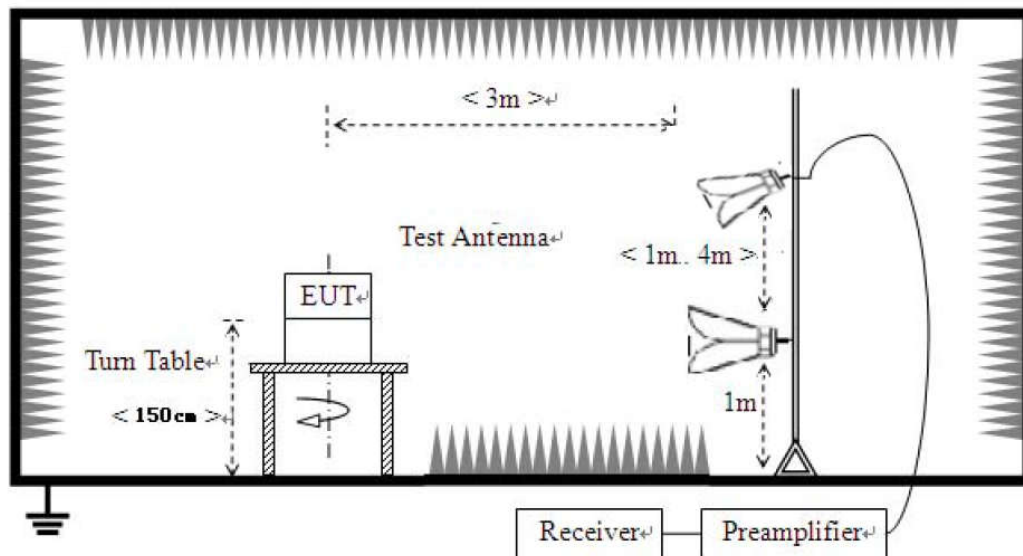
For radiated emissions from 9 KHz to 30 MHz



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:

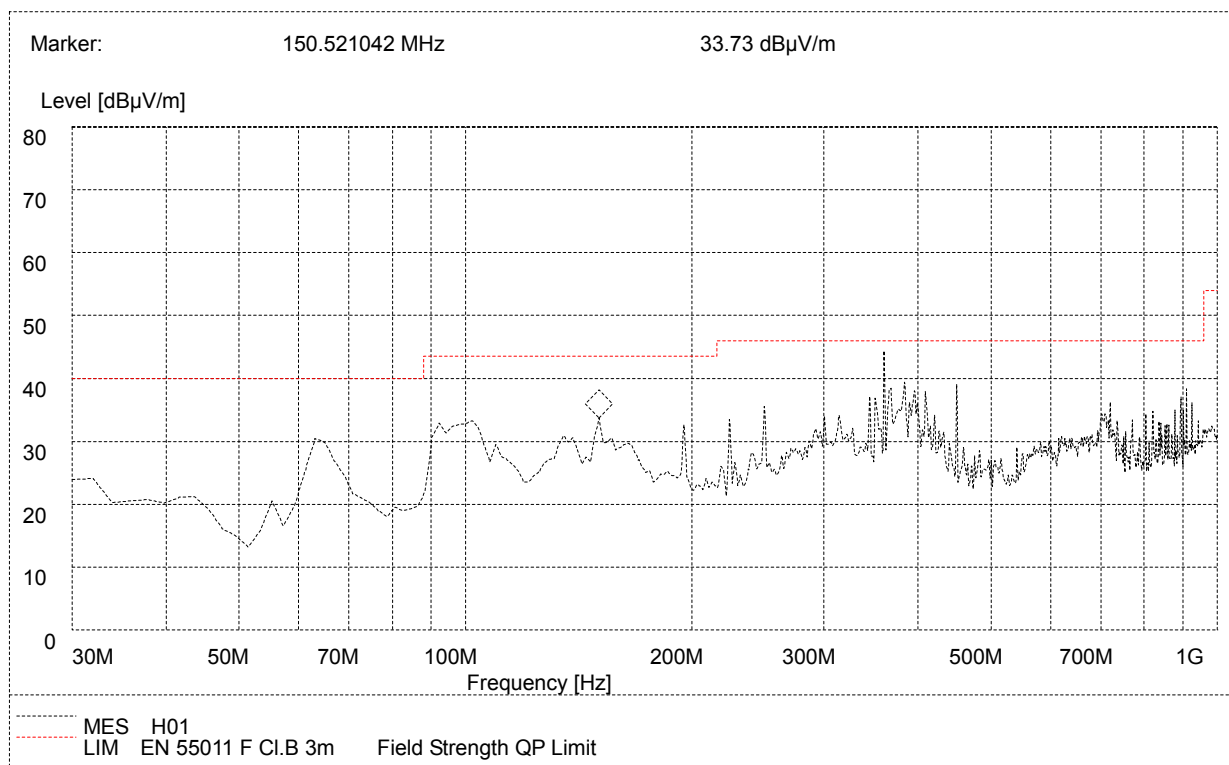
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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 provide worst-Case mode data provide here, 802.11a (20MHz) 5700MHz for Below 1GHz .

2.6.5. Test Results of Radiated Band Edge and Spurious Emission

For 9 KHz to 30MHz

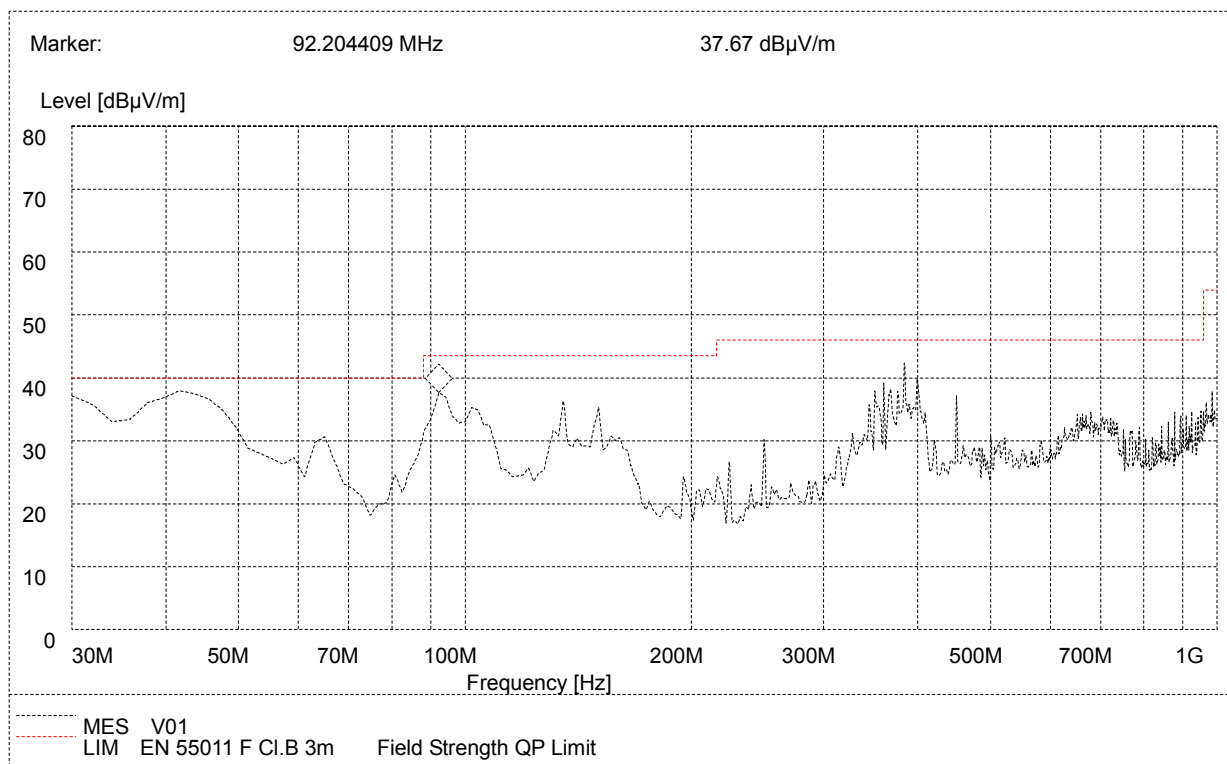
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Corr. Factor (dB/m)	Antenna height (cm)	Limit (dBμV/m)	Margin	Antenna	Verdict
30.000000	27.64	120.000	19.30	100.0	40.0	12.36	Horizontal	Pass
63.810000	29.54	120.000	6.10	100.0	40.0	10.46	Horizontal	Pass
101.920000	32.29	120.000	10.90	100.0	43.5	11.21	Horizontal	Pass
150.520000	31.73	120.000	12.40	100.0	43.5	8.27	Horizontal	Pass
360.110000	43.48	120.000	16.90	100.0	46.0	2.52	Horizontal	Pass
450.180000	35.55	120.000	18.90	100.0	46.0	10.45	Horizontal	Pass



30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Corr. Factor (dB μ V/m)	Antenna height (cm)	Limit (dB μ V/m)	Margin	Antenna	Verdict
30.000000	35.29	120.000	19.30	100.0	40.0	4.71	Vertical	Pass
42.810000	34.20	120.000	14.00	100.0	40.0	5.80	Vertical	Pass
91.360000	37.11	120.000	9.90	100.0	43.5	2.89	Vertical	Pass
148.260000	35.93	120.000	12.40	100.0	43.5	7.57	Vertical	Pass
388.550000	41.05	120.000	17.90	100.0	46.0	4.95	Vertical	Pass
450.800000	37.00	120.000	18.90	100.0	46.0	9.00	Vertical	Pass

REMARKS:

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 other emission levels were very low against the limit.

For 1GHz to 40 GHz

U-NII-1_802.11a_5180MHz									
Frequency (MHz)	Emission 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	60.45	68.20	-7.75	1.50	160	52.95	7.50	Horizontal	Peak
5150.00	49.80	54.00	-4.20	1.50	160	42.30	7.50	Horizontal	Average
10360.00	62.94	68.20	-5.26	1.50	160	43.14	19.80	Horizontal	Peak
10360.00	48.84	54.00	-5.16	1.50	160	29.04	19.80	Horizontal	Average
5150.00	61.60	68.20	-6.60	1.60	180	54.10	7.50	Vertical	Peak
5150.00	50.19	54.00	-3.81	1.60	180	42.69	7.50	Vertical	Average
10360.00	59.13	68.20	-9.07	1.60	180	39.33	19.80	Vertical	Peak
10360.00	48.81	54.00	-5.19	1.60	180	29.01	19.80	Vertical	Average
U-NII-1_802.11a_5220MHz									
Frequency (MHz)	Emission 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	62.91	68.20	-5.29	1.50	160	43.01	19.90	Horizontal	Peak
10440.00	48.76	54.00	-5.24	1.50	160	28.86	19.90	Horizontal	Average
10440.00	59.22	68.20	-8.98	1.60	180	39.32	19.90	Vertical	Peak
10440.00	48.94	54.00	-5.06	1.60	180	29.04	19.90	Vertical	Average
U-NII-1_802.11a_5240MHz									
Frequency (MHz)	Emission 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	60.11	68.20	-8.09	1.50	160	52.11	8.00	Horizontal	Peak
5350.00	49.42	54.00	-4.58	1.50	160	41.42	8.00	Horizontal	Average
10480.00	63.22	68.20	-4.98	1.50	160	43.32	19.90	Horizontal	Peak
10480.00	48.83	54.00	-5.17	1.50	160	28.93	19.90	Horizontal	Average
5350.00	61.93	68.20	-6.27	1.60	180	53.93	8.00	Vertical	Peak
5350.00	49.95	54.00	-4.05	1.60	180	41.95	8.00	Vertical	Average
10480.00	59.37	68.20	-8.83	1.60	180	39.47	19.90	Vertical	Peak
10480.00	48.62	54.00	-5.38	1.60	180	28.72	19.90	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.									

**U-NII-1_802.11n-HT20_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	60.78	68.20	-7.42	1.50	160	53.28	7.50	Horizontal	Peak
5150.00	50.23	54.00	-3.77	1.50	160	42.73	7.50	Horizontal	Average
10360.00	63.33	68.20	-4.87	1.50	160	43.53	19.80	Horizontal	Peak
10360.00	48.82	54.00	-5.18	1.50	160	29.02	19.80	Horizontal	Average
5150.00	61.33	68.20	-6.87	1.60	180	53.83	7.50	Vertical	Peak
5150.00	49.94	54.00	-4.06	1.60	180	42.44	7.50	Vertical	Average
10360.00	59.32	68.20	-8.88	1.60	180	39.52	19.80	Vertical	Peak
10360.00	48.39	54.00	-5.61	1.60	180	28.59	19.80	Vertical	Average

U-NII-1_802.11n-HT20_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	62.84	68.20	-5.36	1.50	160	42.94	19.90	Horizontal	Peak
10440.00	48.59	54.00	-5.41	1.50	160	28.69	19.90	Horizontal	Average
10440.00	59.08	68.20	-9.12	1.60	180	39.18	19.90	Vertical	Peak
10440.00	48.47	54.00	-5.53	1.60	180	28.57	19.90	Vertical	Average

U-NII-1_802.11n-HT20_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	60.50	68.20	-7.70	1.50	160	52.50	8.00	Horizontal	Peak
5350.00	49.73	54.00	-4.27	1.50	160	41.73	8.00	Horizontal	Average
10480.00	63.52	68.20	-4.68	1.50	160	43.62	19.90	Horizontal	Peak
10480.00	48.62	54.00	-5.38	1.50	160	28.72	19.90	Horizontal	Average
5350.00	61.43	68.20	-6.77	1.60	180	53.43	8.00	Vertical	Peak
5350.00	50.32	54.00	-3.68	1.60	180	42.32	8.00	Vertical	Average
10480.00	59.08	68.20	-9.12	1.60	180	39.18	19.90	Vertical	Peak
10480.00	48.86	54.00	-5.14	1.60	180	28.96	19.90	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.



U-NII-2A_802.11a_5260MHz									
Frequency (MHz)	Emission 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	60.06	68.20	-8.14	1.50	160	52.56	7.50	Horizontal	Peak
5150.00	50.14	54.00	-3.86	1.50	160	42.64	7.50	Horizontal	Average
10520.00	62.86	68.20	-5.34	1.50	160	42.86	20.00	Horizontal	Peak
10520.00	48.71	54.00	-5.29	1.50	160	28.71	20.00	Horizontal	Average
5150.00	61.11	68.20	-7.09	1.60	180	53.61	7.50	Vertical	Peak
5150.00	50.34	54.00	-3.66	1.60	180	42.84	7.50	Vertical	Average
10520.00	59.08	68.20	-9.12	1.60	180	39.08	20.00	Vertical	Peak
10520.00	48.77	54.00	-5.23	1.60	180	28.77	20.00	Vertical	Average
U-NII-2A_802.11a_5300MHz									
Frequency (MHz)	Emission 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	63.17	68.20	-5.03	1.50	160	43.17	20.00	Horizontal	Peak
10600.00	48.77	54.00	-5.23	1.50	160	28.77	20.00	Horizontal	Average
10600.00	58.82	68.20	-9.38	1.60	180	38.82	20.00	Vertical	Peak
10600.00	49.42	54.00	-4.58	1.60	180	29.42	20.00	Vertical	Average
U-NII-2A_802.11a_5300MHz									
Frequency (MHz)	Emission 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	59.94	68.20	-8.26	1.50	160	51.94	8.00	Horizontal	Peak
5350.00	50.08	54.00	-3.92	1.50	160	42.08	8.00	Horizontal	Average
10640.00	63.05	68.20	-5.15	1.50	160	42.95	20.10	Horizontal	Peak
10640.00	49.11	54.00	-4.89	1.50	160	29.01	20.10	Horizontal	Average
5350.00	60.87	68.20	-7.33	1.60	180	52.87	8.00	Vertical	Peak
5350.00	50.75	54.00	-3.25	1.60	180	42.75	8.00	Vertical	Average
10640.00	59.57	68.20	-8.63	1.60	180	39.47	20.10	Vertical	Peak
10640.00	48.27	54.00	-5.73	1.60	180	28.17	20.10	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.									

U-NII-2A_802.11n-HT20_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	60.19	68.20	-8.01	1.50	160	52.69	7.50	Horizontal	Peak
5150.00	50.27	54.00	-3.73	1.50	160	42.77	7.50	Horizontal	Average
10520.00	62.48	68.20	-5.72	1.50	160	42.48	20.00	Horizontal	Peak
10520.00	48.93	54.00	-5.07	1.50	160	28.93	20.00	Horizontal	Average
5150.00	61.12	68.20	-7.08	1.60	180	53.62	7.50	Vertical	Peak
5150.00	50.69	54.00	-3.31	1.60	180	43.19	7.50	Vertical	Average
10520.00	58.76	68.20	-9.44	1.60	180	38.76	20.00	Vertical	Peak
10520.00	48.90	54.00	-5.10	1.60	180	28.90	20.00	Vertical	Average
U-NII-2A_802.11n-HT20_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	63.09	68.20	-5.11	1.50	160	43.09	20.00	Horizontal	Peak
10600.00	48.33	54.00	-5.67	1.50	160	28.33	20.00	Horizontal	Average
10600.00	59.13	68.20	-9.07	1.60	180	39.13	20.00	Vertical	Peak
10600.00	49.76	54.00	-4.24	1.60	180	29.76	20.00	Vertical	Average
U-NII-2A_802.11n-HT20_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	60.33	68.20	-7.87	1.50	160	52.33	8.00	Horizontal	Peak
5350.00	50.01	54.00	-3.99	1.50	160	42.01	8.00	Horizontal	Average
10640.00	62.56	68.20	-5.64	1.50	160	42.46	20.10	Horizontal	Peak
10640.00	48.84	54.00	-5.16	1.50	160	28.74	20.10	Horizontal	Average
5350.00	60.94	68.20	-7.26	1.60	180	52.94	8.00	Vertical	Peak
5350.00	50.79	54.00	-3.21	1.60	180	42.79	8.00	Vertical	Average
10640.00	59.66	68.20	-8.54	1.60	180	39.56	20.10	Vertical	Peak
10640.00	48.47	54.00	-5.53	1.60	180	28.37	20.10	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.									

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	49.51	68.20	-18.69	1.50	160	41.01	8.50	Horizontal	Peak
5470.00	42.67	54.00	-11.33	1.50	160	34.17	8.50	Horizontal	Average
11000.00	52.56	68.20	-15.64	1.50	160	31.56	21.00	Horizontal	Peak
11000.00	44.77	54.00	-9.23	1.50	160	23.77	21.00	Horizontal	Average
5470.00	53.18	68.20	-15.02	1.60	180	44.68	8.50	Vertical	Peak
5470.00	46.57	54.00	-7.43	1.60	180	38.07	8.50	Vertical	Average
11000.00	52.89	68.20	-15.31	1.60	180	31.89	21.00	Vertical	Peak
11000.00	45.69	54.00	-8.31	1.60	180	24.69	21.00	Vertical	Average
U-NII-2C_802.11a_5600MHz									
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
11200.00	52.19	68.20	-16.01	1.50	160	30.69	21.50	Horizontal	Peak
11200.00	44.26	54.00	-9.74	1.50	160	22.76	21.50	Horizontal	Average
11200.00	53.37	68.20	-14.83	1.60	180	31.87	21.50	Vertical	Peak
11200.00	45.98	54.00	-8.02	1.60	180	24.48	21.50	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
5725.00	49.47	68.20	-18.73	1.50	160	39.82	9.65	Horizontal	Peak
5725.00	42.78	54.00	-11.22	1.50	160	33.13	9.65	Horizontal	Average
11400.00	52.20	68.20	-16.00	1.50	160	30.70	21.50	Horizontal	Peak
11400.00	45.10	54.00	-8.90	1.50	160	23.60	21.50	Horizontal	Average
5725.00	52.84	68.20	-15.36	1.60	180	43.19	9.65	Vertical	Peak
5725.00	46.55	54.00	-7.45	1.60	180	36.90	9.65	Vertical	Average
11400.00	52.63	68.20	-15.57	1.60	180	31.13	21.50	Vertical	Peak
11400.00	46.12	54.00	-7.88	1.60	180	24.62	21.50	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.									

U-NII-2C_802.11n-HT20_5500MHz									
Frequency (MHz)	Emission 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	49.53	68.20	-18.67	1.50	160	41.03	8.50	Horizontal	Peak
5470.00	42.70	54.00	-11.30	1.50	160	34.20	8.50	Horizontal	Average
11000.00	51.32	68.20	-16.88	1.50	160	30.32	21.00	Horizontal	Peak
11000.00	44.57	54.00	-9.43	1.50	160	23.57	21.00	Horizontal	Average
5470.00	52.39	68.20	-15.81	1.60	180	43.89	8.50	Vertical	Peak
5470.00	45.85	54.00	-8.15	1.60	180	37.35	8.50	Vertical	Average
11000.00	53.38	68.20	-14.82	1.60	180	32.38	21.00	Vertical	Peak
11000.00	46.76	54.00	-7.24	1.60	180	25.76	21.00	Vertical	Average
U-NII-2C_802.11n-HT20_5600MHz									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11200.00	52.30	68.20	-15.90	1.50	160	30.80	21.50	Horizontal	Peak
11200.00	43.92	54.00	-10.08	1.50	160	22.42	21.50	Horizontal	Average
11200.00	53.60	68.20	-14.60	1.60	180	32.10	21.50	Vertical	Peak
11200.00	45.74	54.00	-8.26	1.60	180	24.24	21.50	Vertical	Average
U-NII-2C_802.11n-HT20_5700MHz									
Frequency (MHz)	Emission 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	49.30	68.20	-18.90	1.50	160	39.65	9.65	Horizontal	Peak
5725.00	42.37	54.00	-11.63	1.50	160	32.72	9.65	Horizontal	Average
11400.00	51.77	68.20	-16.43	1.50	160	30.27	21.50	Horizontal	Peak
11400.00	44.90	54.00	-9.10	1.50	160	23.40	21.50	Horizontal	Average
5725.00	52.72	68.20	-15.48	1.60	180	43.07	9.65	Vertical	Peak
5725.00	46.19	54.00	-7.81	1.60	180	36.54	9.65	Vertical	Average
11400.00	53.00	68.20	-15.20	1.60	180	31.50	21.50	Vertical	Peak
11400.00	46.27	54.00	-7.73	1.60	180	24.77	21.50	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.									

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	53.38	68.20	-14.82	1.50	160	43.92	9.46	Horizontal	Peak
5700.00	53.04	105.20	-52.16	1.50	160	43.45	9.59	Horizontal	Peak
5720.00	52.24	110.80	-58.56	1.50	160	42.60	9.64	Horizontal	Peak
5725.00	52.61	122.20	-69.59	1.50	160	42.96	9.65	Horizontal	Peak
11490.00	52.13	68.20	-16.07	1.50	160	30.43	21.70	Horizontal	Peak
11490.00	44.06	54.00	-9.94	1.50	160	22.36	21.70	Horizontal	Average
5650.00	54.15	68.20	-14.05	1.60	180	44.69	9.46	Vertical	Peak
5700.00	53.81	105.20	-51.39	1.60	180	44.22	9.59	Vertical	Peak
5720.00	53.37	110.80	-57.43	1.60	180	43.73	9.64	Vertical	Peak
5725.00	53.19	122.20	-69.01	1.60	180	43.54	9.65	Vertical	Peak
11490.00	52.27	68.20	-15.93	1.60	180	30.57	21.70	Vertical	Peak
11490.00	45.09	54.00	-8.91	1.60	180	23.39	21.70	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	53.32	122.20	-68.88	1.50	160	43.54	9.78	Horizontal	Peak
5855.00	52.84	110.80	-57.96	1.50	160	43.05	9.79	Horizontal	Peak
5875.00	52.50	105.20	-52.70	1.50	160	42.66	9.84	Horizontal	Peak
5925.00	52.47	68.20	-15.73	1.50	160	42.50	9.97	Horizontal	Peak
11650.00	52.23	68.20	-15.97	1.50	160	30.33	21.90	Horizontal	Peak
11650.00	43.74	54.00	-10.26	1.50	160	21.84	21.90	Horizontal	Average
5850.00	54.05	122.20	-68.15	1.60	180	44.27	9.78	Vertical	Peak
5855.00	53.84	110.80	-56.96	1.60	180	44.05	9.79	Vertical	Peak
5875.00	52.97	105.20	-52.23	1.60	180	43.13	9.84	Vertical	Peak
5925.00	52.72	68.20	-15.48	1.60	180	42.75	9.97	Vertical	Peak
11650.00	52.05	68.20	-16.15	1.60	180	30.15	21.90	Vertical	Peak
11650.00	45.28	54.00	-8.72	1.60	180	23.38	21.90	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.									



U-NII-3_802.11n-HT20_5745MHz									
Frequency (MHz)	Emission 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	53.90	68.20	-14.30	1.50	160	44.44	9.46	Horizontal	Peak
5700.00	53.13	105.20	-52.07	1.50	160	43.54	9.59	Horizontal	Peak
5720.00	52.32	110.80	-58.48	1.50	160	42.68	9.64	Horizontal	Peak
5725.00	52.41	122.20	-69.79	1.50	160	42.76	9.65	Horizontal	Peak
11490.00	52.46	68.20	-15.74	1.50	160	30.76	21.70	Horizontal	Peak
11490.00	44.30	54.00	-9.70	1.50	160	22.60	21.70	Horizontal	Average
5650.00	54.09	68.20	-14.11	1.60	180	44.63	9.46	Vertical	Peak
5700.00	53.43	105.20	-51.77	1.60	180	43.84	9.59	Vertical	Peak
5720.00	52.24	110.80	-58.56	1.60	180	42.60	9.64	Vertical	Peak
5725.00	52.65	122.20	-69.55	1.60	180	43.00	9.65	Vertical	Peak
11490.00	51.72	68.20	-16.48	1.60	180	30.02	21.70	Vertical	Peak
11490.00	45.08	54.00	-8.92	1.60	180	23.38	21.70	Vertical	Average
U-NII-3_802.11n-HT20_5825MHz									
Frequency (MHz)	Emission 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	53.59	122.20	-68.61	1.50	160	43.81	9.78	Horizontal	Peak
5855.00	53.26	110.80	-57.54	1.50	160	43.47	9.79	Horizontal	Peak
5875.00	52.06	105.20	-53.14	1.50	160	42.22	9.84	Horizontal	Peak
5925.00	52.25	68.20	-15.95	1.50	160	42.28	9.97	Horizontal	Peak
11650.00	52.14	68.20	-16.06	1.50	160	30.24	21.90	Horizontal	Peak
11650.00	43.93	54.00	-10.07	1.50	160	22.03	21.90	Horizontal	Average
5850.00	53.65	122.20	-68.55	1.60	180	43.87	9.78	Vertical	Peak
5855.00	53.46	110.80	-57.34	1.60	180	43.67	9.79	Vertical	Peak
5875.00	52.52	105.20	-52.68	1.60	180	42.68	9.84	Vertical	Peak
5925.00	52.98	68.20	-15.22	1.60	180	43.01	9.97	Vertical	Peak
11650.00	51.95	68.20	-16.25	1.60	180	30.05	21.90	Vertical	Peak
11650.00	45.54	54.00	-8.46	1.60	180	23.64	21.90	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.									

**U-NII-3_802.11a_5785MHz**

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	52.15	68.20	-16.05	1.50	160	30.45	21.70	Horizontal	Peak
11570.00	44.02	54.00	-9.98	1.50	160	22.32	21.70	Horizontal	Average
11570.00	53.49	68.20	-14.71	1.60	180	31.79	21.70	Vertical	Peak
11570.00	45.54	54.00	-8.46	1.60	180	23.84	21.70	Vertical	Average

U-NII-3_802.11n-HT20_5785MHz

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	52.28	68.20	-15.92	1.50	160	30.58	21.70	Horizontal	Peak
11570.00	44.31	54.00	-9.69	1.50	160	22.61	21.70	Horizontal	Average
11570.00	53.32	68.20	-14.88	1.60	180	31.62	21.70	Vertical	Peak
11570.00	45.94	54.00	-8.06	1.60	180	24.24	21.70	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.

2.7. AC Power Line Conducted Emission

2.7.1. Limit of AC Power Line Conducted Emission

FCC 15.207,

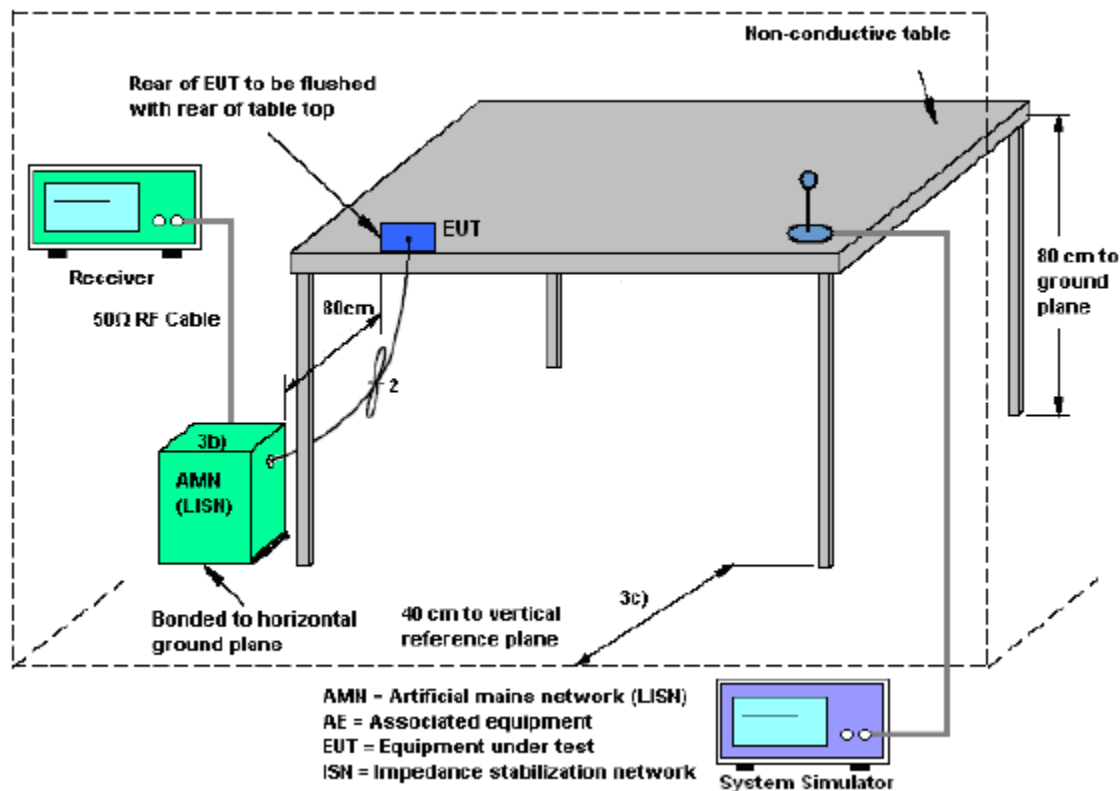
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dBμV)	
	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

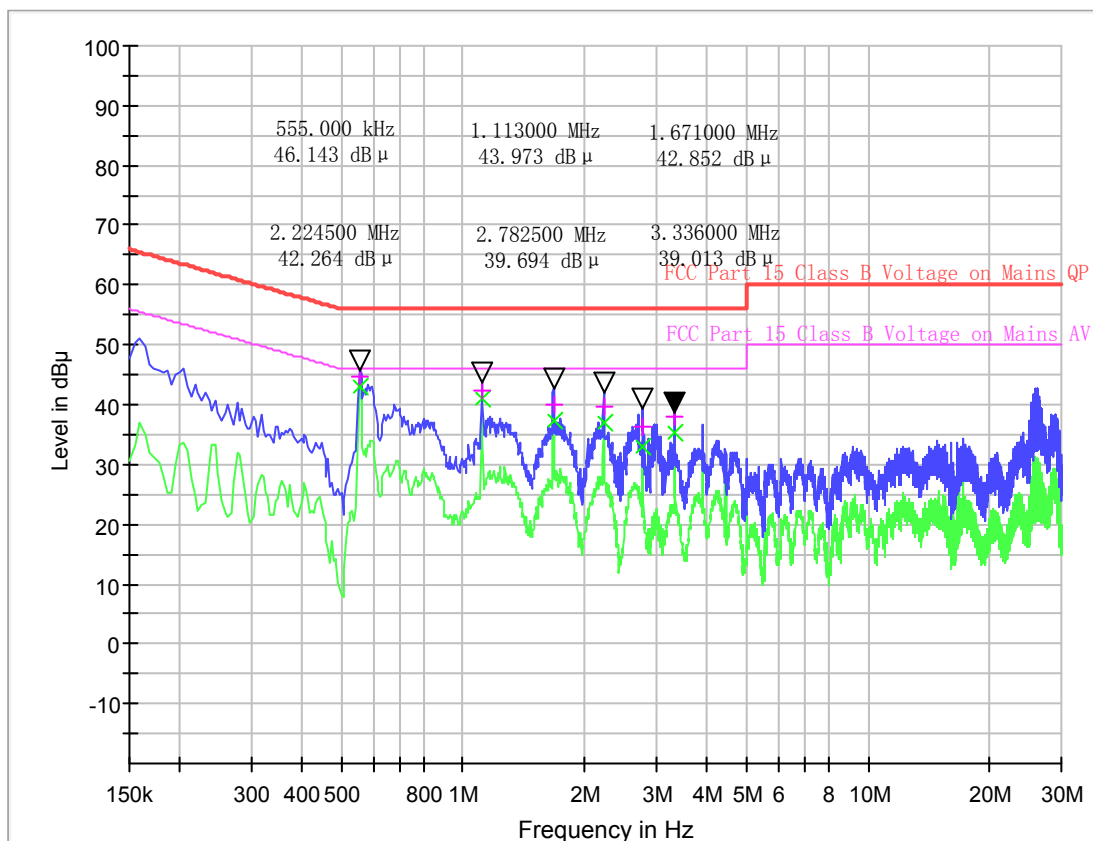


2.7.4. Test Procedures

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.

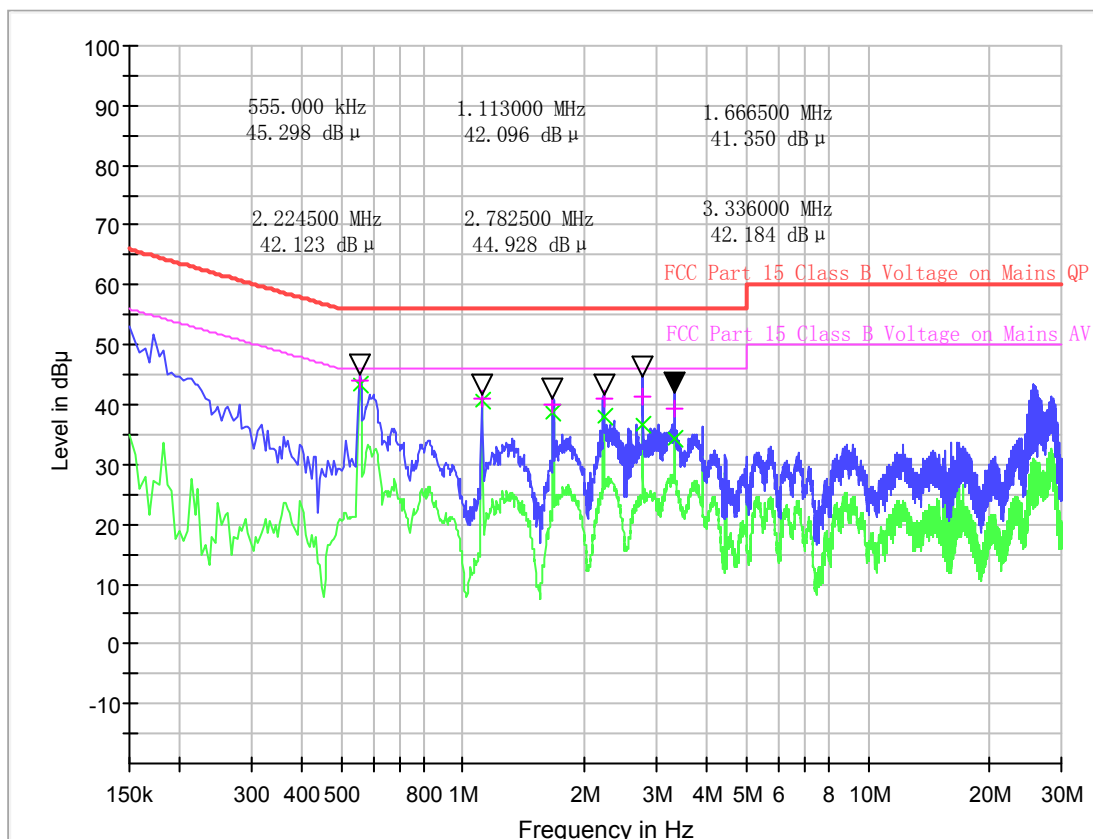
2.7.5. Test Results of Conducted Emission

The EUT configuration of the emission tests is 5G WLAN Link + USB Cable (Charging from Adapter)



(Plot A: L Phase)

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V)	Margin - AV (dB)	Limit - AV (dB μ V)
0.555000	44.54	43.12	0.2	10.2	11.46	56.0	2.88	46.0
1.113000	42.25	40.90	0.2	10.2	13.75	56.0	5.10	46.0
1.671000	39.91	37.19	0.2	10.2	16.09	56.0	8.81	46.0
2.224500	39.62	36.87	0.2	10.2	16.38	56.0	9.13	46.0
2.782500	36.37	33.02	0.2	10.2	19.63	56.0	12.98	46.0
3.336000	38.02	35.24	0.3	10.3	17.98	56.0	10.76	46.0



(Plot A: NPhase)

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.555000	44.17	43.20	0.2	10.2	11.83	56.0	2.80	46.0
1.113000	41.15	40.76	0.2	10.2	14.85	56.0	5.24	46.0
1.666500	39.97	38.73	0.2	10.2	16.03	56.0	7.27	46.0
2.224500	40.94	38.03	0.2	10.2	15.06	56.0	7.97	46.0
2.782500	41.48	36.72	0.2	10.2	14.52	56.0	9.28	46.0
3.336000	39.33	34.23	0.3	10.3	16.67	56.0	11.77	46.0

Test result:PASS

Note: Correction factor=Cabel loss+ attenuation factor
attenuation factor=10dB

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI TEST RECEIVER	KEYSIGHT	N9038A	A141202036	2021.04.26	2022.04.25
2	Power Meter	R&S	NRP-Z31	102872	2021.04.26	2022.04.25
3	TURNTABLE	ETS	2088	2149	N/A	N/A
4	ANTENNA MAST	ETS	2075	2346	N/A	N/A
5	EMI TEST Software	R&S	ESK1	N/A	N/A	N/A
6	Horn antenna (18GHz~26.5GHz)	AR	AT4003A	325306	2020.09.16	2022.09.15
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2021.01.26	2022.01.25
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/40 0	A160302517	2021.01.26	2022.01.25
9	High pass filter	Compliance Direction systems	BSU-6	34202	2021.11.09	2022.11.08
10	Horn Antenna	R&S	HF906	A0304225	2019.04.17	2022.04.16
11	Horn Antenna	R&S	ESIB7	A0501375	2020.06.24	2022.06.22
12	ULTRA-BROADBAND ANTENNA	SCHWARZBEC K	VULB9160	A0805560	2019.05.24	2022.05.23
13	Passive Loop Antenna	R&S	HFH2-Z2	100047	2019.04.26	2022.04.25
14	Temperature chamber	TABAI	PS-232	A8708054	2021.09.24	2022.09.23
15	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2021.04.26	2022.04.25
16	Power Supply	R&S	ESIB26	A0304218	2021.01.04	2022.01.03
17	LISN	ROHDE&SCH WARZ	ENV216	A140701847	2021.08.11	2022.08.10
18	Test software	ECIT	Eagle	V2.0	N/A	N/A

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. 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 Conducted Emission Measurement (150KHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	5.0dB
---	-------

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

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	5.1dB
---	-------

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

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	5.1dB
---	-------

Appendix A

Output power

Test results

U-NII-1 AVGSA Output Power				
Mode	Test Frequency (MHz)	Max Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5180	6.29	24	Pass
802.11n (20MHz)	5220	5.46	24	Pass
802.11n (20MHz)	5240	5.81	24	Pass
802.11a (20MHz)	5180	6.12	24	Pass
802.11a (20MHz)	5220	5.48	24	Pass
802.11a (20MHz)	5240	5.71	24	Pass

U-NII-2A AVGSA Output Power				
Mode	Test Frequency (MHz)	Max Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5260	4.67	24	Pass
802.11n (20MHz)	5300	5.73	24	Pass
802.11n (20MHz)	5320	5.38	24	Pass
802.11a (20MHz)	5260	4.46	24	Pass
802.11a (20MHz)	5300	5.42	24	Pass
802.11a (20MHz)	5320	5.16	24	Pass

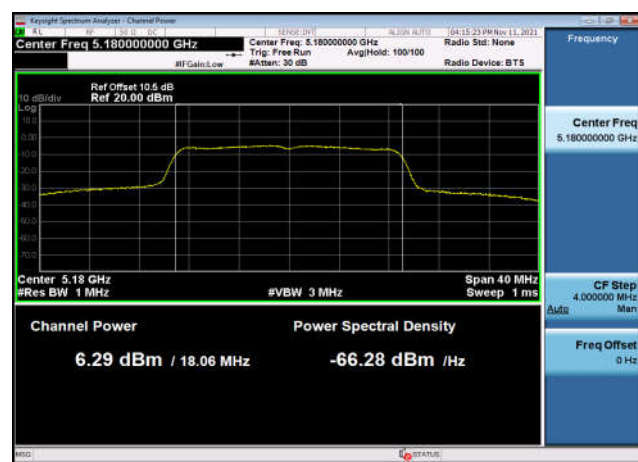


U-NII-2C AVGSA Output Power				
Mode	Test Frequency (MHz)	Max Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5500	7.80	24	Pass
802.11n (20MHz)	5600	8.54	24	Pass
802.11n (20MHz)	5700	8.48	24	Pass
802.11a (20MHz)	5500	7.65	24	Pass
802.11a (20MHz)	5600	8.27	24	Pass
802.11a (20MHz)	5700	8.04	24	Pass

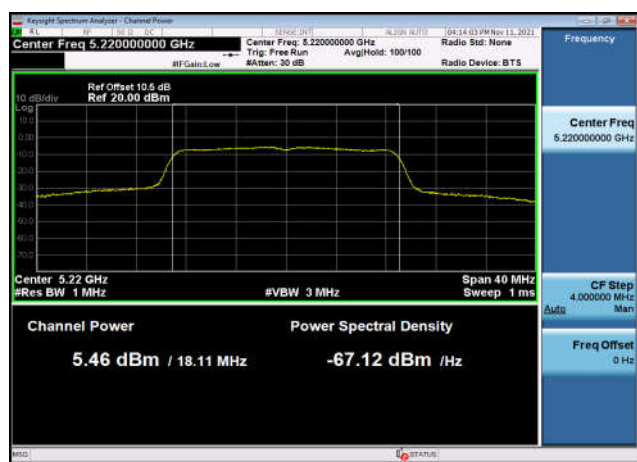
U-NII-3 AVGSA Output Power				
Mode	Test Frequency (MHz)	Max Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5745	6.38	30	Pass
802.11n (20MHz)	5785	5.94	30	Pass
802.11n (20MHz)	5825	5.36	30	Pass
802.11a (20MHz)	5745	6.25	30	Pass
802.11a (20MHz)	5785	5.85	30	Pass
802.11a (20MHz)	5825	5.20	30	Pass

Test plots

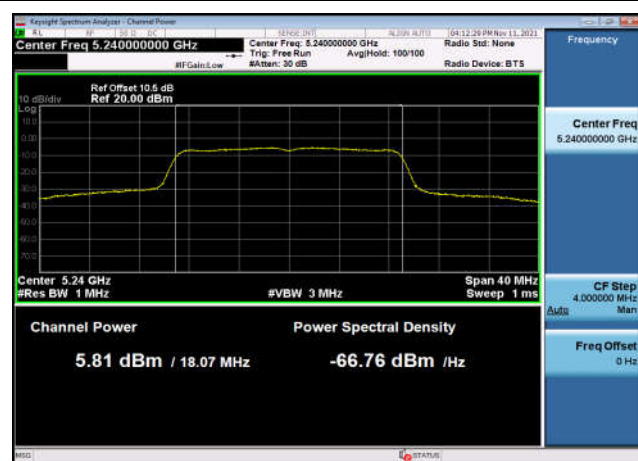
U-NII-1 Output Power-802.11n(20MHz)
,5180MHz,Ant1



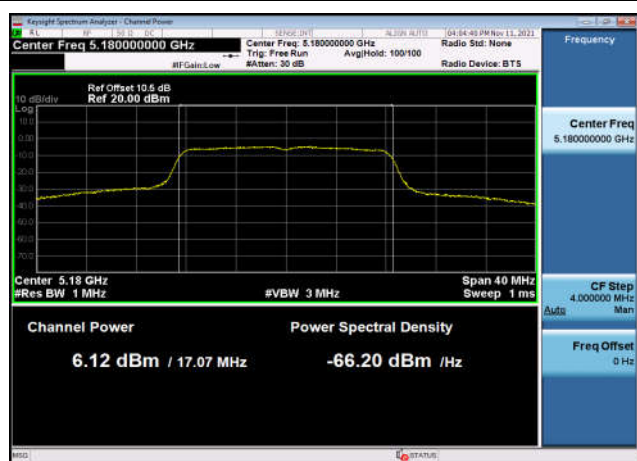
U-NII-1 Output Power-802.11n(20MHz)
,5220MHz,Ant1



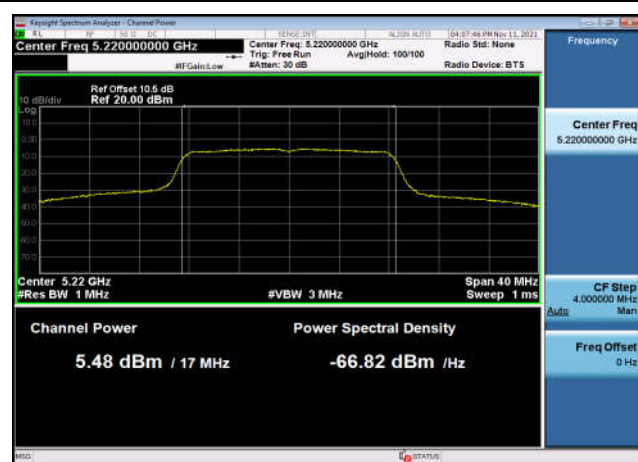
U-NII-1 Output Power-802.11n(20MHz)
,5240MHz,Ant1



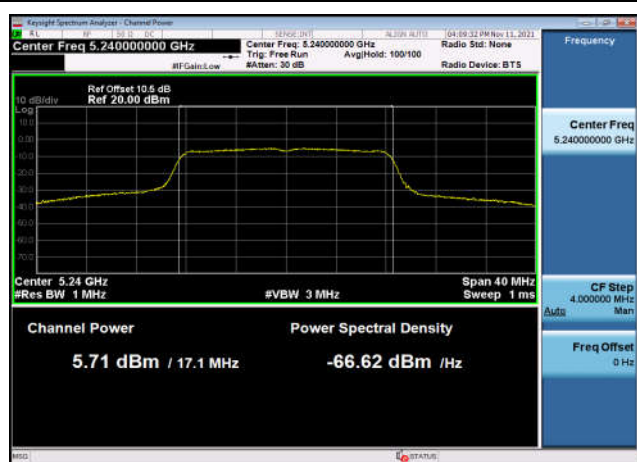
U-NII-1 Output Power-802.11a(20MHz)
,5180MHz,Ant1



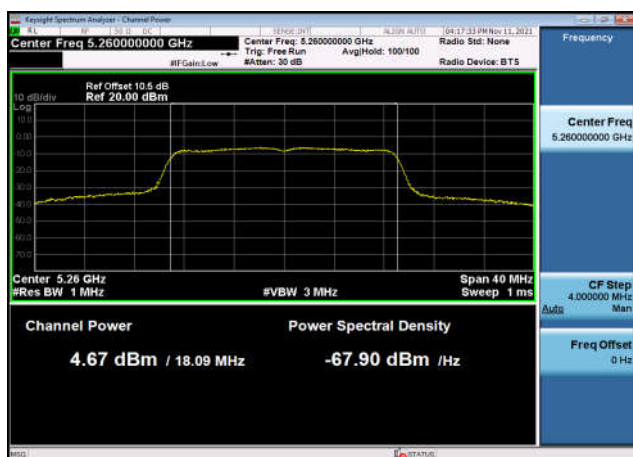
U-NII-1 Output Power-802.11a(20MHz)
,5220MHz,Ant1



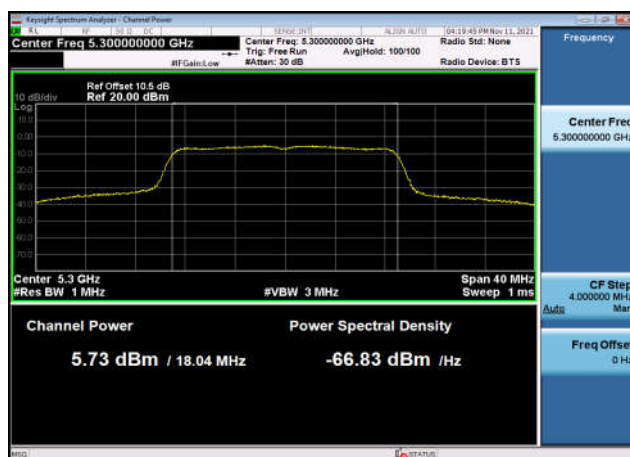
U-NII-1 Output Power-802.11a(20MHz)
,5240MHz,Ant1



U-NII-2a Output Power-802.11n(20MHz)
,5260MHz,Ant1



U-NII-2a Output Power-802.11n(20MHz)
,5300MHz,Ant1



U-NII-2a Output Power-802.11n(20MHz)
,5320MHz,Ant1



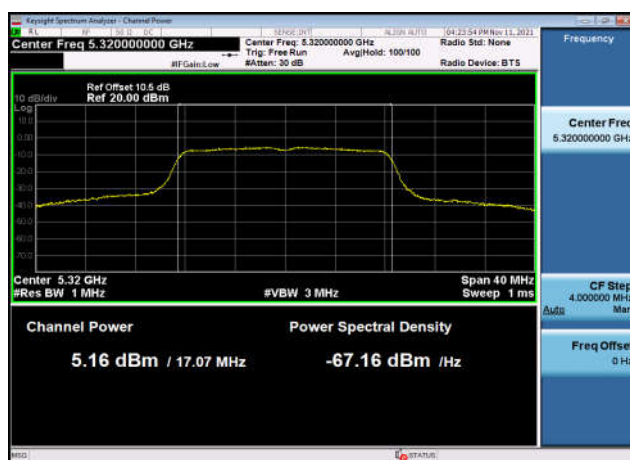
U-NII-2a Output Power-802.11a(20MHz)
,5260MHz,Ant1



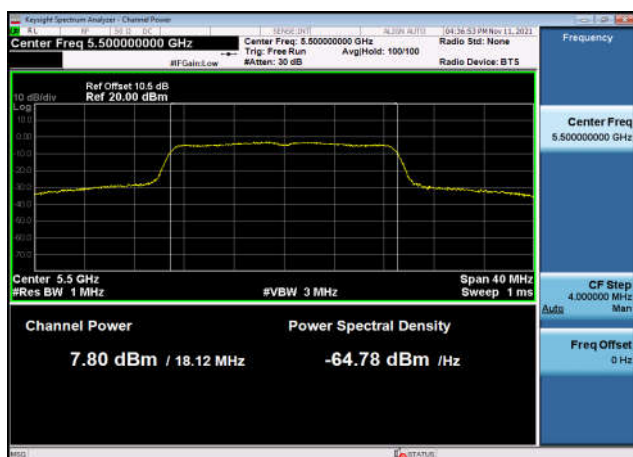
U-NII-2a Output Power-802.11a(20MHz)
,5300MHz,Ant1



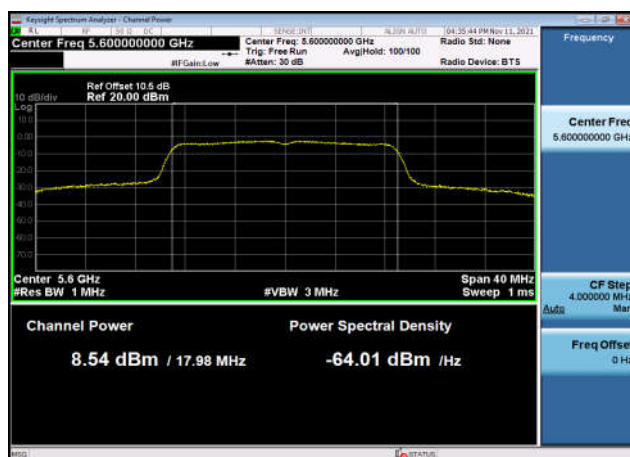
U-NII-2a Output Power-802.11a(20MHz)
,5320MHz,Ant1



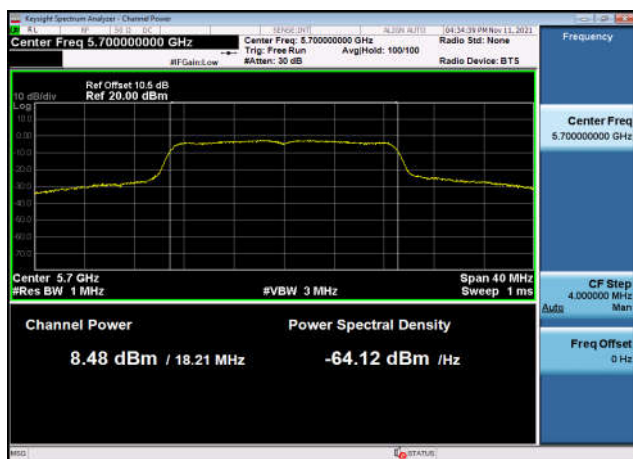
U-NII-2c Output Power-802.11n(20MHz)
,5500MHz,Ant1



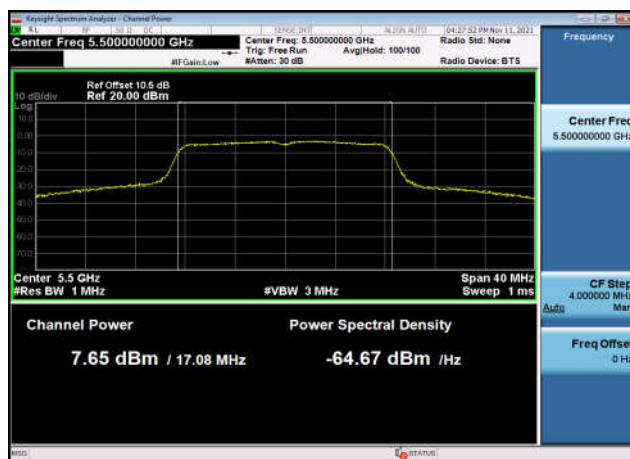
U-NII-2c Output Power-802.11n(20MHz)
,5600MHz,Ant1



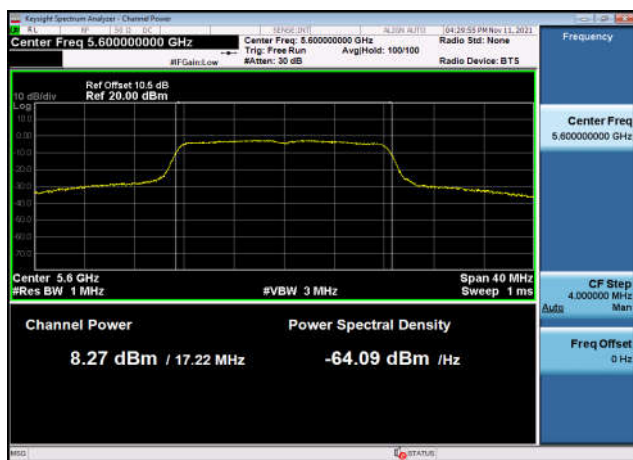
U-NII-2c Output Power-802.11n(20MHz)
,5700MHz,Ant1



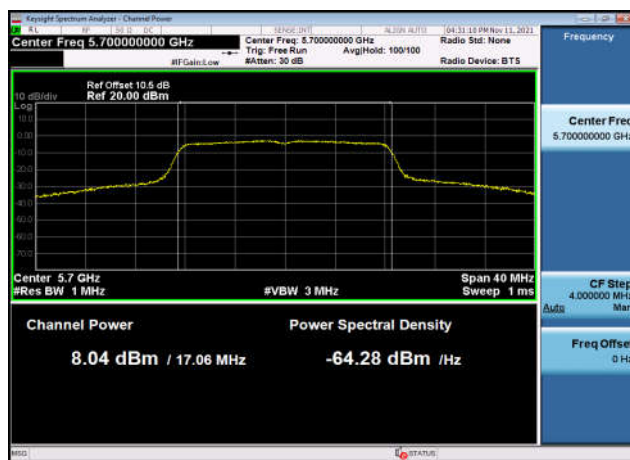
U-NII-2c Output Power-802.11a(20MHz)
,5500MHz,Ant1



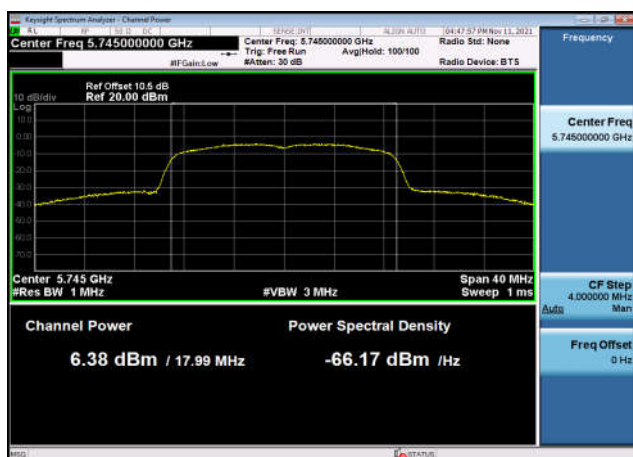
U-NII-2c Output Power-802.11a(20MHz)
,5600MHz,Ant1



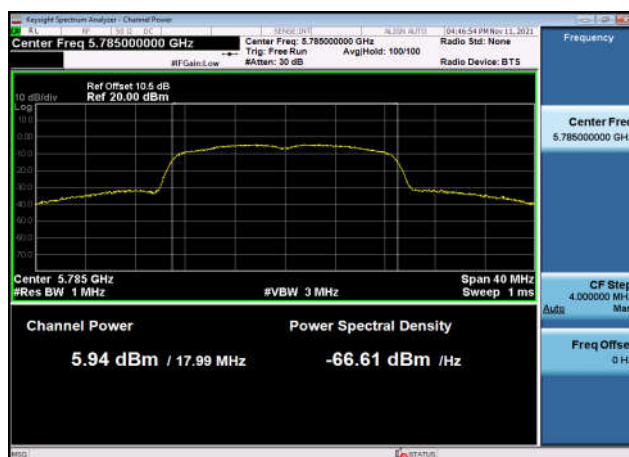
U-NII-2c Output Power-802.11a(20MHz)
,5700MHz,Ant1



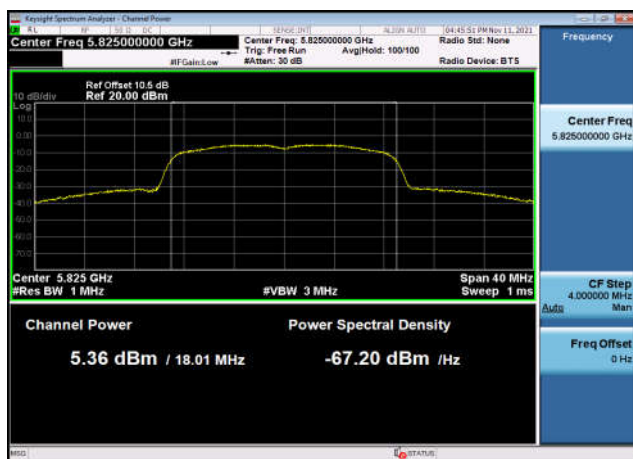
U-NII-3 Output Power-802.11n(20MHz)
,5745MHz,Ant1



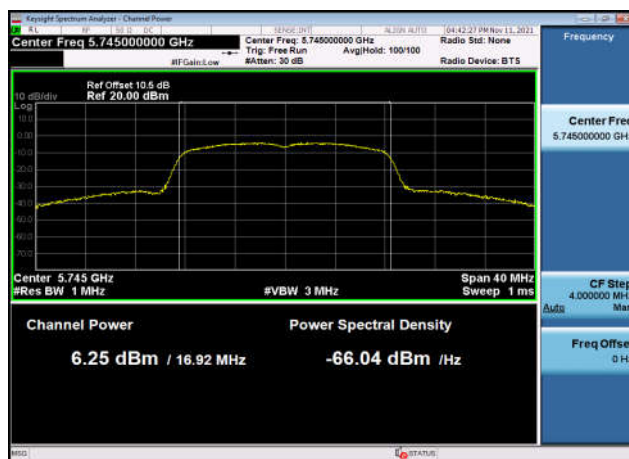
U-NII-3 Output Power-802.11n(20MHz)
,5785MHz,Ant1



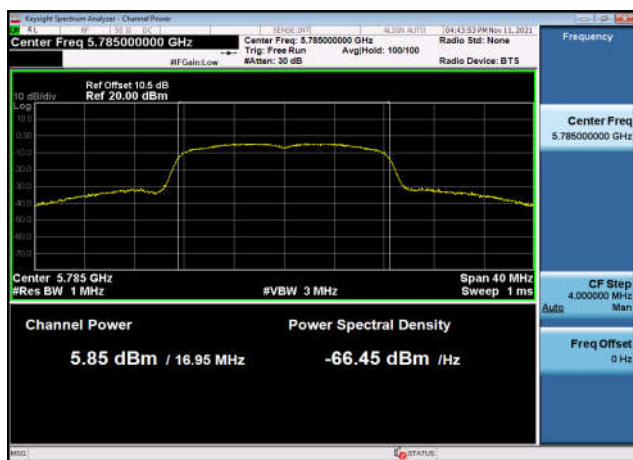
U-NII-3 Output Power-802.11n(20MHz)
,5825MHz,Ant1



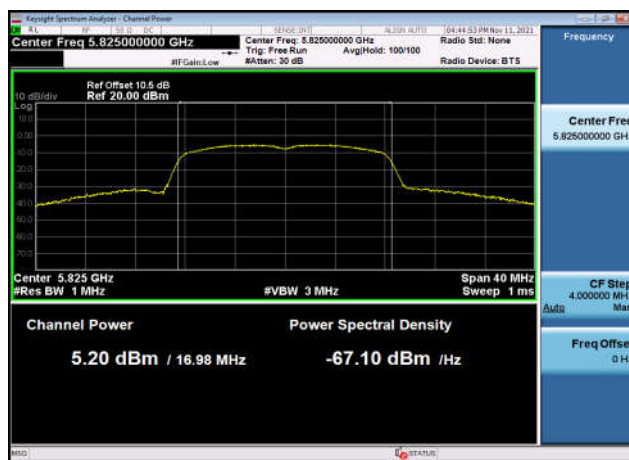
U-NII-3 Output Power-802.11a(20MHz)
,5745MHz,Ant1



U-NII-3 Output Power-802.11a(20MHz)
,5785MHz,Ant1



U-NII-3 Output Power-802.11a(20MHz)
,5825MHz,Ant1



AVGSA Power Spectral Density

Test Result and Data

U-NII-1 AVGSA Power Spectral Density				
Mode	Test Frequency (MHz)	PSD (dBm/1MHz)	Limit (dBm/1MHz)	Result
802.11n (20MHz)	5180	-3.407	11	Pass
802.11n (20MHz)	5220	-4.535	11	Pass
802.11n (20MHz)	5240	-4.302	11	Pass
802.11a (20MHz)	5180	-3.246	11	Pass
802.11a (20MHz)	5220	-4.823	11	Pass
802.11a (20MHz)	5240	-4.798	11	Pass

U-NII-2A AVGSA Power Spectral Density				
Mode	Test Frequency (MHz)	PSD (dBm/1MHz)	Limit (dBm/1MHz)	Result
802.11n (20MHz)	5260	-5.691	11	Pass
802.11n (20MHz)	5300	-4.494	11	Pass
802.11n (20MHz)	5320	-4.550	11	Pass
802.11a (20MHz)	5260	-5.369	11	Pass
802.11a (20MHz)	5300	-4.721	11	Pass
802.11a (20MHz)	5320	-4.721	11	Pass



U-NII-2C AVGSA Power Spectral Density				
Mode	Test Frequency (MHz)	PSD (dBm/1MHz)	Limit (dBm/1MHz)	Result
802.11n (20MHz)	5500	-2.208	11	Pass
802.11n (20MHz)	5600	-1.985	11	Pass
802.11n (20MHz)	5700	-2.364	11	Pass
802.11a (20MHz)	5500	-2.659	11	Pass
802.11a (20MHz)	5600	-1.722	11	Pass
802.11a (20MHz)	5700	-2.105	11	Pass

U-NII-3 AVGSA Power Spectral Density						
Mode	Test Frequency (MHz)	PSD (dBm/510KHz)	Correction factor	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
802.11n (20MHz)	5745	-6.856	-0.086	-6.942	30	Pass
802.11n (20MHz)	5785	-7.297	-0.086	-7.383	30	Pass
802.11n (20MHz)	5825	-7.554	-0.086	-7.640	30	Pass
802.11a (20MHz)	5745	-6.846	-0.086	-6.932	30	Pass
802.11a (20MHz)	5785	-7.269	-0.086	-7.355	30	Pass
802.11a (20MHz)	5825	-7.860	-0.086	-7.946	30	Pass
Remark: Final result showed in report was corrected by reading level showed in test plots + correction factor. Correction factor = $10 \log (500 \text{ kHz}_{\text{Reference}} / 510 \text{ KHz}_{\text{Measured}}) = -0.086$						

Test Plots

U-NII-1 Power spectral density-802.11
n(20MHz),5180MHz,Ant1



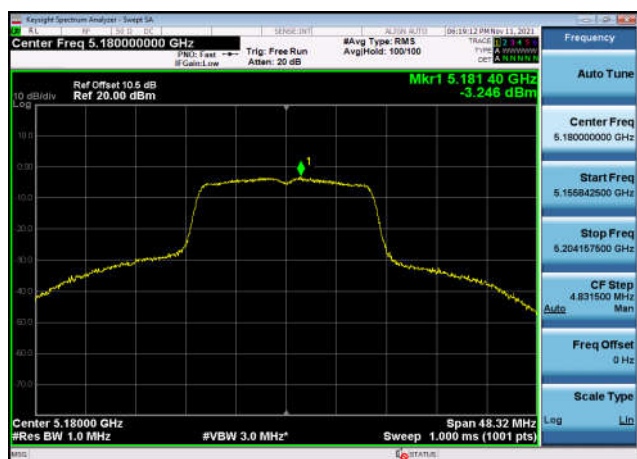
U-NII-1 Power spectral density-802.11
n(20MHz),5220MHz,Ant1



U-NII-1 Power spectral density-802.11
n(20MHz),5240MHz,Ant1



U-NII-1 Power spectral density-802.11
a(20MHz),5180MHz,Ant1



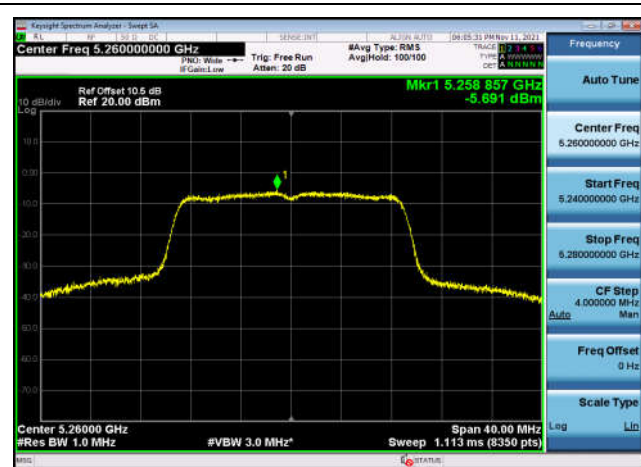
U-NII-1 Power spectral density-802.11
a(20MHz),5220MHz,Ant1



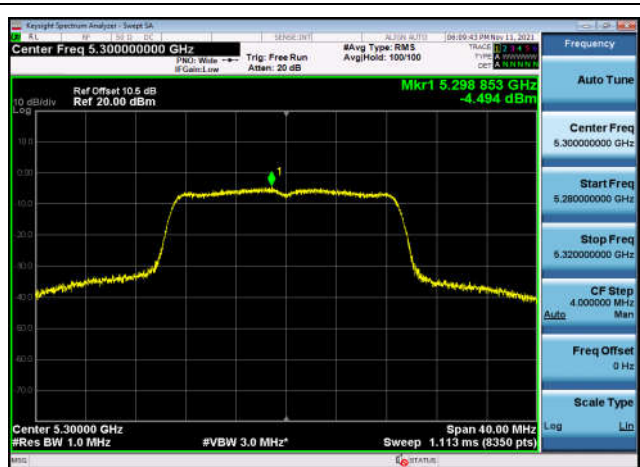
U-NII-1 Power spectral density-802.11
a(20MHz),5240MHz,Ant1



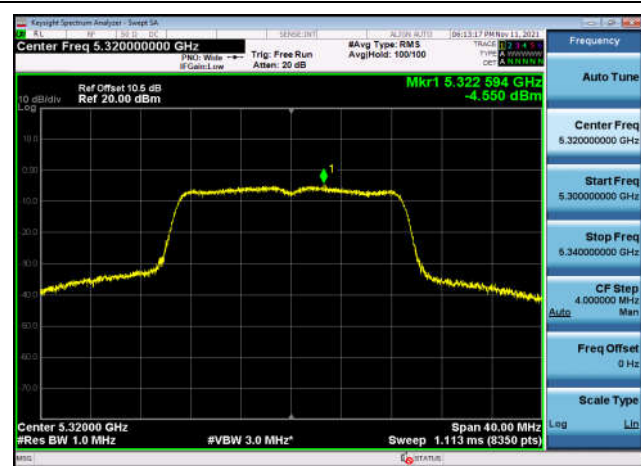
U-NII-2a Power spectral density-802.1
1n(20MHz),5260MHz,Ant1



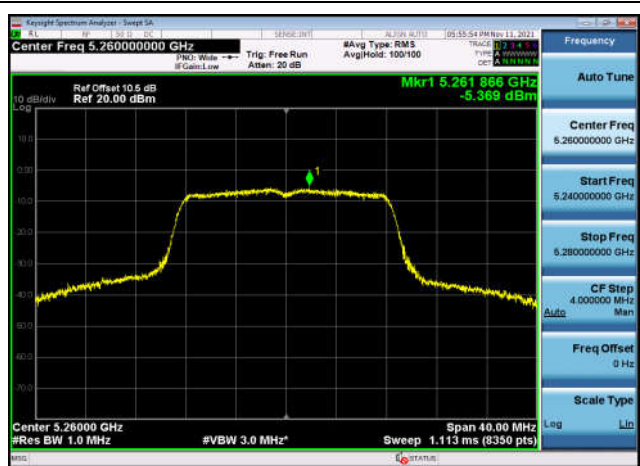
U-NII-2a Power spectral density-802.1
1n(20MHz),5300MHz,Ant1



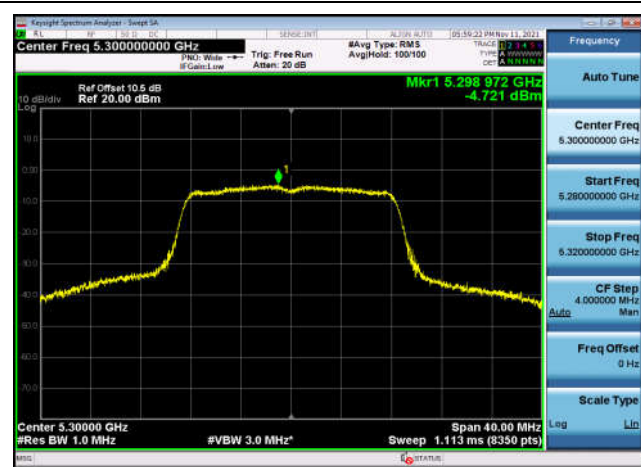
U-NII-2a Power spectral density-802.1
1n(20MHz),5320MHz,Ant1



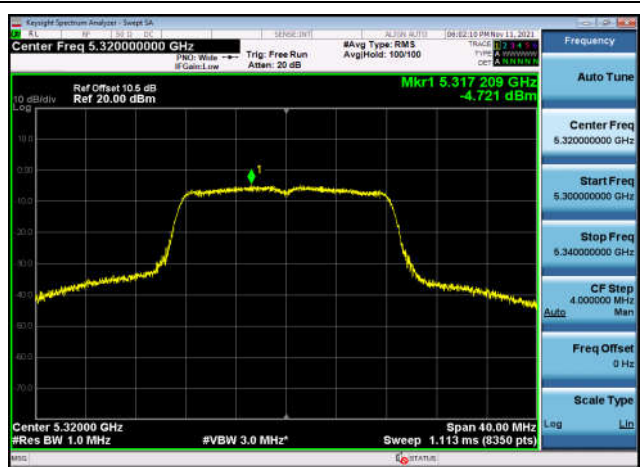
U-NII-2a Power spectral density-802.1
1a(20MHz),5260MHz,Ant1



U-NII-2a Power spectral density-802.1
1a(20MHz),5300MHz,Ant1



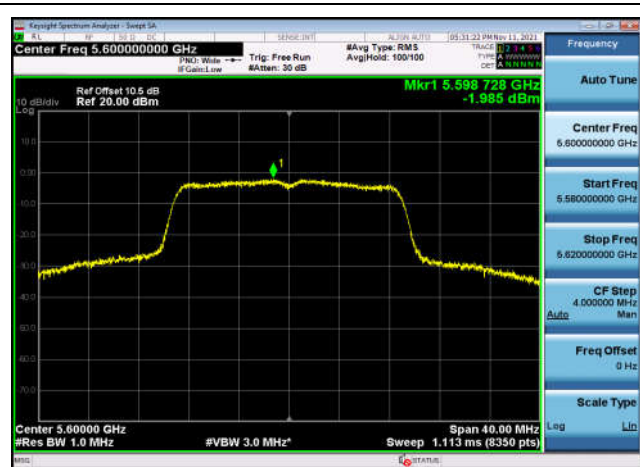
U-NII-2a Power spectral density-802.1
1a(20MHz),5320MHz,Ant1



U-NII-2c Power spectral density-802.1
1n(20MHz),5500MHz,Ant1



U-NII-2c Power spectral density-802.1
1n(20MHz),5600MHz,Ant1



U-NII-2c Power spectral density-802.1
1n(20MHz),5700MHz,Ant1



U-NII-2c Power spectral density-802.1
1a(20MHz),5500MHz,Ant1



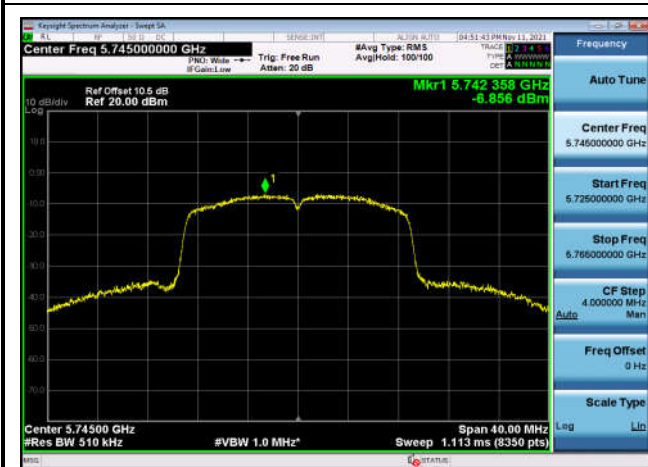
U-NII-2c Power spectral density-802.1
1a(20MHz),5600MHz,Ant1



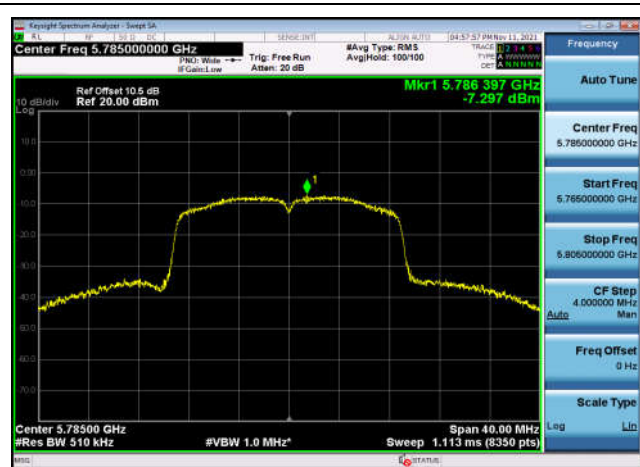
U-NII-2c Power spectral density-802.1
1a(20MHz),5700MHz,Ant1



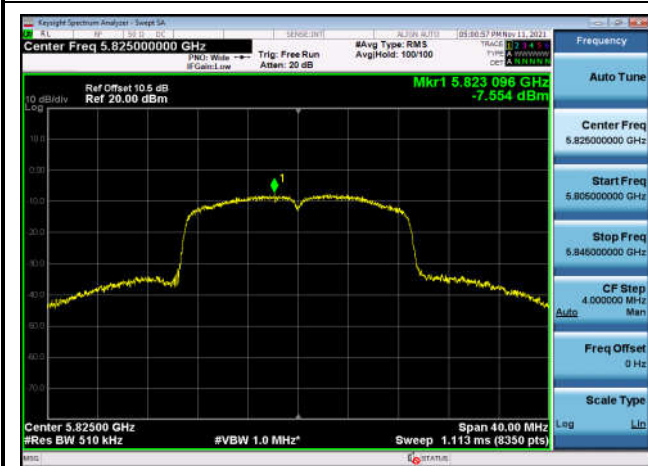
U-NII-3 Power spectral density-802.11
n(20MHz),5745MHz,Ant1



U-NII-3 Power spectral density-802.11
n(20MHz),5785MHz,Ant1



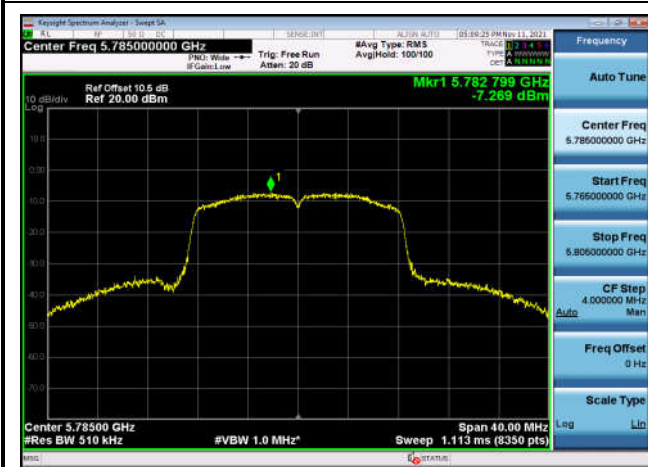
U-NII-3 Power spectral density-802.11
n(20MHz),5825MHz,Ant1



U-NII-3 Power spectral density-802.11
a(20MHz),5745MHz,Ant1



U-NII-3 Power spectral density-802.11
a(20MHz),5785MHz,Ant1



U-NII-3 Power spectral density-802.11
a(20MHz),5825MHz,Ant1



26dB Down Bandwidth

Test Result and Data

U-NII-1 Occupied 26dB Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5180	32.47	Pass
802.11n (20MHz)	5220	34.67	Pass
802.11n (20MHz)	5240	31.37	Pass
802.11a (20MHz)	5180	32.21	Pass
802.11a (20MHz)	5220	28.54	Pass
802.11a (20MHz)	5240	26.76	Pass

U-NII-2a Occupied 26dB Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5260	24.46	Pass
802.11n (20MHz)	5300	25.99	Pass
802.11n (20MHz)	5320	26.19	Pass
802.11a (20MHz)	5260	22.79	Pass
802.11a (20MHz)	5300	21.39	Pass
802.11a (20MHz)	5320	23.41	Pass

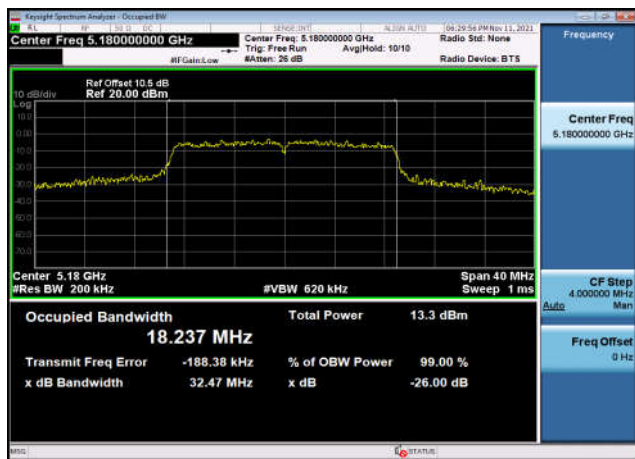


U-NII-2c Occupied 26dB Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5500	33.14	Pass
802.11n (20MHz)	5600	35.26	Pass
802.11n (20MHz)	5700	36.28	Pass
802.11a (20MHz)	5500	30.57	Pass
802.11a (20MHz)	5600	30.46	Pass
802.11a (20MHz)	5700	29.77	Pass

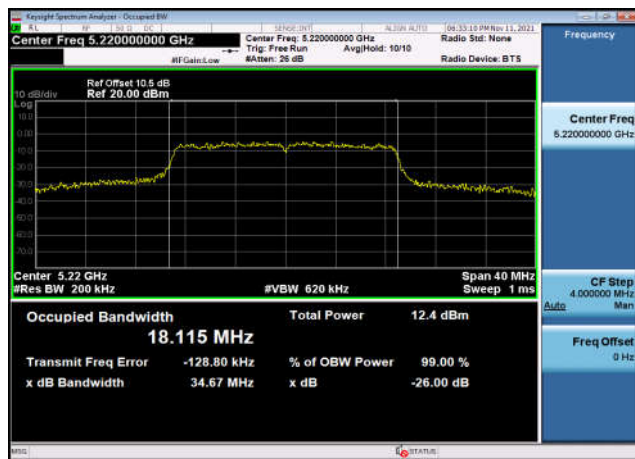
U-NII-3 Occupied 26dB Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5745	28.12	Pass
802.11n (20MHz)	5785	30.04	Pass
802.11n (20MHz)	5825	30.18	Pass
802.11a (20MHz)	5745	23.27	Pass
802.11a (20MHz)	5785	28.05	Pass
802.11a (20MHz)	5825	28.94	Pass

Test Plots

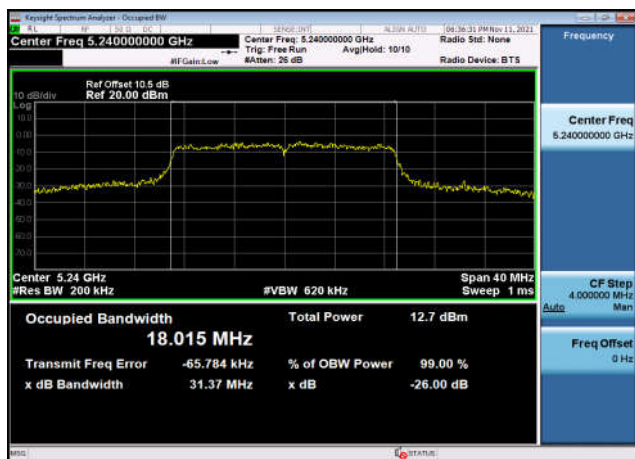
U-NII-1 26dB Bandwidth-802.11n(20MHz)
,5180MHz,Ant1



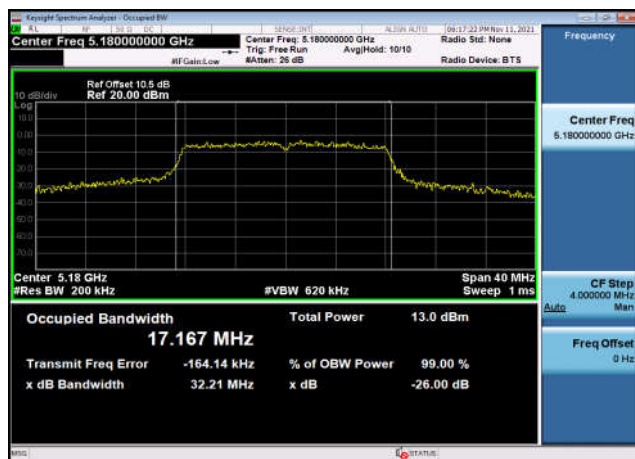
U-NII-1 26dB Bandwidth-802.11n(20MHz)
,5220MHz,Ant1



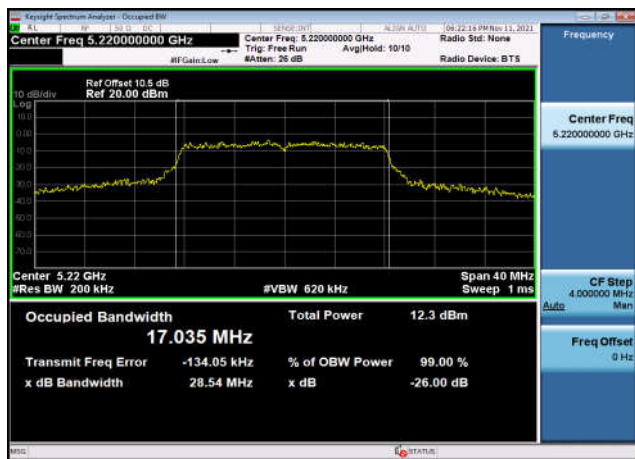
U-NII-1 26dB Bandwidth-802.11n(20MHz)
,5240MHz,Ant1



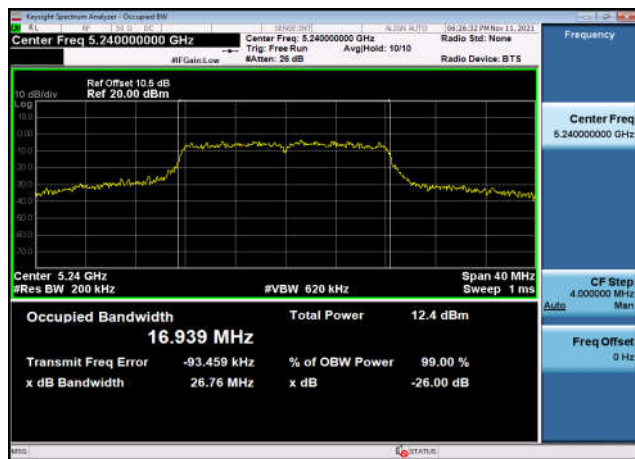
U-NII-1 26dB Bandwidth-802.11a(20MHz)
,5180MHz,Ant1



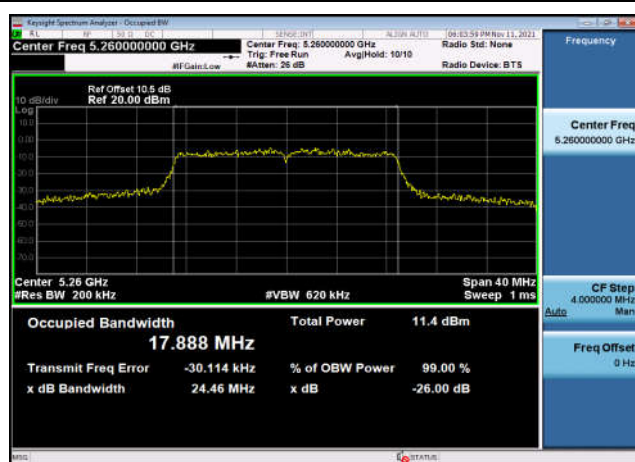
U-NII-1 26dB Bandwidth-802.11a(20MHz)
,5220MHz,Ant1



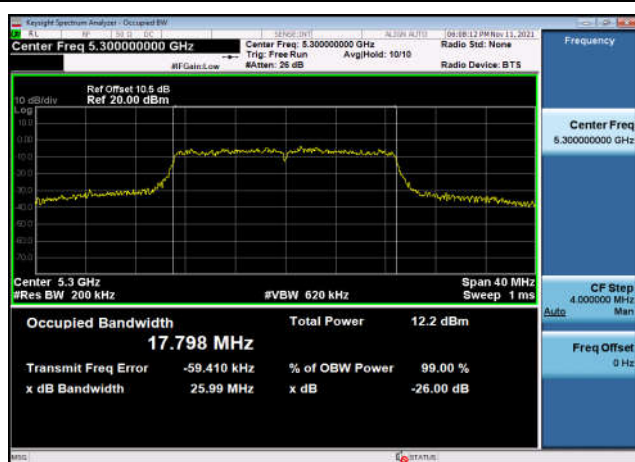
U-NII-1 26dB Bandwidth-802.11a(20MHz)
,5240MHz,Ant1



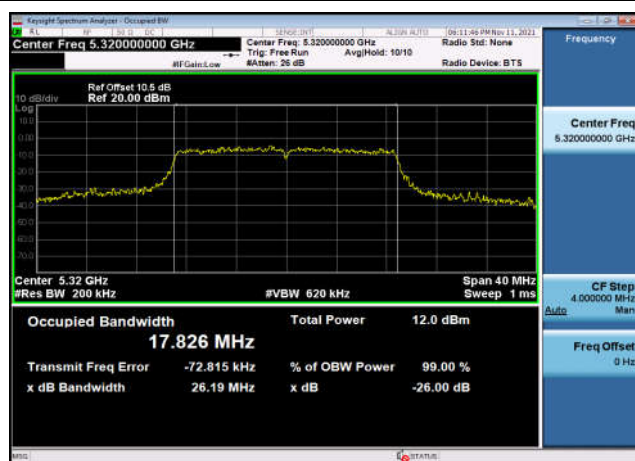
U-NII-2a 26dB Bandwidth-802.11n(20MHz
) ,5260MHz,Ant1



U-NII-2a 26dB Bandwidth-802.11n(20MHz
) ,5300MHz,Ant1



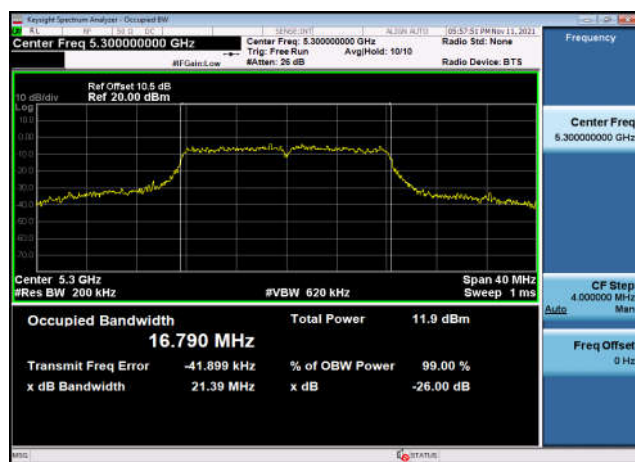
U-NII-2a 26dB Bandwidth-802.11n(20MHz
) ,5320MHz,Ant1



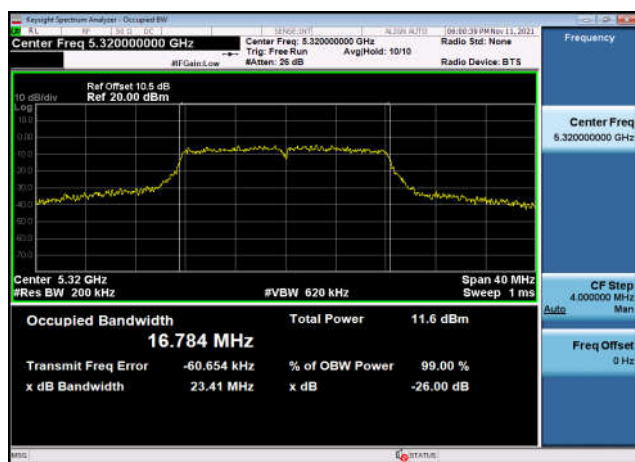
U-NII-2a 26dB Bandwidth-802.11a(20MHz
) ,5260MHz,Ant1



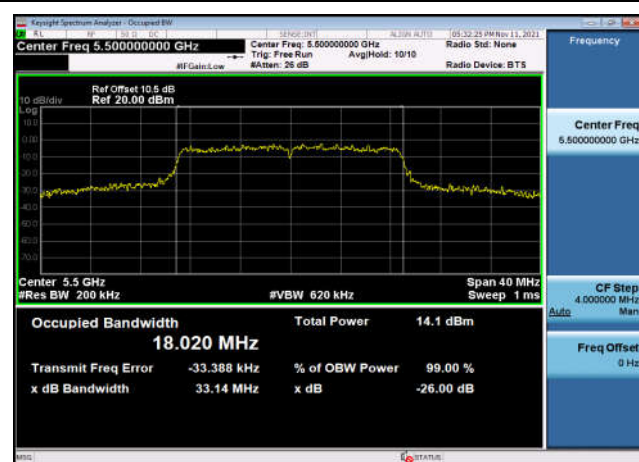
U-NII-2a 26dB Bandwidth-802.11a(20MHz
) ,5300MHz,Ant1



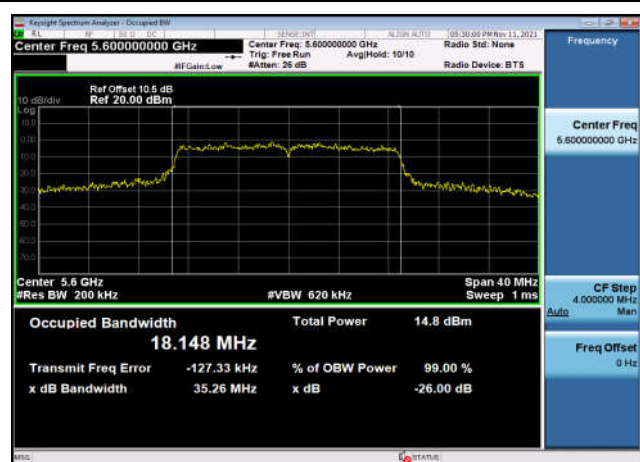
U-NII-2a 26dB Bandwidth-802.11a(20MHz
) ,5320MHz,Ant1



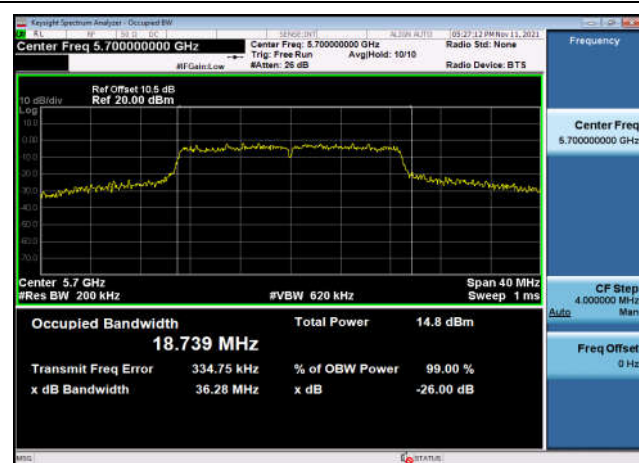
U-NII-2c 26dB Bandwidth-802.11n(20MHz
) ,5500MHz,Ant1



U-NII-2c 26dB Bandwidth-802.11n(20MHz
) ,5600MHz,Ant1



U-NII-2c 26dB Bandwidth-802.11n(20MHz
) ,5700MHz,Ant1



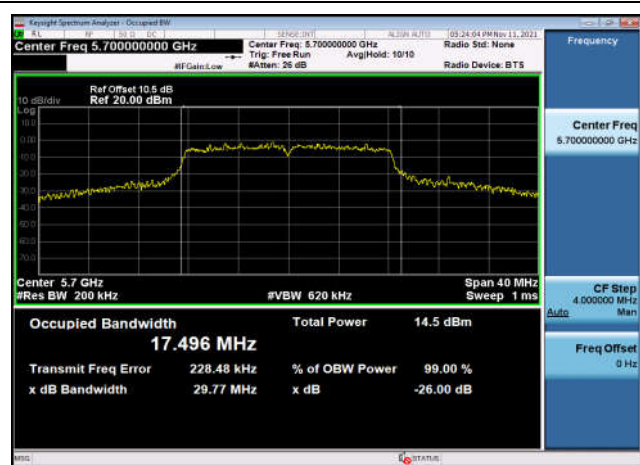
U-NII-2c 26dB Bandwidth-802.11a(20MHz
) ,5500MHz,Ant1



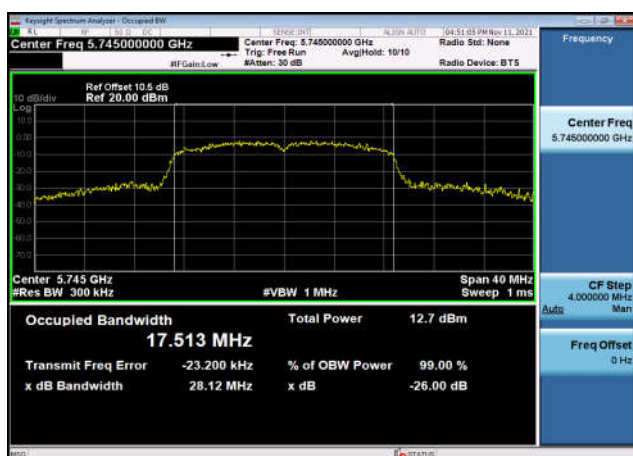
U-NII-2c 26dB Bandwidth-802.11a(20MHz
) ,5600MHz,Ant1



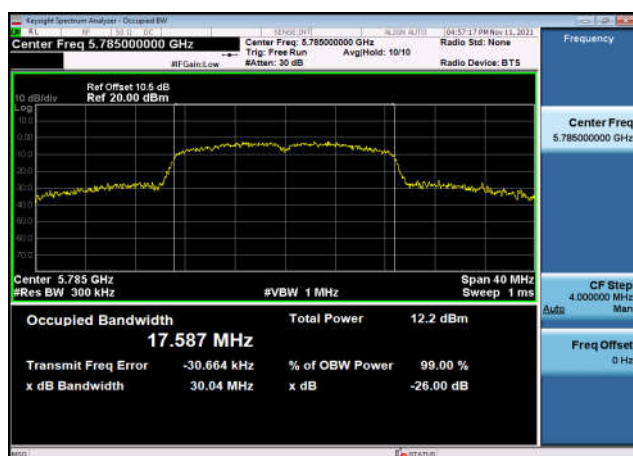
U-NII-2c 26dB Bandwidth-802.11a(20MHz
) ,5700MHz,Ant1



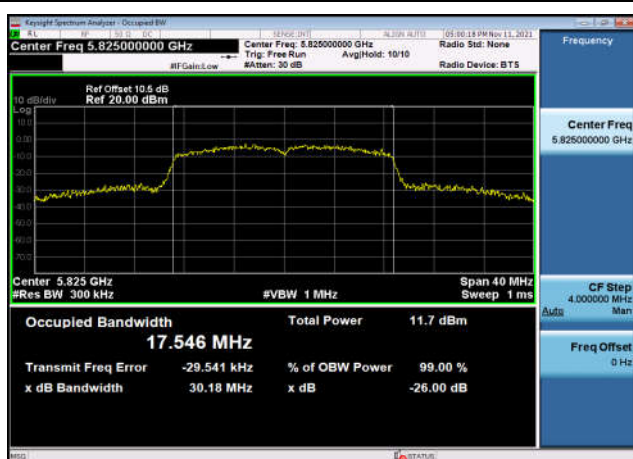
U-NII-3 26dB Bandwidth-802.11n(20MHz)
,5745MHz,Ant1



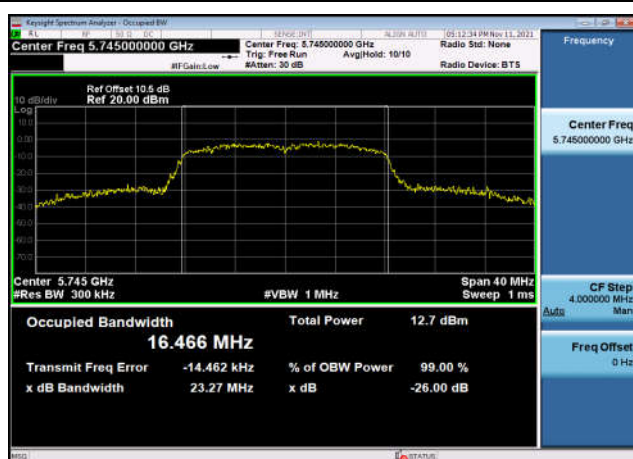
U-NII-3 26dB Bandwidth-802.11n(20MHz)
,5785MHz,Ant1



U-NII-3 26dB Bandwidth-802.11n(20MHz)
,5825MHz,Ant1



U-NII-3 26dB Bandwidth-802.11a(20MHz)
,5745MHz,Ant1



U-NII-3 26dB Bandwidth-802.11a(20MHz)
,5785MHz,Ant1



U-NII-3 26dB Bandwidth-802.11a(20MHz)
,5825MHz,Ant1

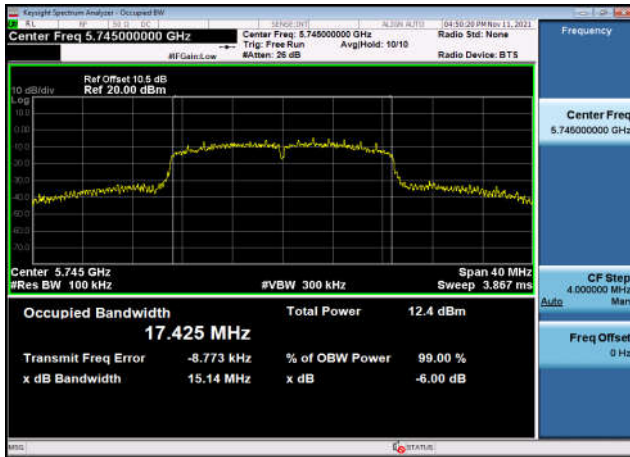


**6dB Down Bandwidth****Test Result and Data**

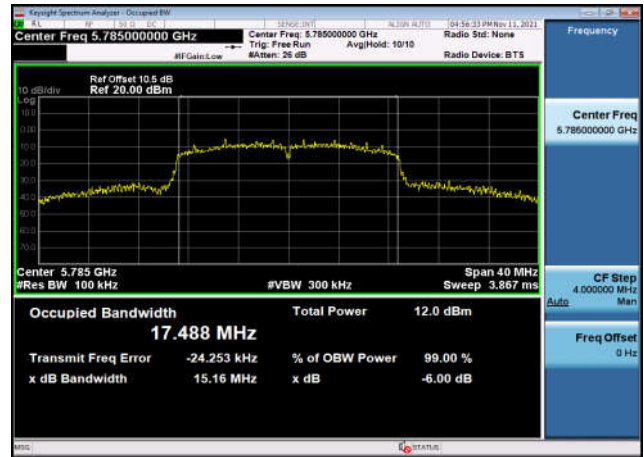
U-NII-3 Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Min Limit (KHz)	Result
802.11n (20MHz)	5745	15.14	500	Pass
802.11n (20MHz)	5785	15.16	500	Pass
802.11n (20MHz)	5825	15.11	500	Pass
802.11a (20MHz)	5745	15.11	500	Pass
802.11a (20MHz)	5785	14.91	500	Pass
802.11a (20MHz)	5825	15.36	500	Pass

Test Plots

U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5745MHz,Ant1



U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5785MHz,Ant1



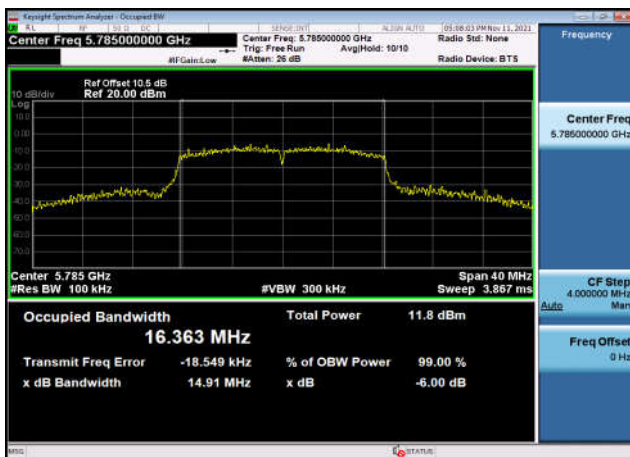
U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5825MHz,Ant1



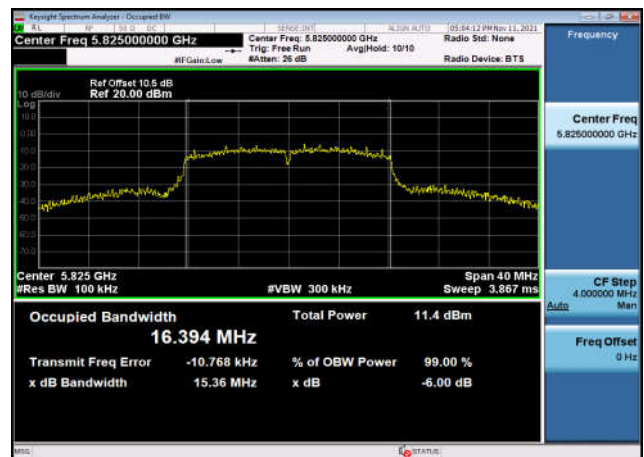
U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5745MHz,Ant1



U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5785MHz,Ant1



U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5825MHz,Ant1



99% Occupied Bandwidth

Test Result and Data

U-NII-1 99% Occupied Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5180	18.305	Pass
802.11n (20MHz)	5220	18.208	Pass
802.11n (20MHz)	5240	18.209	Pass
802.11a (20MHz)	5180	17.381	Pass
802.11a (20MHz)	5220	17.338	Pass
802.11a (20MHz)	5240	17.194	Pass

U-NII-2a 99% Occupied Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5260	18.044	Pass
802.11n (20MHz)	5300	18.061	Pass
802.11n (20MHz)	5320	18.008	Pass
802.11a (20MHz)	5260	17.000	Pass
802.11a (20MHz)	5300	16.983	Pass
802.11a (20MHz)	5320	16.960	Pass

U-NII-2c 99% Occupied Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5500	18.174	Pass
802.11n (20MHz)	5600	18.410	Pass
802.11n (20MHz)	5700	18.893	Pass
802.11a (20MHz)	5500	17.207	Pass
802.11a (20MHz)	5600	17.313	Pass
802.11a (20MHz)	5700	17.623	Pass

U-NII-3 99% Occupied Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5745	17.513	Pass
802.11n (20MHz)	5785	17.587	Pass
802.11n (20MHz)	5825	17.546	Pass
802.11a (20MHz)	5745	16.466	Pass
802.11a (20MHz)	5785	16.531	Pass
802.11a (20MHz)	5825	16.603	Pass

Test Plots

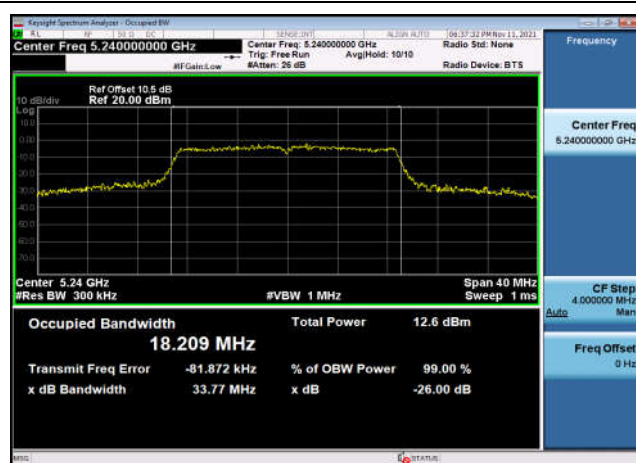
U-NII-1 99% Bandwidth-802.11n(20MHz)
,5180MHz,Ant1



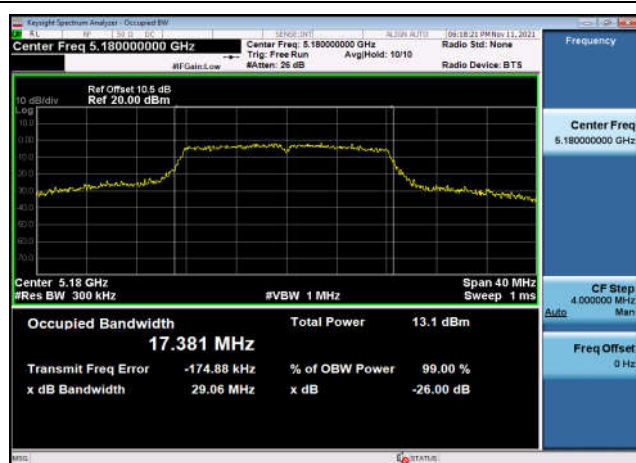
U-NII-1 99% Bandwidth-802.11n(20MHz)
,5220MHz,Ant1



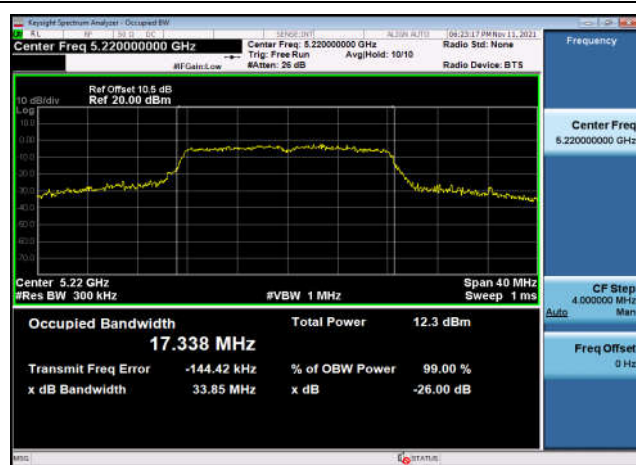
U-NII-1 99% Bandwidth-802.11n(20MHz)
,5240MHz,Ant1



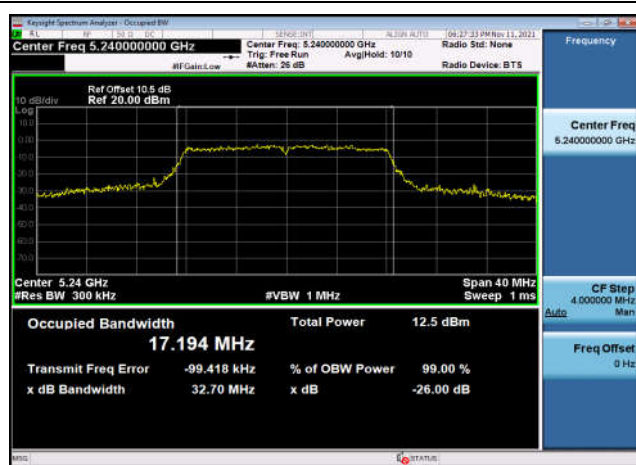
U-NII-1 99% Bandwidth-802.11a(20MHz)
,5180MHz,Ant1



U-NII-1 99% Bandwidth-802.11a(20MHz)
,5220MHz,Ant1



U-NII-1 99% Bandwidth-802.11a(20MHz)
,5240MHz,Ant1



U-NII-2a 99% Bandwidth-802.11n(20MHz)
,5260MHz,Ant1



U-NII-2a 99% Bandwidth-802.11n(20MHz)
,5300MHz,Ant1



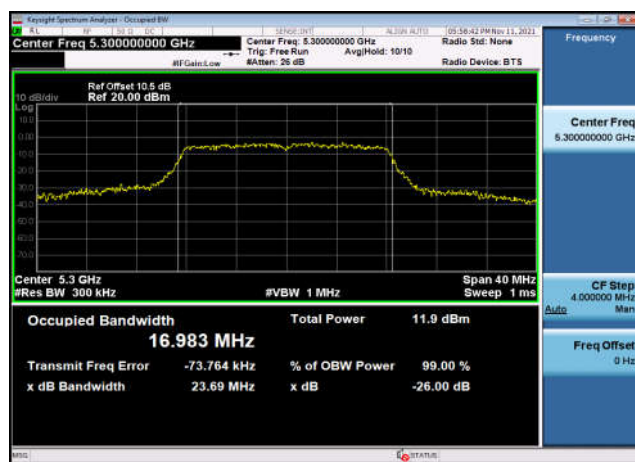
U-NII-2a 99% Bandwidth-802.11n(20MHz)
,5320MHz,Ant1



U-NII-2a 99% Bandwidth-802.11a(20MHz)
,5260MHz,Ant1



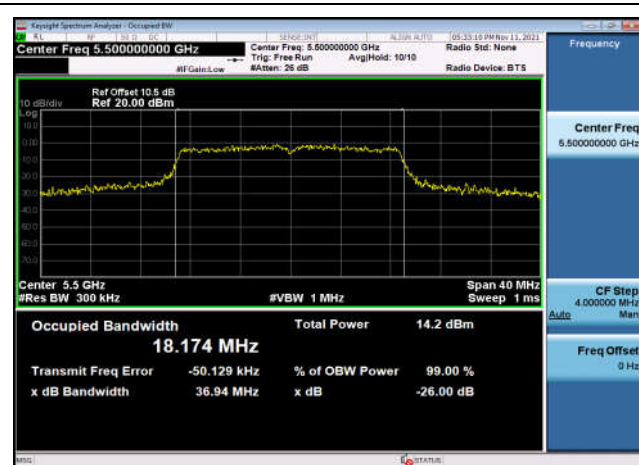
U-NII-2a 99% Bandwidth-802.11a(20MHz)
,5300MHz,Ant1



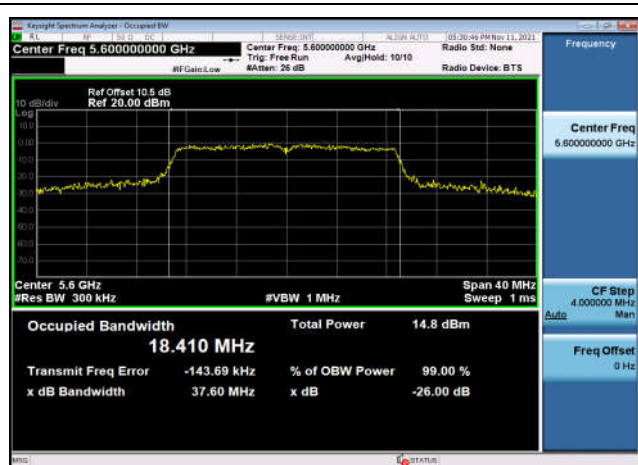
U-NII-2a 99% Bandwidth-802.11a(20MHz)
,5320MHz,Ant1



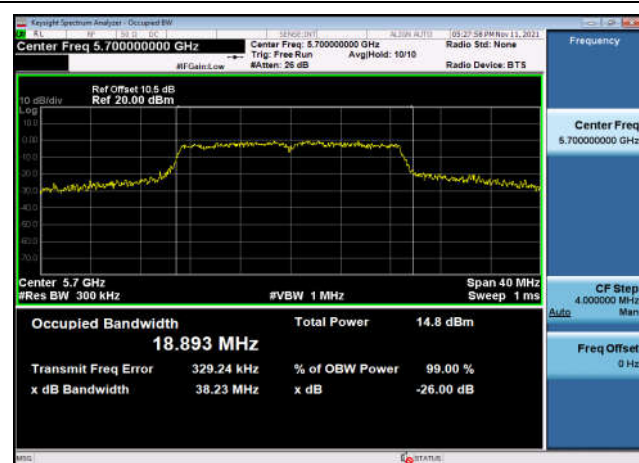
U-NII-2c 99% Bandwidth-802.11n(20MHz)
,5500MHz,Ant1



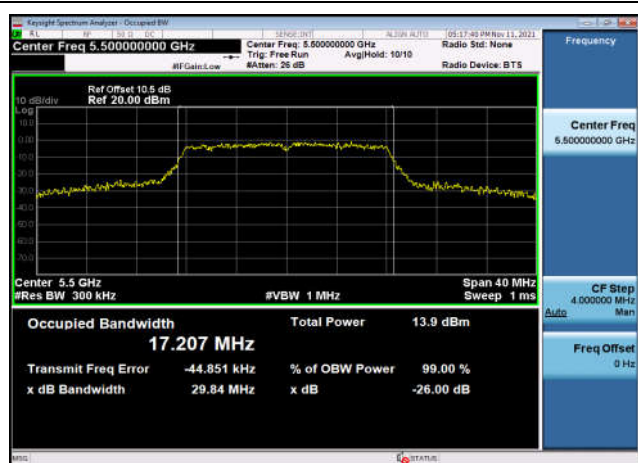
U-NII-2c 99% Bandwidth-802.11n(20MHz)
,5600MHz,Ant1



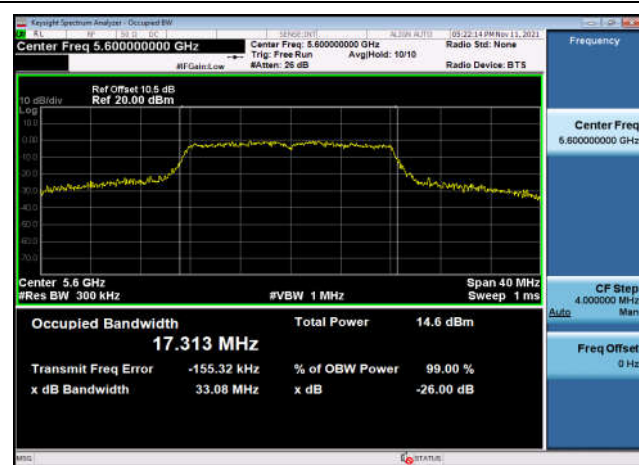
U-NII-2c 99% Bandwidth-802.11n(20MHz)
,5700MHz,Ant1



U-NII-2c 99% Bandwidth-802.11a(20MHz)
,5500MHz,Ant1



U-NII-2c 99% Bandwidth-802.11a(20MHz)
,5600MHz,Ant1



U-NII-2c 99% Bandwidth-802.11a(20MHz)
,5700MHz,Ant1



U-NII-3 99% Bandwidth-802.11n(20MHz)
,5745MHz,Ant1



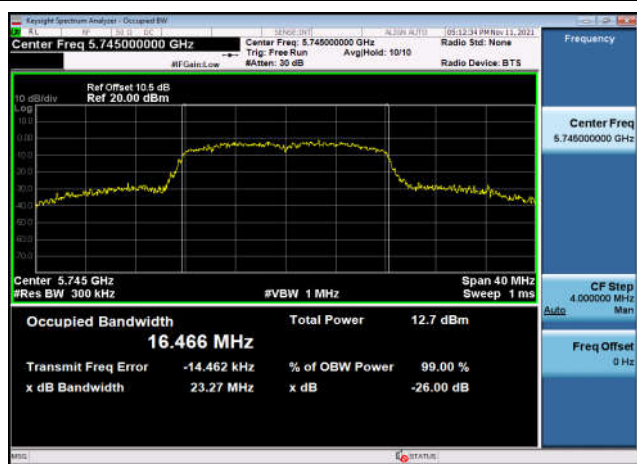
U-NII-3 99% Bandwidth-802.11n(20MHz)
,5785MHz,Ant1



U-NII-3 99% Bandwidth-802.11n(20MHz)
,5825MHz,Ant1



U-NII-3 99% Bandwidth-802.11a(20MHz)
,5745MHz,Ant1



U-NII-3 99% Bandwidth-802.11a(20MHz)
,5785MHz,Ant1



U-NII-3 99% Bandwidth-802.11a(20MHz)
,5825MHz,Ant1



Frequency Stability

U-NII-1 Centre Frequency						
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Test Result
802.11n (20MHz)	5180	Ant1	5171.043	5188.874	5179.958	Pass
802.11n (20MHz)	5220	Ant1	5211.087	5228.873	5219.980	Pass
802.11n (20MHz)	5240	Ant1	5231.070	5248.889	5239.980	Pass
802.11a (20MHz)	5180	Ant1	5171.678	5188.255	5179.967	Pass
802.11a (20MHz)	5220	Ant1	5211.695	5228.245	5219.970	Pass
802.11a (20MHz)	5240	Ant1	5231.690	5248.273	5239.981	Pass

U-NII-2a Centre Frequency						
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Test Result
802.11n (20MHz)	5260	Ant1	5251.078	5268.867	5259.973	Pass
802.11n (20MHz)	5300	Ant1	5291.088	5308.873	5299.981	Pass
802.11n (20MHz)	5320	Ant1	5311.054	5328.897	5319.975	Pass
802.11a (20MHz)	5260	Ant1	5251.695	5268.263	5259.979	Pass
802.11a (20MHz)	5300	Ant1	5291.683	5308.248	5299.965	Pass
802.11a (20MHz)	5320	Ant1	5311.660	5328.280	5319.970	Pass

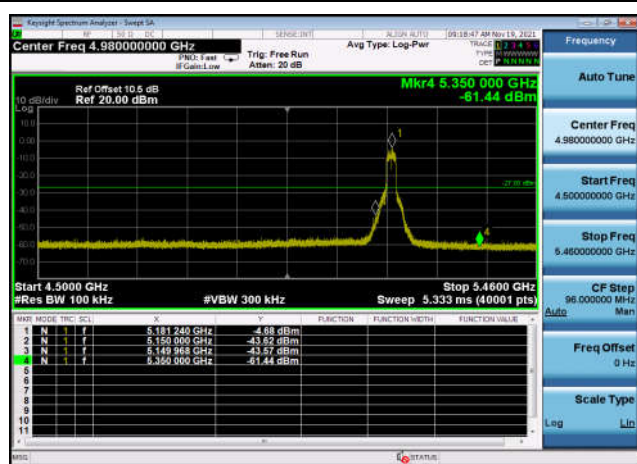
U-NII-2c Centre Frequency						
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Test Result
802.11n (20MHz)	5500	Ant1	5491.055	5508.884	5499.970	Pass
802.11n (20MHz)	5600	Ant1	5591.074	5608.863	5599.968	Pass
802.11n (20MHz)	5700	Ant1	5691.079	5708.874	5699.977	Pass
802.11a (20MHz)	5500	Ant1	5491.693	5508.255	5499.974	Pass
802.11a (20MHz)	5600	Ant1	5591.675	5608.263	5599.969	Pass
802.11a (20MHz)	5700	Ant1	5691.692	5708.258	5699.975	Pass

U-NII-3 Centre Frequency						
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Test Result
802.11n (20MHz)	5745	Ant1	5736.202	5753.743	5744.973	Pass
802.11n (20MHz)	5785	Ant1	5776.188	5793.736	5784.962	Pass
802.11n (20MHz)	5825	Ant1	5816.439	5833.758	5825.098	Pass
802.11a (20MHz)	5745	Ant1	5736.800	5753.152	5744.976	Pass
802.11a (20MHz)	5785	Ant1	5776.799	5793.144	5784.972	Pass
802.11a (20MHz)	5825	Ant1	5816.795	5833.152	5824.973	Pass

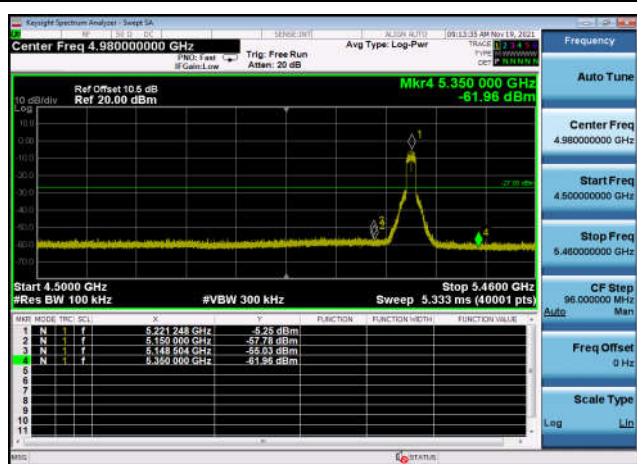
Note: All the extreme condition has been tested, only show the worst data.

Conducted Band Edges and spurious emission

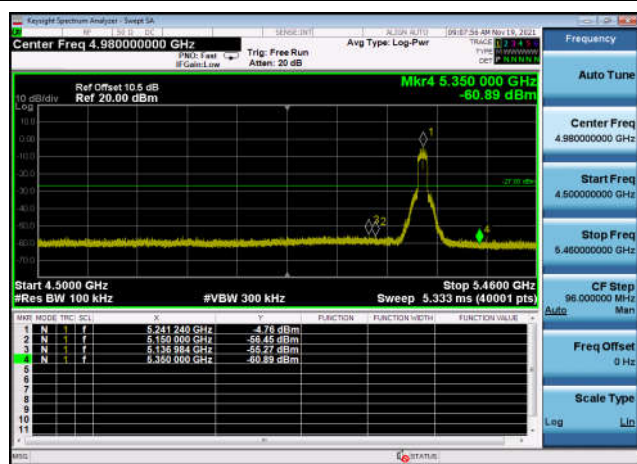
U-NII-1 ,Plot 1,Band Edge-802.11n(20M
Hz),5180MHz,Ant1



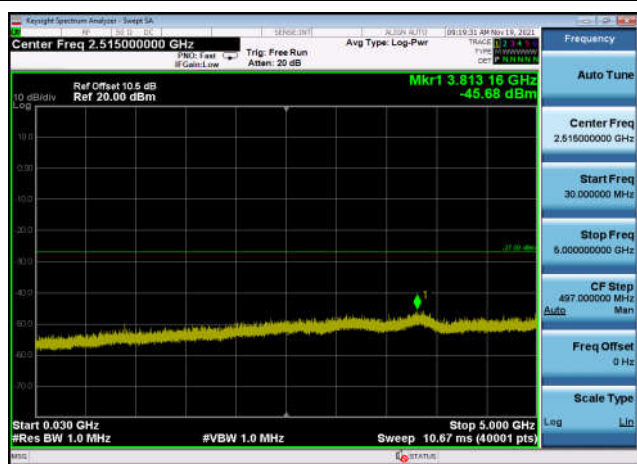
U-NII-1 ,Plot 1,Band Edge-802.11n(20M
Hz),5220MHz,Ant1



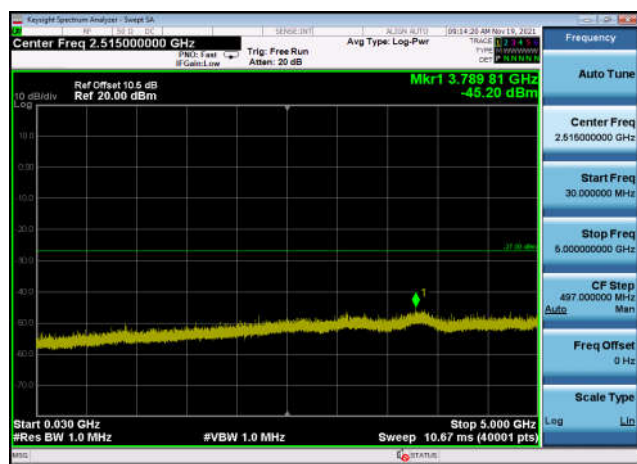
U-NII-1 ,Plot 1,Band Edge-802.11n(20M
Hz),5240MHz,Ant1



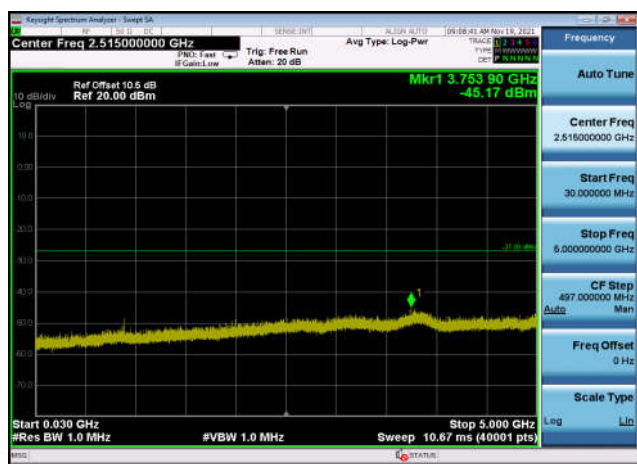
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n
(20MHz),5180MHz,Ant1



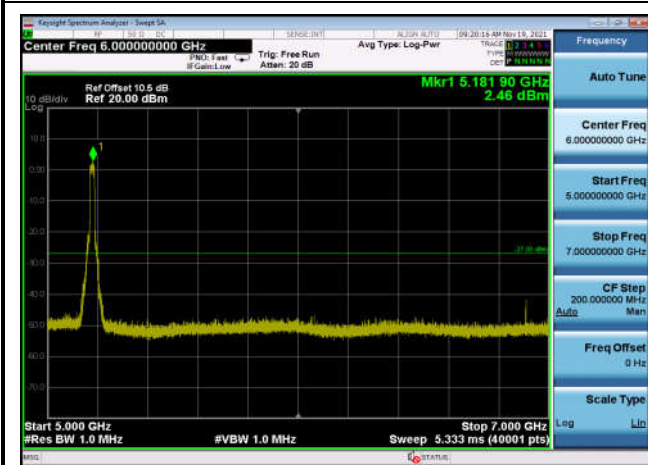
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n
(20MHz),5220MHz,Ant1



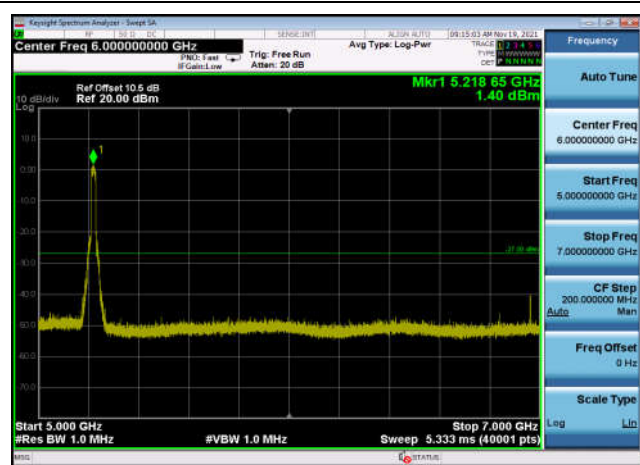
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n
(20MHz),5240MHz,Ant1



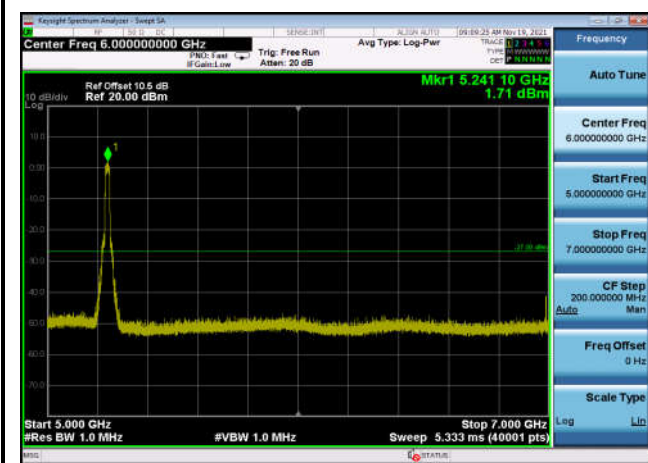
U-NII-1 ,Plot 3,5000MHz~7000MHz-802.1
1n(20MHz),5180MHz,Ant1



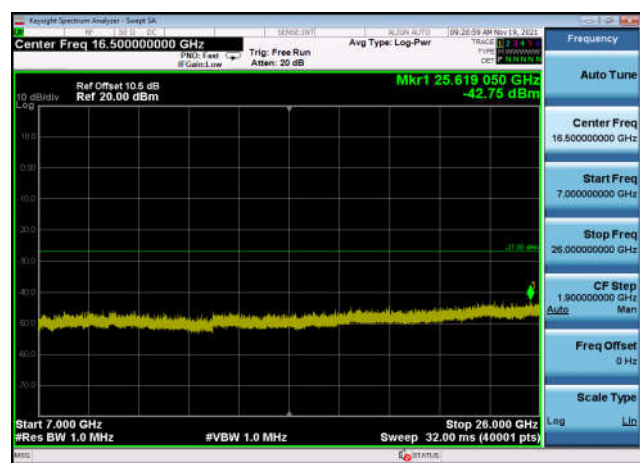
U-NII-1 ,Plot 3,5000MHz~7000MHz-802.1
1n(20MHz),5220MHz,Ant1



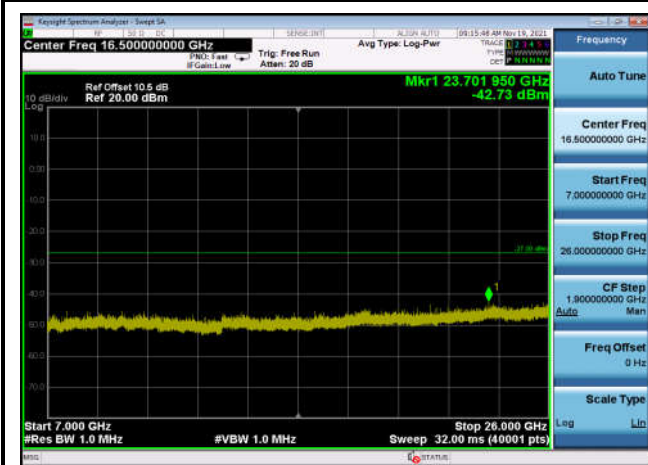
U-NII-1 ,Plot 3,5000MHz~7000MHz-802.1
1n(20MHz),5240MHz,Ant1



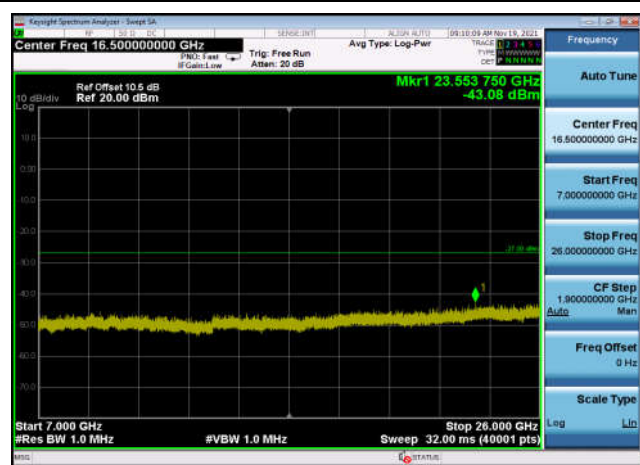
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.
11n(20MHz),5180MHz,Ant1



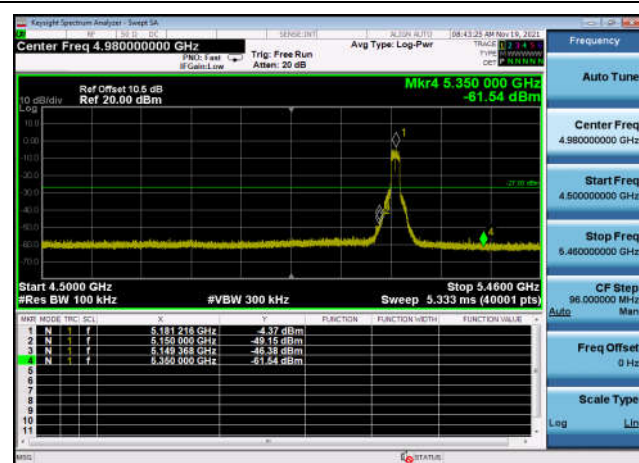
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.
11n(20MHz),5220MHz,Ant1



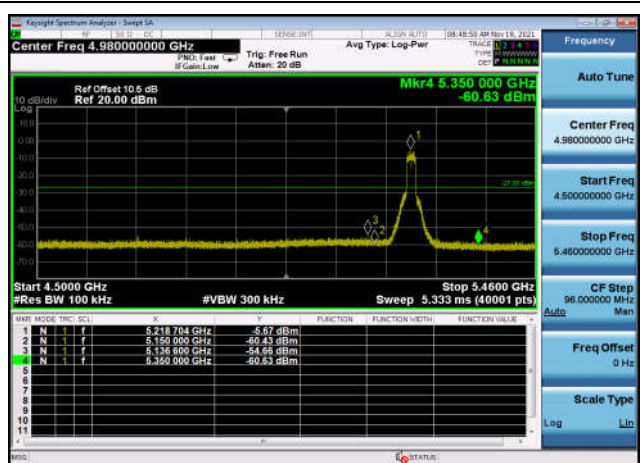
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.
11n(20MHz),5240MHz,Ant1



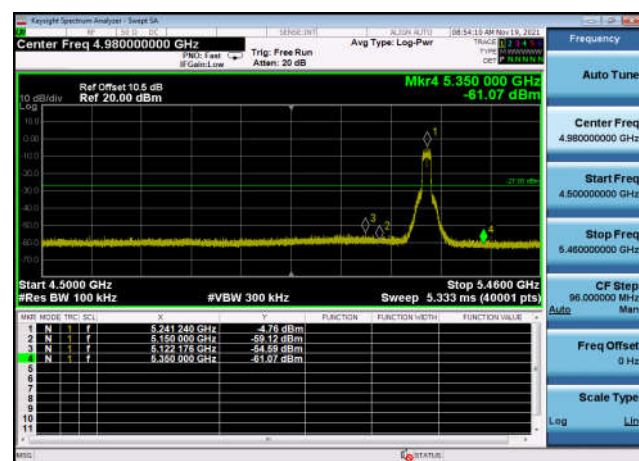
U-NII-1 ,Plot 1,Band Edge-802.11a(20M
Hz),5180MHz,Ant1



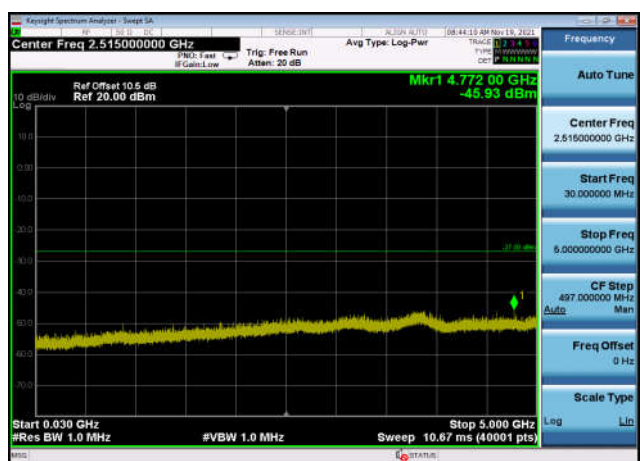
U-NII-1 ,Plot 1,Band Edge-802.11a(20M
Hz),5220MHz,Ant1



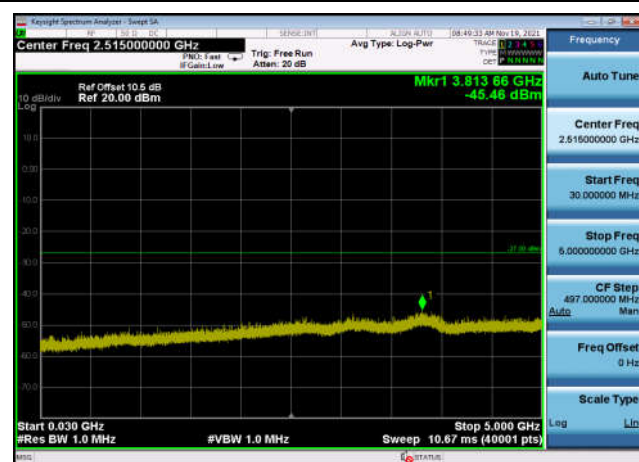
U-NII-1 ,Plot 1,Band Edge-802.11a(20M
Hz),5240MHz,Ant1



U-NII-1 ,Plot 2,30MHz~5000MHz-802.11a
(20MHz),5180MHz,Ant1



U-NII-1 ,Plot 2,30MHz~5000MHz-802.11a
(20MHz),5220MHz,Ant1



U-NII-1 ,Plot 2,30MHz~5000MHz-802.11a
(20MHz),5240MHz,Ant1

