

8.2 MAXIMUM CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(E)

8.2.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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.

(a) (1) (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. 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.

(a) (1) (iv) 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 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. 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

(a) (3) 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

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.2.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- a. The Transmitter output (antenna port) was connected to the power meter.
- b. Turn on the EUT and power meter and then record the power value.
- c. Repeat above procedures on all channels needed to be tested.

8.2.5 Test Results

For 1T1R

Band	Operating mode	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)		Limit (dBm)	Verdict
				Antenna 1	Antenna 2		
U-NII – 1	802.11a	CH36	5180	15.22	14.54	24	Pass
		CH40	5200	15.54	14.76	24	Pass
		CH48	5240	16.15	14.77	24	Pass
	802.11n-HT20	CH36	5180	13.96	13.09	24	Pass
		CH40	5200	14.54	13.33	24	Pass
		CH48	5240	14.88	13.40	24	Pass
	802.11ac(HT20)	CH36	5180	13.78	13.07	24	Pass
		CH40	5200	14.43	13.31	24	Pass
		CH48	5240	14.91	13.36	24	Pass
	802.11n-HT40	CH38	5190	14.67	13.38	24	Pass
		CH46	5230	15.20	13.50	24	Pass
	802.11ac(HT40)	CH38	5190	14.46	13.34	24	Pass
		CH46	5230	14.98	13.47	24	Pass
	802.11ac(HT80)	CH42	5210	11.63	11.31	24	Pass

Band	Operating mode	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)		Limit (dBm)	Verdict
				Antenna 1	Antenna 2		
U-NII – 2A	802.11a	CH52	5260	15.45	15.33	24	Pass
		CH56	5280	14.72	15.49	24	Pass
		CH64	5320	14.10	15.70	24	Pass
	802.11n-HT20	CH52	5260	14.33	14.22	24	Pass
		CH56	5280	13.61	14.40	24	Pass
		CH64	5320	13.00	14.45	24	Pass
	802.11ac(HT20)	CH52	5260	14.51	14.19	24	Pass
		CH56	5280	13.67	14.36	24	Pass
		CH64	5320	13.06	14.42	24	Pass
	802.11n-HT40	CH54	5270	14.34	14.16	24	Pass
		CH62	5310	13.17	14.45	24	Pass
	802.11ac(HT40)	CH54	5270	14.09	14.20	24	Pass
		CH62	5310	12.99	14.50	24	Pass
	802.11ac(HT80)	CH58	5290	9.87	12.17	24	Pass

Band	Operating mode	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)		Limit (dBm)	Verdict
				Antenna 1	Antenna 2		
U-NII – 2C	802.11a	CH100	5500	14.68	14.97	24	Pass
		CH116	5580	16.86	14.99	24	Pass
		CH140	5700	14.16	14.98	24	Pass
	802.11n-HT20	CH100	5500	13.44	14.01	24	Pass
		CH116	5580	15.72	14.05	24	Pass
		CH140	5700	12.90	13.91	24	Pass
	802.11ac(HT20)	CH100	5500	13.50	13.97	24	Pass
		CH116	5580	15.72	13.95	24	Pass
		CH140	5700	12.99	13.82	24	Pass
	802.11n-HT40	CH102	5510	14.15	14.09	24	Pass
		CH134	5670	13.80	13.73	24	Pass
	802.11ac(HT40)	CH102	5510	13.83	14.11	24	Pass
		CH134	5670	13.52	13.75	24	Pass
	802.11ac(HT80)	CH106	5530	11.78	11.97	24	Pass

Band	Operating mode	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)		Limit (dBm)	Verdict
				Antenna 1	Antenna 2		
U-NII – 3	802.11a	CH149	5745	14.56	15.32	30	Pass
		CH157	5785	13.93	15.93	30	Pass
		CH165	5825	13.02	15.93	30	Pass
	802.11n-HT20	CH149	5745	14.08	14.12	30	Pass
		CH157	5785	13.03	14.78	30	Pass
		CH165	5825	12.03	14.67	30	Pass
	802.11ac(HT20)	CH149	5745	14.05	14.00	30	Pass
		CH157	5785	13.02	14.67	30	Pass
		CH165	5825	12.03	14.70	30	Pass
	802.11n-HT40	CH151	5755	14.20	14.16	30	Pass
		CH159	5795	13.61	14.89	30	Pass
	802.11ac(HT40)	CH151	5755	14.06	14.00	30	Pass
		CH159	5795	13.16	14.94	30	Pass
	802.11ac(HT80)	CH155	5775	11.47	12.30	30	Pass

For 2T2R

Band	Operating mode	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)	Limit (dBm)	Verdict
U-NII – 1	802.11n-HT20	CH36	5180	16.56	21.5	Pass
		CH40	5200	16.99	21.5	Pass
		CH48	5240	17.21	21.5	Pass
	802.11ac(HT20)	CH36	5180	16.45	21.5	Pass
		CH40	5200	16.92	21.5	Pass
		CH48	5240	17.21	21.5	Pass
	802.11n-HT40	CH38	5190	17.08	21.5	Pass
		CH46	5230	17.44	21.5	Pass
	802.11ac(HT40)	CH38	5190	16.95	21.5	Pass
		CH46	5230	17.30	21.5	Pass
	802.11ac(HT80)	CH42	5210	14.48	21.5	Pass

Band	Operating mode	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)	Limit (dBm)	Verdict
U-NII – 2A	802.11n-HT20	CH52	5260	17.29	21.5	Pass
		CH56	5280	17.03	21.5	Pass
		CH64	5320	16.80	21.5	Pass
	802.11ac(HT20)	CH52	5260	17.36	21.5	Pass
		CH56	5280	17.04	21.5	Pass
		CH64	5320	16.80	21.5	Pass
	802.11n-HT40	CH54	5270	17.26	21.5	Pass
		CH62	5310	16.87	21.5	Pass
	802.11ac(HT40)	CH54	5270	17.16	21.5	Pass
		CH62	5310	16.82	21.5	Pass
	802.11ac(HT80)	CH58	5290	14.18	21.5	Pass

Band	Operating mode	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)	Limit (dBm)	Verdict
U-NII – 2C	802.11n-HT20	CH100	5500	16.74	21.5	Pass
		CH116	5580	17.98	21.5	Pass
		CH140	5700	16.44	21.5	Pass
	802.11ac(HT20)	CH100	5500	16.75	21.5	Pass
		CH116	5580	17.93	21.5	Pass
		CH140	5700	16.44	21.5	Pass
	802.11n-HT40	CH102	5510	17.13	21.5	Pass
		CH134	5670	16.78	21.5	Pass
	802.11ac(HT40)	CH102	5510	16.98	21.5	Pass
		CH134	5670	16.65	21.5	Pass
	802.11ac(HT80)	CH106	5530	14.89	21.5	Pass

Band	Operating mode	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)	Limit (dBm)	Verdict
U-NII – 3	802.11n-HT20	CH149	5745	17.11	27.5	Pass
		CH157	5785	17.00	27.5	Pass
		CH165	5825	16.56	27.5	Pass
	802.11ac(HT20)	CH149	5745	17.04	27.5	Pass
		CH157	5785	16.93	27.5	Pass
		CH165	5825	16.58	27.5	Pass
	802.11n-HT40	CH151	5755	17.19	27.5	Pass
		CH159	5795	17.31	27.5	Pass
	802.11ac(HT40)	CH151	5755	17.04	27.5	Pass
		CH159	5795	17.15	27.5	Pass
	802.11ac(HT80)	CH155	5775	14.92	27.5	Pass

8.3 MAXIMUM PEAK POWER DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I

According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C

According to FCC Part 15.407(a)(3) for UNII Band III

According to 789033 D02 Section II(F)

8.3.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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.

(a) (1) (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. 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.

(a) (1) (iv) 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 5.25-5.35 GHz and 5.47-5.725 GHz bands

(b) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. 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

(a) (3) 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

8.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.3.4 Test Procedure

Methods refer to FCC KDB 789033

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 § 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 $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

8.3.5 Test Results

For 1T1R-Antenna 1

5150-5250MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5180	3.61	11
	5200	3.70	11
	5240	4.47	11
802.11n-HT20	5180	2.11	11
	5200	2.28	11
	5240	3.09	11
802.11ac(HT20)	5180	2.10	11
	5200	2.39	11
	5240	3.26	11
802.11n-HT40	5190	-1.20	11
	5230	0.24	11
802.11ac(HT40)	5190	-1.06	11
	5230	0.31	11
802.11ac(HT80)	5210	-4.76	11

Power Spectral Density
Test Model 802.11a

U-NII - 1
Frequency(MHz)

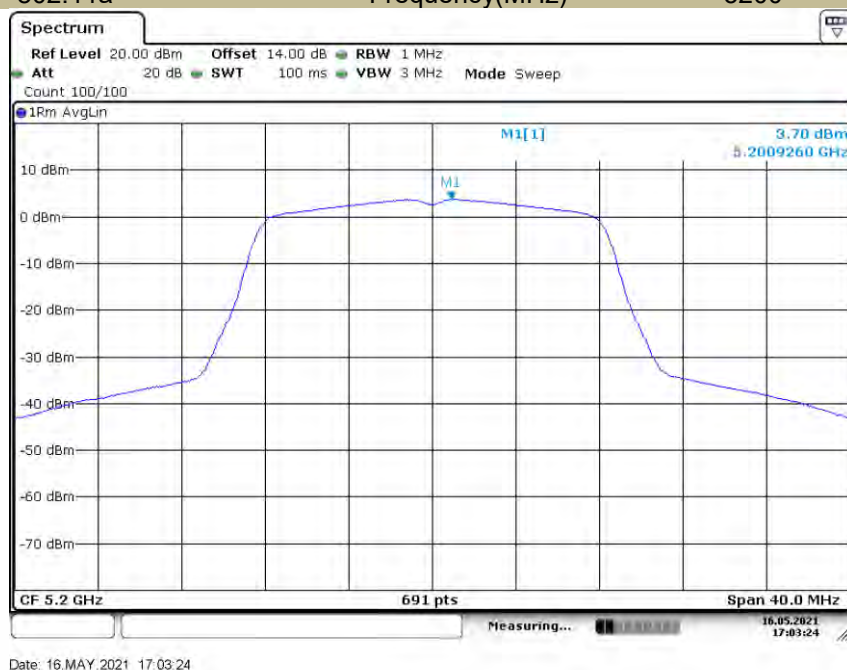
5180



Power Spectral Density
Test Model 802.11a

U-NII - 1
Frequency(MHz)

5200



Power Spectral Density
Test Model 802.11a

U-NII - 1
Frequency(MHz)

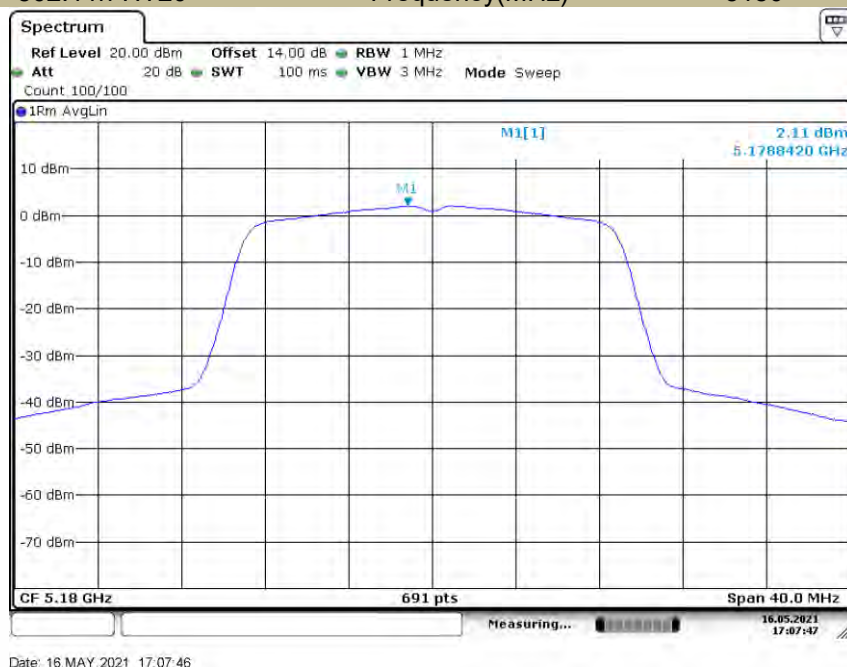
5240



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 1
Frequency(MHz)

5180



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 1
Frequency(MHz)

5200



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 1
Frequency(MHz)

5240



Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 1
Frequency(MHz)

5180



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Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 1
Frequency(MHz)

5200

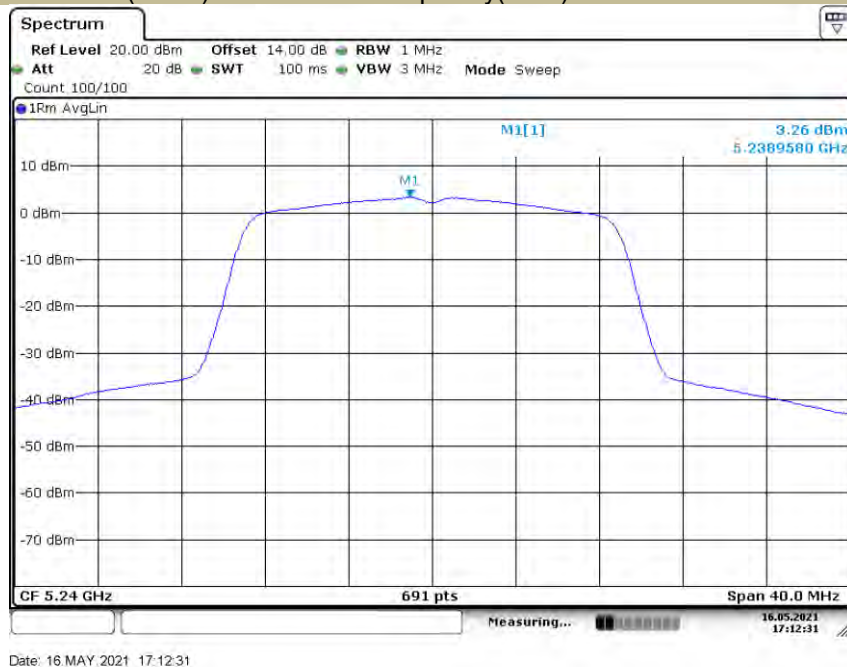


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Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 1
Frequency(MHz)

5240

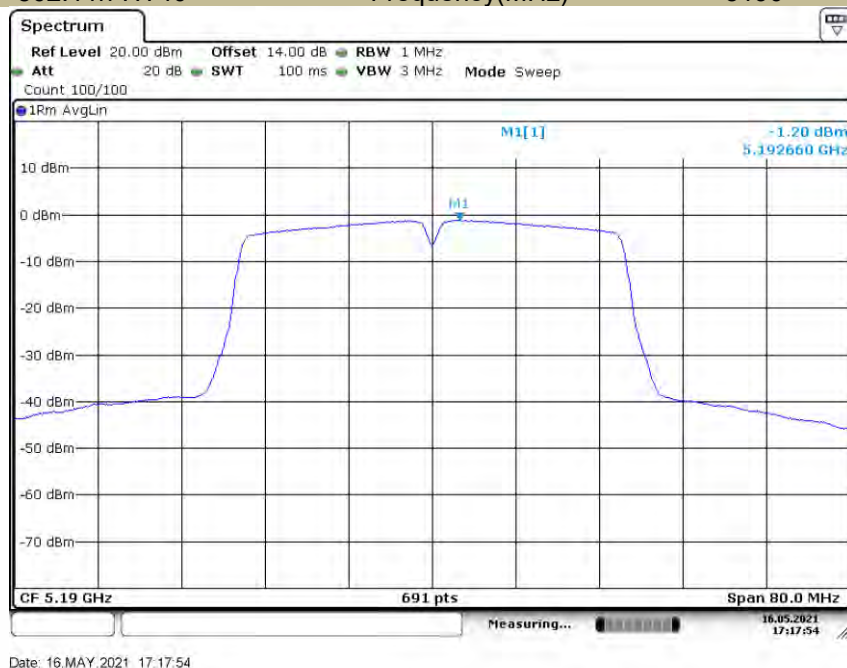


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Power Spectral Density
Test Model 802.11n-HT40

U-NII - 1
Frequency(MHz)

5190

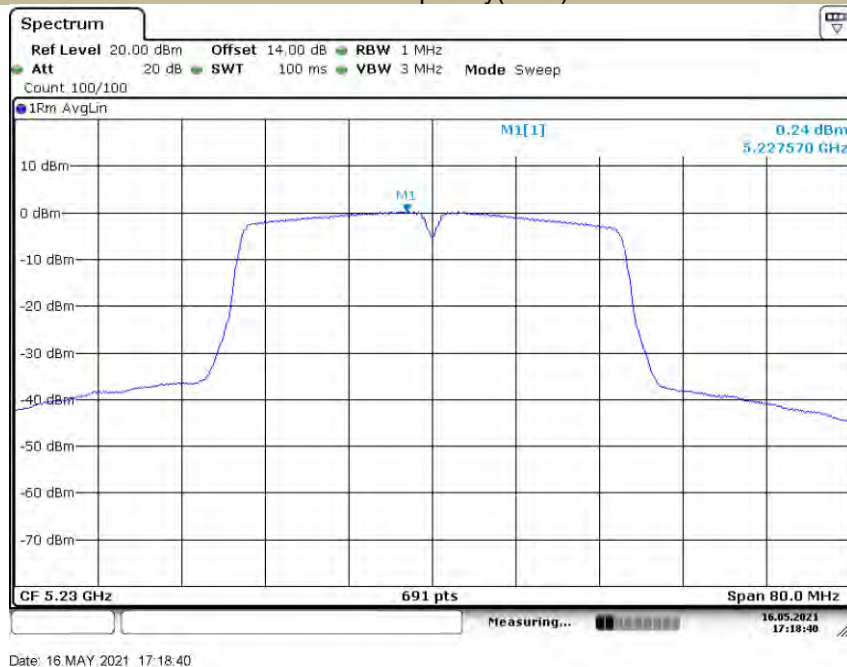


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Power Spectral Density
Test Model 802.11n-HT40

U-NII - 1
Frequency(MHz)

5230



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII - 1
Frequency(MHz)

5190



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII - 1
Frequency(MHz)

5230



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Power Spectral Density
Test Model 802.11ac 80

U-NII - 1
Frequency(MHz)

5210



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5250-5350MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5260	3.11	11
	5280	3.23	11
	5320	3.44	11
802.11n-HT20	5260	1.68	11
	5280	1.83	11
	5320	2.06	11
802.11ac(HT20)	5260	1.64	11
	5280	1.87	11
	5320	2.05	11
802.11n-HT40	5270	-1.79	11
	5310	-1.42	11
802.11ac(HT40)	5270	-1.63	11
	5310	-1.30	11
802.11ac(HT80)	5290	-7.05	11

Power Spectral Density
Test Model 802.11a

U-NII – 2A
Frequency(MHz) 5260



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Power Spectral Density
Test Model 802.11a

U-NII – 2A
Frequency(MHz) 5280



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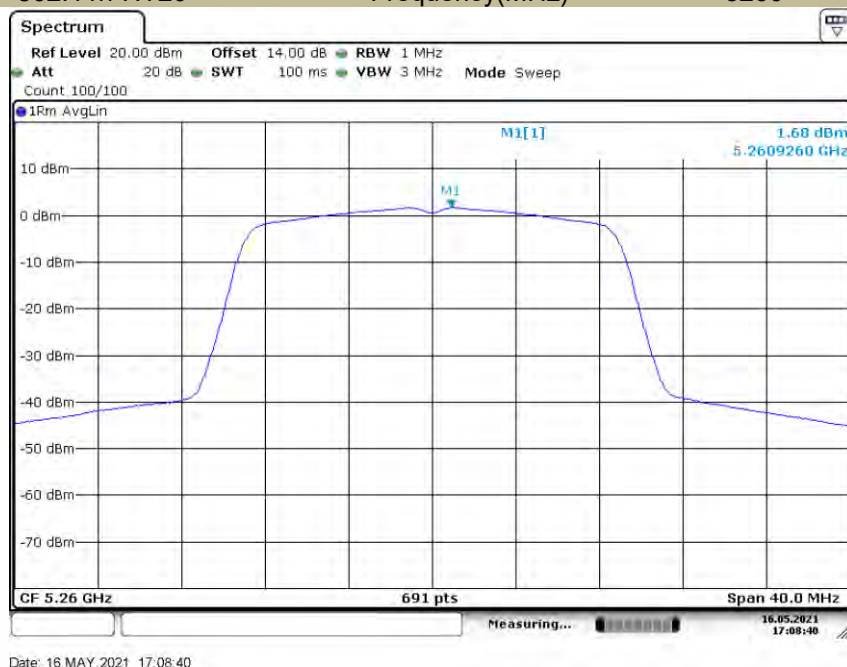
Power Spectral Density
Test Model 802.11a

U-NII – 2A
Frequency(MHz) 5320



Power Spectral Density
Test Model 802.11n-HT20

U-NII – 2A
Frequency(MHz) 5260



Power Spectral Density
Test Model 802.11n-HT20

U-NII – 2A
Frequency(MHz) 5280



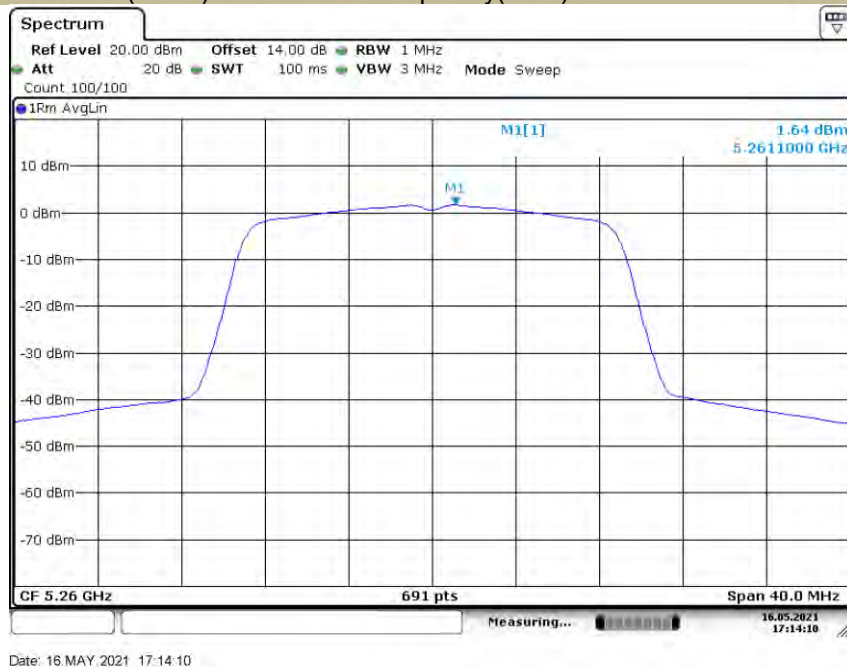
Power Spectral Density
Test Model 802.11n-HT20

U-NII – 2A
Frequency(MHz) 5320



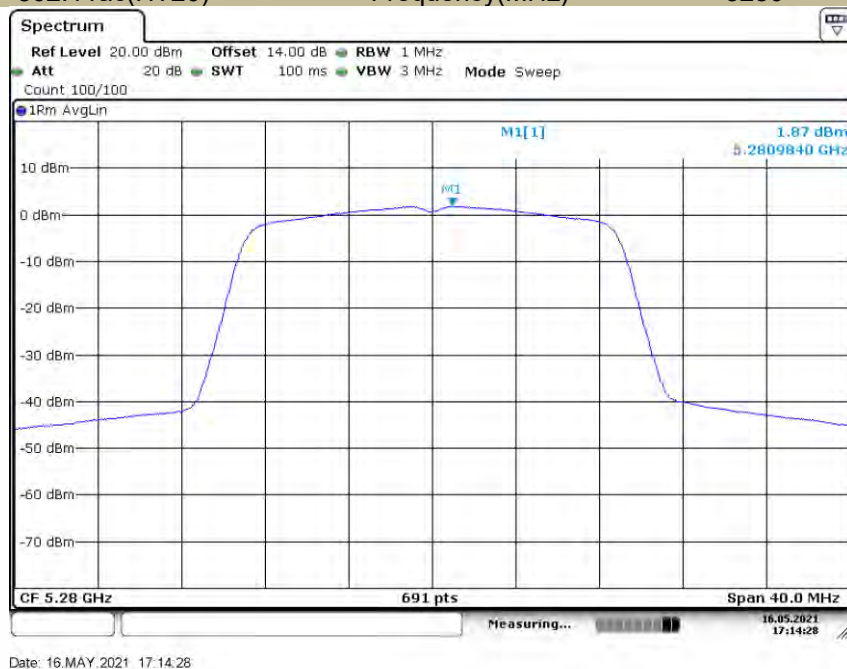
Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2A
Frequency(MHz) 5260



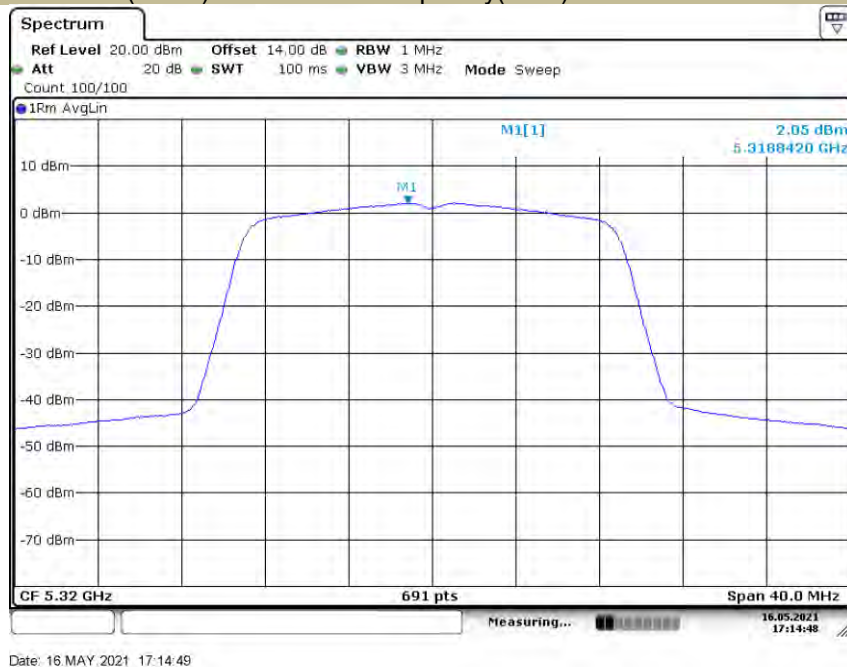
Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2A
Frequency(MHz) 5280



Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2A
Frequency(MHz) 5320



Power Spectral Density
Test Model 802.11n-HT40

U-NII – 2A
Frequency(MHz) 5270



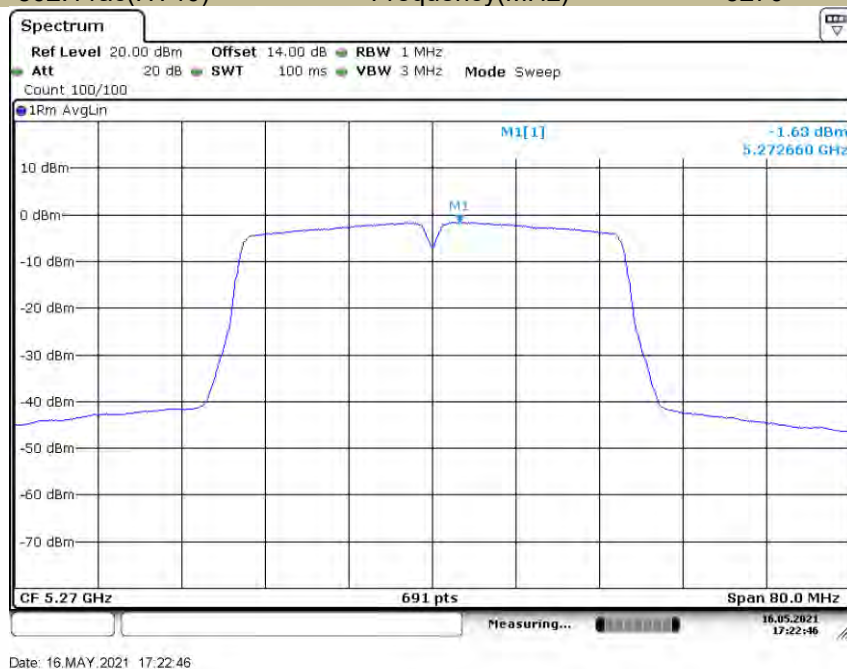
Power Spectral Density
Test Model 802.11n-HT40

U-NII – 2A
Frequency(MHz) 5310



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII – 2A
Frequency(MHz) 5270



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII – 2A
Frequency(MHz)

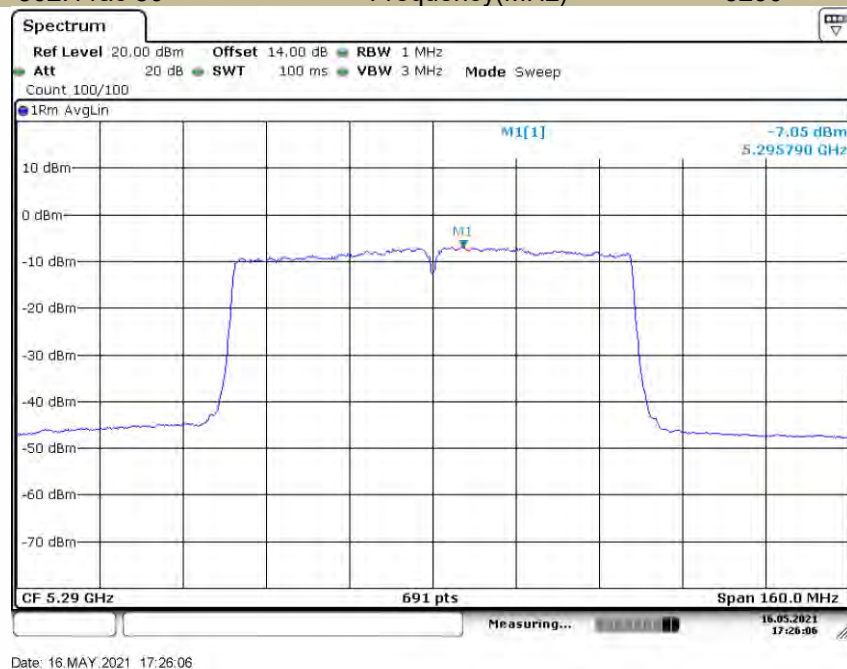
5310



Power Spectral Density
Test Model 802.11ac 80

U-NII – 2A
Frequency(MHz)

5290

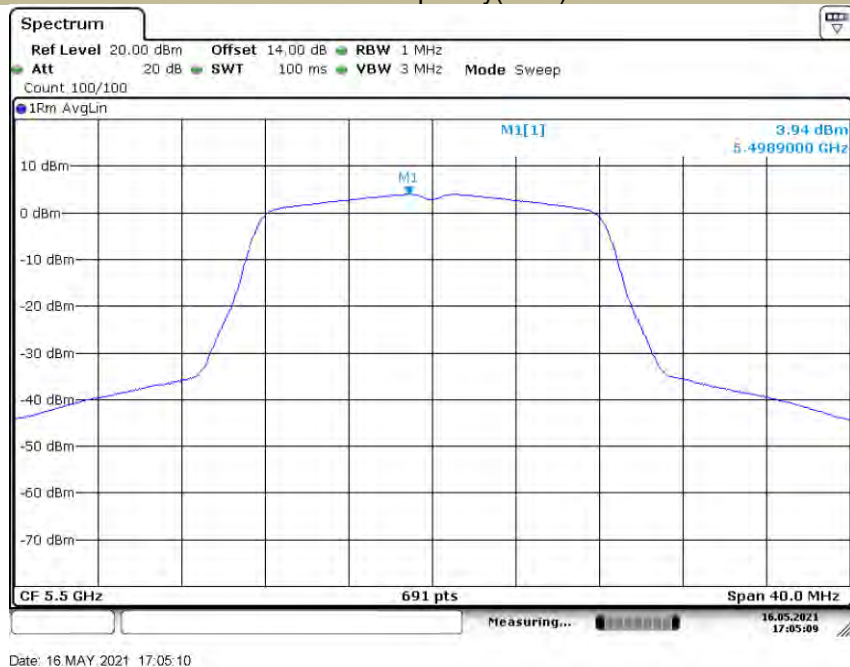


5470-5725MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5500	3.94	11
	5580	4.50	11
	5700	4.23	11
802.11n-HT20	5500	3.00	11
	5580	3.51	11
	5700	3.23	11
802.11ac(HT20)	5500	2.97	11
	5580	3.51	11
	5700	3.17	11
802.11n-HT40	5510	-0.34	11
	5670	-1.26	11
802.11ac(HT40)	5510	-0.26	11
	5670	-1.14	11
802.11ac(HT80)	5530	-5.28	11

Power Spectral Density
Test Model 802.11a

U-NII – 2C
Frequency(MHz) 5500



Power Spectral Density
Test Model 802.11a

U-NII – 2C
Frequency(MHz) 5580



Power Spectral Density
Test Model 802.11a

U-NII – 2C
Frequency(MHz) 5700



Power Spectral Density
Test Model 802.11n-HT20

U-NII – 2C
Frequency(MHz) 5500



Power Spectral Density
Test Model 802.11n-HT20

U-NII – 2C
Frequency(MHz)

5580



Power Spectral Density
Test Model 802.11n-HT20

U-NII – 2C
Frequency(MHz)

5700



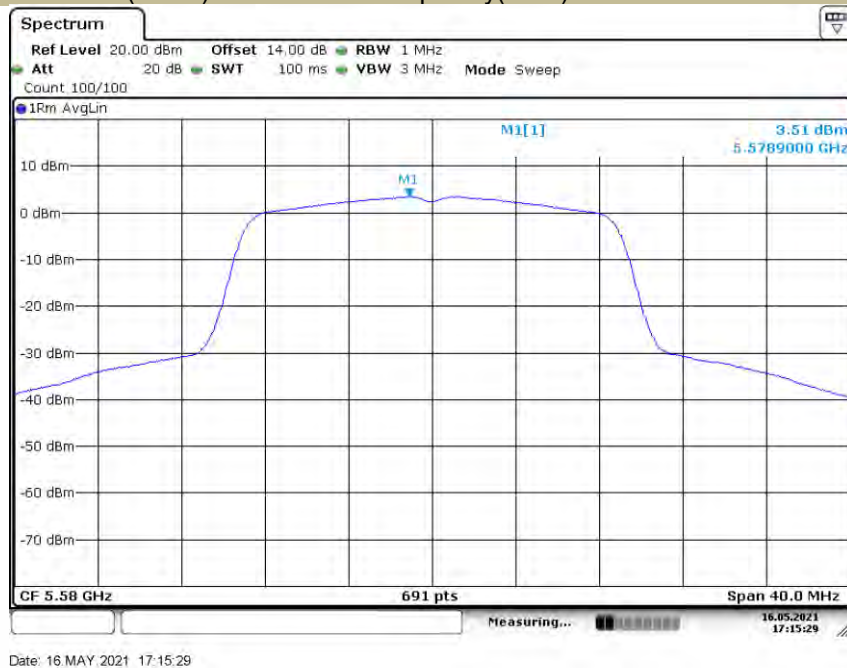
Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2C
Frequency(MHz) 5500



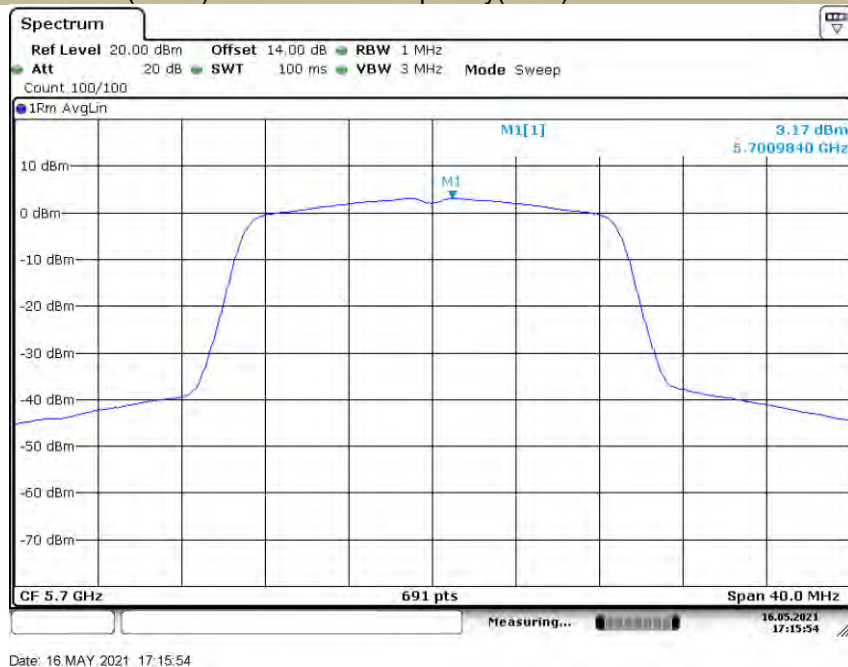
Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2C
Frequency(MHz) 5580



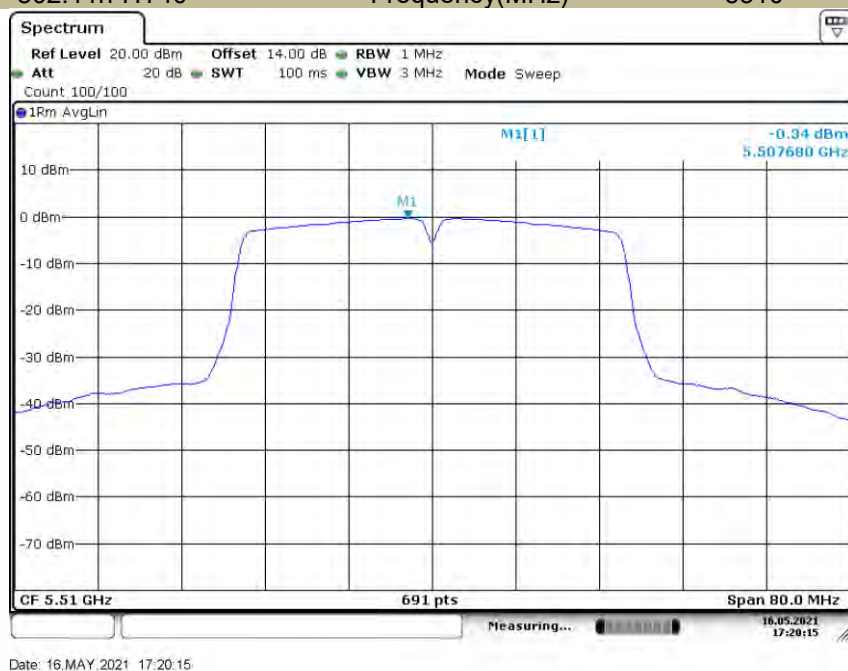
Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2C
Frequency(MHz) 5700



Power Spectral Density
Test Model 802.11n-HT40

U-NII – 2C
Frequency(MHz) 5510



Power Spectral Density
Test Model 802.11n-HT40

U-NII – 2C
Frequency(MHz) 5670



Date: 16.MAY.2021 17:20:34

Power Spectral Density
Test Model 802.11ac(HT40)

U-NII – 2C
Frequency(MHz) 5510



Date: 16.MAY.2021 17:23:27

Power Spectral Density
Test Model 802.11ac(HT40)

U-NII – 2C
Frequency(MHz) 5670



Date: 16.MAY.2021 17:23:48

Power Spectral Density
Test Model 802.11ac 80

U-NII – 2C
Frequency(MHz) 5530



Date: 16.MAY.2021 17:26:28

5725-5850MHz

Operating mode	Test Channel	Power Spectral Density dBm/500kHz	Limit (dBm/500kHz)
802.11a	5745	1.75	30
	5785	1.62	30
	5825	-0.36	30
802.11n-HT20	5745	0.38	30
	5785	0.20	30
	5825	-1.47	30
802.11ac(HT20)	5745	0.27	30
	5785	-0.19	30
	5825	-1.64	30
802.11n-HT40	5755	-3.04	30
	5795	-3.06	30
802.11ac(HT40)	5755	-2.95	30
	5795	-3.05	30
802.11ac(HT80)	5775	-8.39	30

Power Spectral Density
Test Model 802.11a

U-NII - 3
Frequency(MHz)

5745



Date: 16 MAY 2021 17:07:01

Power Spectral Density
Test Model 802.11a

U-NII - 3
Frequency(MHz)

5785

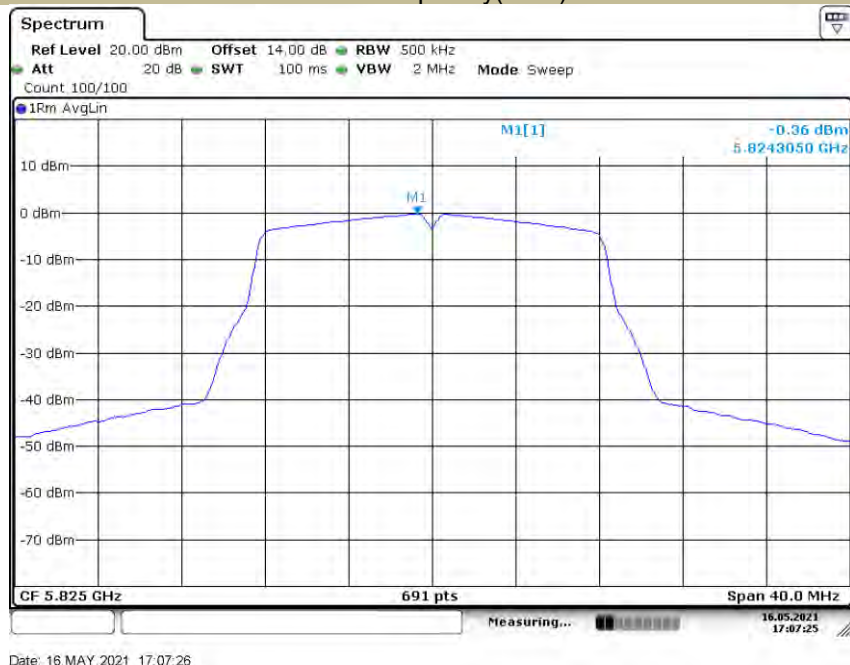


Date: 16 MAY 2021 17:06:34

Power Spectral Density
Test Model 802.11a

U-NII - 3
Frequency(MHz)

5825



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 3
Frequency(MHz)

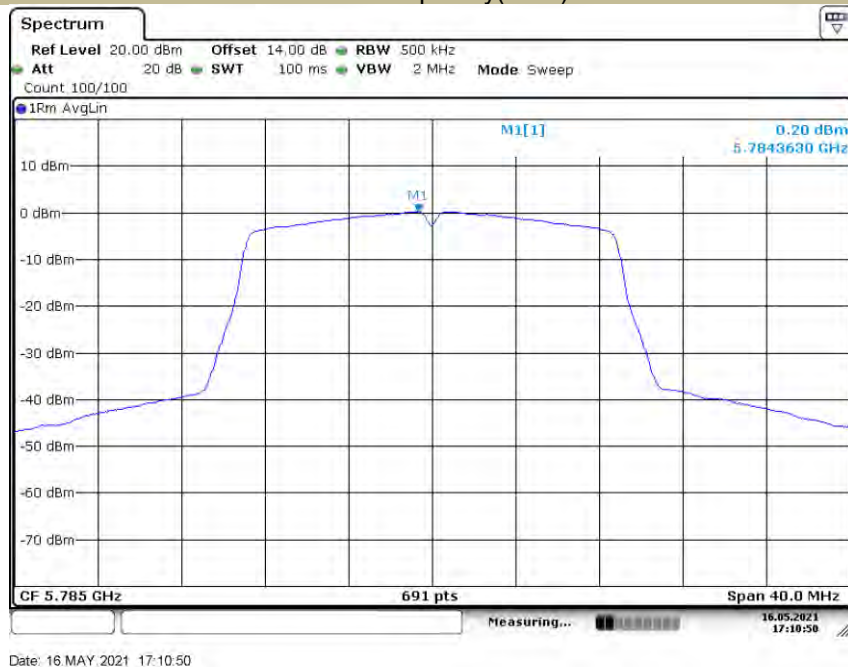
5745



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 3
Frequency(MHz)

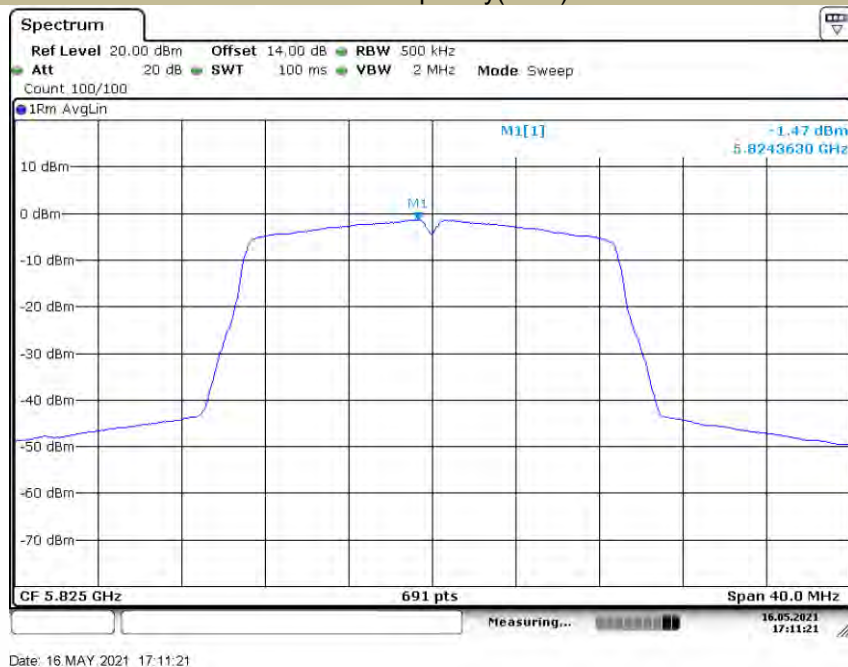
5785



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 3
Frequency(MHz)

5825



Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 3
Frequency(MHz)

5745



Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 3
Frequency(MHz)

5785



Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 3
Frequency(MHz)

5825



Power Spectral Density
Test Model 802.11n-HT40

U-NII - 3
Frequency(MHz)

5755



Power Spectral Density
Test Model 802.11n-HT40

U-NII - 3
Frequency(MHz)

5795



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII - 3
Frequency(MHz)

5755



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII - 3
Frequency(MHz)

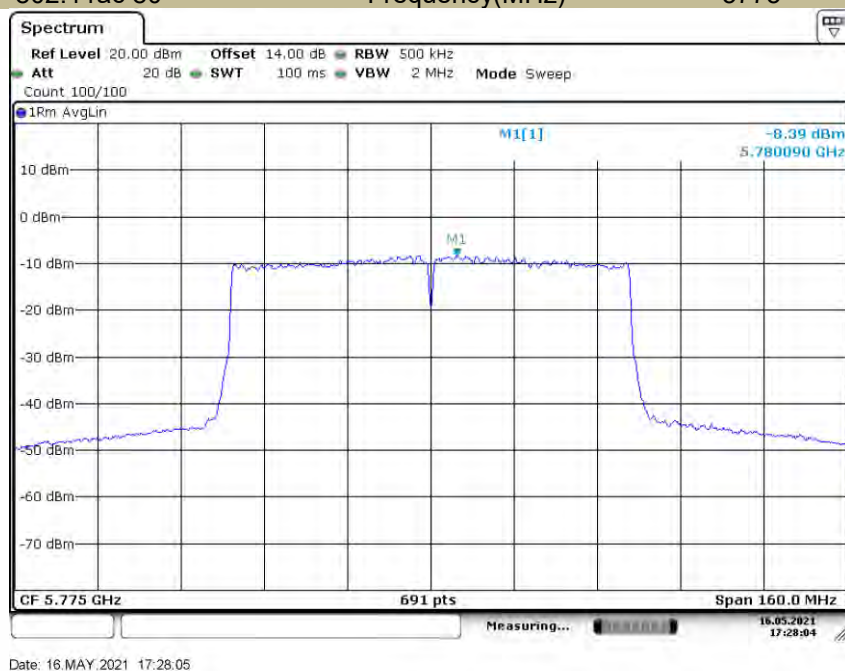
5795



Power Spectral Density
Test Model 802.11ac 80

U-NII - 3
Frequency(MHz)

5775



For 1T1R-Antenna 2

5150-5250MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5180	3.75	11
	5200	4.10	11
	5240	4.20	11
802.11n-HT20	5180	2.49	11
	5200	2.75	11
	5240	2.69	11
802.11ac(HT20)	5180	2.42	11
	5200	2.69	11
	5240	2.61	11
802.11n-HT40	5190	-0.84	11
	5230	-0.49	11
802.11ac(HT40)	5190	-0.84	11
	5230	-0.54	11
802.11ac(HT80)	5210	-5.82	11

Power Spectral Density
Test Model 802.11a

U-NII - 1
Frequency(MHz)

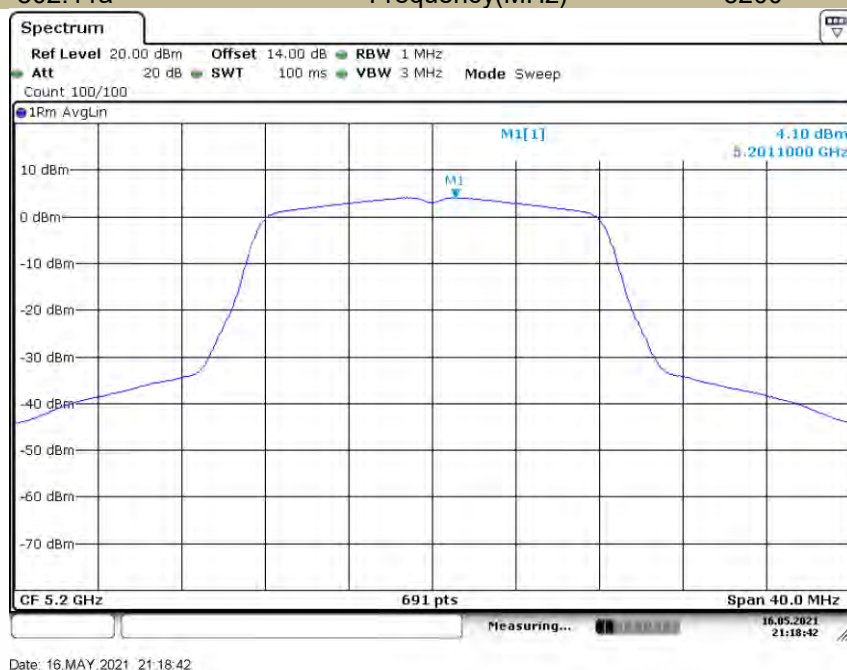
5180



Power Spectral Density
Test Model 802.11a

U-NII - 1
Frequency(MHz)

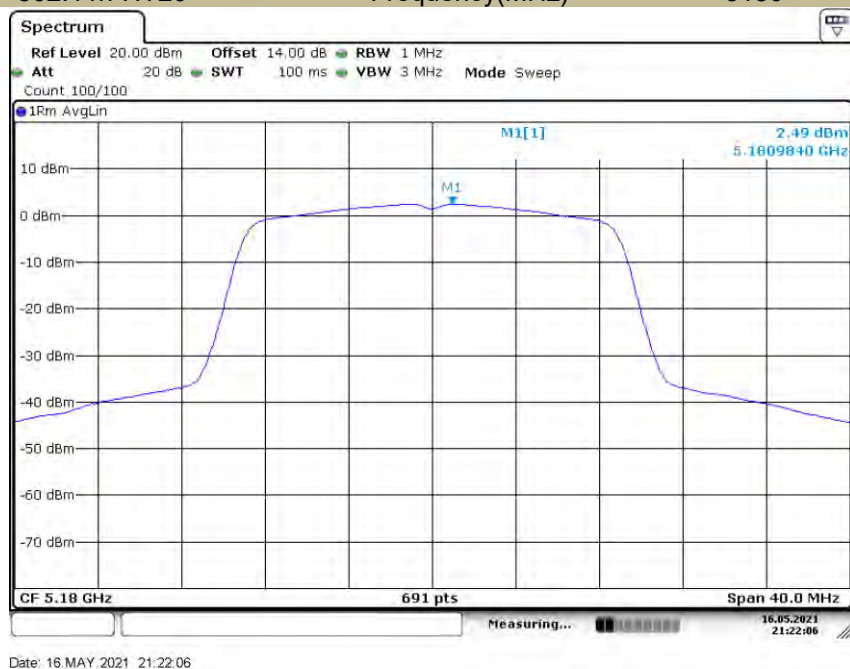
5200



U-NII - 1	
Frequency(MHz)	5240



U-NII - 1	
Frequency(MHz)	5180



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 1
Frequency(MHz)

5200



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 1
Frequency(MHz)

5240



Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 1
Frequency(MHz)

5180

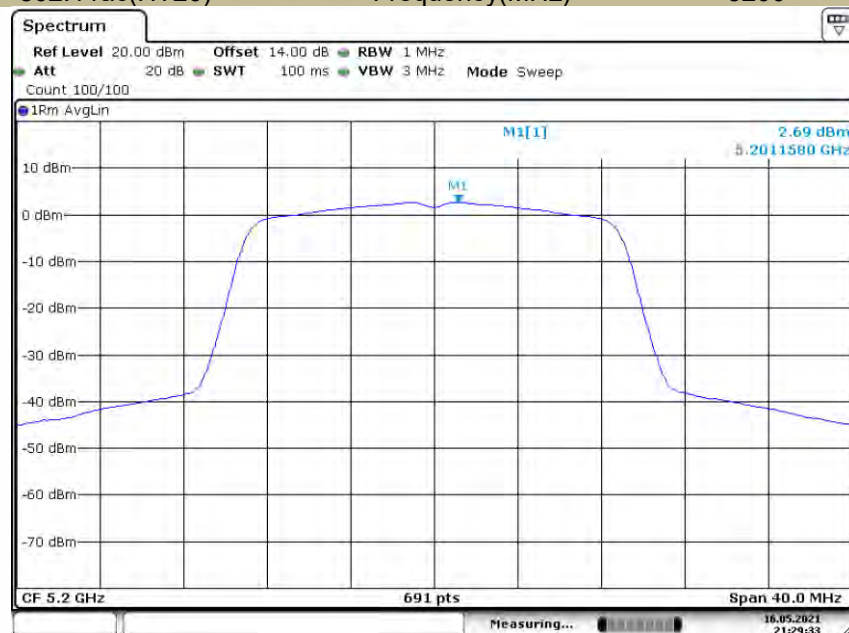


Date: 16 MAY 2021 21:28:14

Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 1
Frequency(MHz)

5200

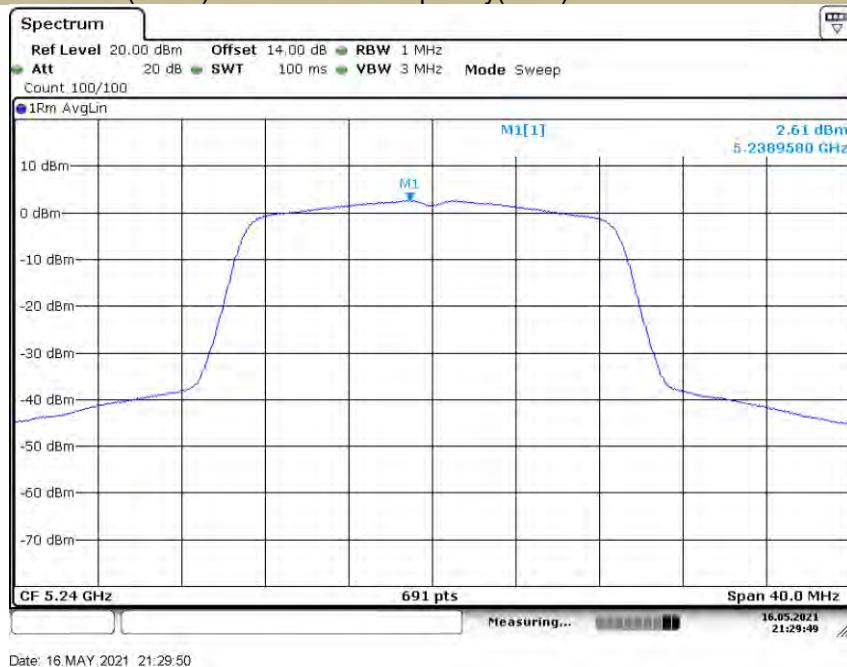


Date: 16 MAY 2021 21:29:33

Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 1
Frequency(MHz)

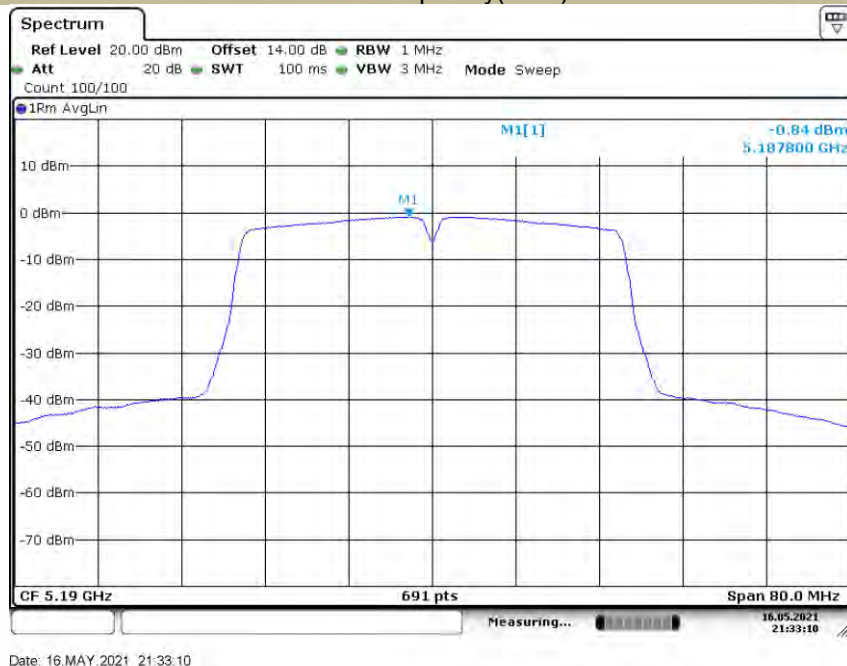
5240



Power Spectral Density
Test Model 802.11n-HT40

U-NII - 1
Frequency(MHz)

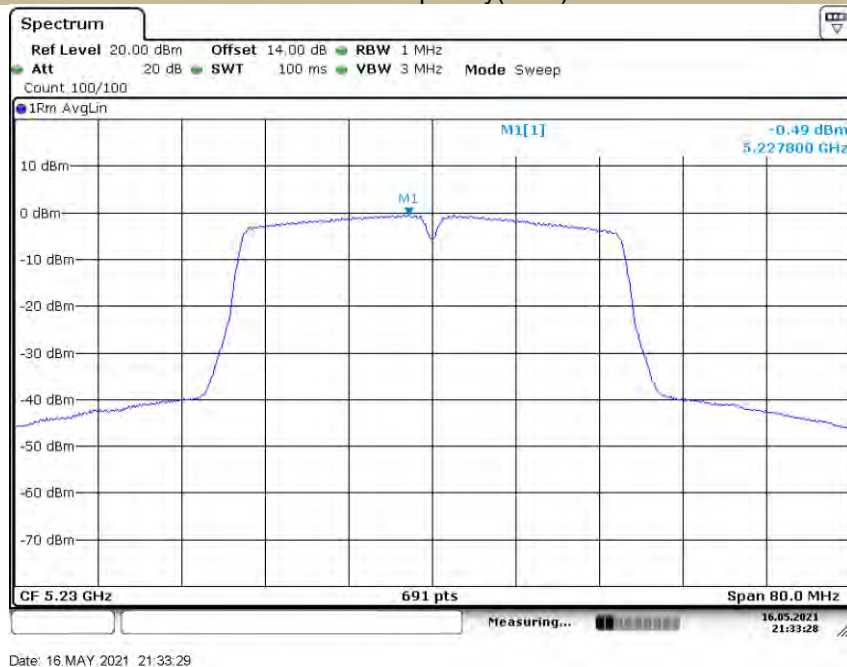
5190



Power Spectral Density
Test Model 802.11n-HT40

U-NII - 1
Frequency(MHz)

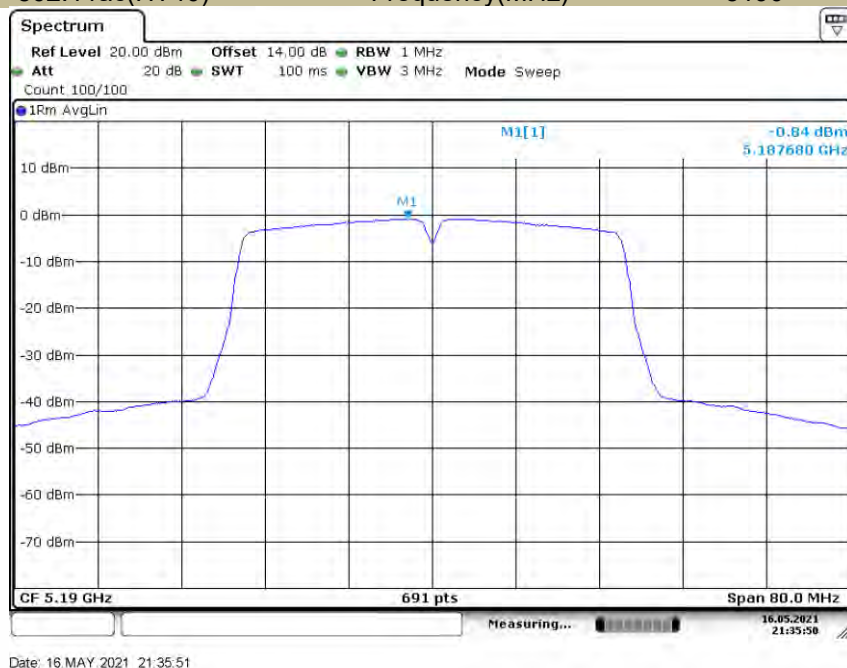
5230



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII - 1
Frequency(MHz)

5190



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII - 1
Frequency(MHz)

5230



Date: 16 MAY 2021 21:36:09

Power Spectral Density
Test Model 802.11ac 80

U-NII - 1
Frequency(MHz)

5210



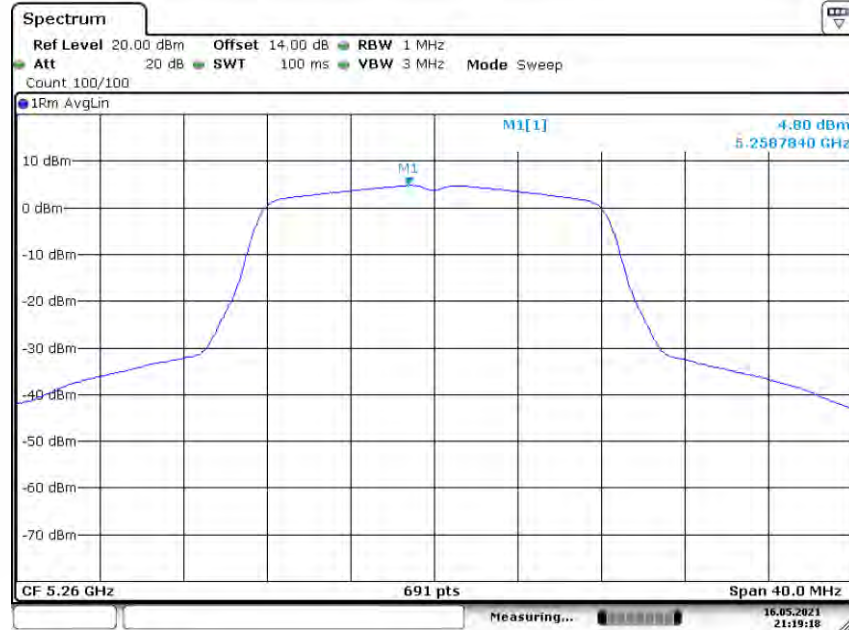
Date: 16 MAY 2021 21:39:24

5250-5350MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5260	4.80	11
	5280	4.90	11
	5320	5.18	11
802.11n-HT20	5260	3.43	11
	5280	3.59	11
	5320	3.85	11
802.11ac(HT20)	5260	3.37	11
	5280	3.55	11
	5320	3.82	11
802.11n-HT40	5270	0.20	11
	5310	0.47	11
802.11ac(HT40)	5270	0.17	11
	5310	0.41	11
802.11ac(HT80)	5290	-5.18	11

Power Spectral Density
Test Model 802.11a

U-NII – 2A
Frequency(MHz) 5260



Date: 16 MAY 2021 21:19:18

Power Spectral Density
Test Model 802.11a

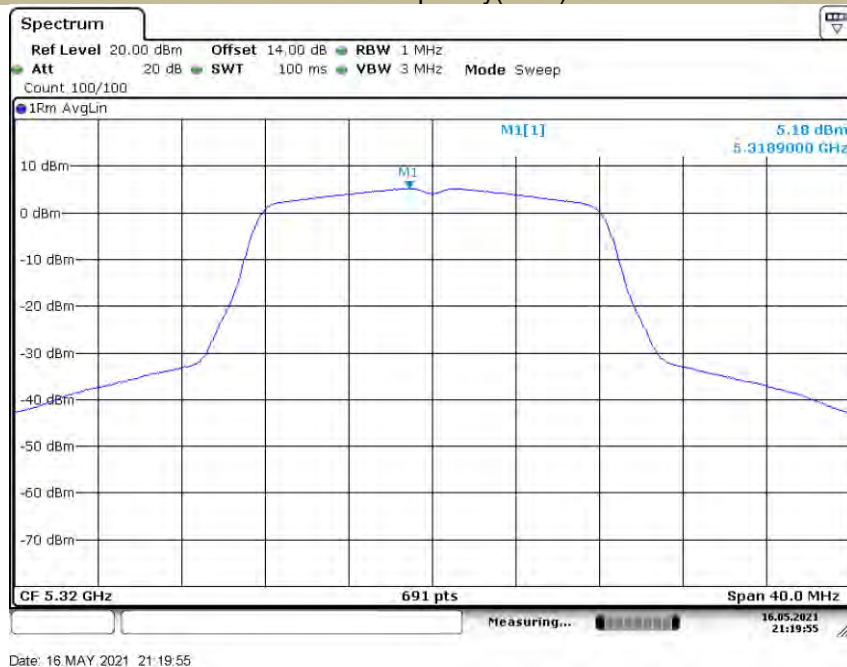
U-NII – 2A
Frequency(MHz) 5280



Date: 16 MAY 2021 21:19:36

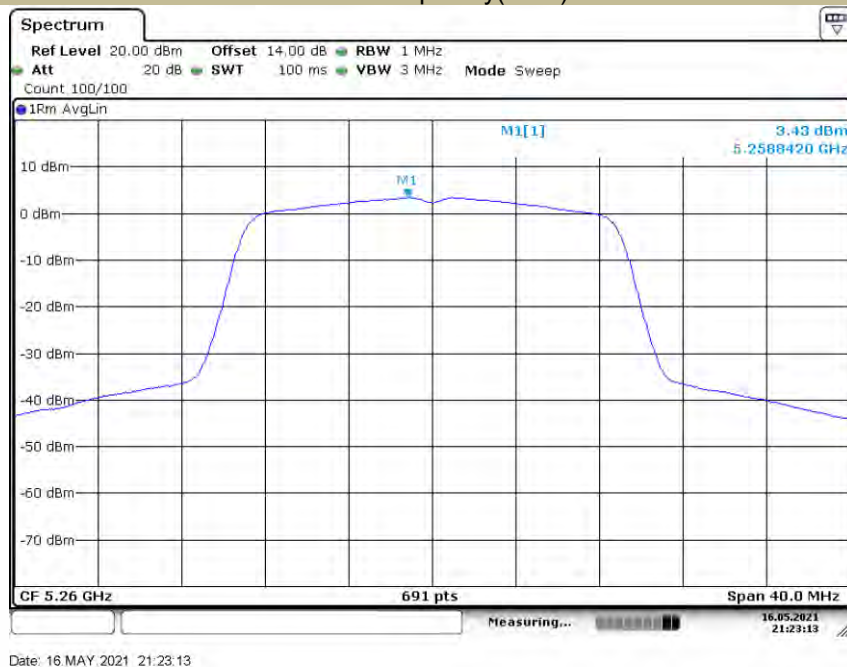
Power Spectral Density
Test Model 802.11a

U-NII – 2A
Frequency(MHz) 5320



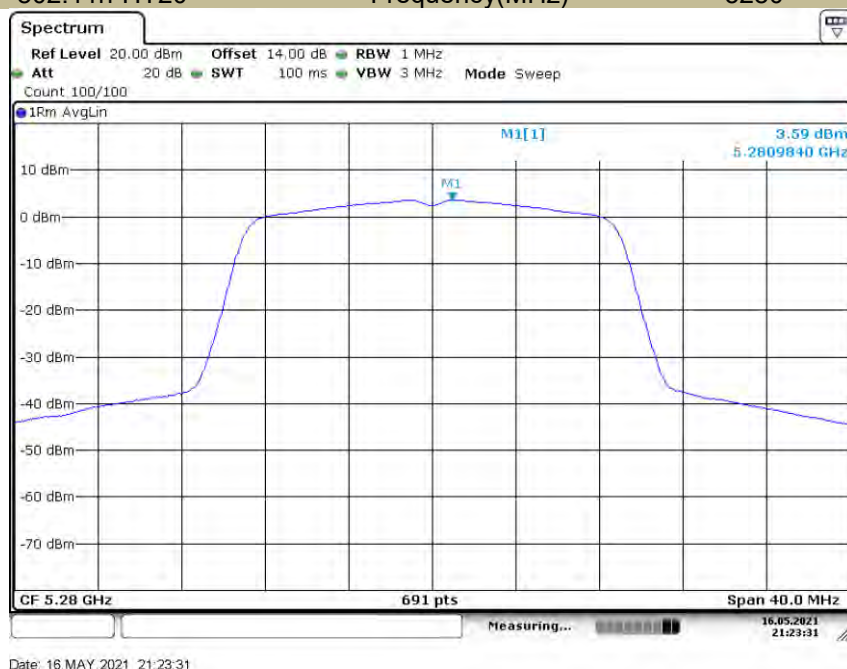
Power Spectral Density
Test Model 802.11n-HT20

U-NII – 2A
Frequency(MHz) 5260



Power Spectral Density
Test Model 802.11n-HT20

U-NII – 2A
Frequency(MHz) 5280



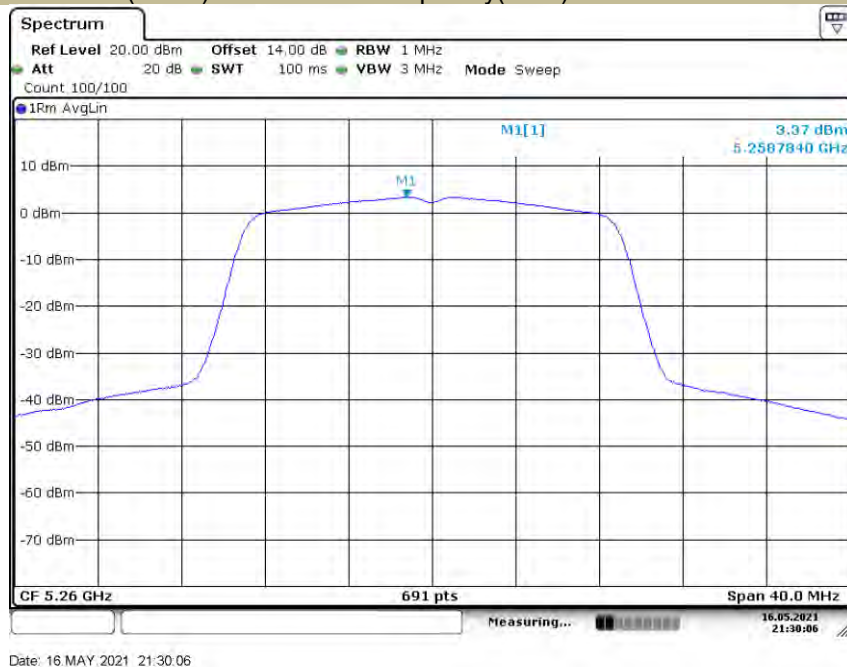
Power Spectral Density
Test Model 802.11n-HT20

U-NII – 2A
Frequency(MHz) 5320



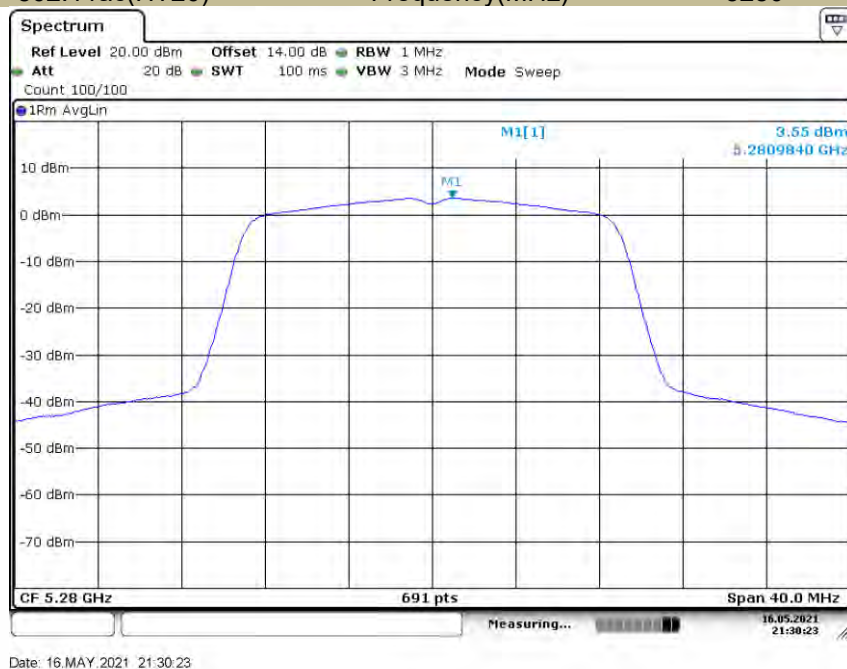
Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2A
Frequency(MHz) 5260



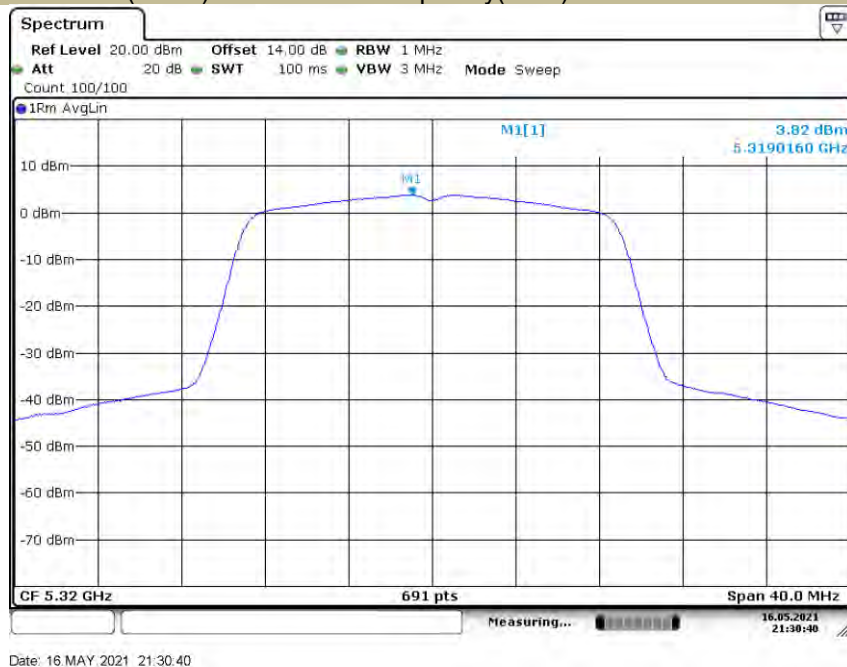
Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2A
Frequency(MHz) 5280



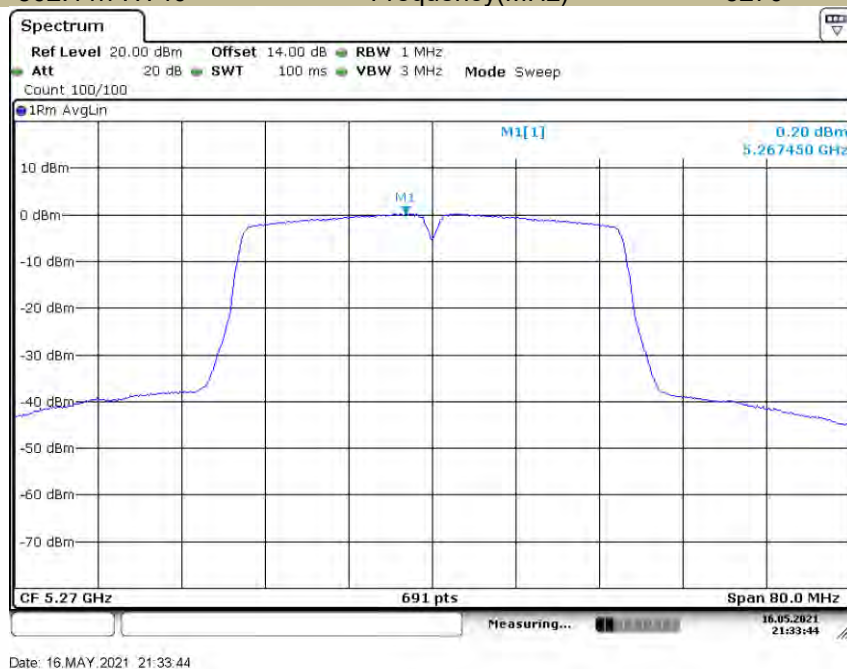
Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2A
Frequency(MHz) 5320



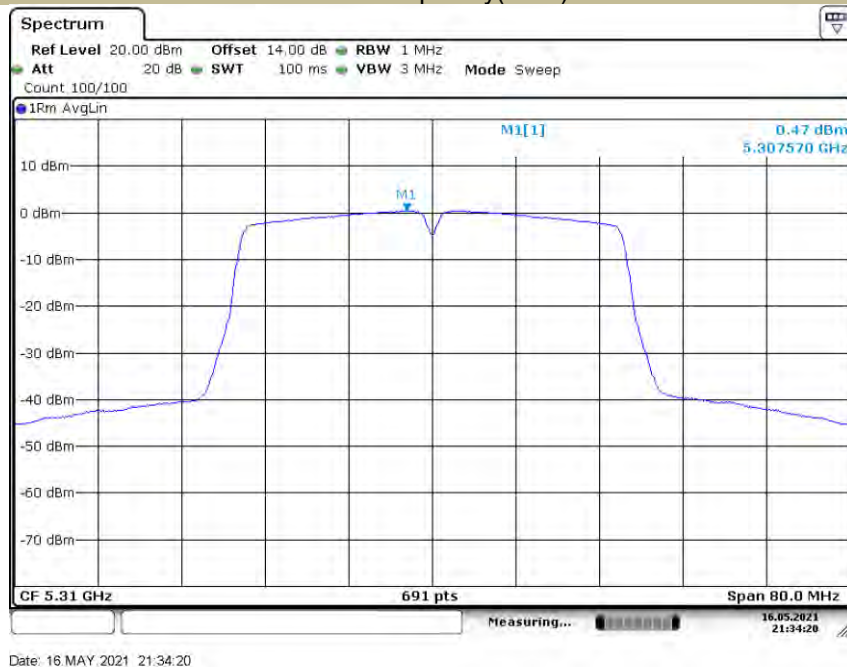
Power Spectral Density
Test Model 802.11n-HT40

U-NII – 2A
Frequency(MHz) 5270



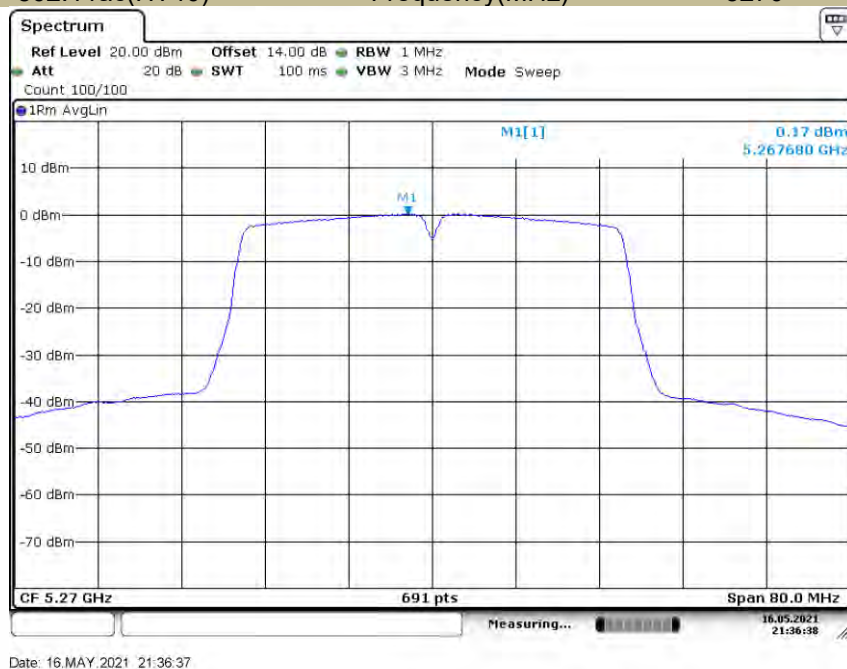
Power Spectral Density
Test Model 802.11n-HT40

U-NII – 2A
Frequency(MHz) 5310



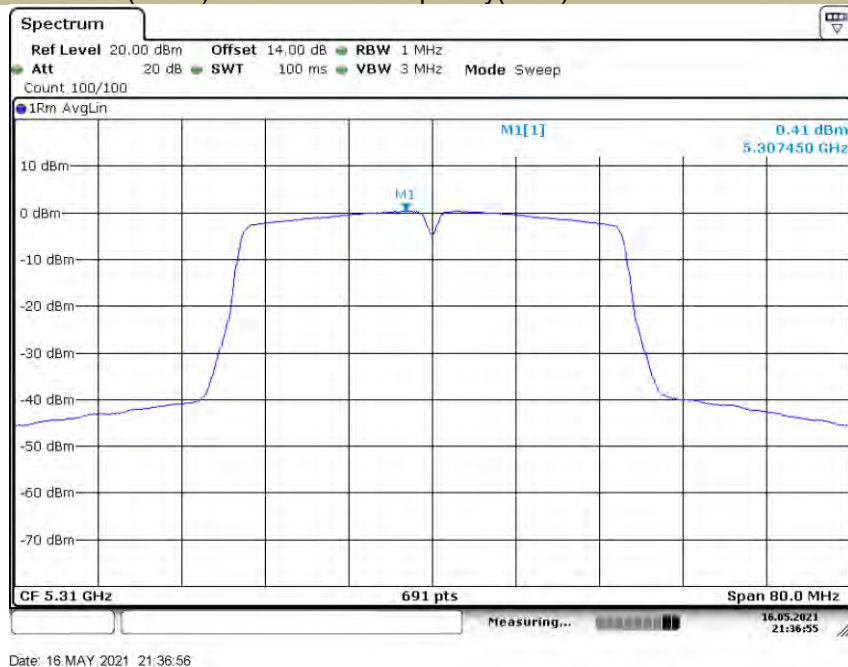
Power Spectral Density
Test Model 802.11ac(HT40)

U-NII – 2A
Frequency(MHz) 5270



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII – 2A
Frequency(MHz) 5310



Power Spectral Density
Test Model 802.11ac 80

U-NII – 2A
Frequency(MHz) 5290

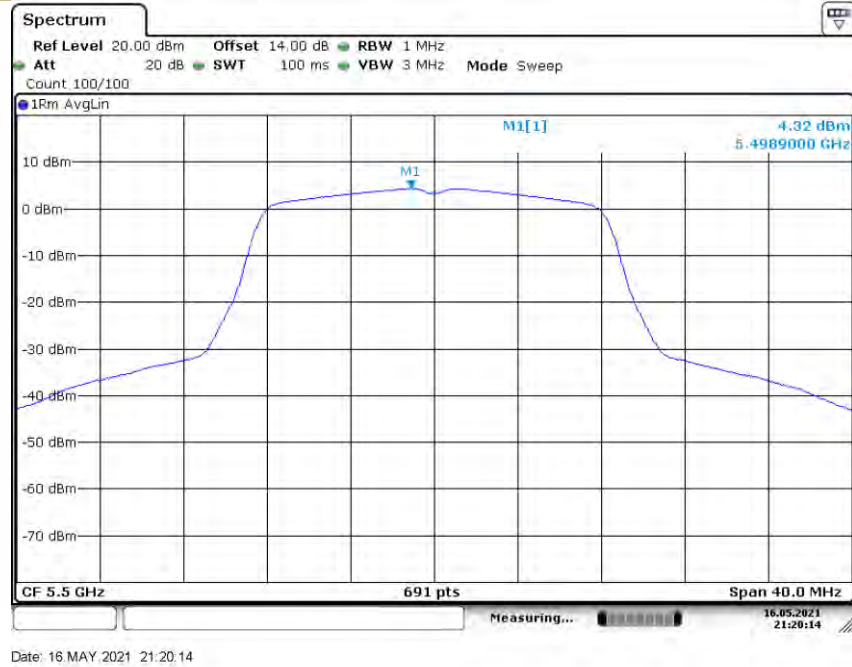


5470-5725MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5500	4.32	11
	5580	4.35	11
	5700	4.64	11
802.11n-HT20	5500	3.17	11
	5580	3.43	11
	5700	3.22	11
802.11ac(HT20)	5500	3.09	11
	5580	3.40	11
	5700	3.18	11
802.11n-HT40	5510	0.06	11
	5670	-0.29	11
802.11ac(HT40)	5510	-0.06	11
	5670	-0.26	11
802.11ac(HT80)	5530	-5.41	11

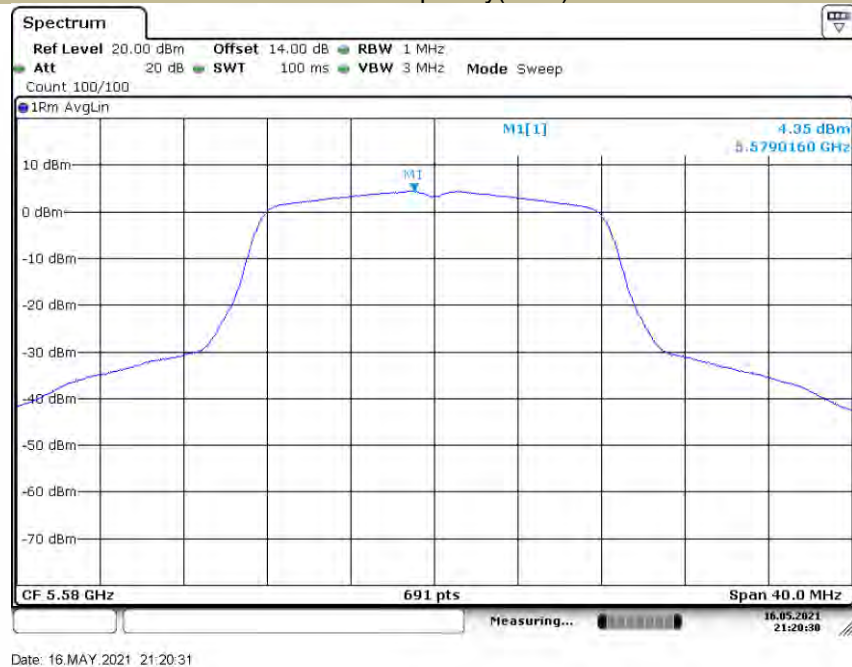
Power Spectral Density
Test Model 802.11a

U-NII – 2C
Frequency(MHz) 5500



Power Spectral Density
Test Model 802.11a

U-NII – 2C
Frequency(MHz) 5580



Power Spectral Density
Test Model 802.11a

U-NII – 2C
Frequency(MHz) 5700



Power Spectral Density
Test Model 802.11n-HT20

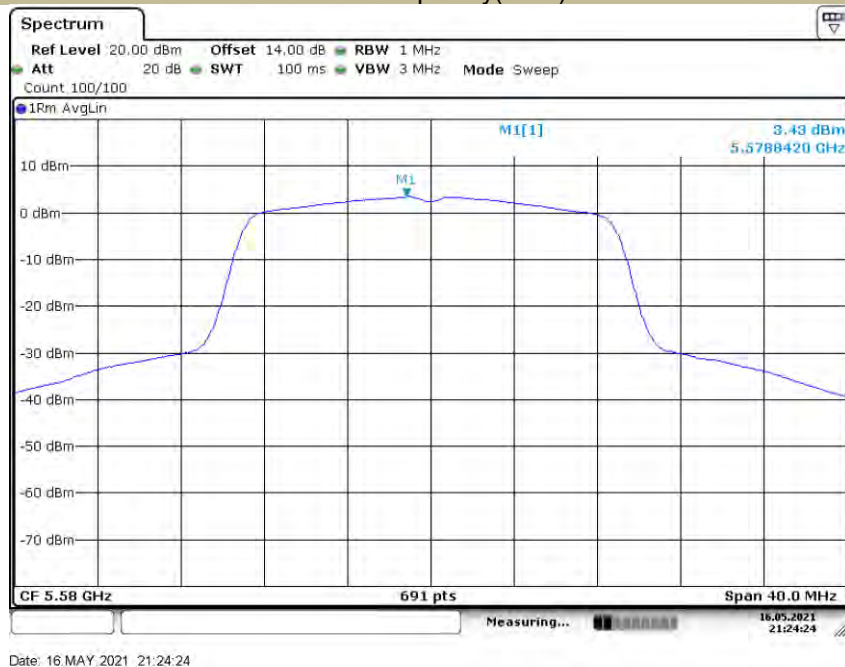
U-NII – 2C
Frequency(MHz) 5500



Power Spectral Density
Test Model 802.11n-HT20

U-NII – 2C
Frequency(MHz)

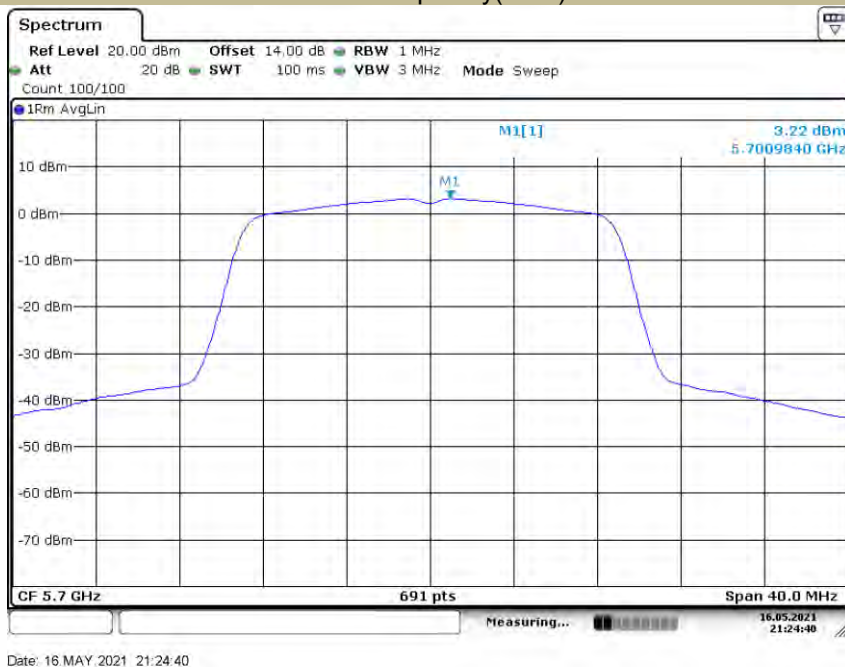
5580



Power Spectral Density
Test Model 802.11n-HT20

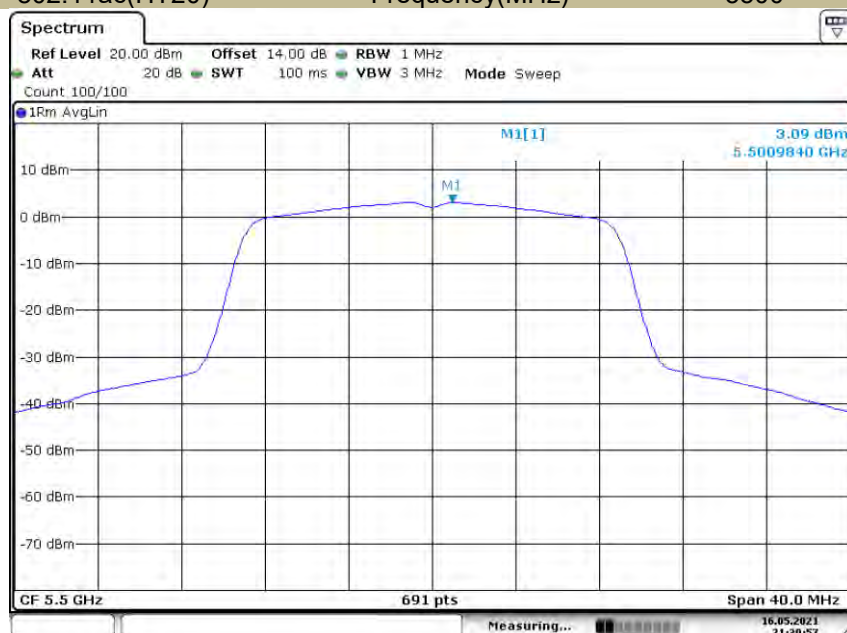
U-NII – 2C
Frequency(MHz)

5700



Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2C
Frequency(MHz) 5500



Date: 16 MAY 2021 21:30:57

Power Spectral Density
Test Model 802.11ac(HT20)

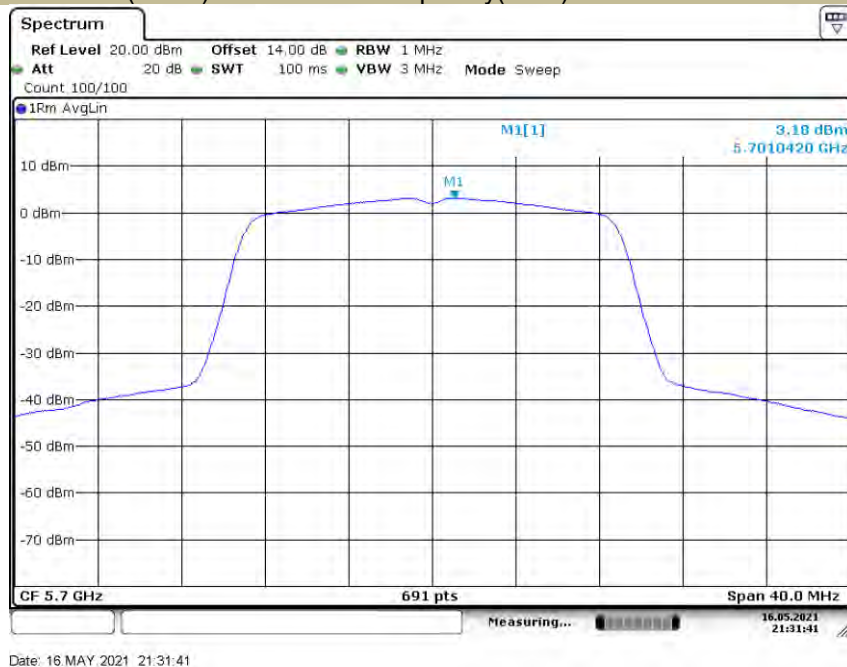
U-NII – 2C
Frequency(MHz) 5580



Date: 16 MAY 2021 21:31:14

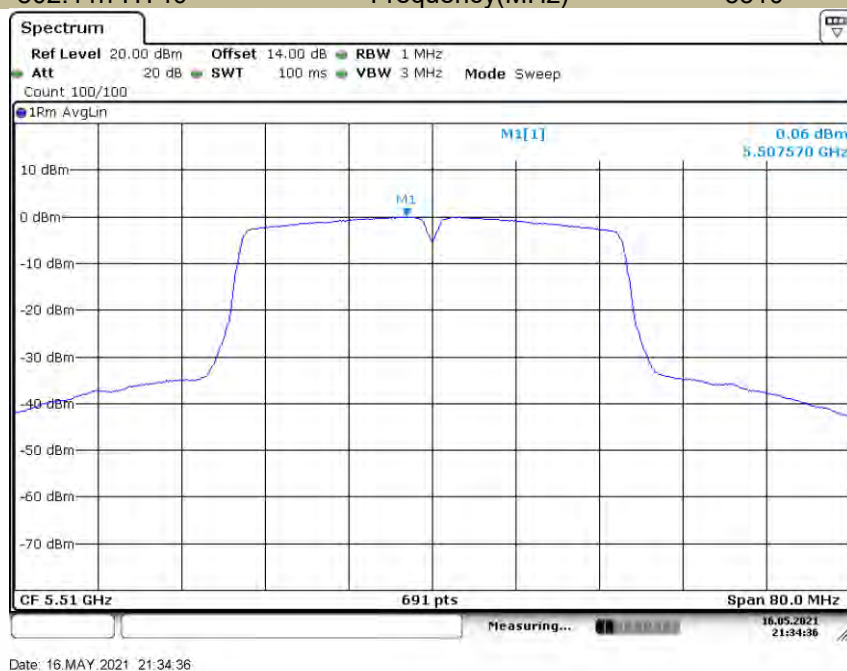
Power Spectral Density
Test Model 802.11ac(HT20)

U-NII – 2C
Frequency(MHz) 5700



Power Spectral Density
Test Model 802.11n-HT40

U-NII – 2C
Frequency(MHz) 5510



Power Spectral Density
Test Model 802.11n-HT40

U-NII – 2C
Frequency(MHz) 5670



Date: 16.MAY.2021 21:34:52

Power Spectral Density
Test Model 802.11ac(HT40)

U-NII – 2C
Frequency(MHz) 5510



Date: 16.MAY.2021 21:37:13

Power Spectral Density
Test Model 802.11ac(HT40)

U-NII – 2C
Frequency(MHz) 5670



Date: 16.MAY.2021 21:37:29

Power Spectral Density
Test Model 802.11ac 80

U-NII – 2C
Frequency(MHz) 5530



Date: 16.MAY.2021 21:40:01

5725-5850MHz

Operating mode	Test Channel	Power Spectral Density dBm/500kHz	Limit (dBm/500kHz)
802.11a	5745	1.95	30
	5785	2.53	30
	5825	2.54	30
802.11n-HT20	5745	0.45	30
	5785	1.00	30
	5825	1.16	30
802.11ac(HT20)	5745	0.38	30
	5785	0.96	30
	5825	1.21	30
802.11n-HT40	5755	-2.79	30
	5795	-1.97	30
802.11ac(HT40)	5755	-2.91	30
	5795	-2.05	30
802.11ac(HT80)	5775	-8.46	30

Power Spectral Density
Test Model 802.11a

U-NII - 3
Frequency(MHz)

5825



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 3
Frequency(MHz)

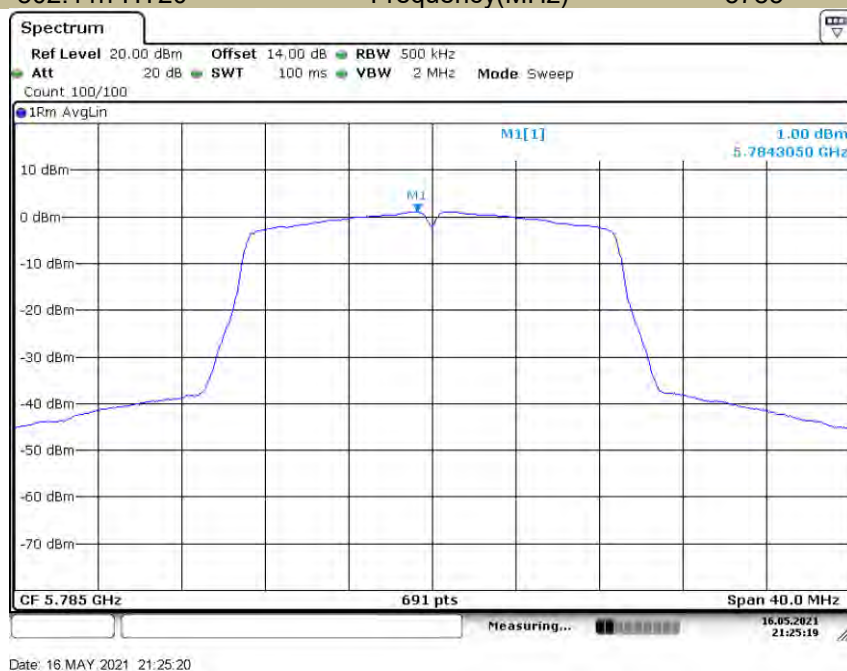
5745



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 3
Frequency(MHz)

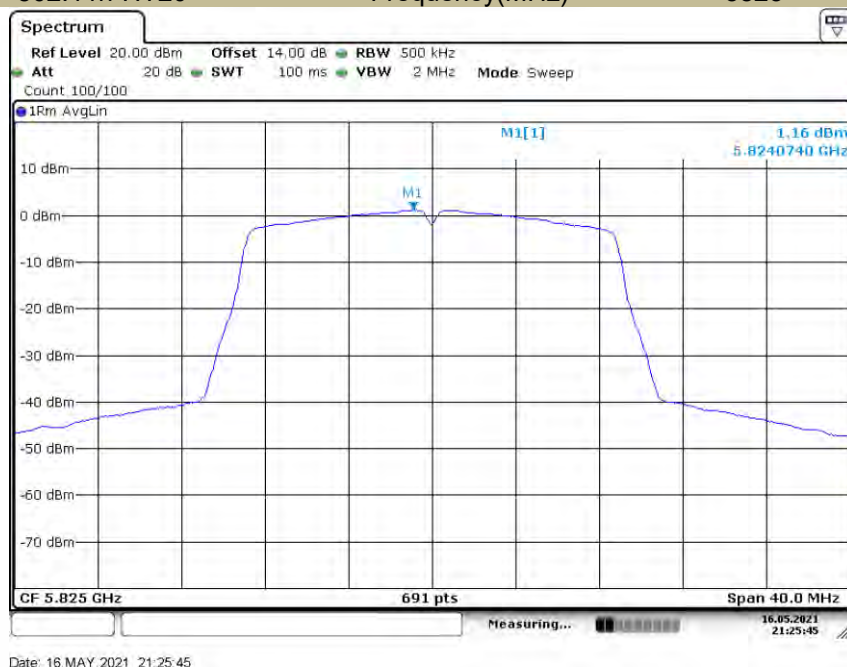
5785



Power Spectral Density
Test Model 802.11n-HT20

U-NII - 3
Frequency(MHz)

5825



Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 3
Frequency(MHz)

5745



Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 3
Frequency(MHz)

5785



Power Spectral Density
Test Model 802.11ac(HT20)

U-NII - 3
Frequency(MHz)

5825



Power Spectral Density
Test Model 802.11n-HT40

U-NII - 3
Frequency(MHz)

5755



Power Spectral Density
Test Model 802.11n-HT40

U-NII - 3
Frequency(MHz)

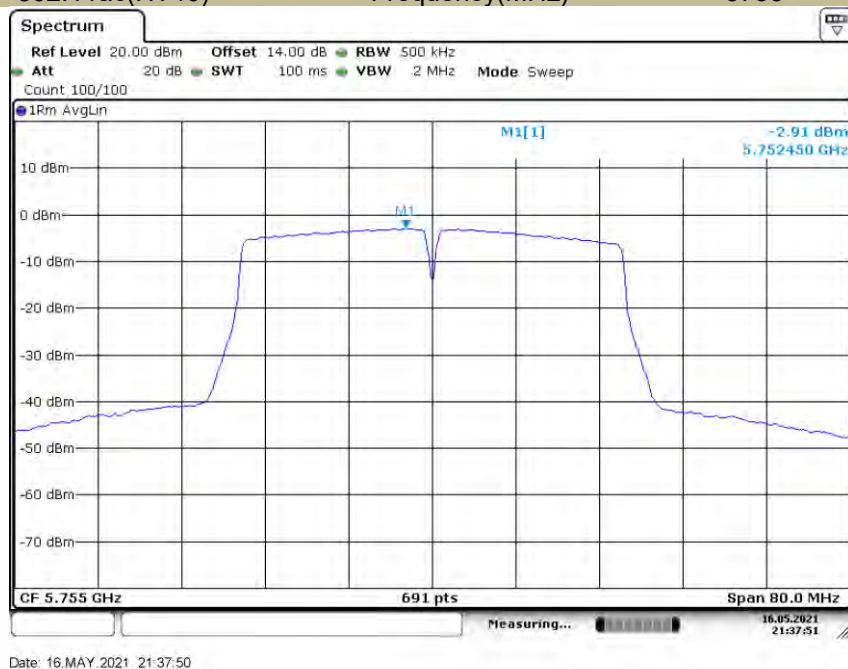
5795



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII - 3
Frequency(MHz)

5755



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII - 3
Frequency(MHz)

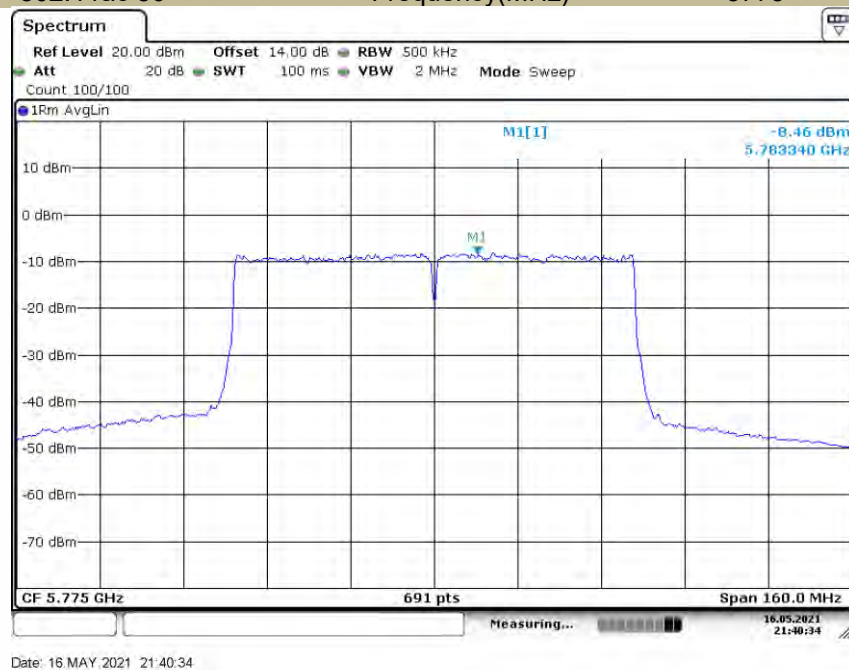
5795



Power Spectral Density
Test Model 802.11ac 80

U-NII - 3
Frequency(MHz)

5775



For 2T2R

5150-5250MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz			Limit (dBm/MHz)
		Antenna 1	Antenna 2	Total	
802.11n-HT20	5180	2.11	2.49	5.31	8.5
	5200	2.28	2.75	5.53	8.5
	5240	3.09	2.69	5.90	8.5
802.11ac(HT20)	5180	2.10	2.42	5.27	8.5
	5200	2.39	2.69	5.55	8.5
	5240	3.26	2.61	5.96	8.5
802.11n-HT40	5190	-1.20	-0.84	1.99	8.5
	5230	0.24	-0.49	2.90	8.5
802.11ac(HT40)	5190	-1.06	-0.84	2.06	8.5
	5230	0.31	-0.54	2.92	8.5
802.11ac(HT80)	5210	-4.76	-5.82	-2.25	8.5

5250-5250MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz			Limit (dBm/MHz)
		Antenna 1	Antenna 2	Total	
802.11n-HT20	5260	1.68	3.43	5.65	8.5
	5280	1.83	3.59	5.81	8.5
	5320	2.06	3.85	6.06	8.5
802.11ac(HT20)	5260	1.64	3.37	5.60	8.5
	5280	1.87	3.55	5.80	8.5
	5320	2.05	3.82	6.03	8.5
802.11n-HT40	5270	-1.79	0.20	2.33	8.5
	5310	-1.42	0.47	2.64	8.5
802.11ac(HT40)	5270	-1.63	0.17	2.37	8.5
	5310	-1.3	0.41	2.65	8.5
802.11ac(HT80)	5290	-7.05	-5.18	-3.00	8.5

5470-5725MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz			Limit (dBm/MHz)
		Antenna 1	Antenna 2	Total	
802.11n-HT20	5500	3.00	3.17	6.10	8.5
	5580	3.51	3.43	6.48	8.5
	5700	3.23	3.22	6.24	8.5
802.11ac(HT20)	5500	2.97	3.09	6.04	8.5
	5580	3.51	3.40	6.47	8.5
	5700	3.17	3.18	6.19	8.5
802.11n-HT40	5510	-0.34	0.06	2.87	8.5
	5670	-1.26	-0.29	2.26	8.5
802.11ac(HT40)	5510	-0.26	-0.06	2.85	8.5
	5670	-1.14	-0.26	2.33	8.5
802.11ac(HT80)	5530	-5.28	-5.41	-2.33	8.5

5725-5850MHz

Operating mode	Test Channel	Power Spectral Density dBm/500kHz			Limit (dBm/500kHz)
		Antenna 1	Antenna 2	Total	
802.11n-HT20	5745	0.38	0.45	3.43	27.5
	5785	0.20	1.00	3.63	27.5
	5825	-1.47	1.16	3.05	27.5
802.11ac(HT20)	5745	0.27	0.38	3.34	27.5
	5785	-0.19	0.96	3.43	27.5
	5825	-1.64	1.21	3.03	27.5
802.11n-HT40	5755	-3.04	-2.79	0.10	27.5
	5795	-3.06	-1.97	0.53	27.5
802.11ac(HT40)	5755	-2.95	-2.91	0.08	27.5
	5795	-3.05	-2.05	0.49	27.5
802.11ac(HT80)	5775	-8.39	-8.46	-5.41	27.5

8.4 FREQUENCY STABILITY

8.4.1 Applicable Standard

According to FCC Part 15.407(g)
ANSI C63.10 Section 6.8

8.4.2 Conformance 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 users manual.

8.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.4.4 Test Procedure

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.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 10 kHz.

Set Span= Entire absence of modulation emissions band

Set the video bandwidth (VBW) =30 kHz. width

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

Beginning at each temperature level specified in user manual , the frequency shall be measured within one minute after application of primary power to the transmitter and at intervals of no more than one minute thereafter until ten minutes have elapsed or until sufficient measurements are obtained to indicate clearly that the frequency has stabilized within the applicable tolerance, whichever time period is greater. During each test, the ambient temperature shall not be allowed to rise more than 10° centigrade above the respective beginning ambient temperature level
Measure and record the results in the test report.

8.4.5 Test Results

802.11a 5180

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5179.9971	-2.9	Pass
	-10	5180.0109	10.9	Pass
	0	5179.9831	-16.9	Pass
	10	5180.0049	4.9	Pass
	20	5179.9831	-16.9	Pass
	30	5180.0187	18.7	Pass
	40	5180.0185	18.5	Pass
	55	5179.983	-17.0	Pass
85% Vnom	25	5180.0082	8.2	Pass
115% Vnom	25	5179.9894	-10.6	Pass

5200

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5199.9932	-6.8	Pass
	-10	5200.0179	17.9	Pass
	0	5199.9895	-10.5	Pass
	10	5199.9989	-1.1	Pass
	20	5200.0005	0.5	Pass
	30	5200.0104	10.4	Pass
	40	5200.0056	5.6	Pass
	55	5200.0124	12.4	Pass
85% Vnom	25	5199.9867	-13.3	Pass
115% Vnom	25	5199.9801	-19.9	Pass

5240

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5239.9884	-11.6	Pass
	-10	5239.9836	-16.4	Pass
	0	5239.9801	-19.9	Pass
	10	5240.0077	7.7	Pass
	20	5240.0079	7.9	Pass
	30	5239.9832	-16.8	Pass
	40	5240.0046	4.6	Pass
	55	5240.0021	2.1	Pass
85% Vnom	25	5240.0106	10.6	Pass
115% Vnom	25	5239.9884	-11.6	Pass

5190

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5190.0042	4.2	Pass
	-10	5189.9852	-14.8	Pass
	0	5189.9985	-1.5	Pass
	10	5190.0016	1.6	Pass
	20	5189.9815	-18.5	Pass
	30	5189.9858	-14.2	Pass
	40	5189.9866	-13.4	Pass
	55	5189.9988	-1.2	Pass
85% Vnom	25	5189.9863	-13.7	Pass
115% Vnom	25	5190.0055	5.5	Pass

5230

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5230.0046	4.6	Pass
	-10	5230.0199	19.9	Pass
	0	5230.0057	5.7	Pass
	10	5230.0191	19.1	Pass
	20	5229.9925	-7.5	Pass
	30	5230.0119	11.9	Pass
	40	5230.0173	17.3	Pass
	55	5229.9959	-4.1	Pass
85% Vnom	25	5230.0114	11.4	Pass
115% Vnom	25	5229.9805	-19.5	Pass

5210

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5209.9829	-17.1	Pass
	-10	5209.9883	-11.7	Pass
	0	5209.9906	-9.4	Pass
	10	5209.9822	-17.8	Pass
	20	5210.0018	1.8	Pass
	30	5209.9826	-17.4	Pass
	40	5209.9979	-2.1	Pass
	55	5209.9962	-3.8	Pass
85% Vnom	25	5210.0022	2.2	Pass
115% Vnom	25	5209.9909	-9.1	Pass

802.11a 5260

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5259.9928	-7.2	Pass
	-10	5259.9928	-7.2	Pass
	0	5260.0191	19.1	Pass
	10	5259.9879	-12.1	Pass
	20	5259.9849	-15.1	Pass
	30	5260.0095	9.5	Pass
	40	5259.9957	-4.3	Pass
	55	5259.9996	-0.4	Pass
85% Vnom	25	5259.9931	-6.9	Pass
115% Vnom	25	5259.9854	-14.6	Pass

5280

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5280.0059	5.9	Pass
	-10	5279.9861	-13.9	Pass
	0	5279.9859	-14.1	Pass
	10	5279.9877	-12.3	Pass
	20	5279.9918	-8.2	Pass
	30	5280.0192	19.2	Pass
	40	5279.9865	-13.5	Pass
	55	5279.9901	-9.9	Pass
85% Vnom	25	5279.9956	-4.4	Pass
115% Vnom	25	5280.0067	6.7	Pass

5320

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5319.9966	-3.4	Pass
	-10	5319.9824	-17.6	Pass
	0	5319.9957	-4.3	Pass
	10	5320.0074	7.4	Pass
	20	5319.9883	-11.7	Pass
	30	5320.0137	13.7	Pass
	40	5319.9816	-18.4	Pass
	55	5320.0034	3.4	Pass
85% Vnom	25	5319.9804	-19.6	Pass
115% Vnom	25	5320.0194	19.4	Pass

5270

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5269.9944	-5.6	Pass
	-10	5269.9911	-8.9	Pass
	0	5270.0083	8.3	Pass
	10	5270.0113	11.3	Pass
	20	5269.9932	-6.8	Pass
	30	5269.9965	-3.5	Pass
	40	5269.984	-16.0	Pass
	55	5270.0052	5.2	Pass
85% Vnom	25	5269.986	-14.0	Pass
115% Vnom	25	5269.9801	-19.9	Pass

5310

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5309.9862	-13.8	Pass
	-10	5309.9918	-8.2	Pass
	0	5309.9992	-0.8	Pass
	10	5309.9917	-8.3	Pass
	20	5310.0105	10.5	Pass
	30	5310.011	11.0	Pass
	40	5309.9898	-10.2	Pass
	55	5309.9949	-5.1	Pass
85% Vnom	25	5310.0099	9.9	Pass
115% Vnom	25	5310.0094	9.4	Pass

5290

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5290.0014	1.4	Pass
	-10	5290.0194	19.4	Pass
	0	5290.0189	18.9	Pass
	10	5289.9864	-13.6	Pass
	20	5290.0028	2.8	Pass
	30	5289.9928	-7.2	Pass
	40	5290.0016	1.6	Pass
	55	5290.0109	10.9	Pass
85% Vnom	25	5289.9945	-5.5	Pass
115% Vnom	25	5290.0194	19.4	Pass