



6.6 Band edge measurements

Test Result:

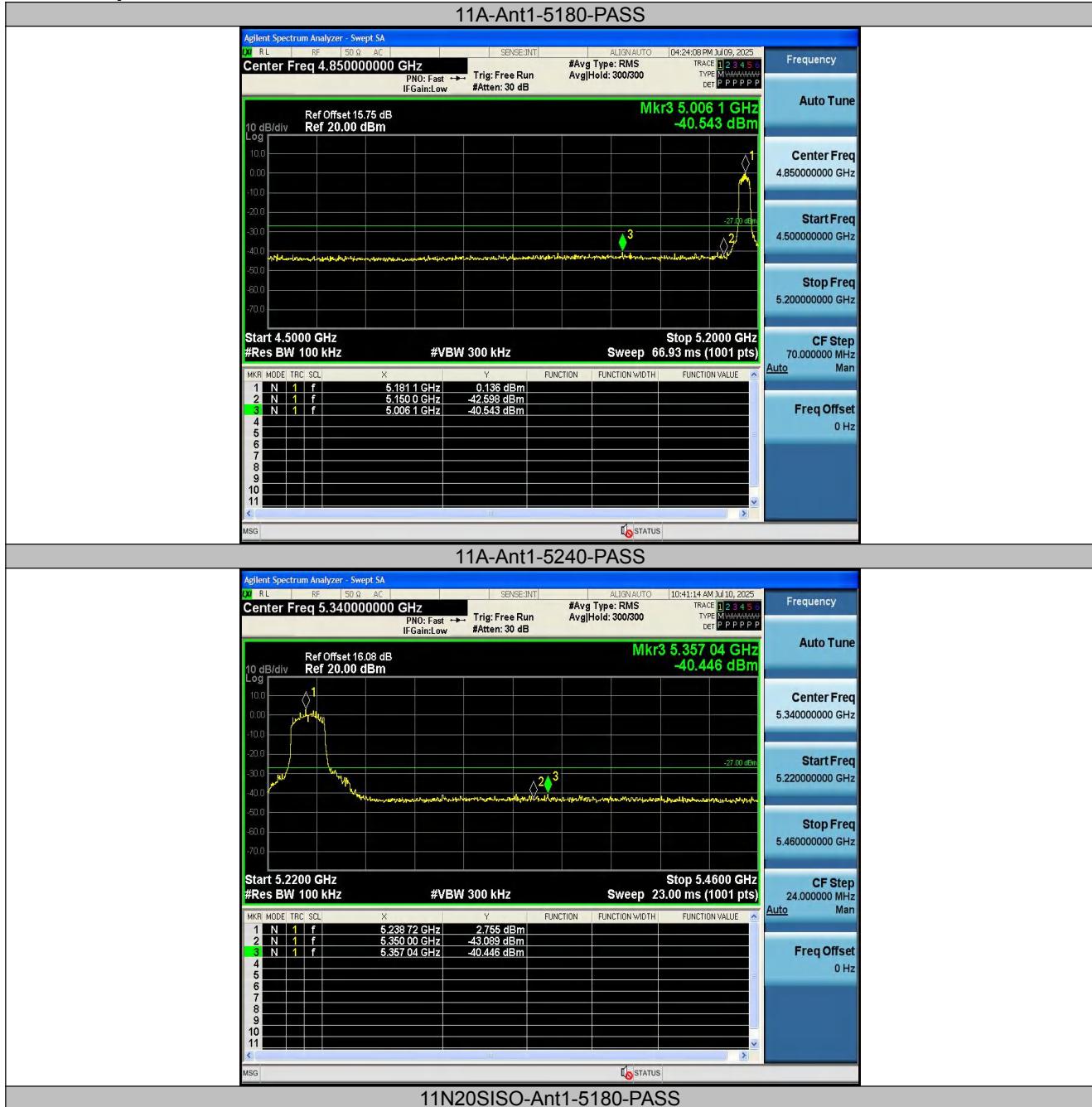
TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-40.54	≤-27	PASS
11A	Ant1	High	5240	-40.45	≤-27	PASS
11N20SISO	Ant1	Low	5180	-39.88	≤-27	PASS
11N20SISO	Ant1	High	5240	-41.27	≤-27	PASS

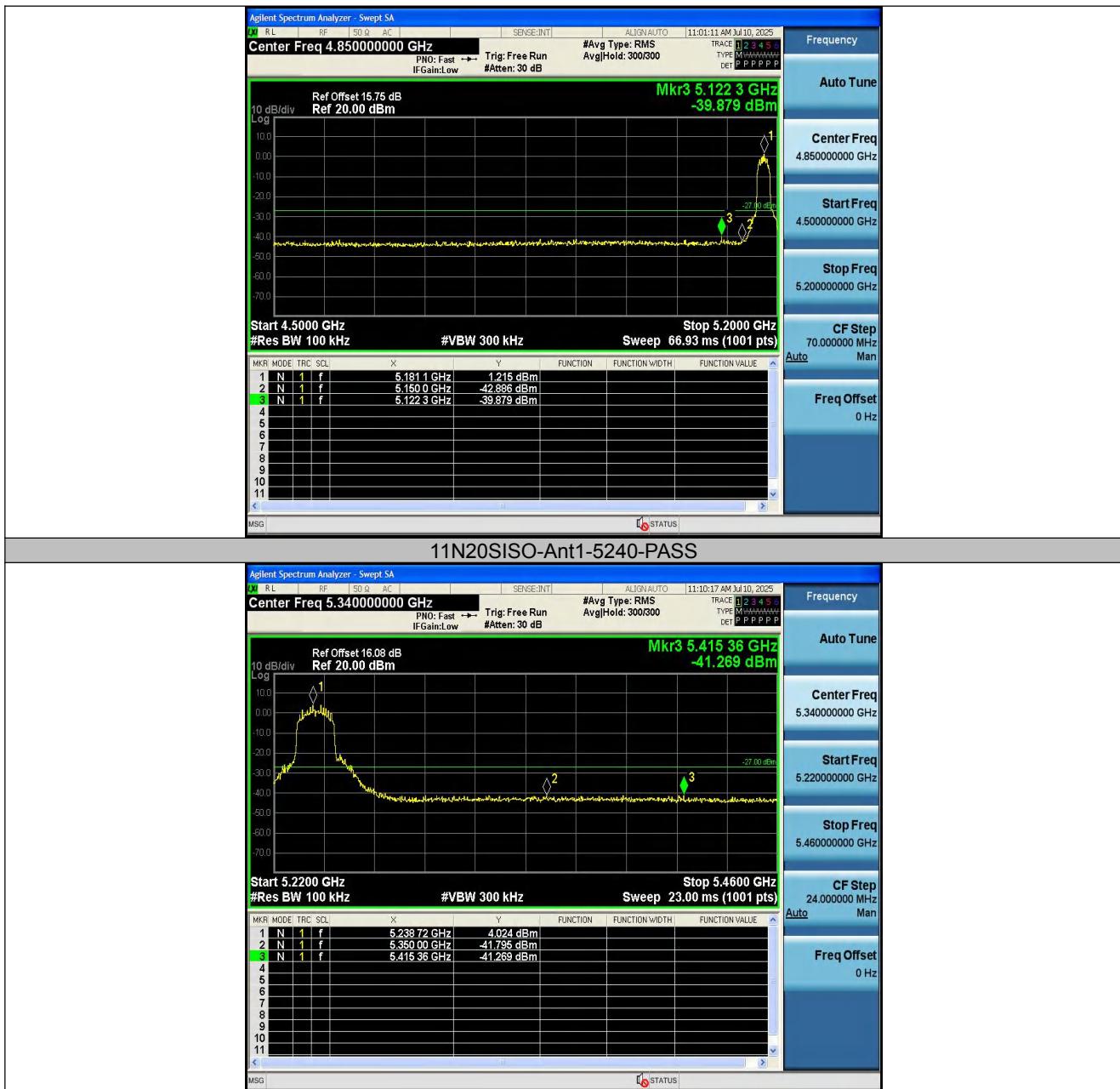
TestMode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-25.92	≤24.99	PASS
11A	Ant1	Low	5745	5700~5720	-30.23	≤15.59	PASS
11A	Ant1	Low	5745	5650~5700	-39.76	≤9.55	PASS
11A	Ant1	Low	5745	5760~5650	-44.49	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-37.49	≤17.33	PASS
11A	Ant1	High	5825	5855~5875	-38.9	≤10.10	PASS
11A	Ant1	High	5825	5875~5925	-41.5	≤7.41	PASS
11A	Ant1	High	5825	5925~5935	-42.18	≤-27	PASS
11N20SISO	Ant1	Low	5745	5720~5725	-23.19	≤26.83	PASS
11N20SISO	Ant1	Low	5745	5700~5720	-28.35	≤15.24	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-38.57	≤9.98	PASS
11N20SISO	Ant1	Low	5745	5760~5650	-44.39	≤-27	PASS
11N20SISO	Ant1	High	5825	5850~5855	-28.06	≤17.64	PASS
11N20SISO	Ant1	High	5825	5855~5875	-30.84	≤10.25	PASS
11N20SISO	Ant1	High	5825	5875~5925	-40.58	≤-24.56	PASS
11N20SISO	Ant1	High	5825	5925~5935	-42.7	≤-27	PASS

Note: 1.27~40GHz at least have 20dB margin. No recording in the test report.

2. The Max. Level has been corrected by the cable loss and antenna gain.

Test Graphs:





Note: 27~40GHz at least have 20dB margin. No recording in the test report.

Test plots B4:
11A-Ant1-5745-PASS

11A-Ant1-5825-PASS

11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5825-PASS



6.7 Restricted Band

Test Requirement : FCC Part15 E Section 15.407(b)

Test site : Measurement Distance: 3m

Test Limit	Frequency	Limit (dB μ V/m @3m)	Remark
	Above 1GHz	74	Peak Value
		54	Average Value

Test Procedure:

1. The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room

Test Result:

Worst case mode:		802.11a(6Mbps)		Test channel:		36		
NO.	Freq. [MHz]	level [dB μ V/m]	Factor [dB]	Emission level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity	Detector Type
1	5150	50.15	6.53	56.68	74	17.32	H	Peak
2	5150	40.06	6.53	46.59	54	7.41	H	Average
3	5150	49.11	6.53	55.64	74	18.36	V	Peak
4	5150	38.24	6.53	44.77	54	9.23	V	Average



Worst case mode:		802.11a(6Mbps)		Test channel:		48		
NO.	Freq. [MHz]	level [dB μ V/ m]	Factor [dB]	Emission level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity	Detector Type
1	5350	50.02	6.56	56.58	74	17.42	H	Peak
2	5350	40.01	6.56	46.57	54	7.43	H	Average
3	5350	49.56	6.56	56.12	74	17.88	V	Peak
4	5350	38.11	6.56	44.67	54	9.33	V	Average

Worst case mode:		802.11a(6Mbps)		Test channel:		165		
NO.	Freq. [MHz]	level [dB μ V/ m]	Factor [dB]	Emission level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity	Detector Type
1	5850	49.98	6.64	56.62	68.23	11.61	H	Peak
2	5850	40.1	6.64	46.74	54	7.26	H	Average
3	5850	49.58	6.64	56.22	68.23	12.01	V	Peak
4	5850	38.19	6.64	44.83	54	9.17	V	Average

Note: Only recorded the worst case in the report.



7 Emission Bandwidth and Occupied Bandwidth

Test Requirement	: FCC CFR47 Part 15 Section 15.407(a)(e)
Test Method	: ANSI C63.10:2013 According to FCC §15.407(a), The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less.
Test Limit	Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth. As per FCC §15.407(e): for equipment operating in the band 5725 – 5850 MHz, the minimum 6 dB bandwidth of U-NII devices shall be 500 kHz.

7.1 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Emission Bandwidth (EBW)

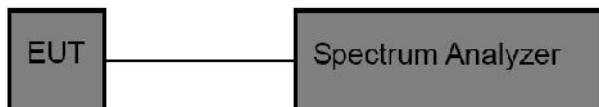
a) Set RBW = approximately 1% of the emission bandwidth; b) Set the VBW > RBW; c) Detector = Peak; d) Trace mode = max hold; e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%;99% Occupied Bandwidth. The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99% occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in II.G.3.d). Measurements of 99% occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency.

The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

7.2 Test setup



7.3 Test Result

PASS

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations / data rates and antenna ports.

Following channel was selected for the final test as listed below.

26 dB emission bandwidth:

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.600	5170.440	5190.040	---	---
11A	Ant1	5200	20.480	5190.440	5210.920	---	---
11A	Ant1	5240	19.280	5230.280	5249.560	---	---
11A	Ant1	5745	38.360	5726.280	5764.640	---	---
11A	Ant1	5785	28.960	5771.120	5800.080	---	---
11A	Ant1	5825	31.480	5808.960	5840.440	---	---
11N20SISO	Ant1	5180	21.680	5170.080	5191.760	---	---
11N20SISO	Ant1	5200	20.000	5190.160	5210.160	---	---
11N20SISO	Ant1	5240	26.400	5227.800	5254.200	---	---
11N20SISO	Ant1	5745	39.800	5725.080	5764.880	---	---
11N20SISO	Ant1	5785	39.480	5765.080	5804.560	---	---
11N20SISO	Ant1	5825	39.320	5805.480	5844.800	---	---

minimum 6 dB bandwidth:

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	11.400	5739.240	5750.640	0.5	PASS
11A	Ant1	5785	12.400	5778.800	5791.200	0.5	PASS
11A	Ant1	5825	12.600	5817.480	5830.080	0.5	PASS
11N20SISO	Ant1	5745	13.880	5738.600	5752.480	0.5	PASS
11N20SISO	Ant1	5785	13.240	5777.320	5790.560	0.5	PASS
11N20SISO	Ant1	5825	12.640	5818.680	5831.320	0.5	PASS

Test Graphs:





11A-Ant1-5240



11A-Ant1-5745



11A-Ant1-5785



11A-Ant1-5825









Report No.: PTC25061213701E-FC02

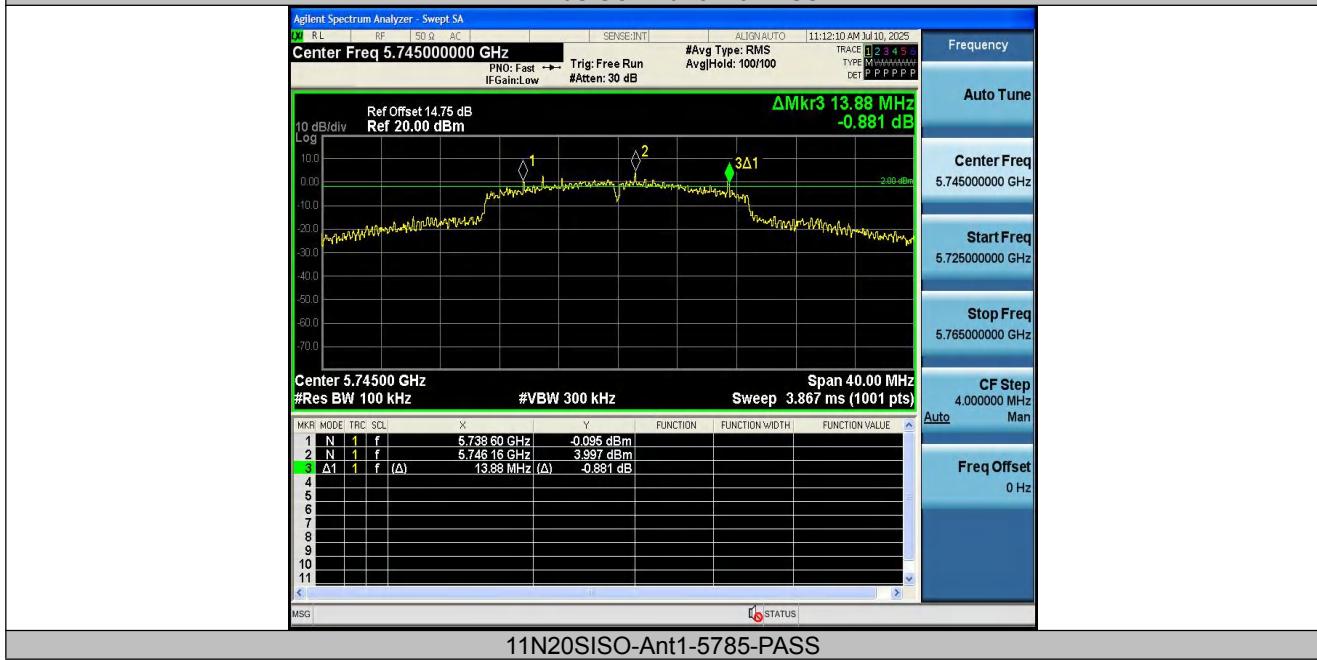


Min emission bandwidth Test Graphs:





11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



11N20SISO-Ant1-5825-PASS



8 Maximum Conducted Output Power

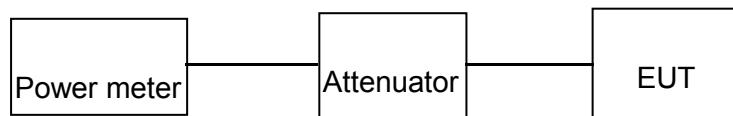
Test Requirement : FCC CFR47 Part 15 Section 15.407(a)

Test Method : ANSI C63.10:2013

Test Limit : For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, 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.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

8.1 Test Setup



8.2 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, The use Power Meter 1. Place the EUT on a bench and set it in transmitting mode. 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to a Power meter.



8.3 Test Result

Test Mode	Antenna	Frequency[M Hz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	9.61	90.75	0.42	10.03	≤23.98	PASS
11A	Ant1	5200	11.37	89.96	0.46	11.83	≤23.98	PASS
11A	Ant1	5240	12.93	90.35	0.44	13.37	≤23.98	PASS
11A	Ant1	5745	13.80	91.15	0.40	14.20	≤30.00	PASS
11A	Ant1	5785	10.70	90.39	0.44	11.14	≤30.00	PASS
11A	Ant1	5825	11.39	92.00	0.36	11.75	≤30.00	PASS
11N20SISO	Ant1	5180	9.74	89.30	0.49	10.23	≤23.98	PASS
11N20SISO	Ant1	5200	10.71	89.72	0.47	11.18	≤23.98	PASS
11N20SISO	Ant1	5240	12.76	89.30	0.49	13.25	≤23.98	PASS
11N20SISO	Ant1	5745	12.68	91.00	0.41	13.09	≤30.00	PASS
11N20SISO	Ant1	5785	9.40	90.14	0.45	9.85	≤30.00	PASS
11N20SISO	Ant1	5825	15.00	91.00	0.41	15.41	≤30.00	PASS



9 Power Spectral density

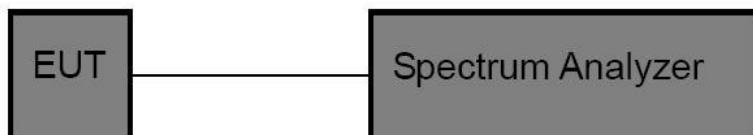
Test Requirement	: FCC CFR47 Part 15 Section 15.2407(a)
Test Method	: ANSI C63.10:2013
Test Limit	<p>: For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, 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..</p> <p>For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations</p>

9.1 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and ANSI 63.10: 2013 Sec 10.3.7. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set the RBW to 1 MHz.
- b) Set the VBW to be at least 1 MHz (a VBW of 3 MHz is desirable).
- c) Set the frequency span to examine the spectrum across a convenient frequency segment (e.g., 600 MHz).
- d) Select the power averaging (rms) detector.
- e) Set the sweep time so that there is no more than a 1 ms integration period over each measurement bin.
- f) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

9.2 Test Setup





9.3 Test Result

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations / data rates and antenna ports.

Following channel was selected for the final test as listed below

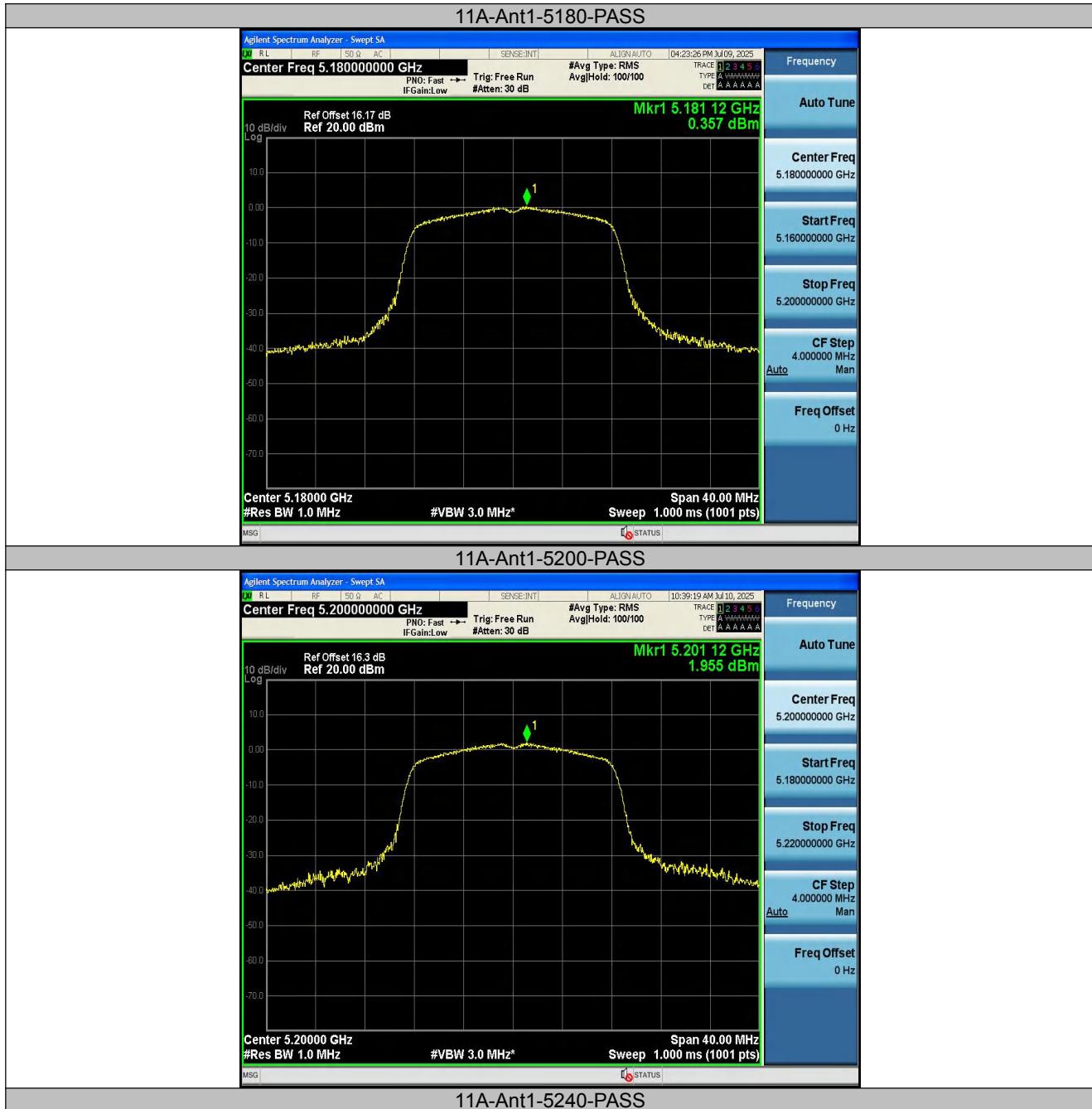
TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.36	≤11.00	PASS
11A	Ant1	5200	1.96	≤11.00	PASS
11A	Ant1	5240	3.7	≤11.00	PASS
11N20SISO	Ant1	5180	1.61	≤11.00	PASS
11N20SISO	Ant1	5200	1.1	≤11.00	PASS
11N20SISO	Ant1	5240	3.45	≤11.00	PASS

TestMode	Antenna	Frequency[MHz]	Result [dBm/300kHz]	Result [dBm/500kHz]	Result [dBm/500kHz]	Verdict
11A	Ant1	5745	1.79	4.01	≤30.00	PASS
11A	Ant1	5785	-1.13	1.09	≤30.00	PASS
11A	Ant1	5825	-1.02	1.20	≤30.00	PASS
11N20SISO	Ant1	5745	0.33	2.55	≤30.00	PASS
11N20SISO	Ant1	5785	-3.88	-1.66	≤30.00	PASS
11N20SISO	Ant1	5825	3.01	5.23	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2. in the band 5.725–5.85 GHz the test RBW select 300KHz,so the measured result corrected by $\text{Result} + 10 \log (500 \text{ kHz}/300\text{kHz})$.

Test Graphs:

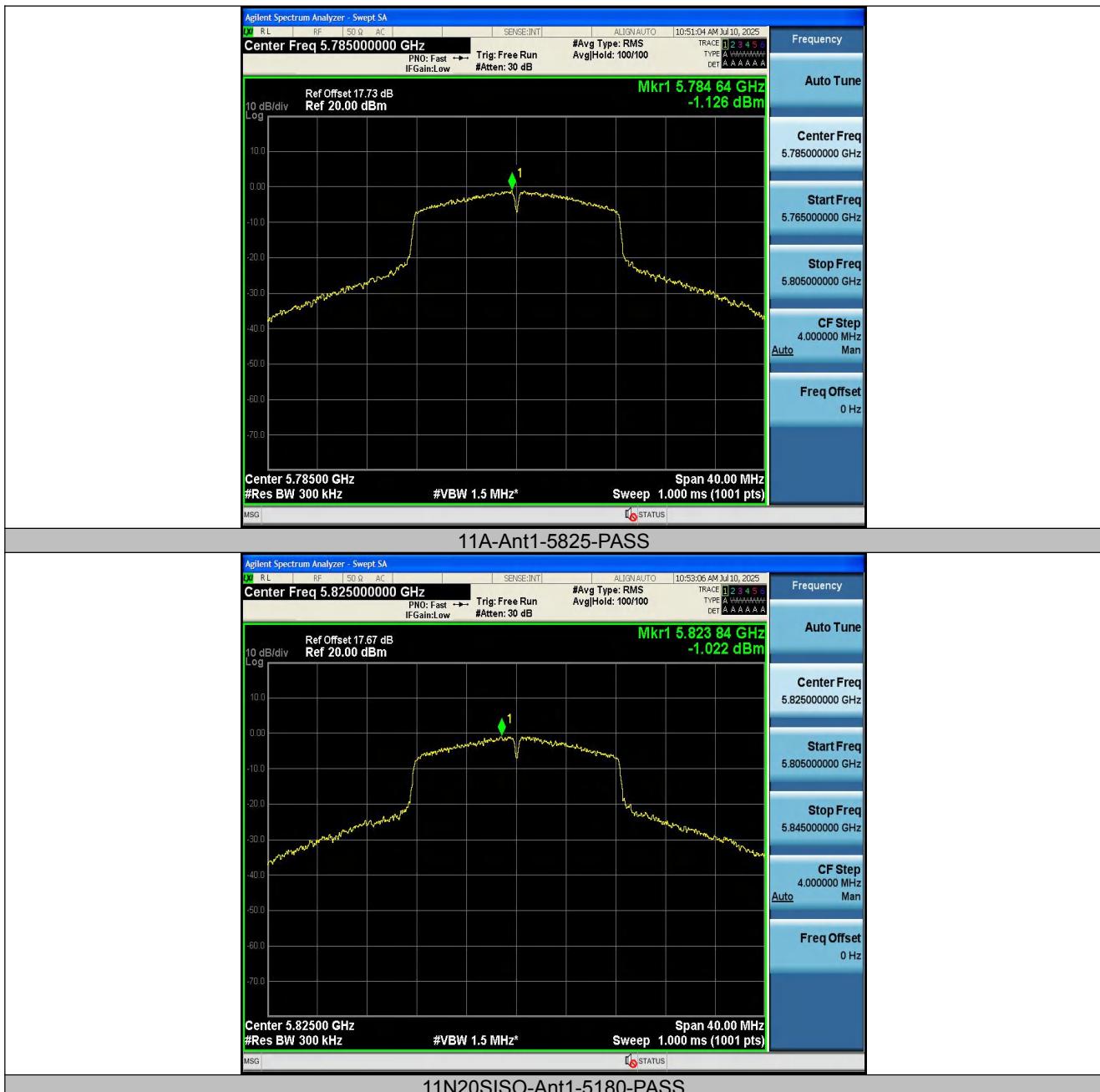


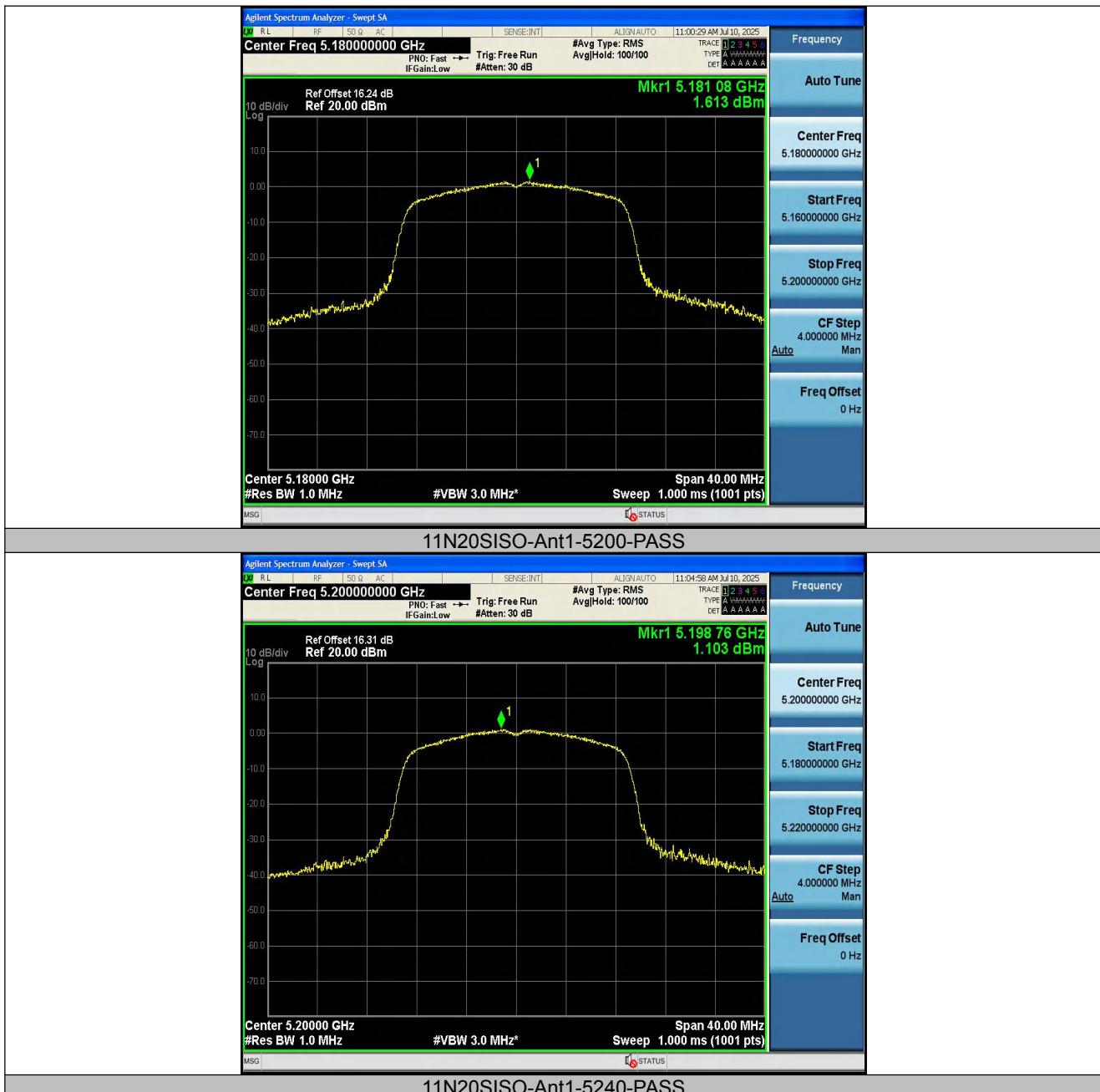


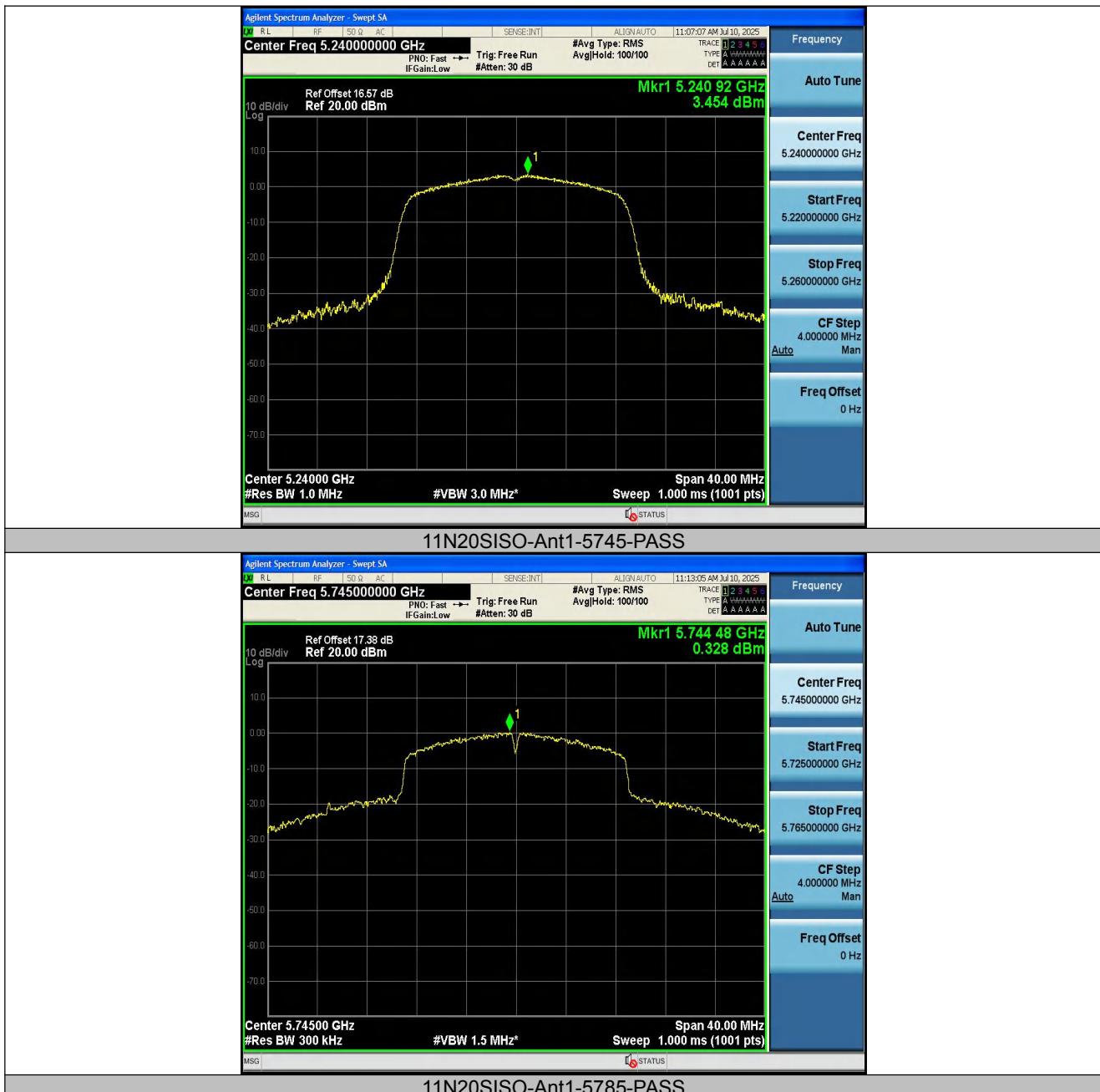
11A-Ant1-5745-PASS



11A-Ant1-5785-PASS









Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.



9.4 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), 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.

9.5 Result

The EUT'S antenna, permanent attached antenna, is FPC Antenna. The antenna's gain is 2.78 dBi and meets the requirement.

10 Frequency Stability

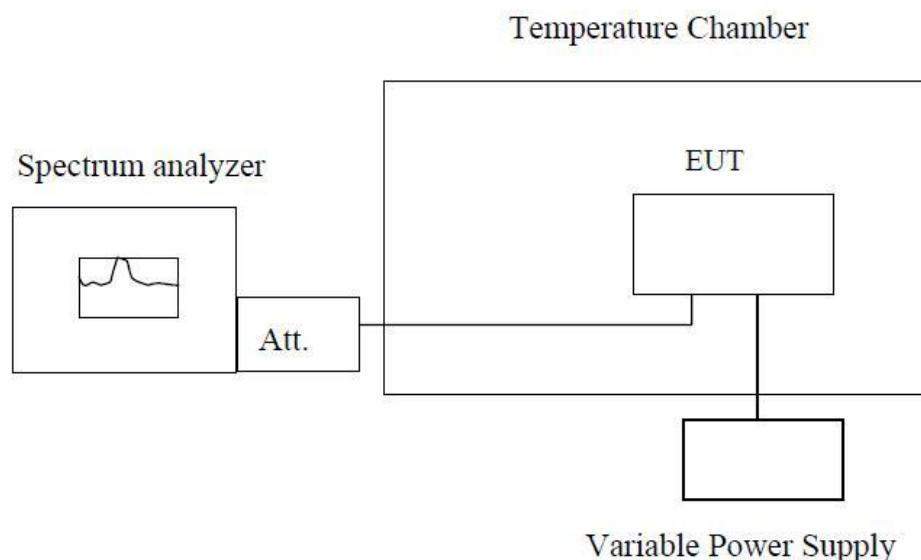
Test Requirement : FCC Part15 E Section 15.407 (g)

Test Limit 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 user's manual.

10.1 Test Procedure

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

10.2 Test Setup



10.3 Test Result

TestMode	Antenna	Frequency[MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	LV	NT	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	HV	NT	-20000.00	-3.861004	20	PASS
11A	Ant1	5200	NV	NT	-21000.00	-4.038462	20	PASS
11A	Ant1	5200	LV	NT	-21000.00	-4.038462	20	PASS
11A	Ant1	5200	HV	NT	-21000.00	-4.038462	20	PASS
11A	Ant1	5240	NV	NT	-22000.00	-4.198473	20	PASS
11A	Ant1	5240	LV	NT	-22000.00	-4.198473	20	PASS
11A	Ant1	5240	HV	NT	-23000.00	-4.389313	20	PASS
11A	Ant1	5745	NV	NT	-25000.00	-4.351610	20	PASS
11A	Ant1	5745	LV	NT	-25000.00	-4.351610	20	PASS
11A	Ant1	5785	NV	NT	-27000.00	-4.667243	20	PASS
11A	Ant1	5785	LV	NT	-27000.00	-4.667243	20	PASS
11A	Ant1	5785	HV	NT	-27000.00	-4.667243	20	PASS
11A	Ant1	5825	NV	NT	-28000.00	-4.806867	20	PASS
11A	Ant1	5825	LV	NT	-28000.00	-4.806867	20	PASS
11A	Ant1	5825	HV	NT	-28000.00	-4.806867	20	PASS
11N20SISO	Ant1	5180	NV	NT	-25000.00	-4.826255	20	PASS
11N20SISO	Ant1	5240	NV	NT	-25000.00	-4.770992	20	PASS
11N20SISO	Ant1	5240	LV	NT	-25000.00	-4.770992	20	PASS
11A	Ant1	5745	HV	NT	-25000.00	-4.351610	20	PASS
11N20SISO	Ant1	5180	LV	NT	-25000.00	-4.826255	20	PASS
11N20SISO	Ant1	5180	HV	NT	-25000.00	-4.826255	20	PASS
11N20SISO	Ant1	5200	NV	NT	-25000.00	-4.807692	20	PASS
11N20SISO	Ant1	5200	LV	NT	-25000.00	-4.807692	20	PASS
11N20SISO	Ant1	5200	HV	NT	-25000.00	-4.807692	20	PASS



11N20SISO	Ant1	5240	HV	NT	-25000.00	-4.770992	20	PASS
11N20SISO	Ant1	5745	NV	NT	-28000.00	-4.873803	20	PASS
11N20SISO	Ant1	5745	LV	NT	-28000.00	-4.873803	20	PASS
11N20SISO	Ant1	5745	HV	NT	-28000.00	-4.873803	20	PASS
11N20SISO	Ant1	5785	NV	NT	-28000.00	-4.840104	20	PASS
11N20SISO	Ant1	5785	LV	NT	-28000.00	-4.840104	20	PASS
11N20SISO	Ant1	5785	HV	NT	-28000.00	-4.840104	20	PASS
11N20SISO	Ant1	5825	NV	NT	-28000.00	-4.806867	20	PASS
11N20SISO	Ant1	5825	LV	NT	-28000.00	-4.806867	20	PASS
11N20SISO	Ant1	5825	HV	NT	-29000.00	-4.978541	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperat ure (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
			NV	50	40000.00	7.722008	20	PASS
			NV	-30	40000.00	7.662835	20	PASS
11A	Ant1	5220	NV	-20	40000.00	7.662835	20	PASS
			NV	-10	40000.00	7.662835	20	PASS
			NV	0	40000.00	7.662835	20	PASS
			NV	10	40000.00	7.662835	20	PASS
			NV	20	40000.00	7.662835	20	PASS
			NV	30	40000.00	7.662835	20	PASS
			NV	40	40000.00	7.662835	20	PASS
			NV	50	40000.00	7.662835	20	PASS
			NV	-30	40000.00	7.633588	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
11A	Ant1	5240	NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
			NV	-30	40000.00	6.962576	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	40000.00	6.962576	20	PASS
11A	Ant1	5745	NV	0	40000.00	6.962576	20	PASS
			NV	10	40000.00	6.962576	20	PASS
			NV	20	40000.00	6.962576	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
			NV	50	40000.00	6.962576	20	PASS
			NV	-30	40000.00	6.914434	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	40000.00	6.914434	20	PASS
			NV	0	40000.00	6.914434	20	PASS
11A	Ant1	5785	NV	10	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	40000.00	6.914434	20	PASS
			NV	40	40000.00	6.914434	20	PASS
			NV	50	40000.00	6.914434	20	PASS
			NV	-30	40000.00	6.866953	20	PASS
			NV	-20	40000.00	6.866953	20	PASS
			NV	-10	40000.00	6.866953	20	PASS
			NV	0	40000.00	6.866953	20	PASS
			NV	10	40000.00	6.866953	20	PASS
11A	Ant1	5825	NV	20	40000.00	6.866953	20	PASS



11N20SISO	Ant1	5180	NV	30	40000.00	6.866953	20	PASS		
			NV	40	40000.00	6.866953	20	PASS		
			NV	50	40000.00	6.866953	20	PASS		
			NV	-30	40000.00	7.722008	20	PASS		
			NV	-20	40000.00	7.722008	20	PASS		
			NV	-10	40000.00	7.722008	20	PASS		
			NV	0	40000.00	7.722008	20	PASS		
			NV	10	40000.00	7.722008	20	PASS		
			NV	20	40000.00	7.722008	20	PASS		
			NV	30	40000.00	7.722008	20	PASS		
5220			NV	40	40000.00	7.722008	20	PASS		
			NV	50	40000.00	7.722008	20	PASS		
			NV	-30	40000.00	7.662835	20	PASS		
			NV	-20	40000.00	7.662835	20	PASS		
			NV	-10	40000.00	7.662835	20	PASS		
			NV	0	40000.00	7.662835	20	PASS		
			NV	10	40000.00	7.662835	20	PASS		
			NV	20	40000.00	7.662835	20	PASS		
			NV	30	40000.00	7.662835	20	PASS		
			NV	40	40000.00	7.662835	20	PASS		
5240			NV	50	40000.00	7.662835	20	PASS		
			NV	-30	40000.00	7.633588	20	PASS		
			NV	-20	40000.00	7.633588	20	PASS		
			NV	-10	40000.00	7.633588	20	PASS		
			NV	0	40000.00	7.633588	20	PASS		
			NV	10	40000.00	7.633588	20	PASS		
			NV	20	40000.00	7.633588	20	PASS		
			NV	30	40000.00	7.633588	20	PASS		
			NV	40	40000.00	7.633588	20	PASS		
			NV	50	40000.00	7.633588	20	PASS		
5745			NV	-30	40000.00	6.962576	20	PASS		
			NV	-20	40000.00	6.962576	20	PASS		
			NV	-10	40000.00	6.962576	20	PASS		
			NV	0	40000.00	6.962576	20	PASS		
			NV	10	40000.00	6.962576	20	PASS		
			NV	20	40000.00	6.962576	20	PASS		
			NV	30	40000.00	6.962576	20	PASS		
			NV	40	40000.00	6.962576	20	PASS		
			NV	50	40000.00	6.962576	20	PASS		
			NV	-30	40000.00	6.914434	20	PASS		
5785			NV	-20	40000.00	6.914434	20	PASS		
			NV	-10	40000.00	6.914434	20	PASS		
			NV	0	40000.00	6.914434	20	PASS		
			NV	10	40000.00	6.914434	20	PASS		
			NV	20	40000.00	6.914434	20	PASS		
			NV	30	40000.00	6.914434	20	PASS		
			NV	40	40000.00	6.914434	20	PASS		
			NV	50	40000.00	6.914434	20	PASS		
			NV	-30	40000.00	6.866953	20	PASS		
			NV	-20	40000.00	6.866953	20	PASS		
5825			NV	-10	40000.00	6.866953	20	PASS		
			NV	0	40000.00	6.866953	20	PASS		
			NV	10	40000.00	6.866953	20	PASS		
			NV	20	40000.00	6.866953	20	PASS		
			NV	30	40000.00	6.866953	20	PASS		
			NV	40	40000.00	6.866953	20	PASS		

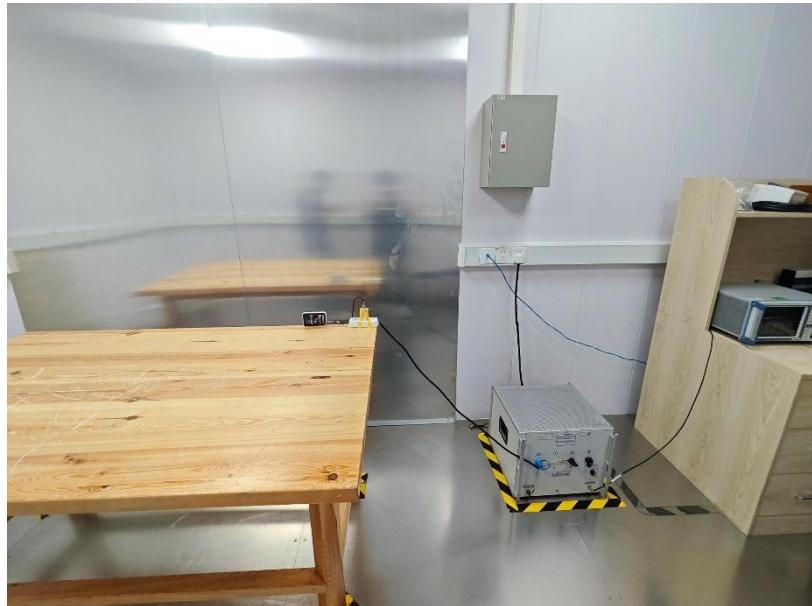


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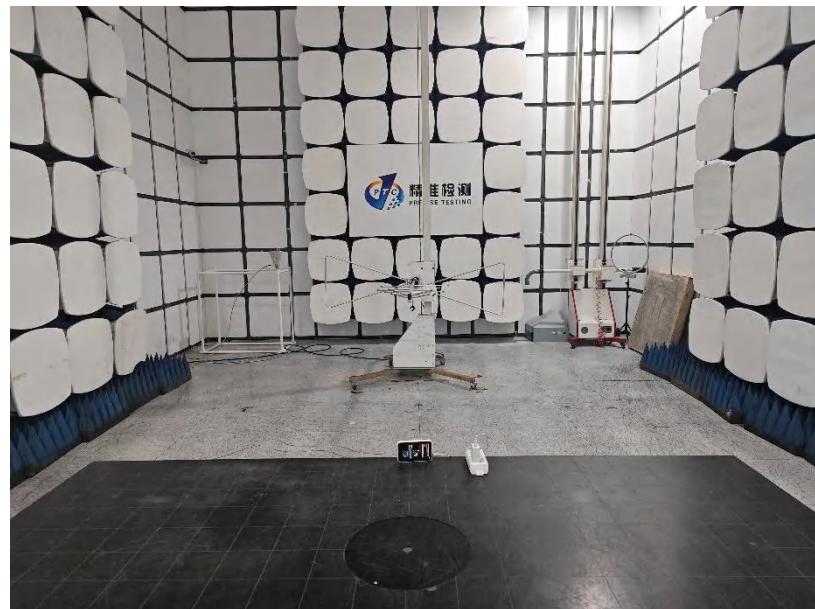
			NV	50	40000.00	6.866953	20	PASS
			NV	50	0.00	0.000000	20	PASS

11 Test Setup

Conducted Emissions



Radiated Spurious Emissions
From 30MHz-1000MHz



Test frequency from Above 1GHz



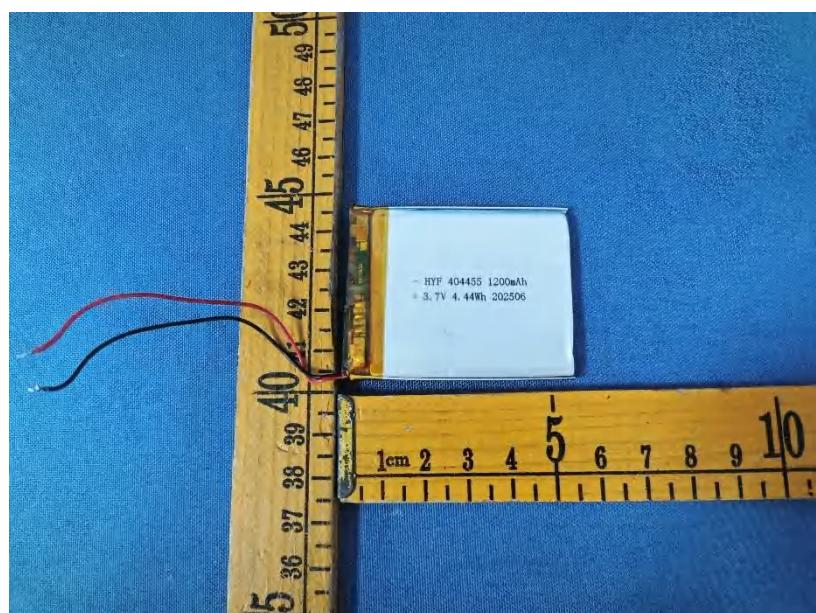
12 EUT PHOTOS

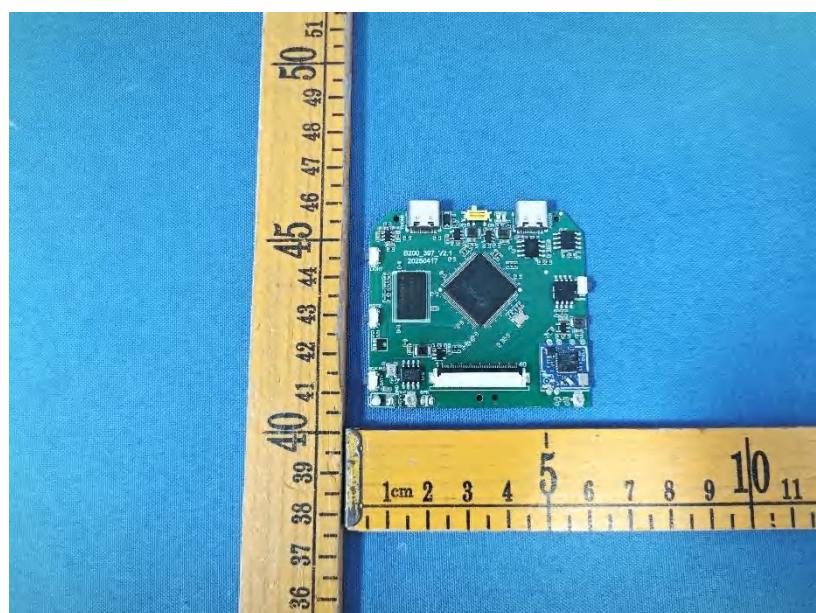


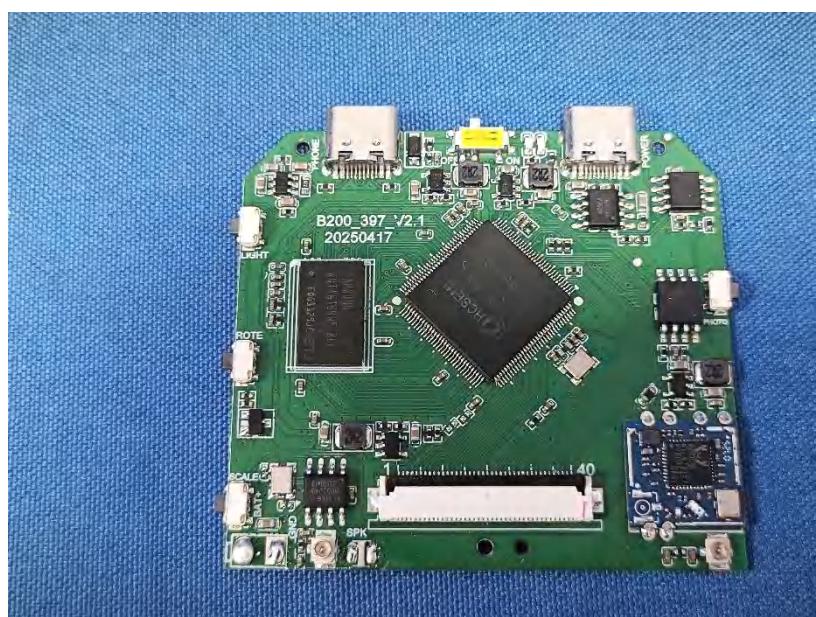
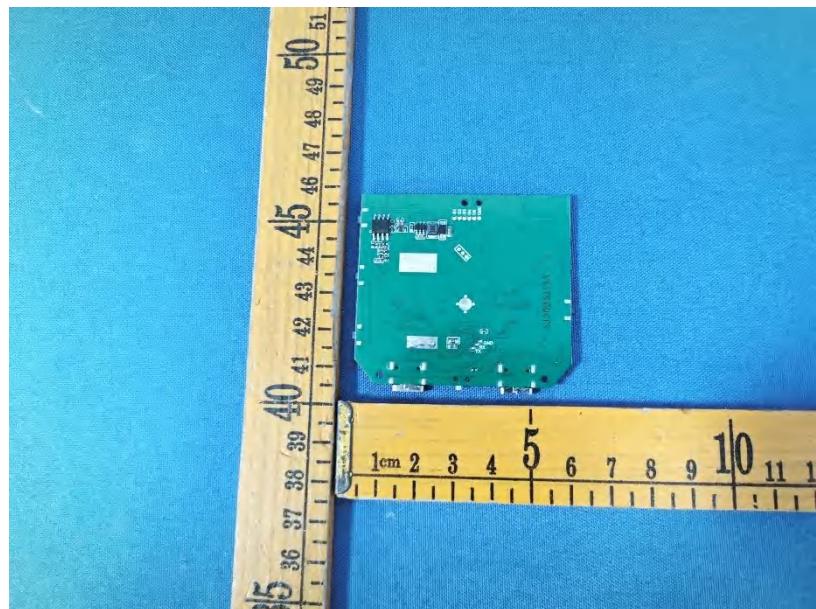




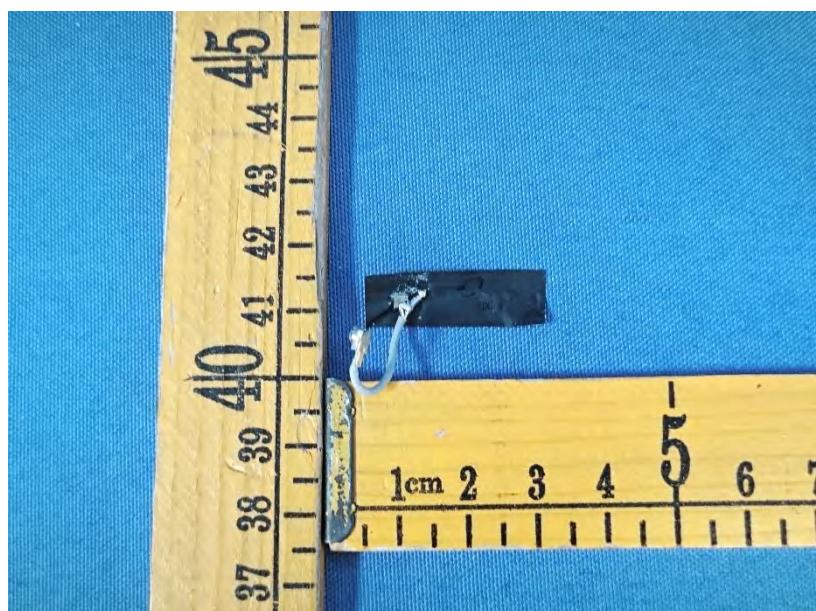


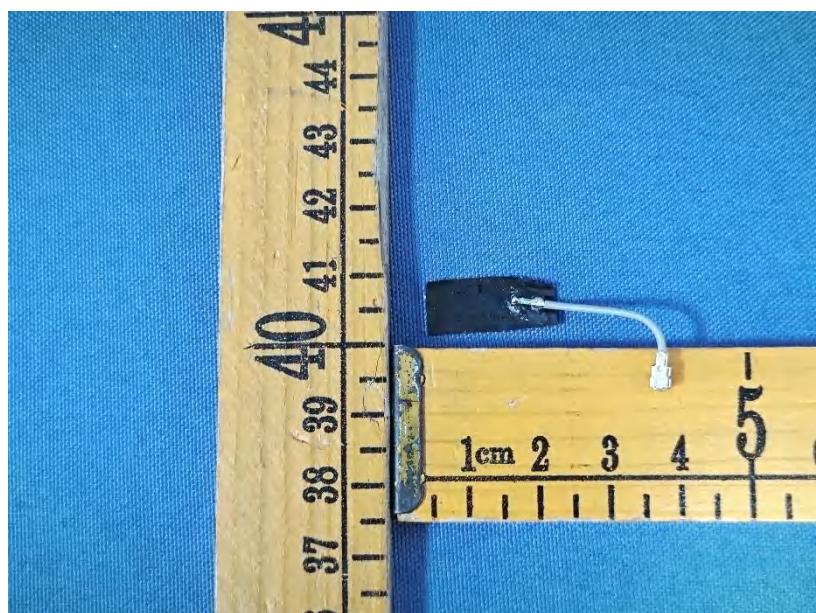
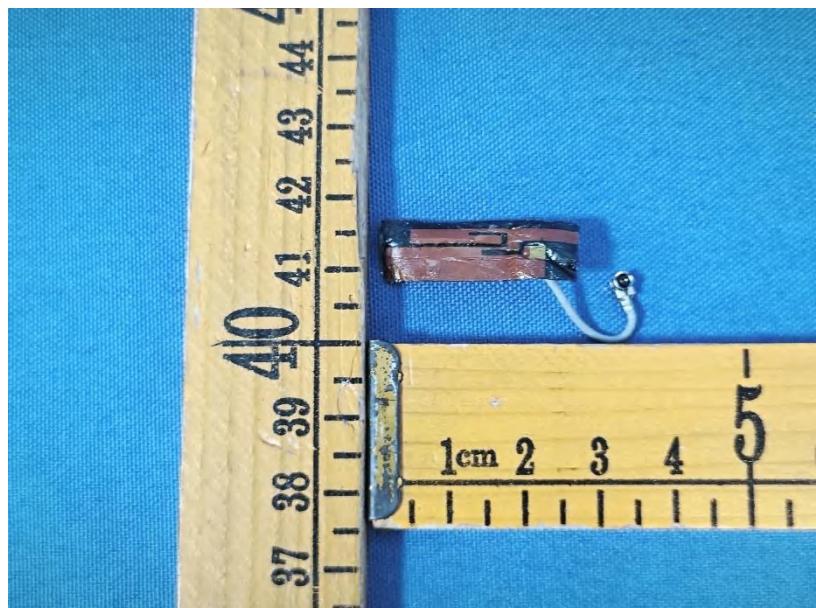


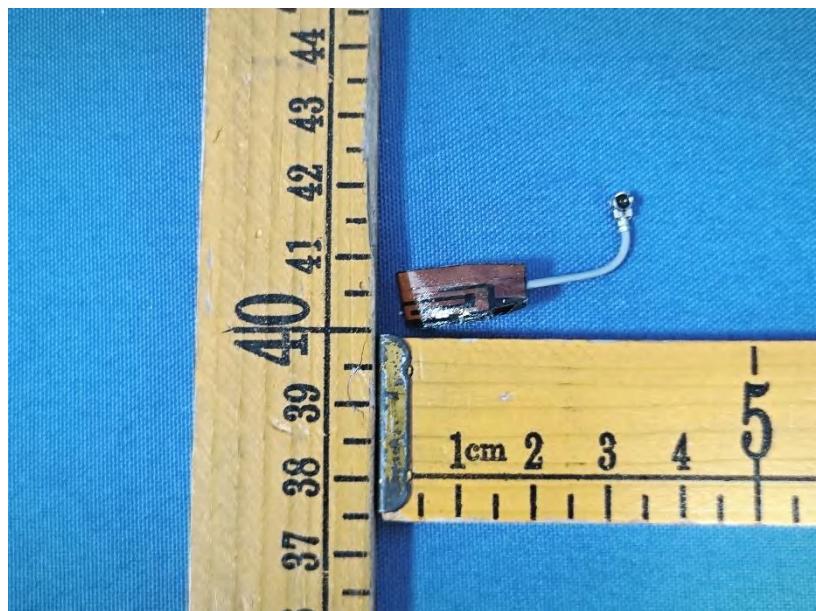












*****THE END REPORT*****