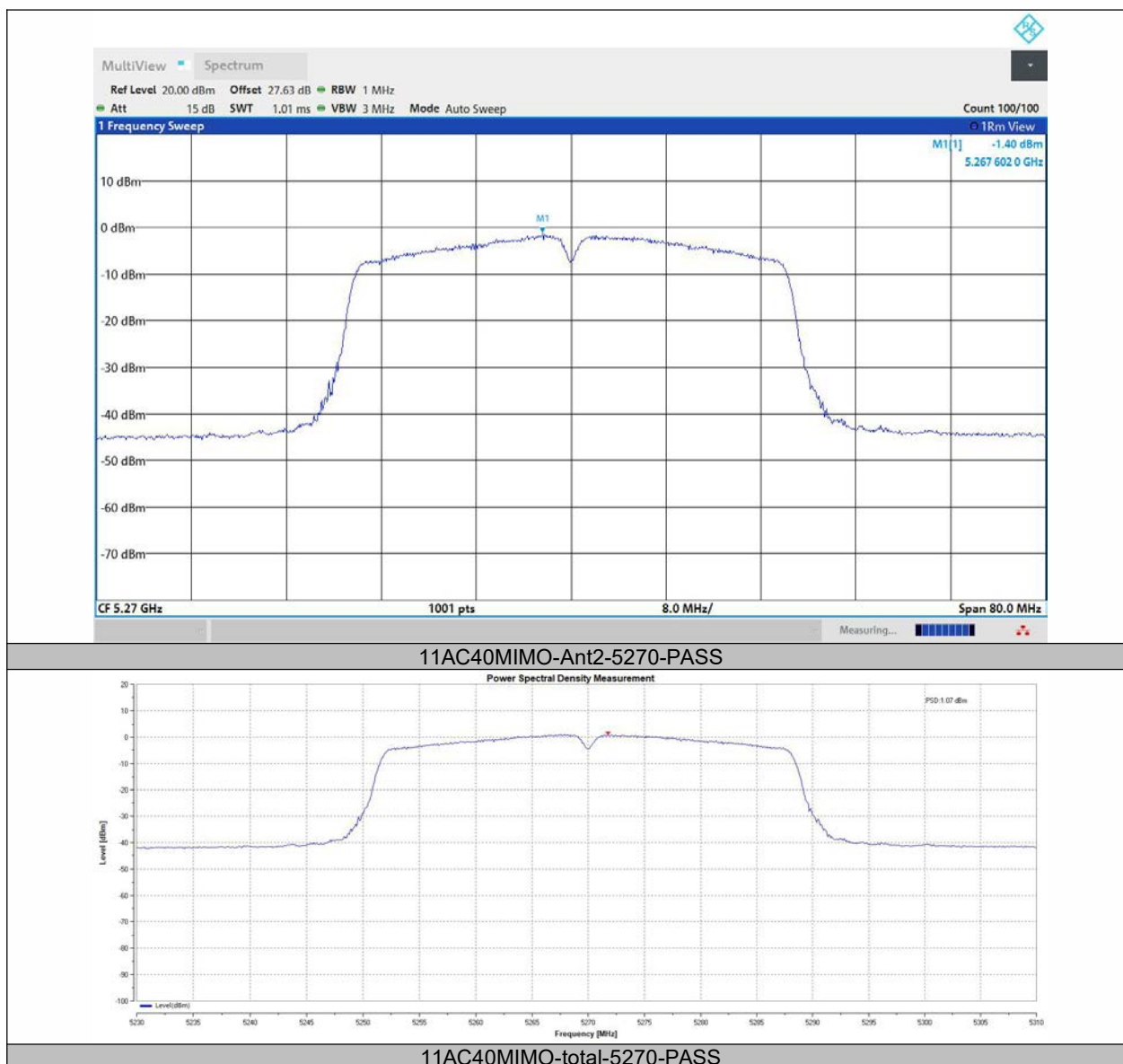
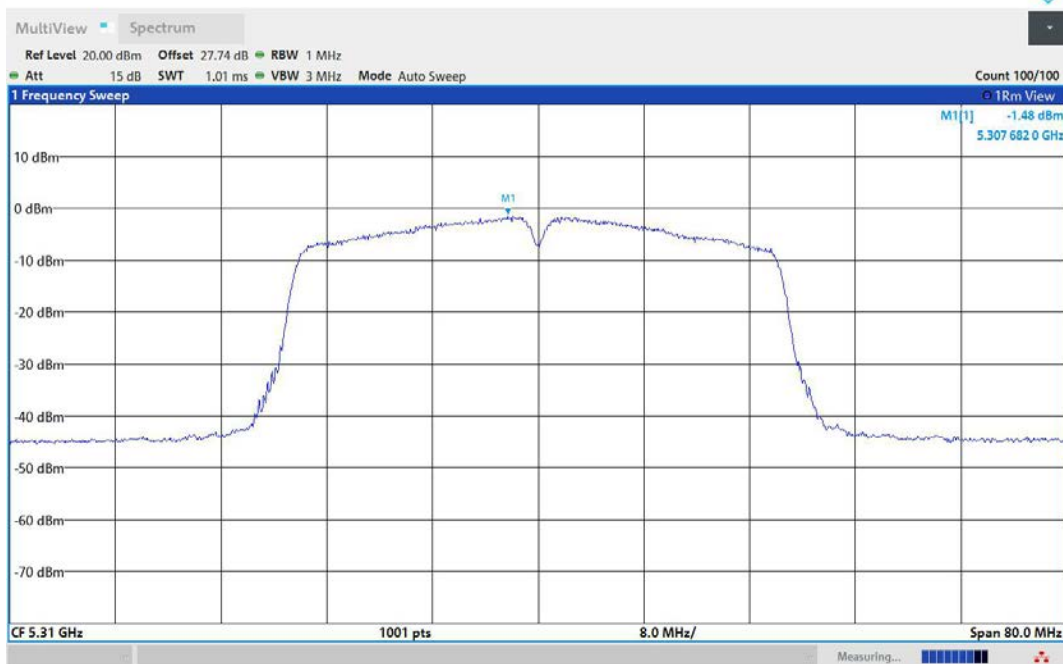
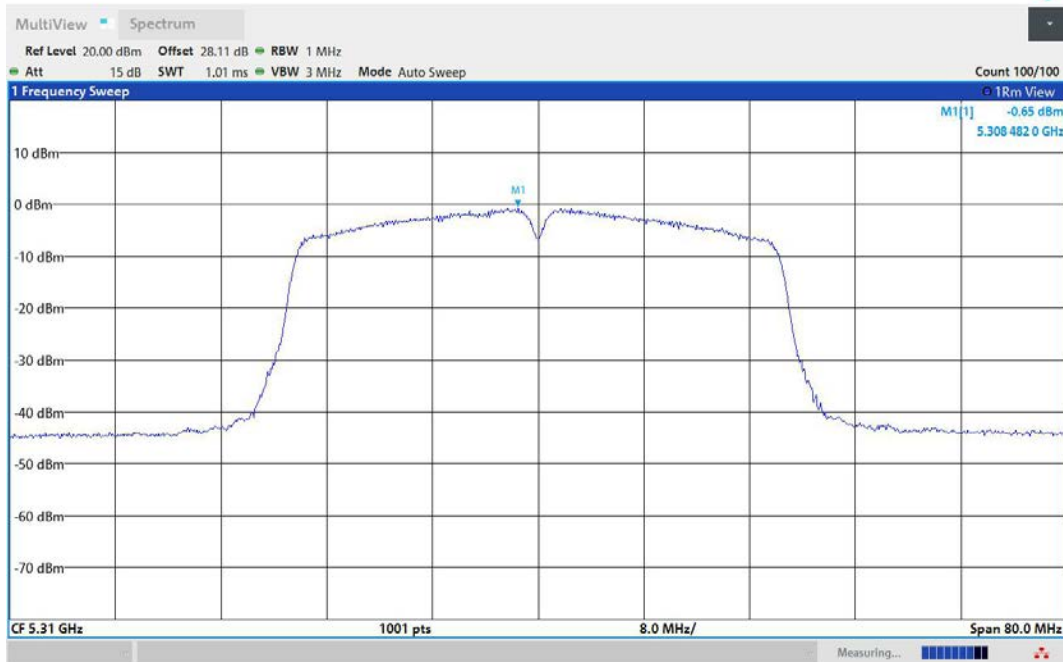


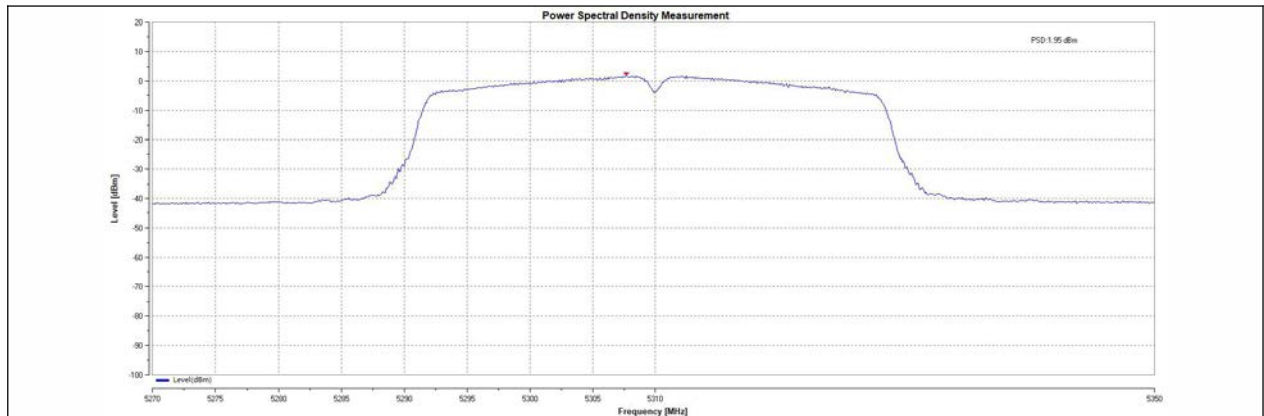




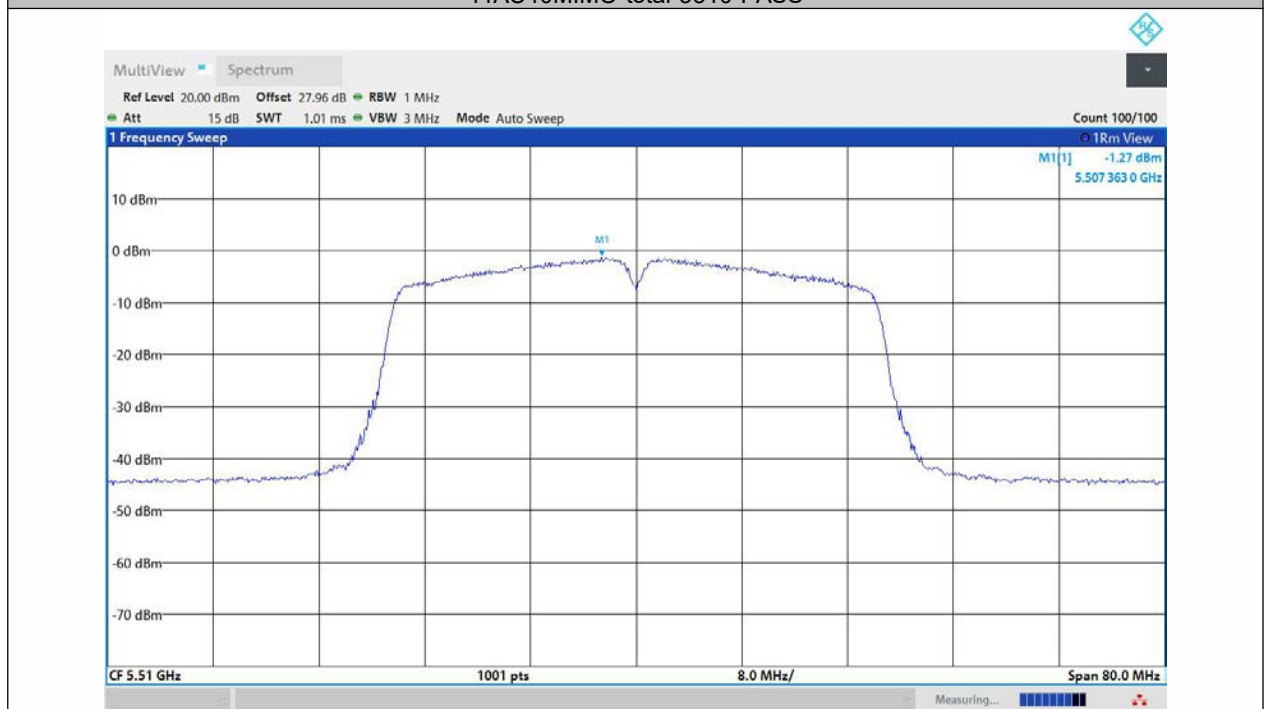
11AC40MIMO-Ant1-5310-PASS



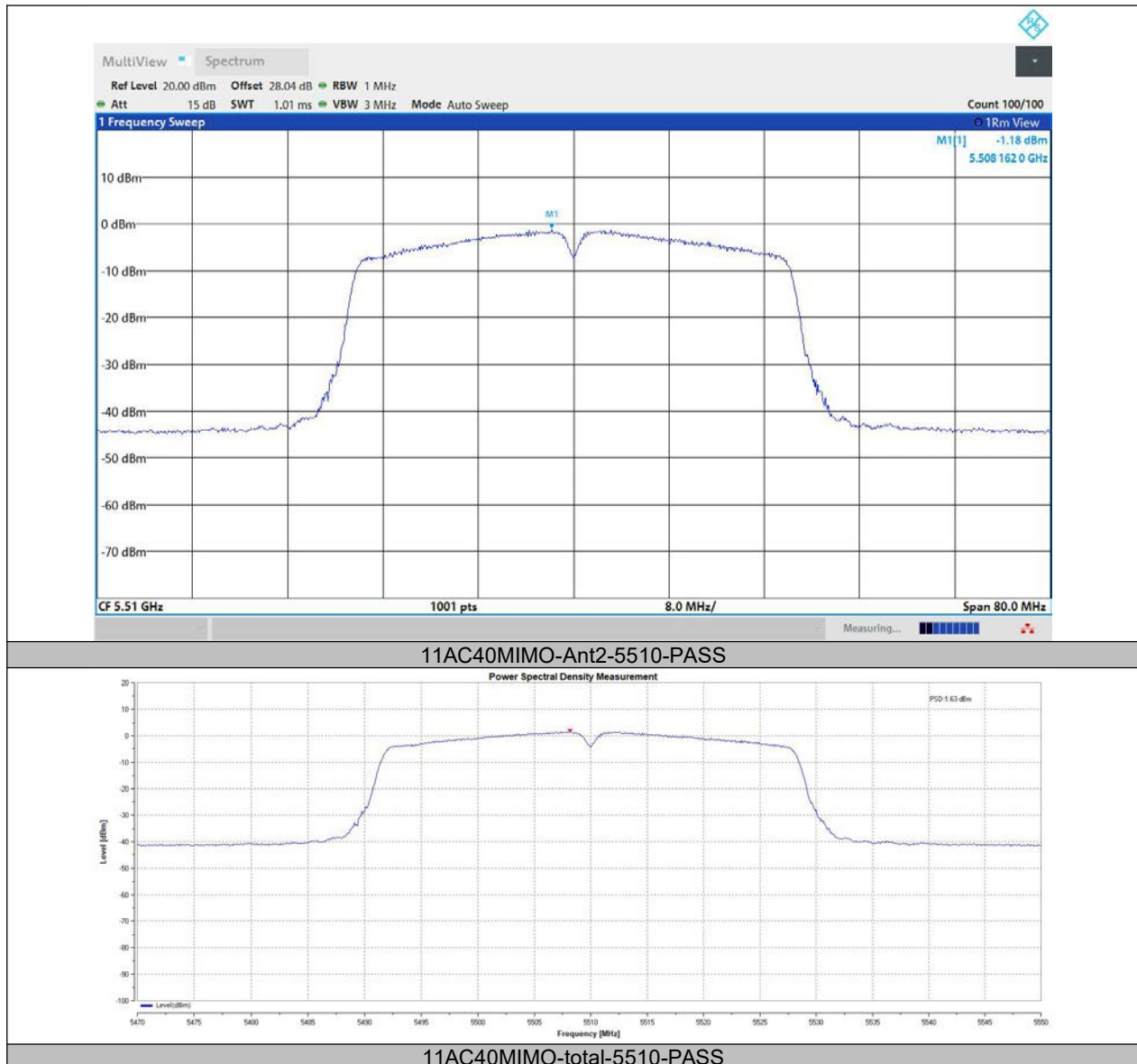
11AC40MIMO-Ant2-5310-PASS

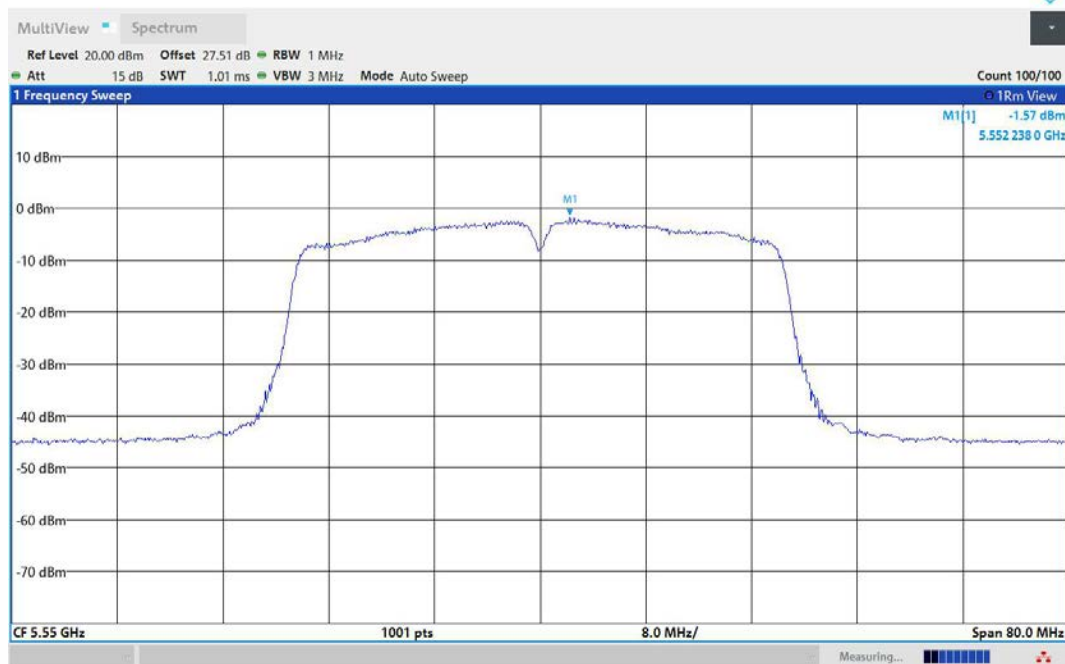


11AC40MIMO-total-5310-PASS

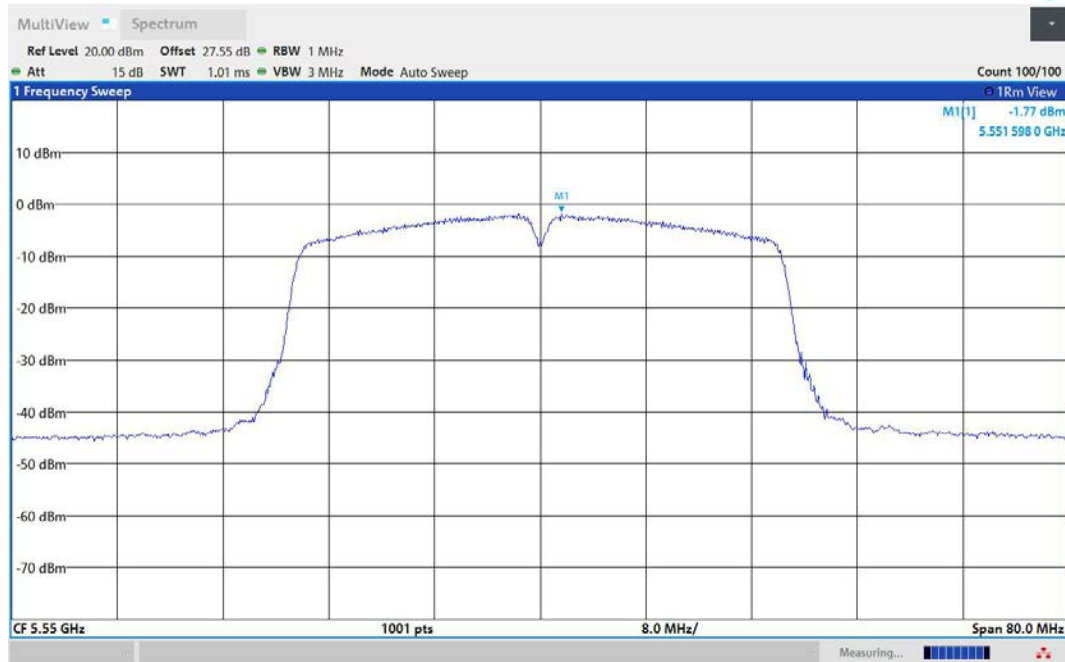


11AC40MIMO-Ant1-5510-PASS

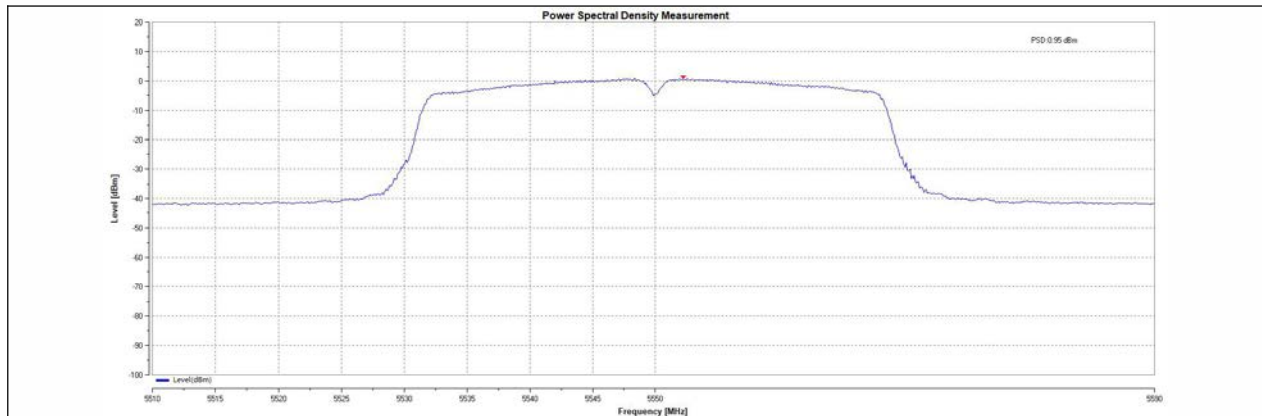




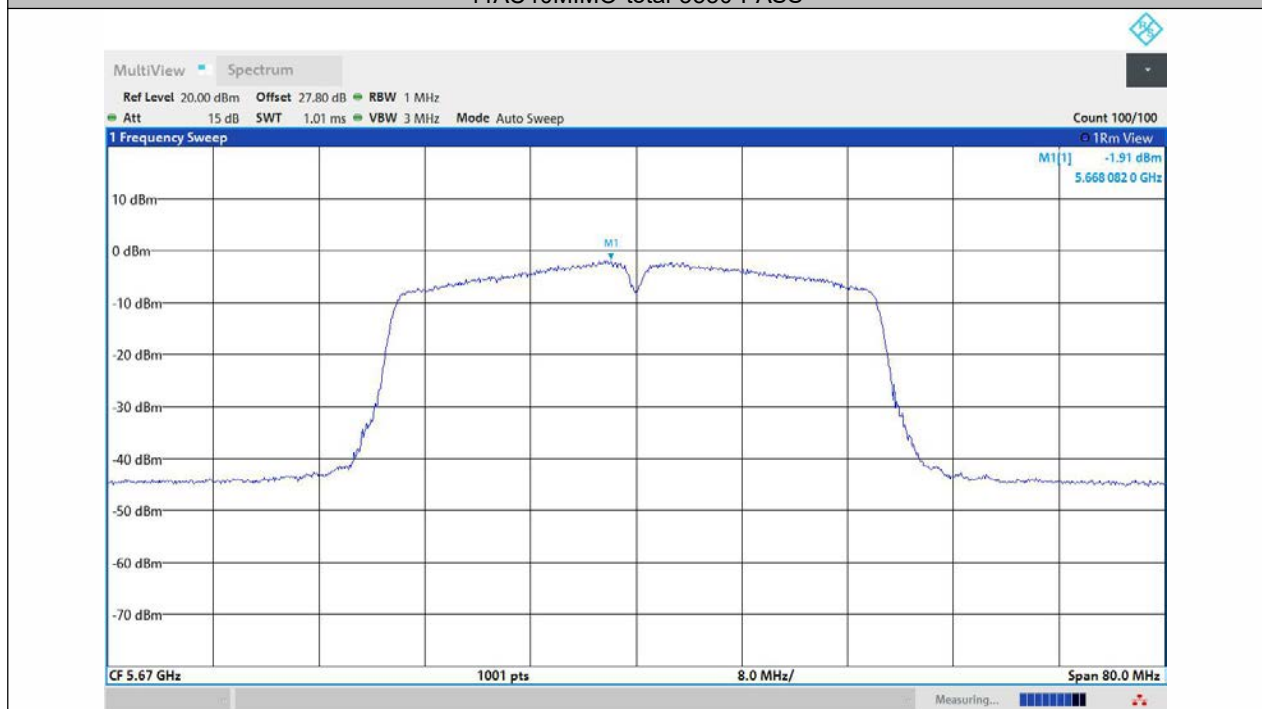
11AC40MIMO-Ant1-5550-PASS



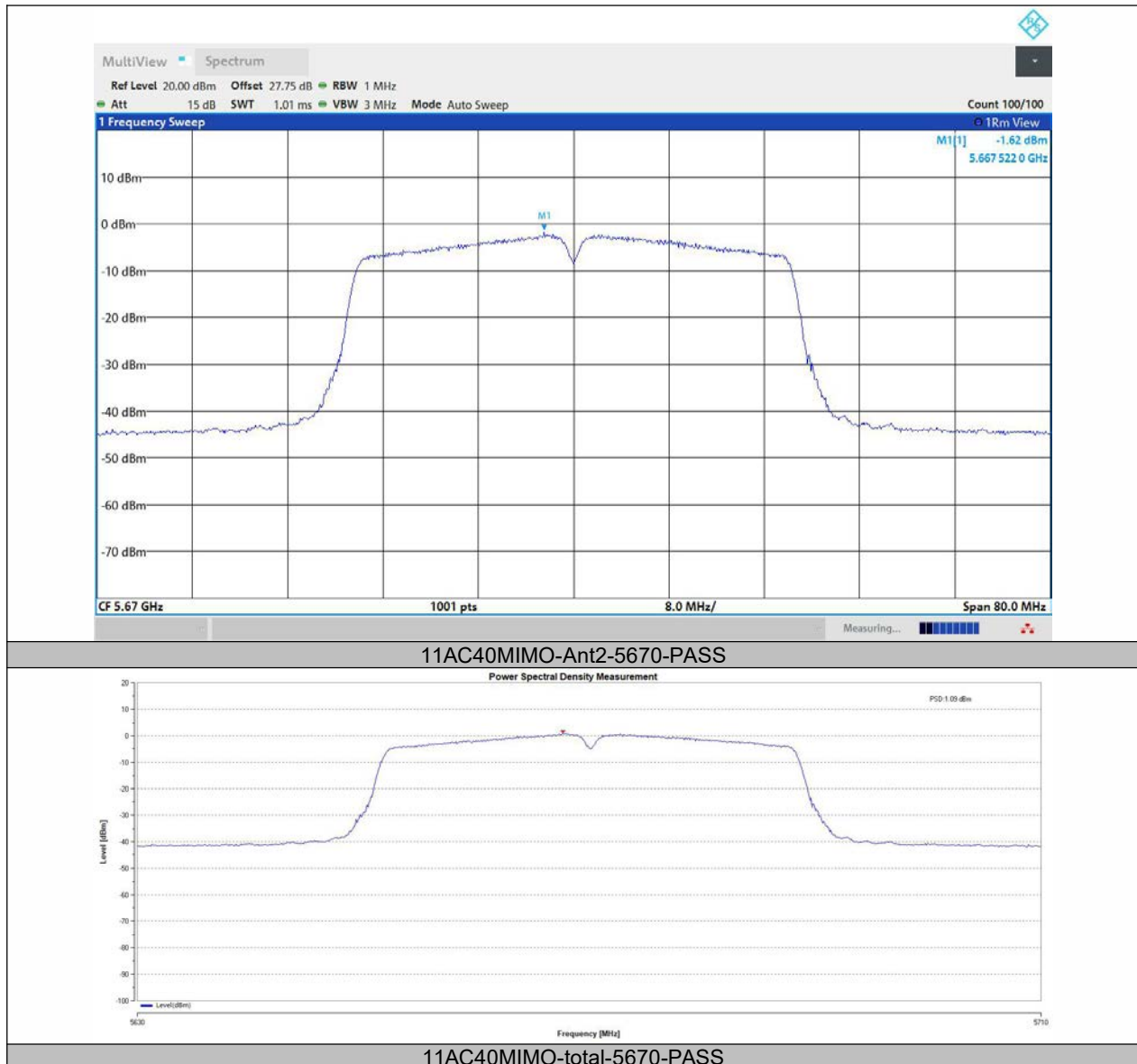
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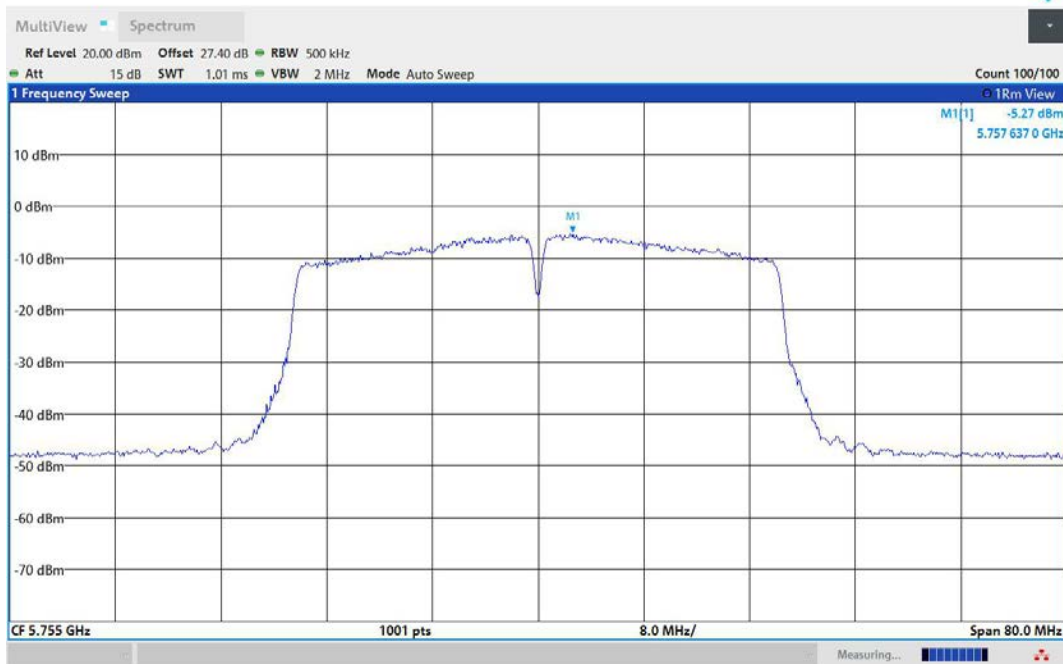


11AC40MIMO-total-5550-PASS

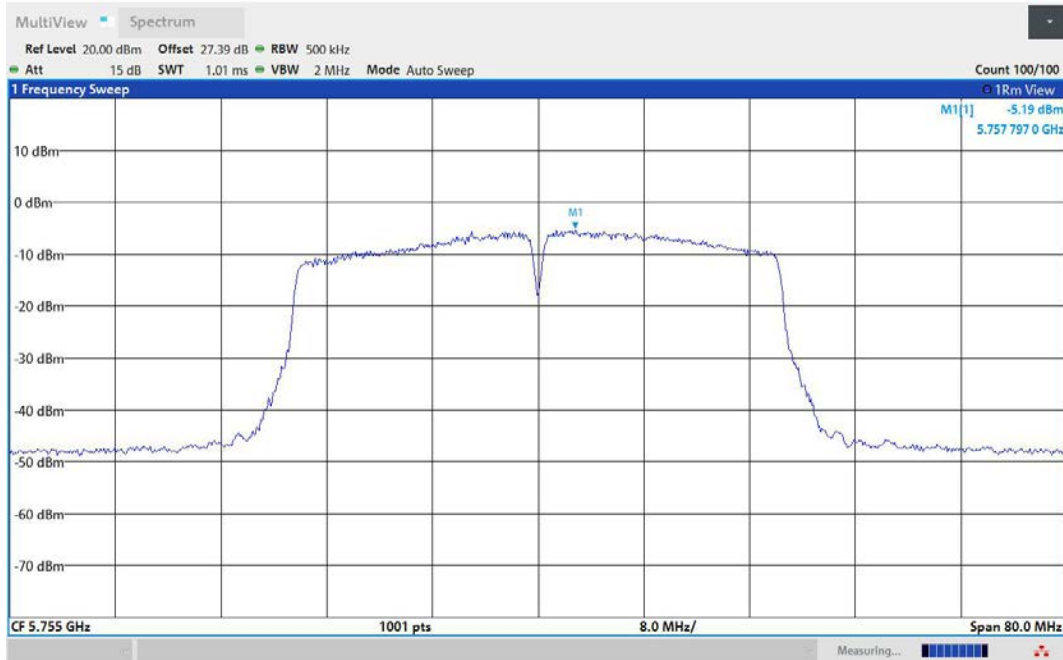


11AC40MIMO-Ant1-5670-PASS

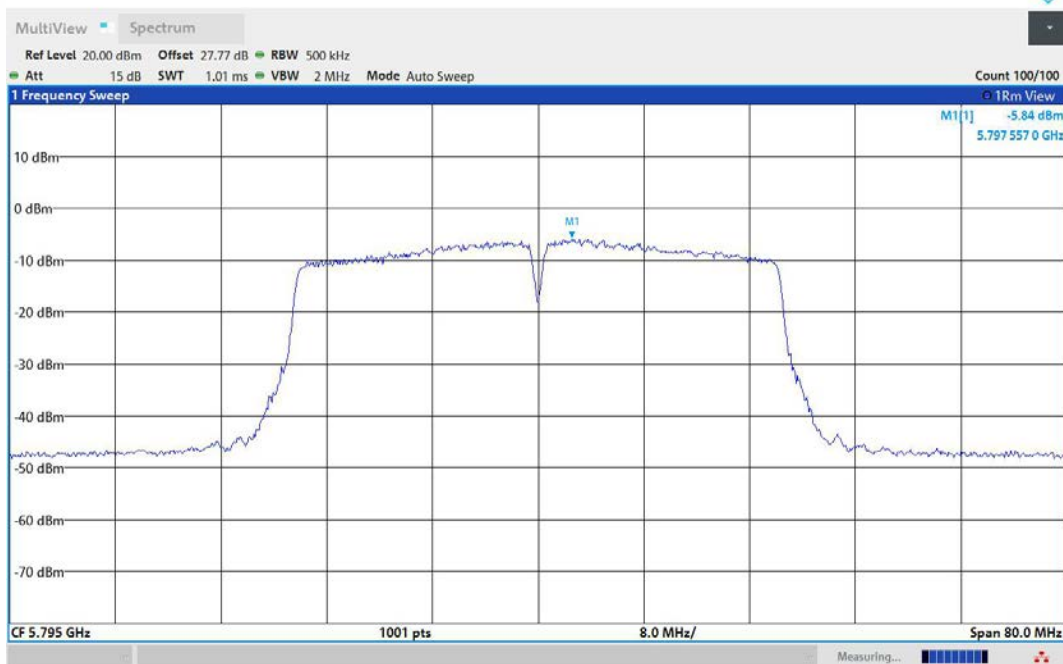




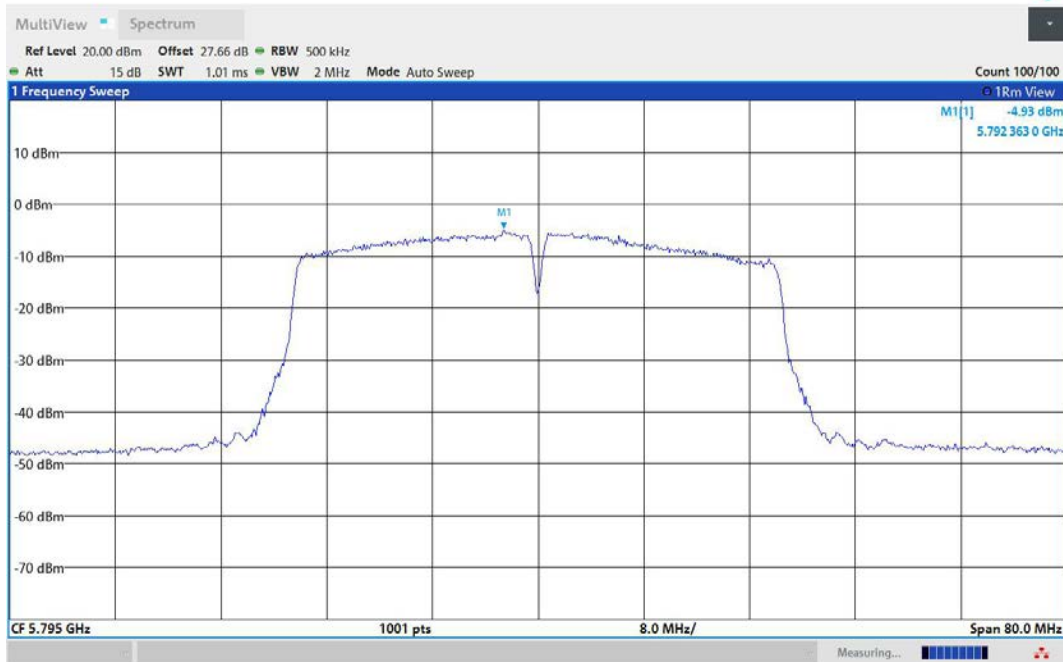
11AC40MIMO-Ant1-5755-PASS



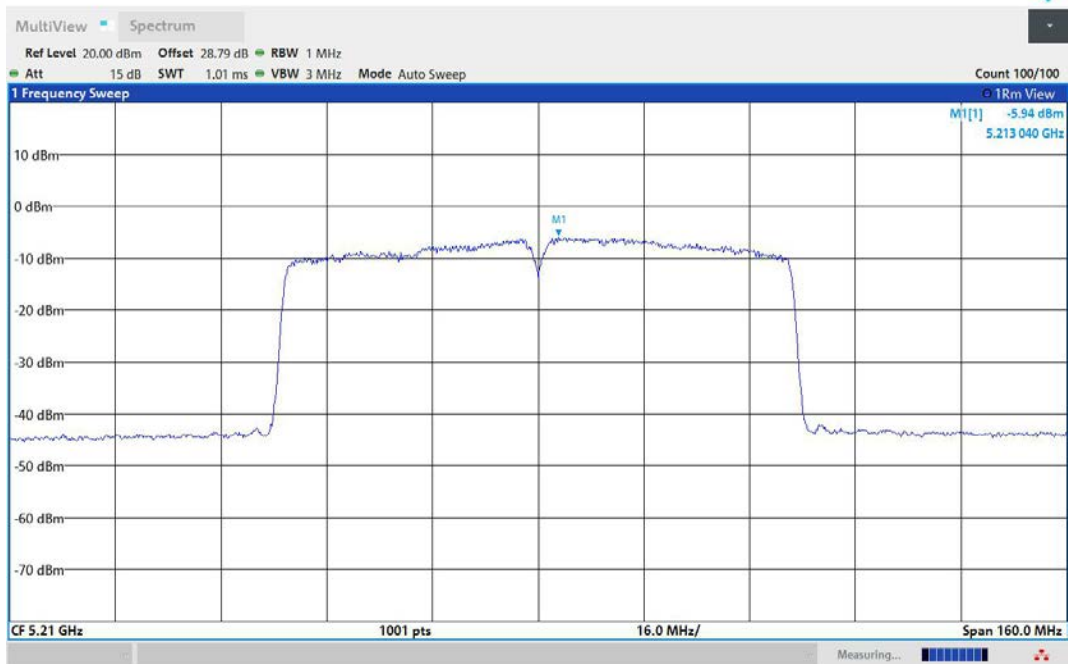
11AC40MIMO-Ant2-5755-PASS



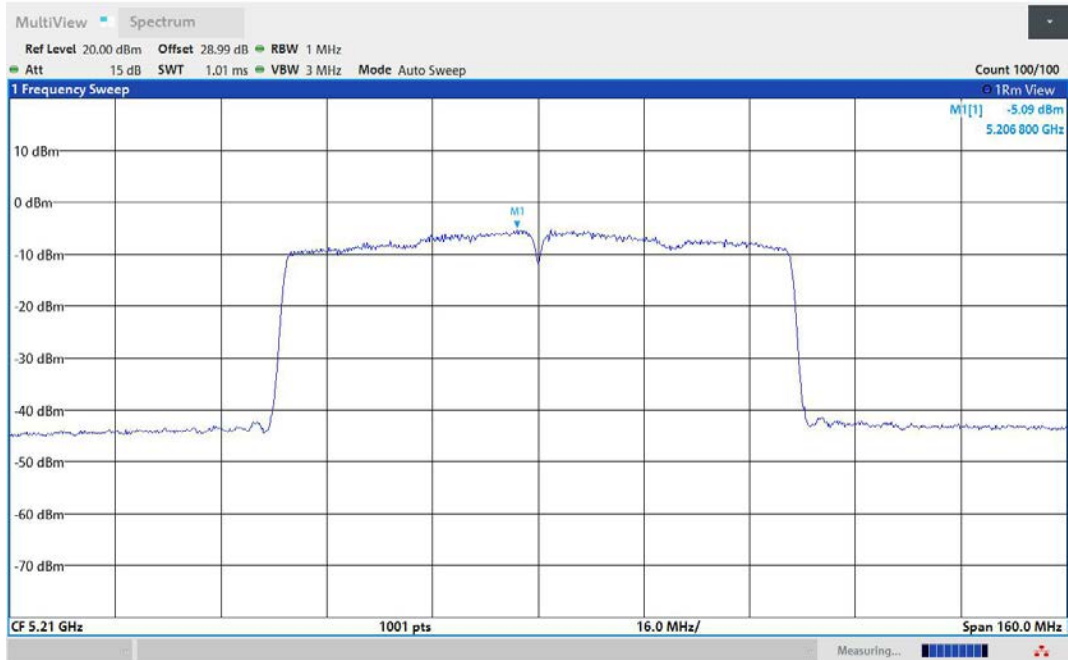
11AC40MIMO-Ant1-5795-PASS



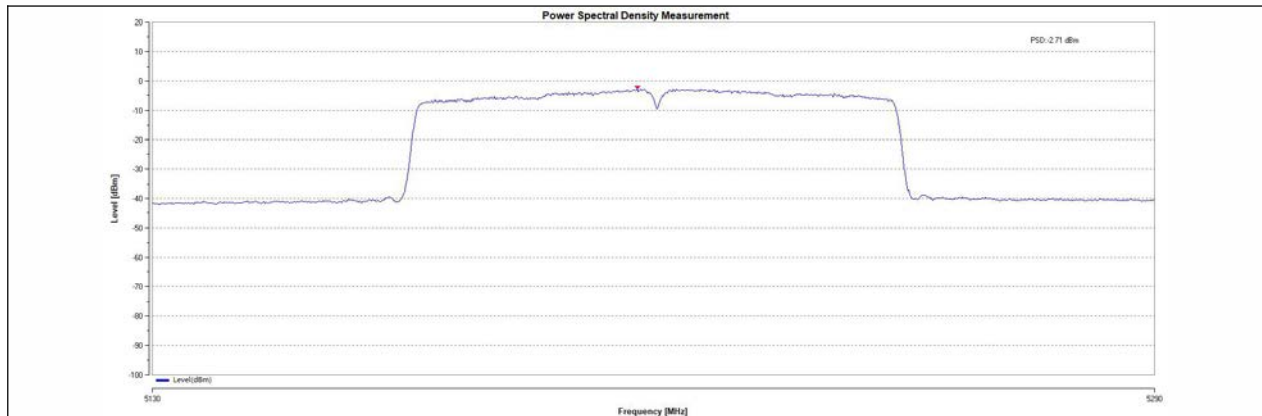
11AC40MIMO-Ant2-5795-PASS



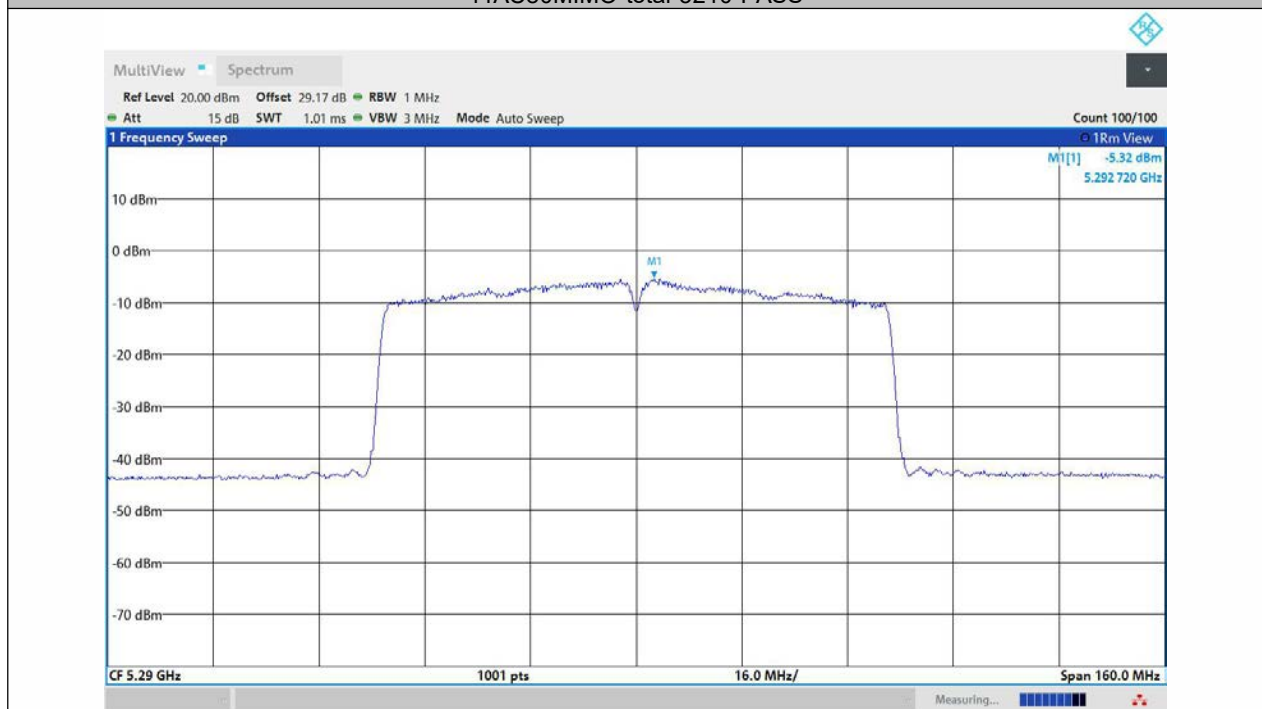
11AC80MIMO-Ant1-5210-PASS



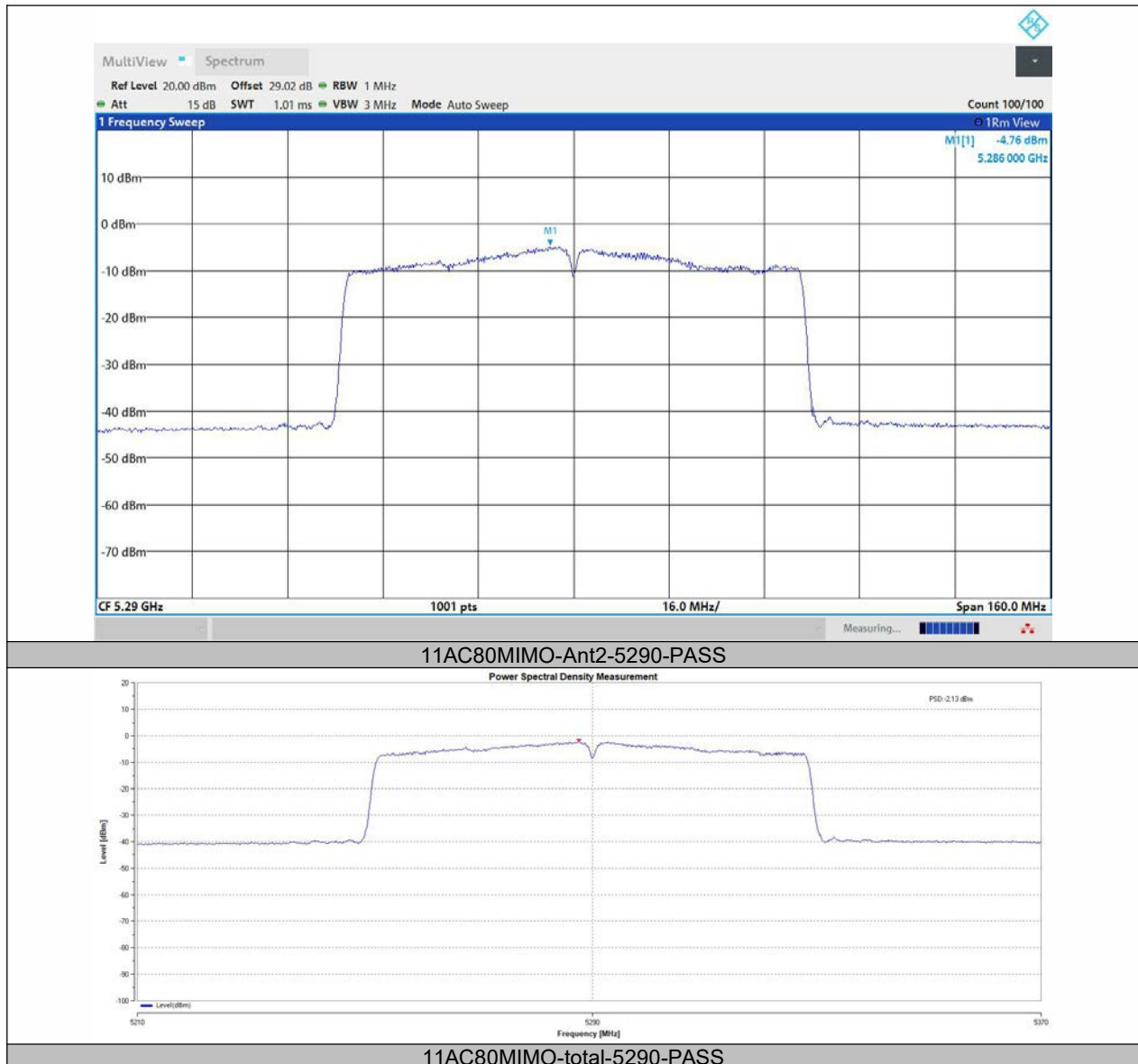
11AC80MIMO-Ant2-5210-PASS

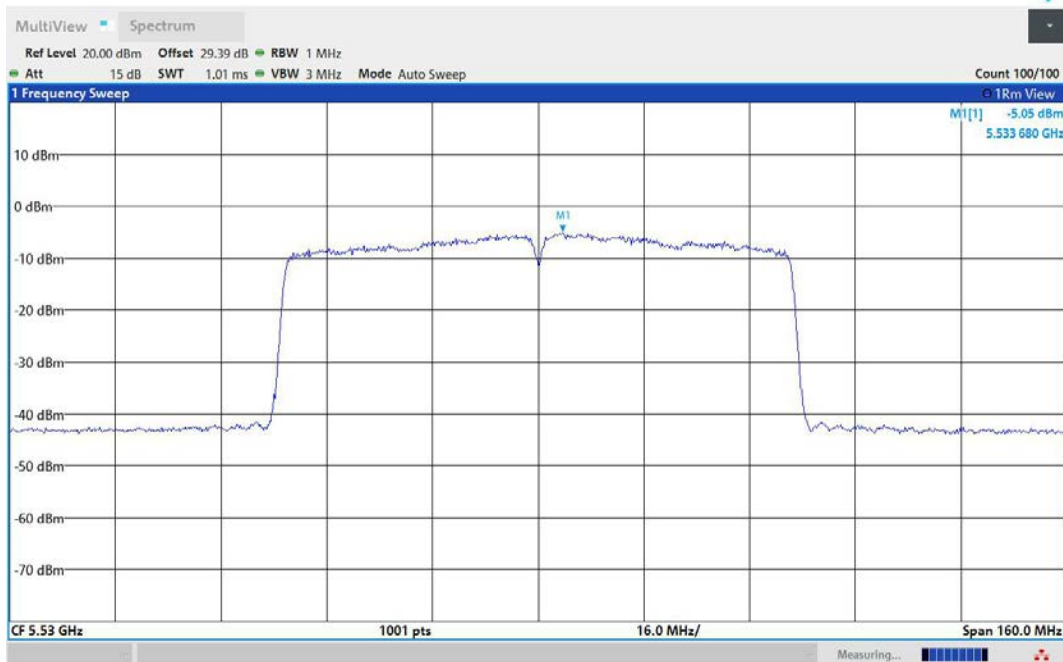


11AC80MIMO-total-5210-PASS

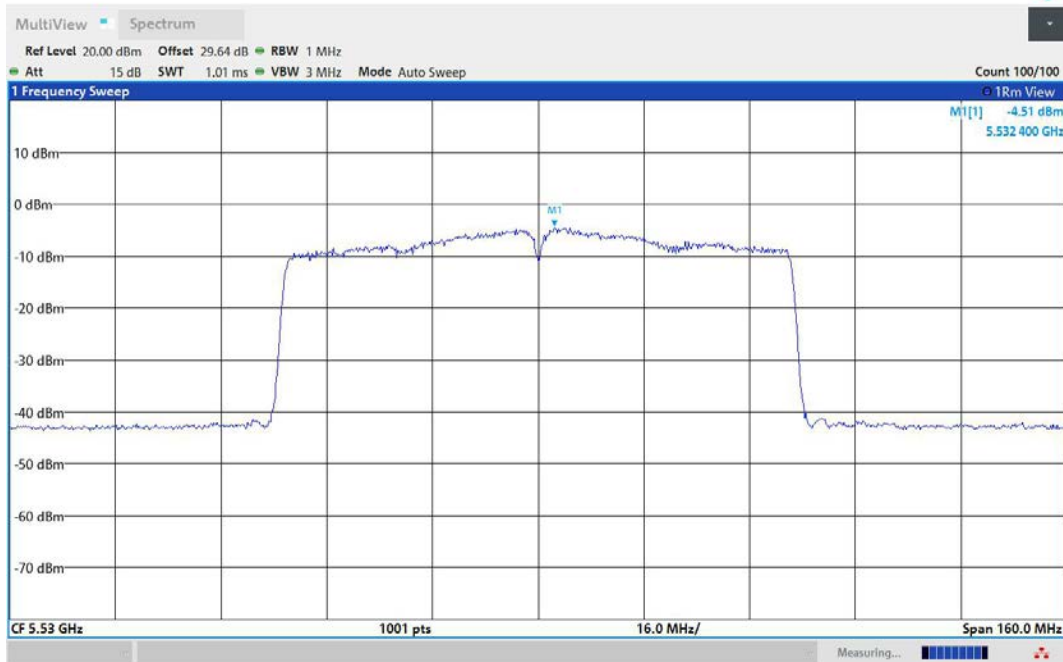


11AC80MIMO-Ant1-5290-PASS

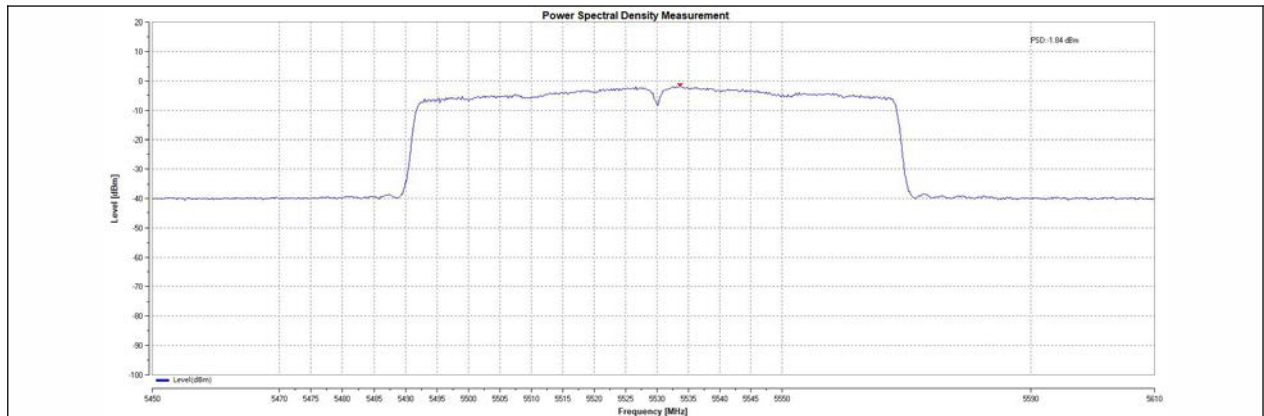




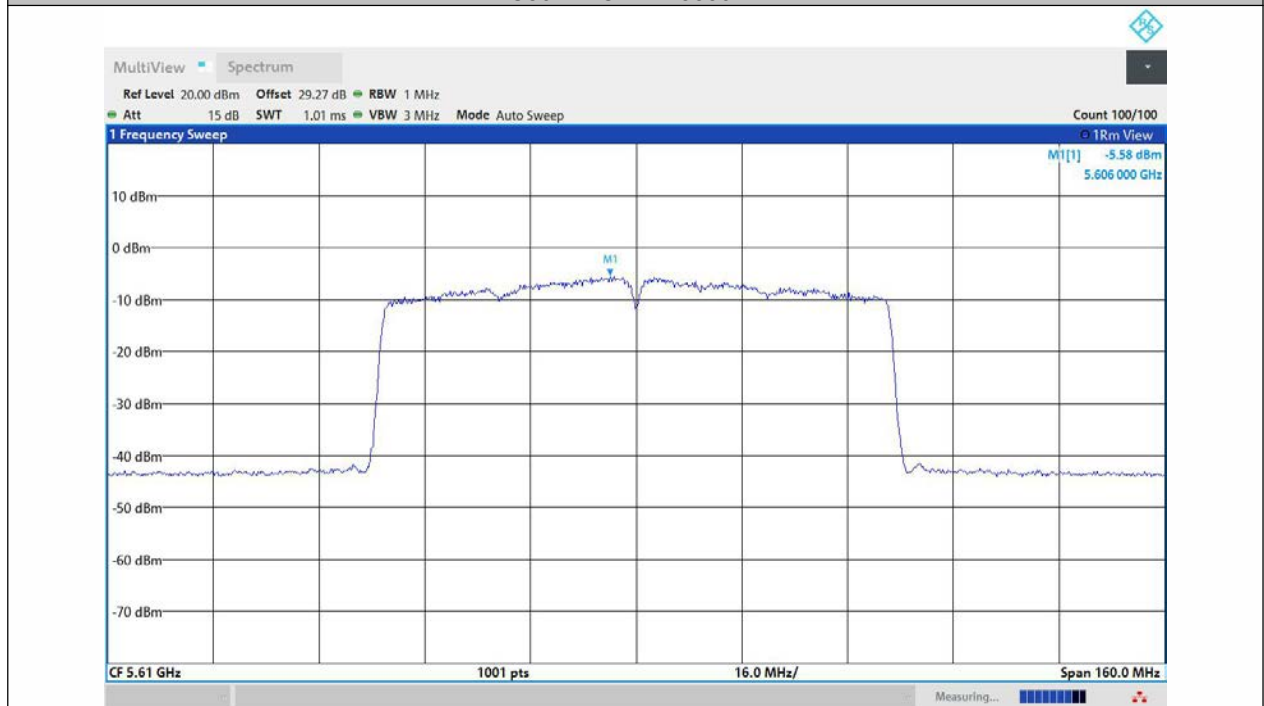
11AC80MIMO-Ant1-5530-PASS



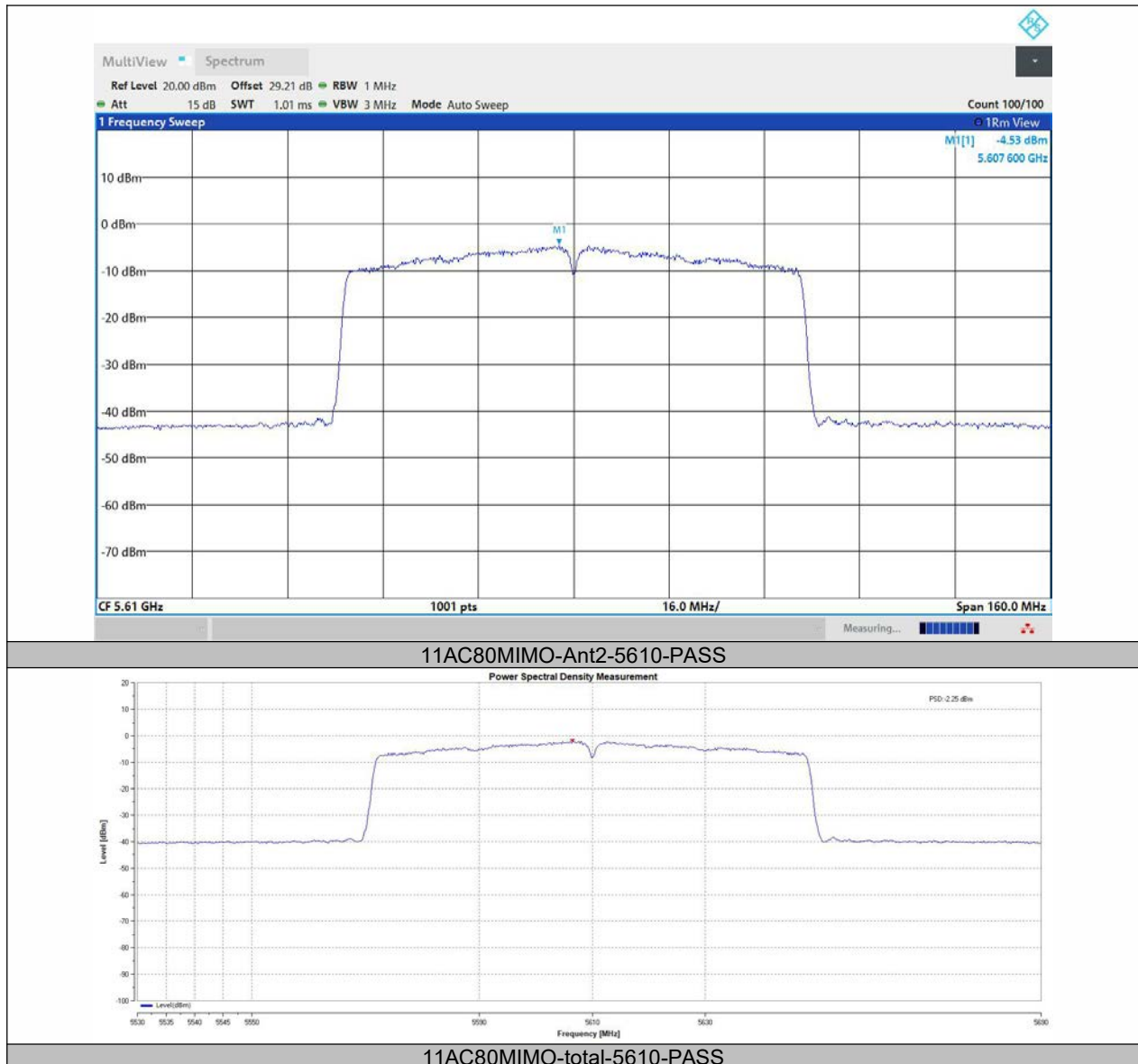
11AC80MIMO-Ant2-5530-PASS

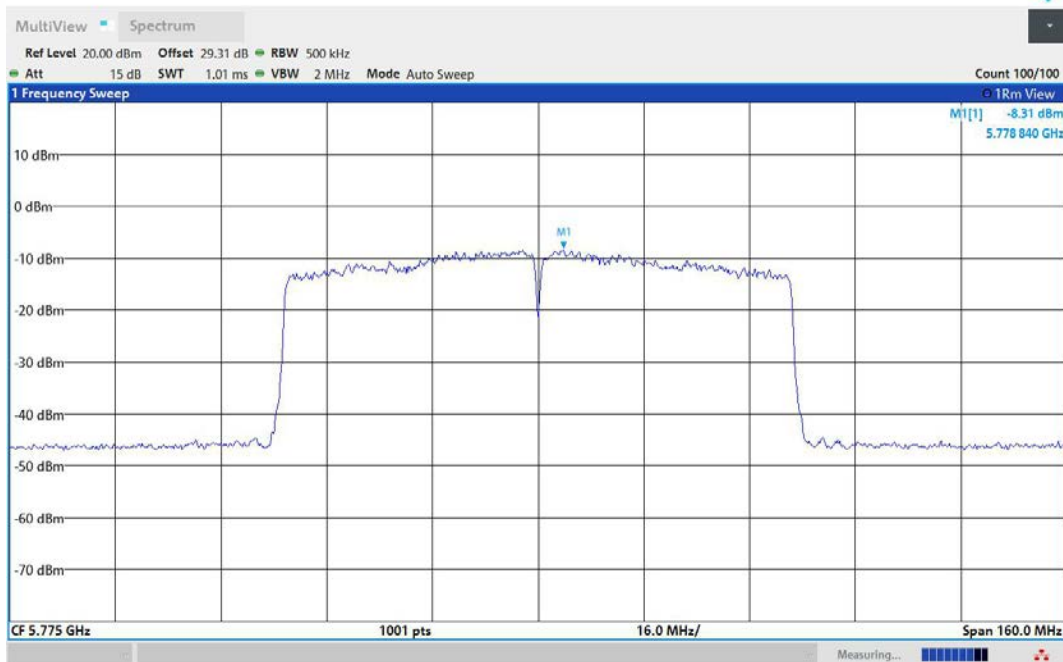


11AC80MIMO-total-5530-PASS

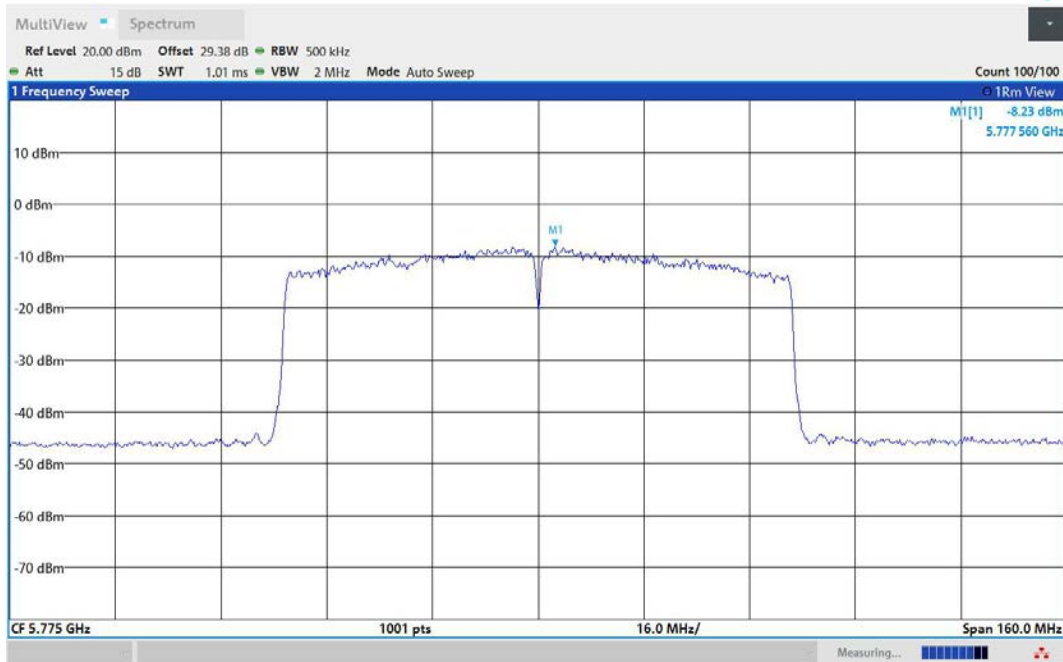


11AC80MIMO-Ant1-5610-PASS

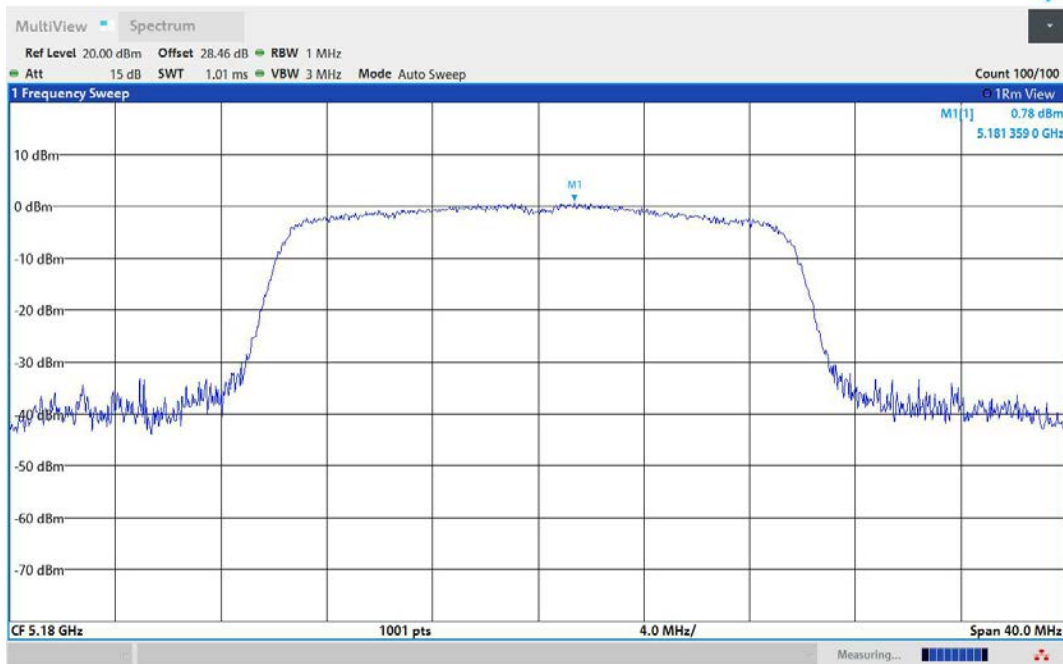




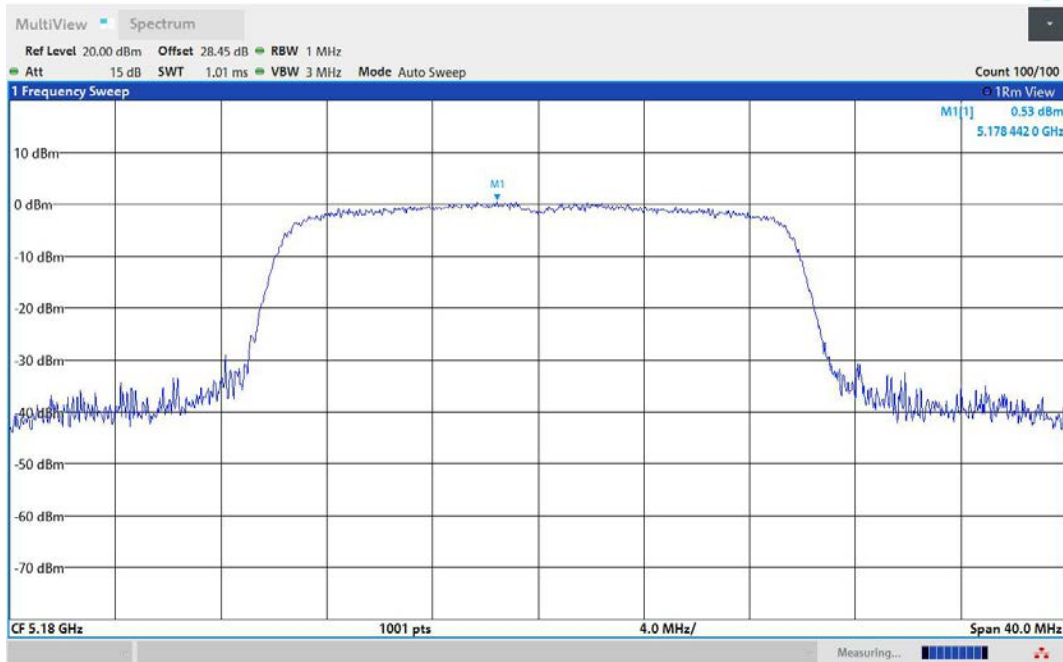
11AC80MIMO-Ant1-5775-PASS



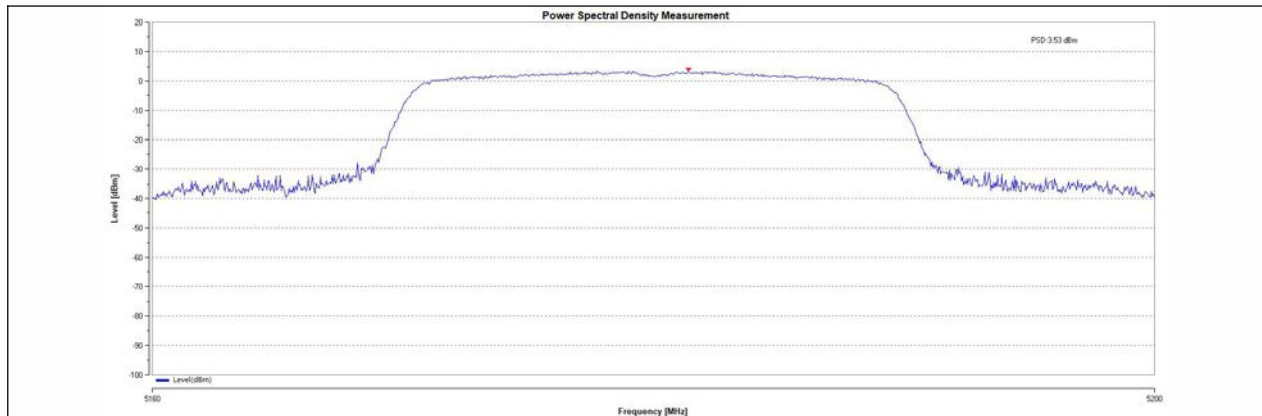
11AC80MIMO-Ant2-5775-PASS



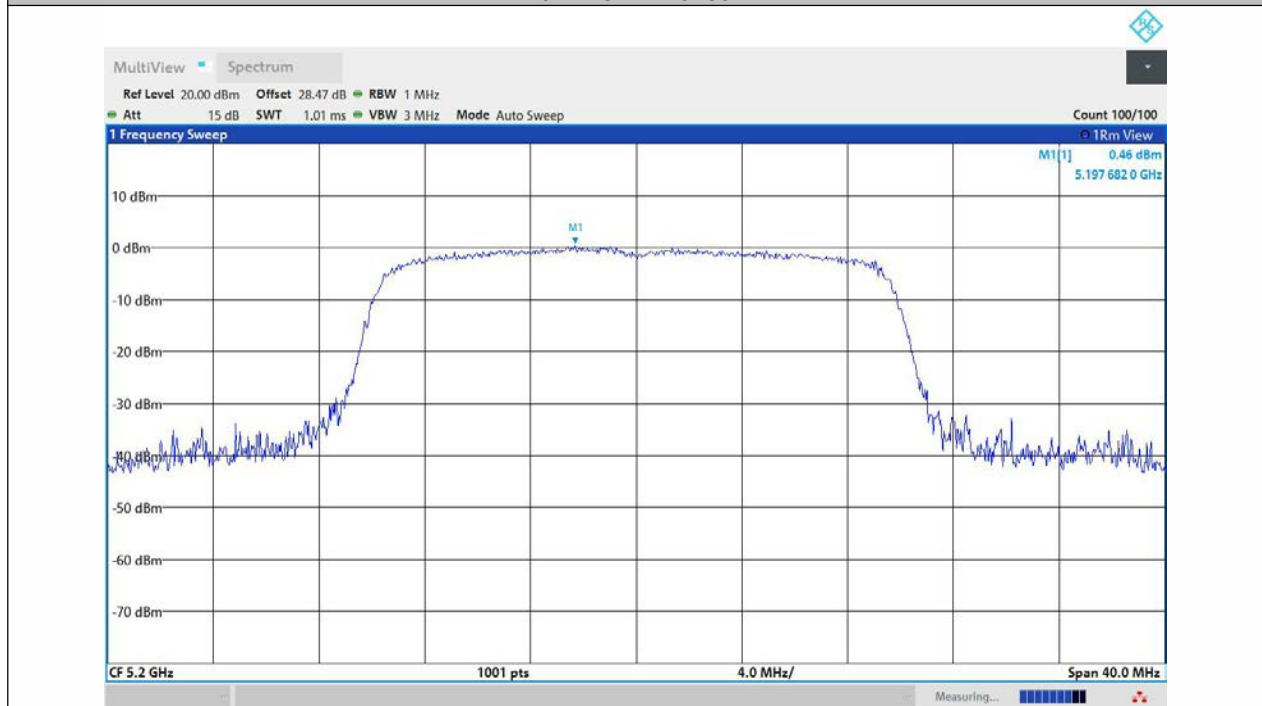
11AX20MIMO-Ant1-5180-PASS



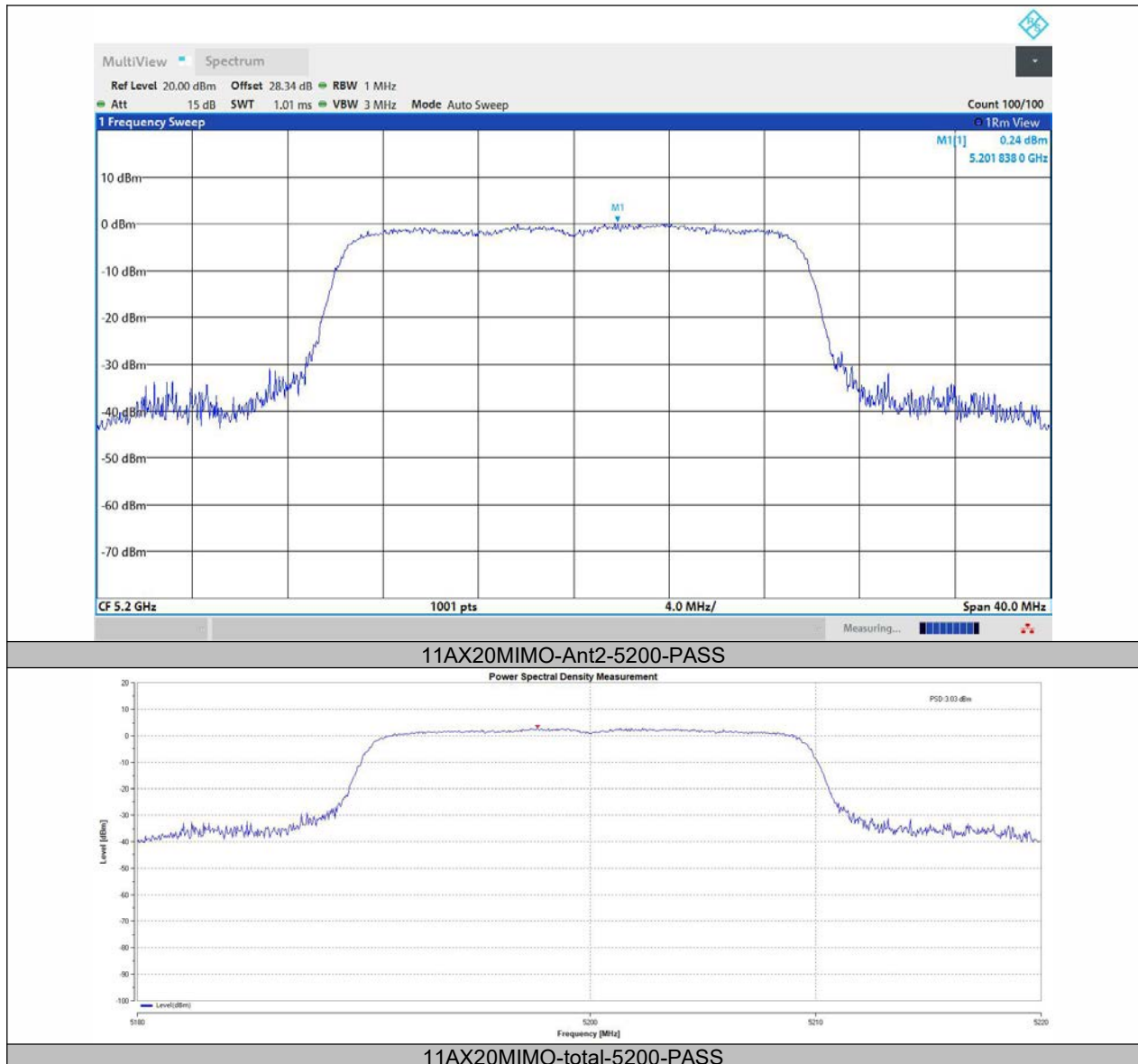
11AX20MIMO-Ant2-5180-PASS

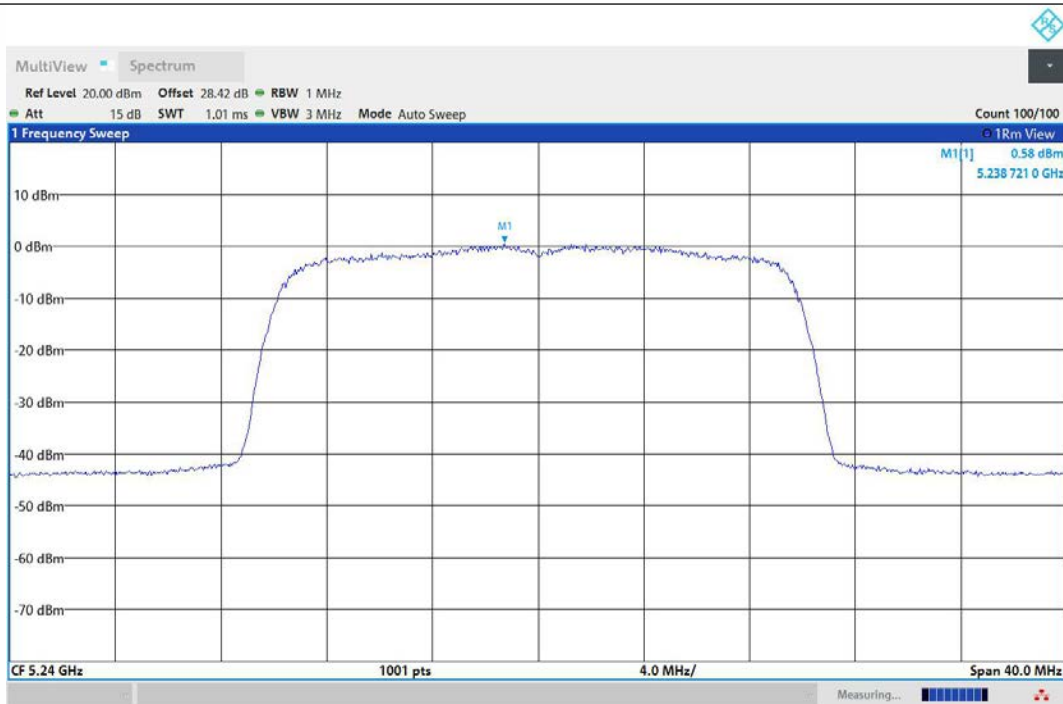


11AX20MIMO-total-5180-PASS

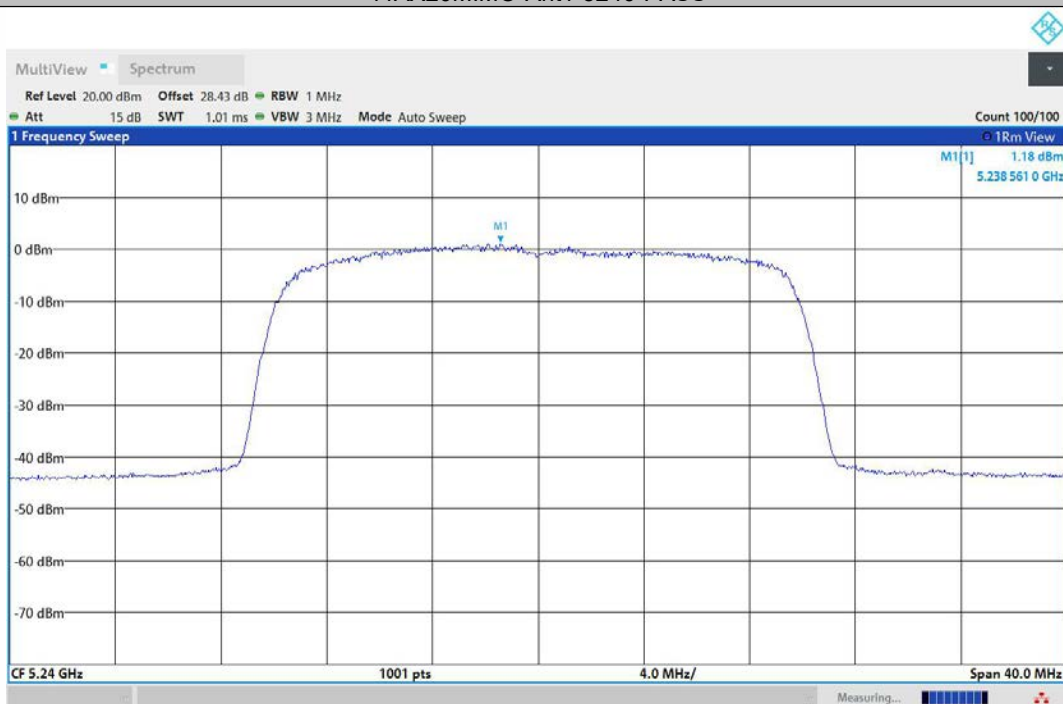


11AX20MIMO-Ant1-5200-PASS





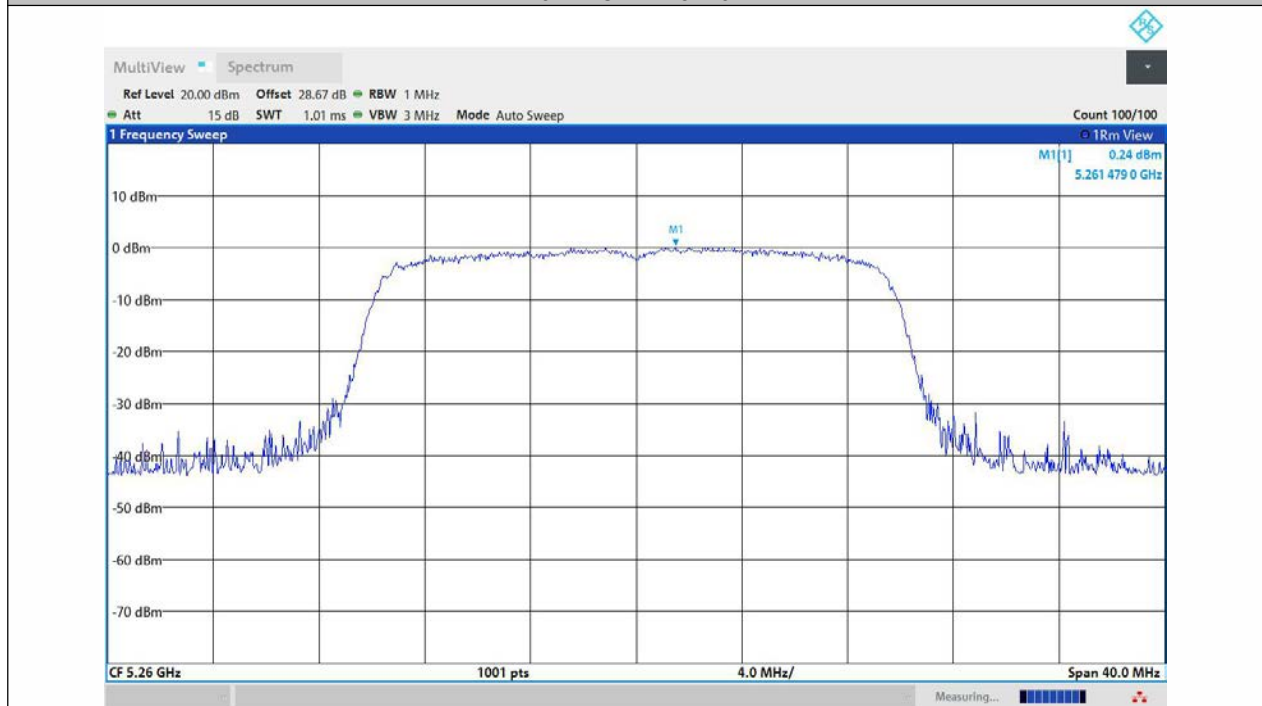
11AX20MIMO-Ant1-5240-PASS



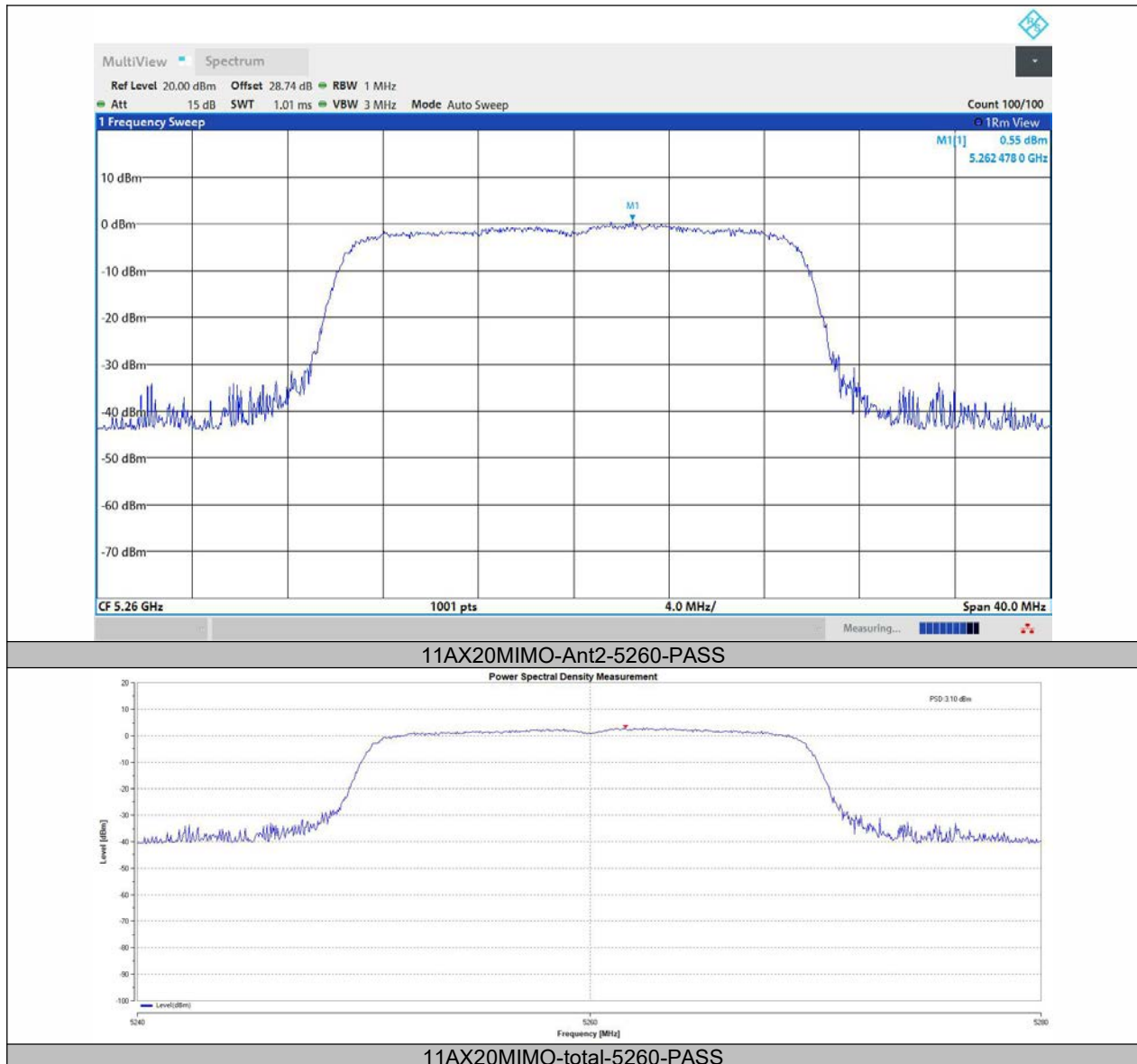
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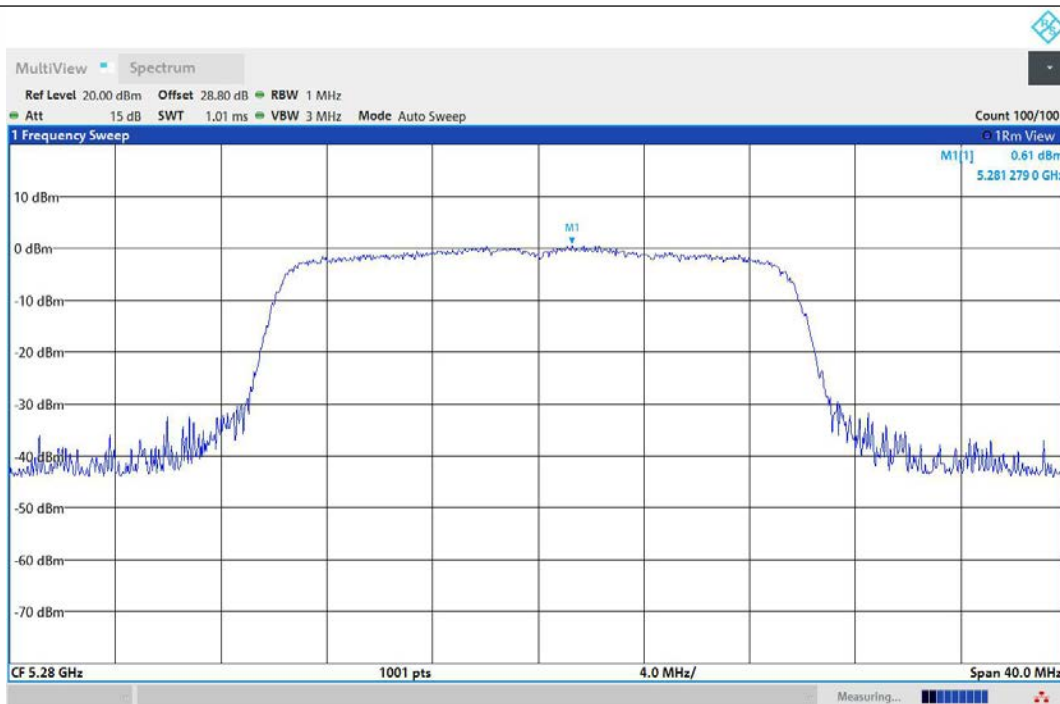


11AX20MIMO-total-5240-PASS

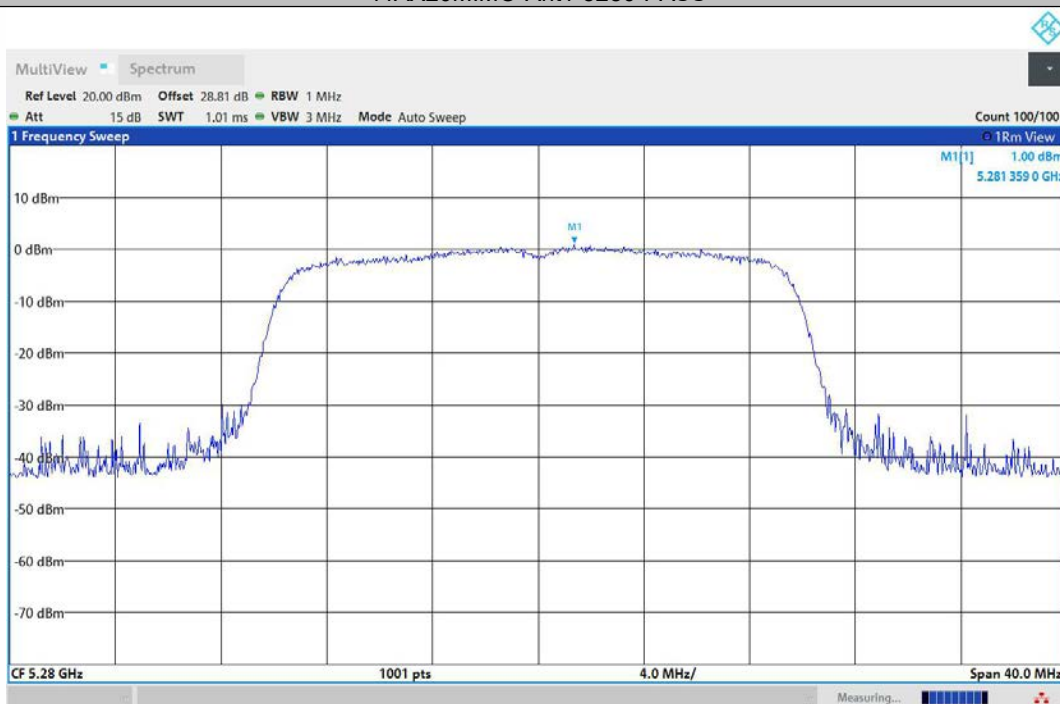


11AX20MIMO-Ant1-5260-PASS

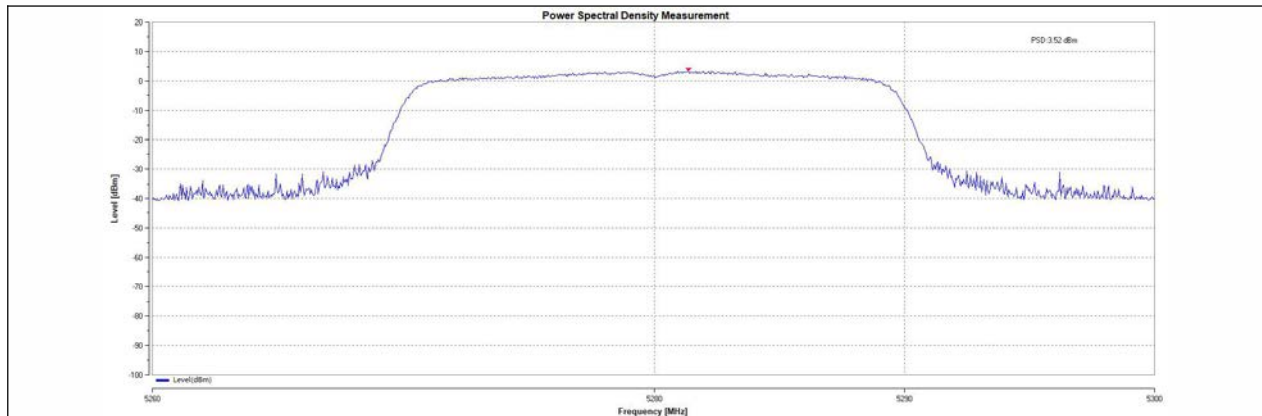




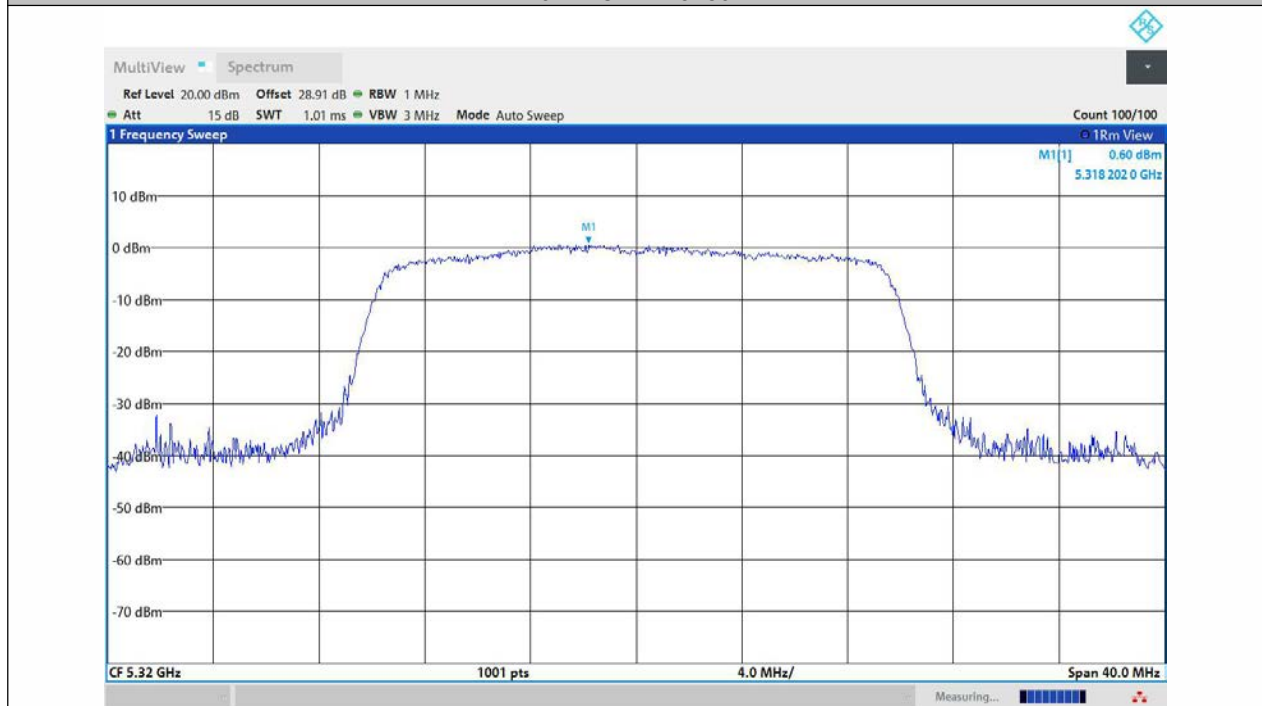
11AX20MIMO-Ant1-5280-PASS



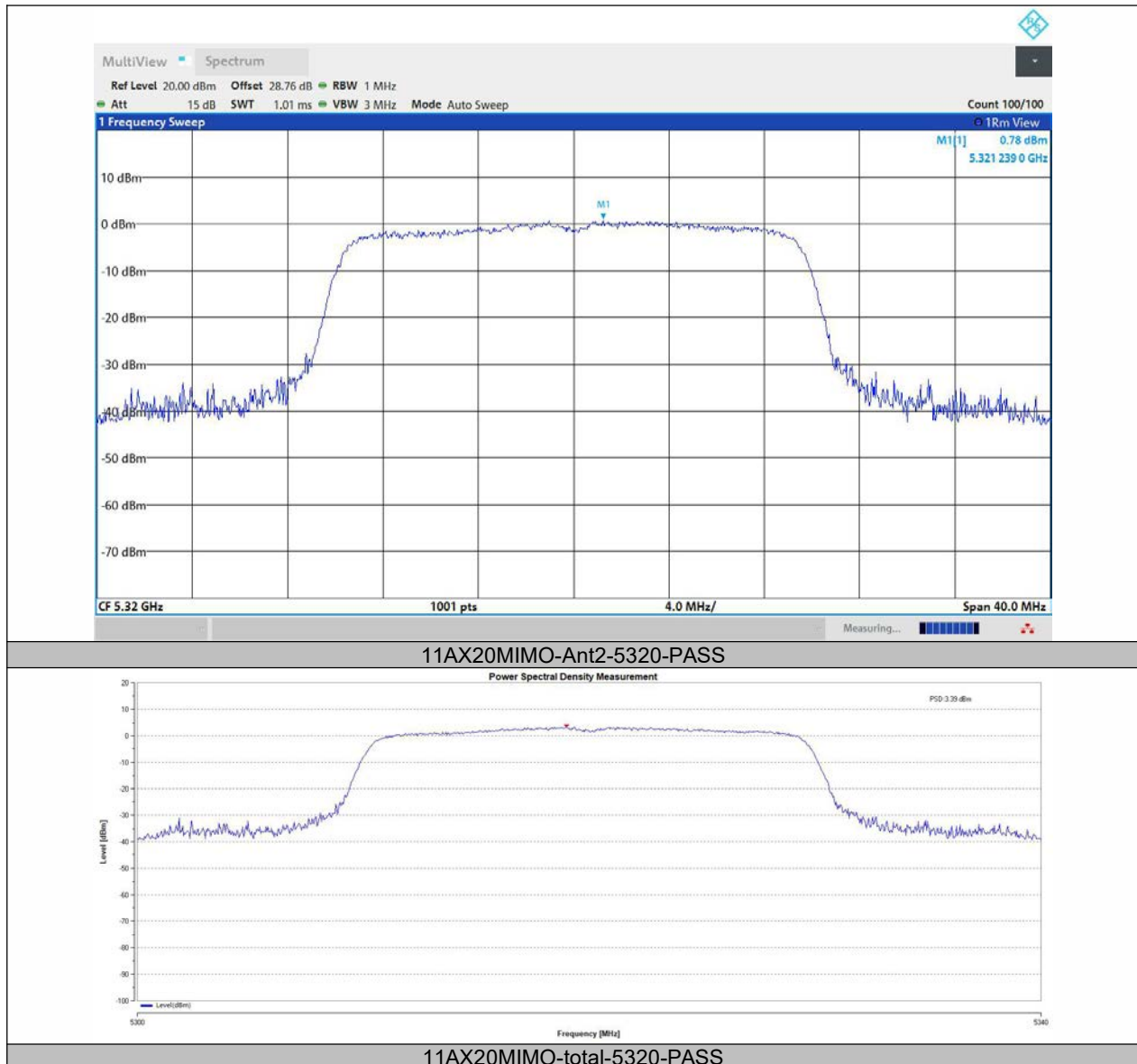
11AX20MIMO-Ant2-5280-PASS

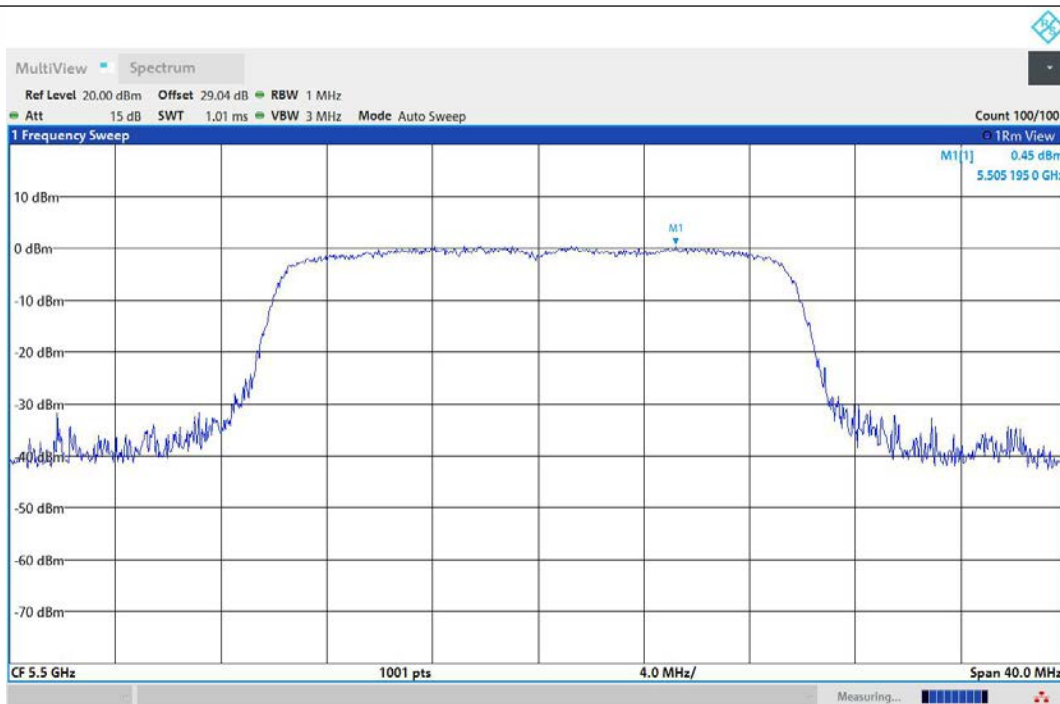


11AX20MIMO-total-5280-PASS

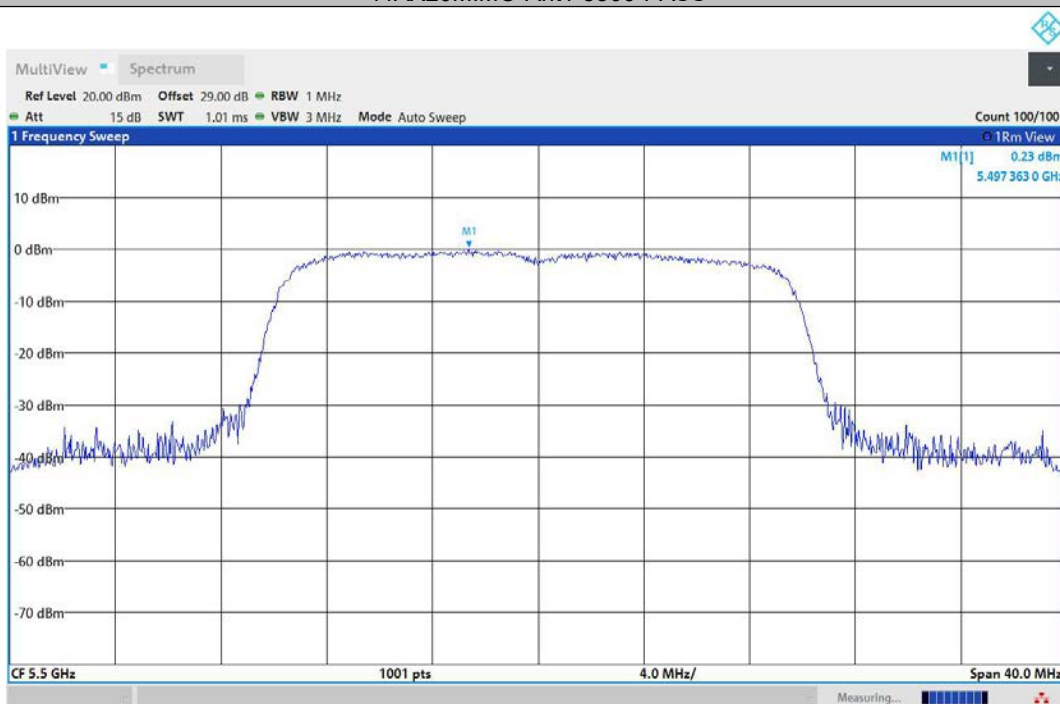


11AX20MIMO-Ant1-5320-PASS

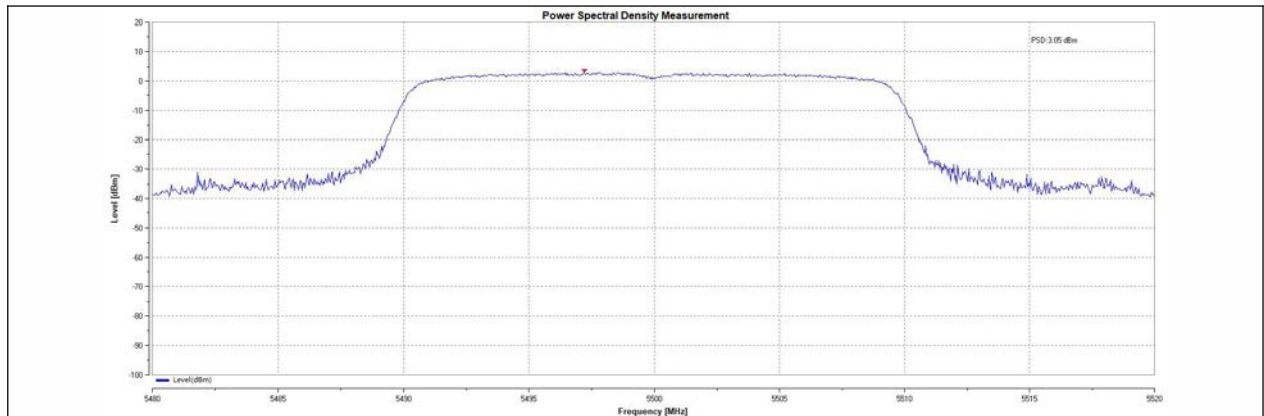




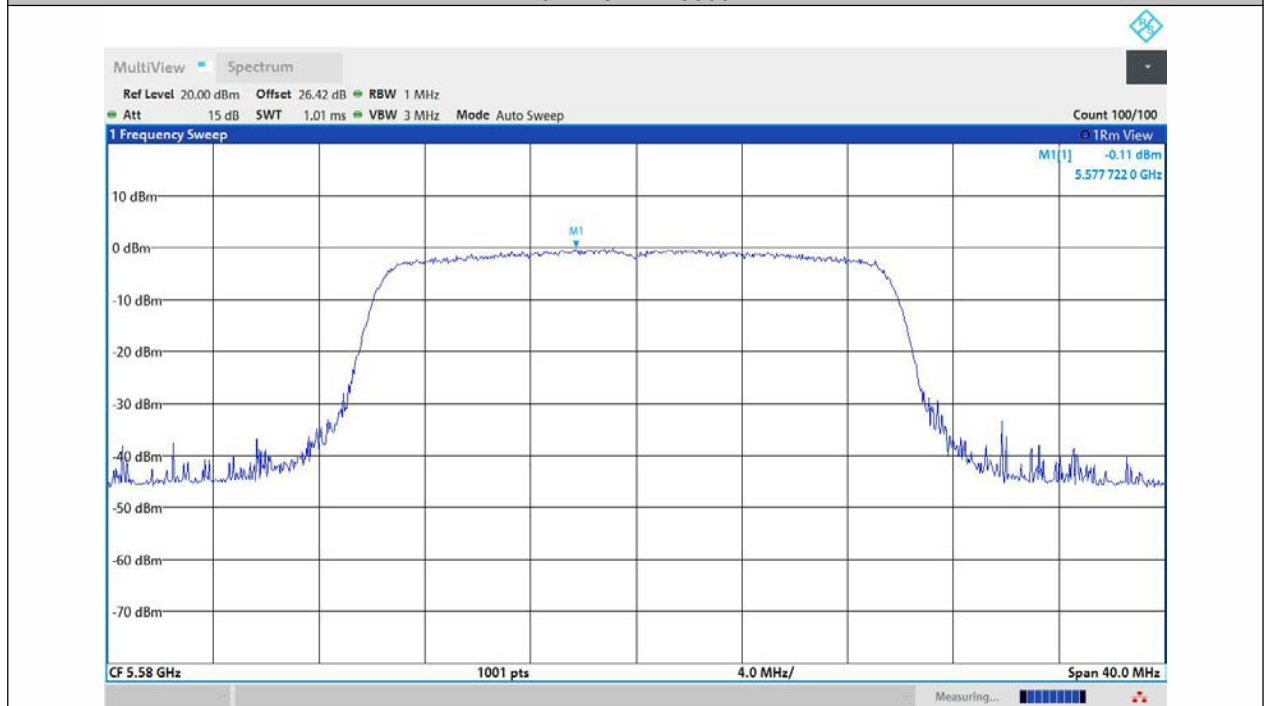
11AX20MIMO-Ant1-5500-PASS



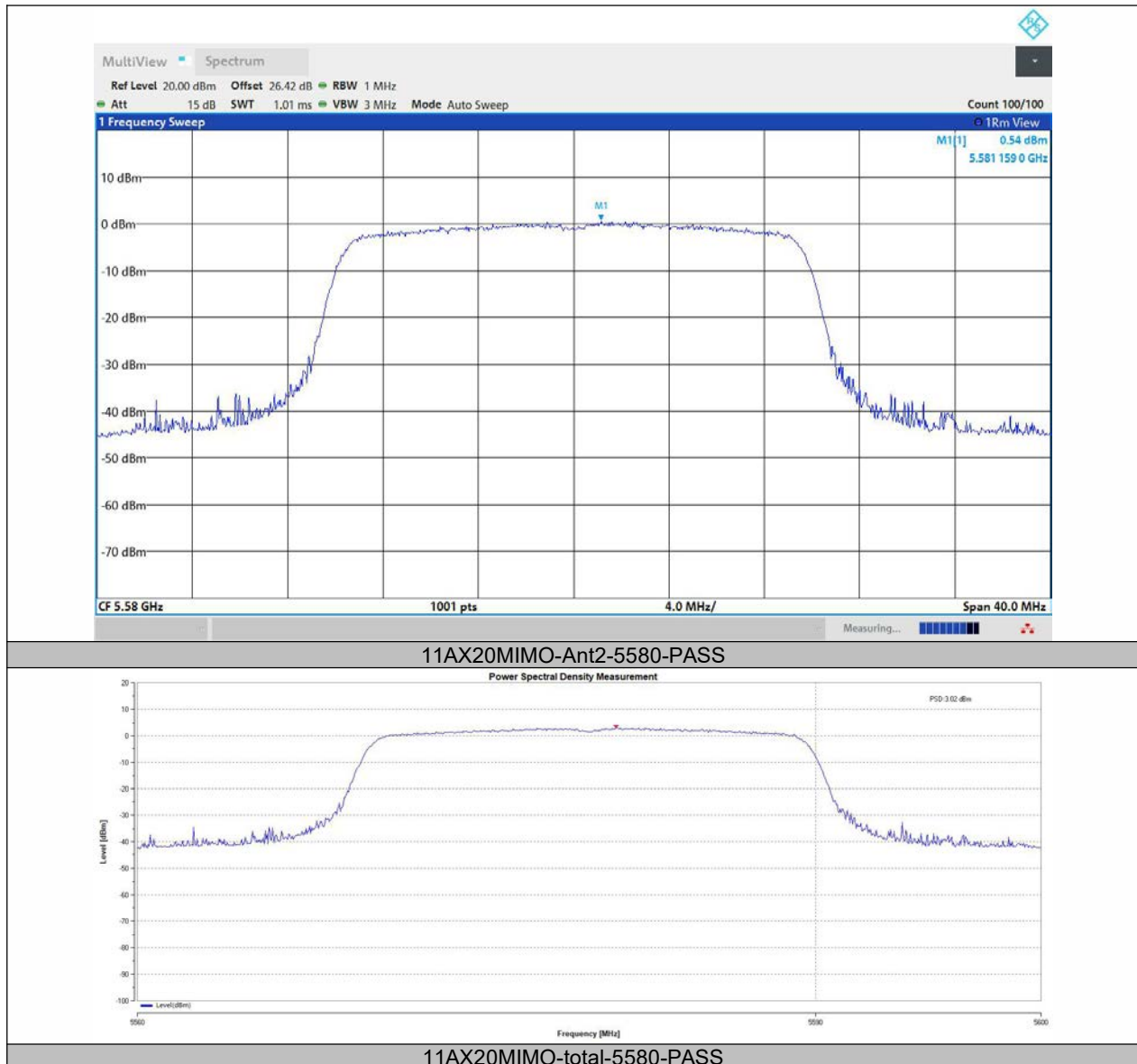
11AX20MIMO-Ant2-5500-PASS

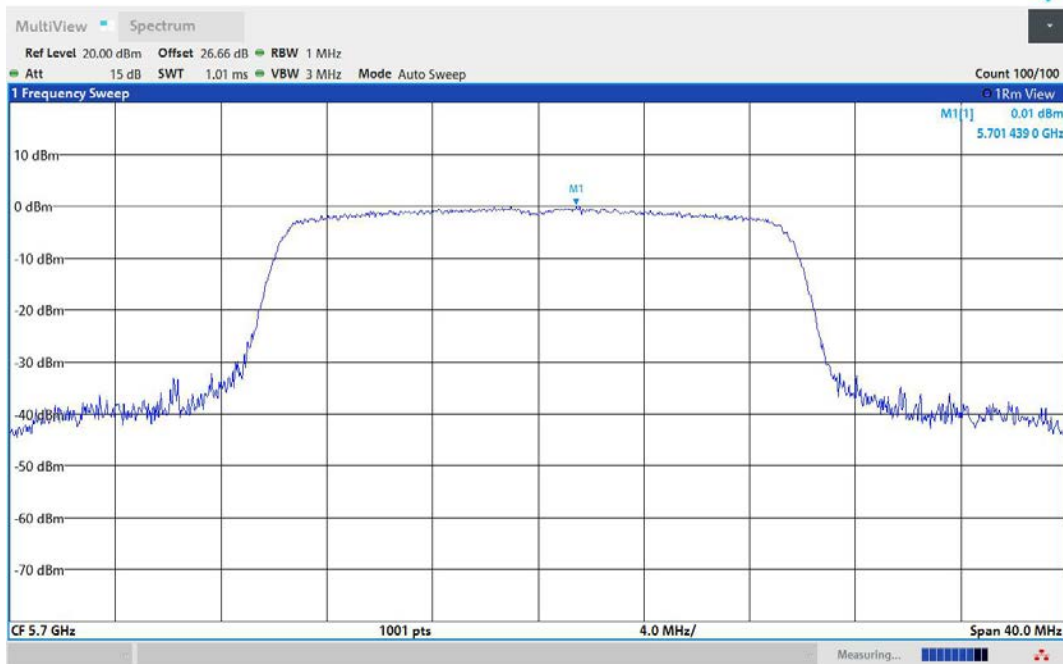


11AX20MIMO-total-5500-PASS

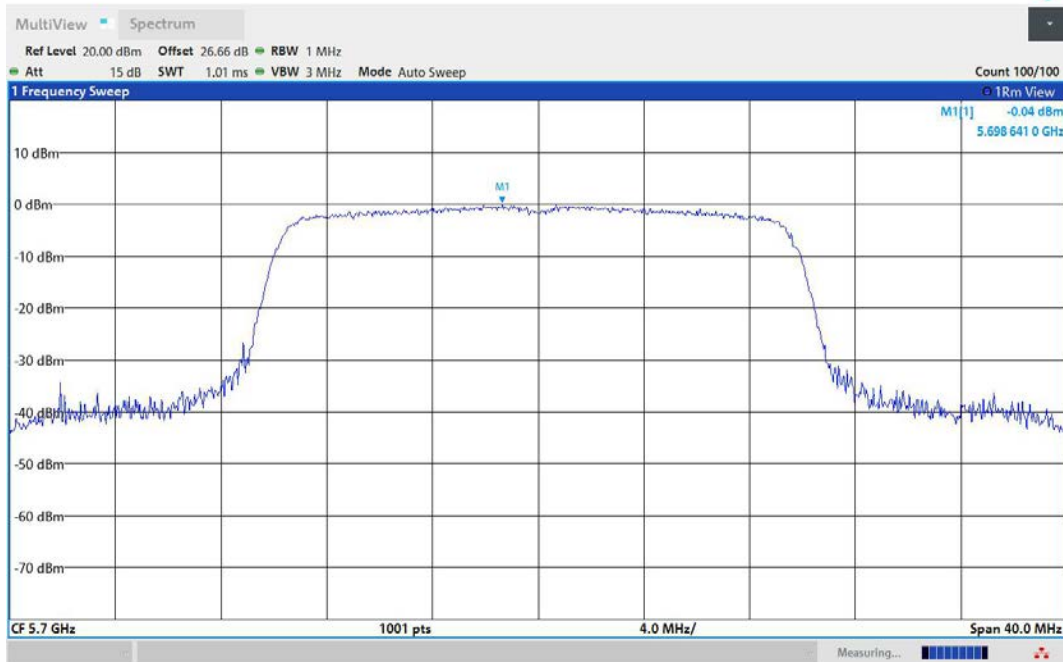


11AX20MIMO-Ant1-5580-PASS

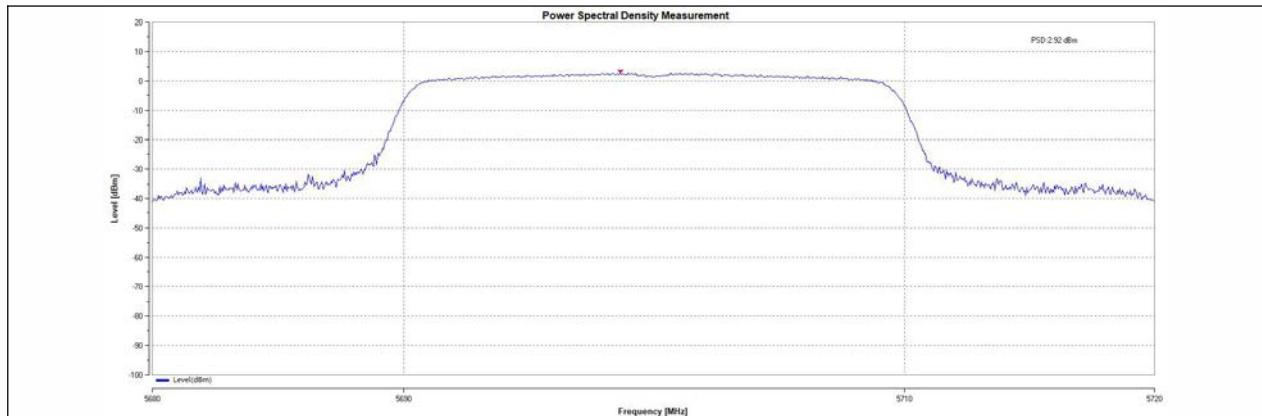




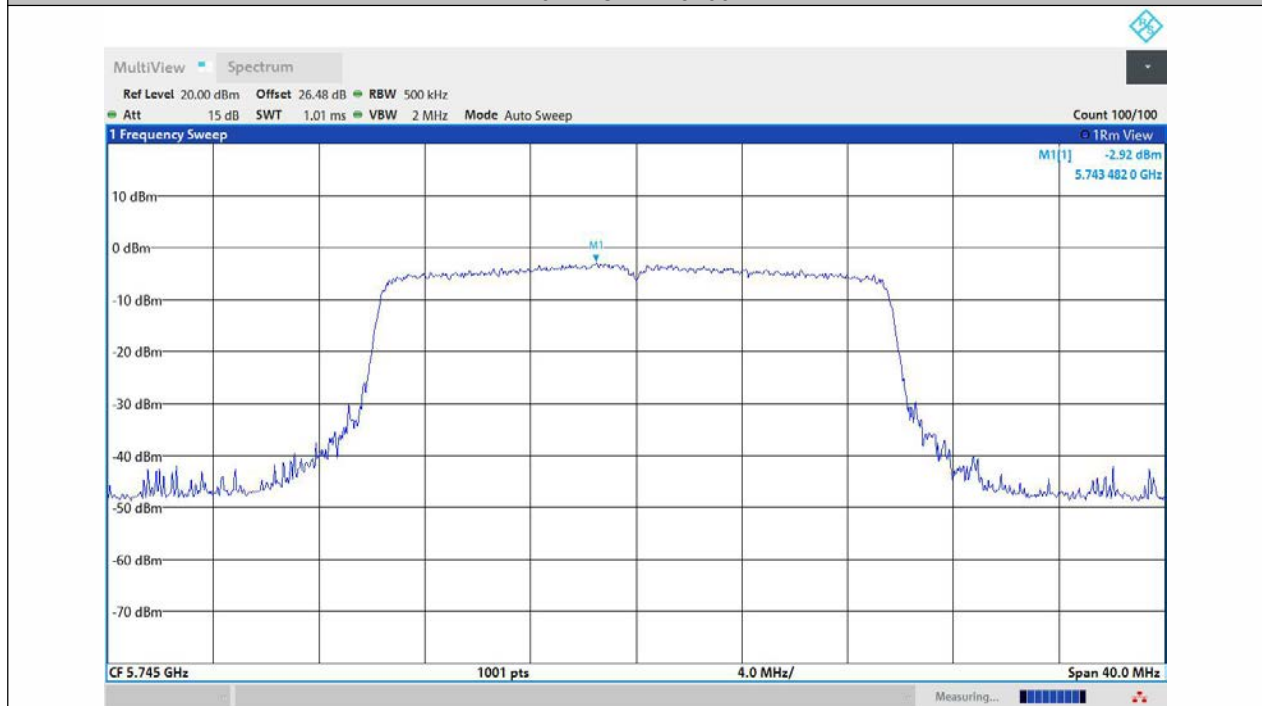
11AX20MIMO-Ant1-5700-PASS



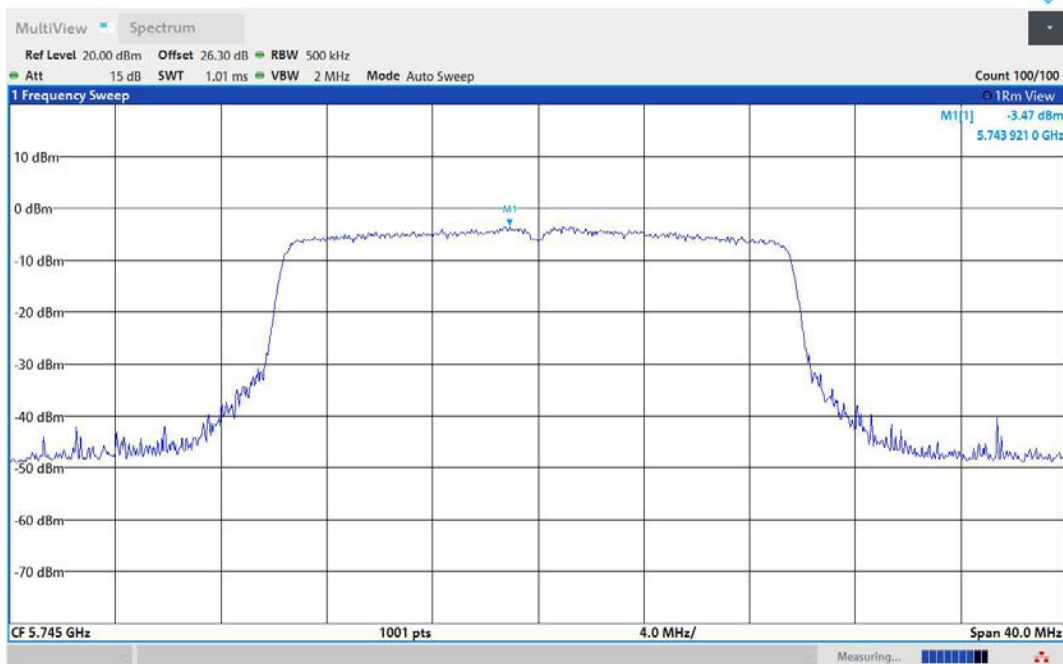
11AX20MIMO-Ant2-5700-PASS



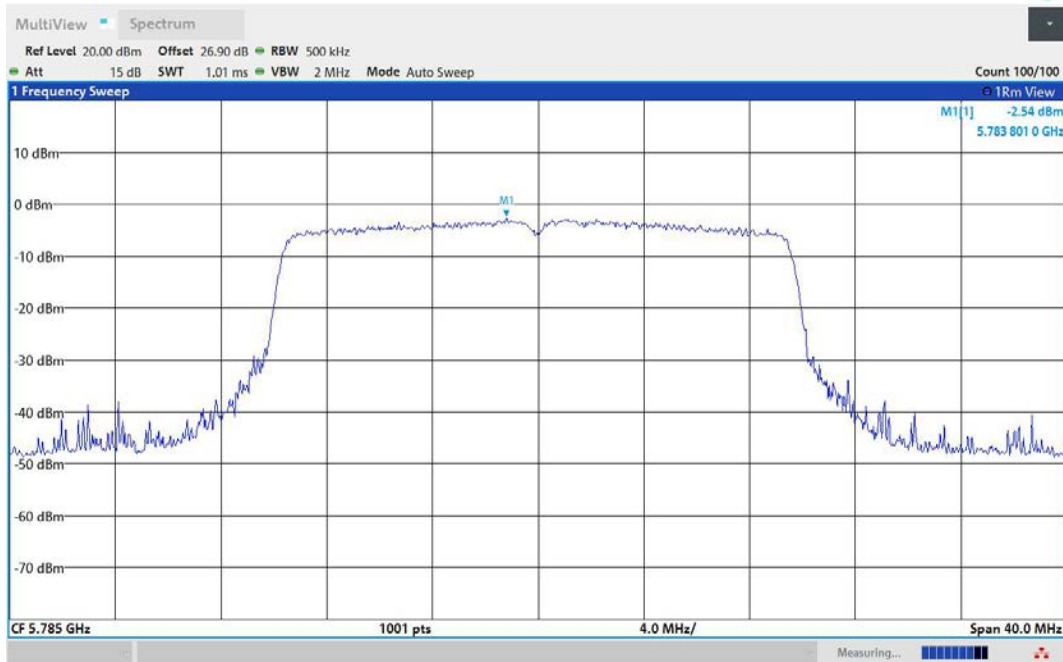
11AX20MIMO-total-5700-PASS



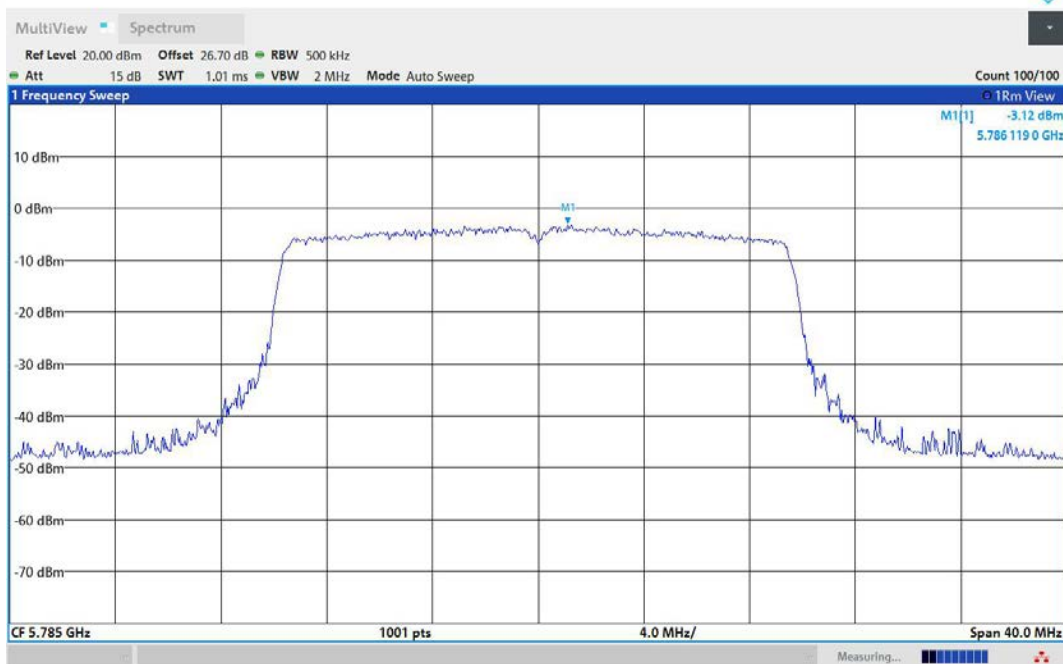
11AX20MIMO-Ant1-5745-PASS



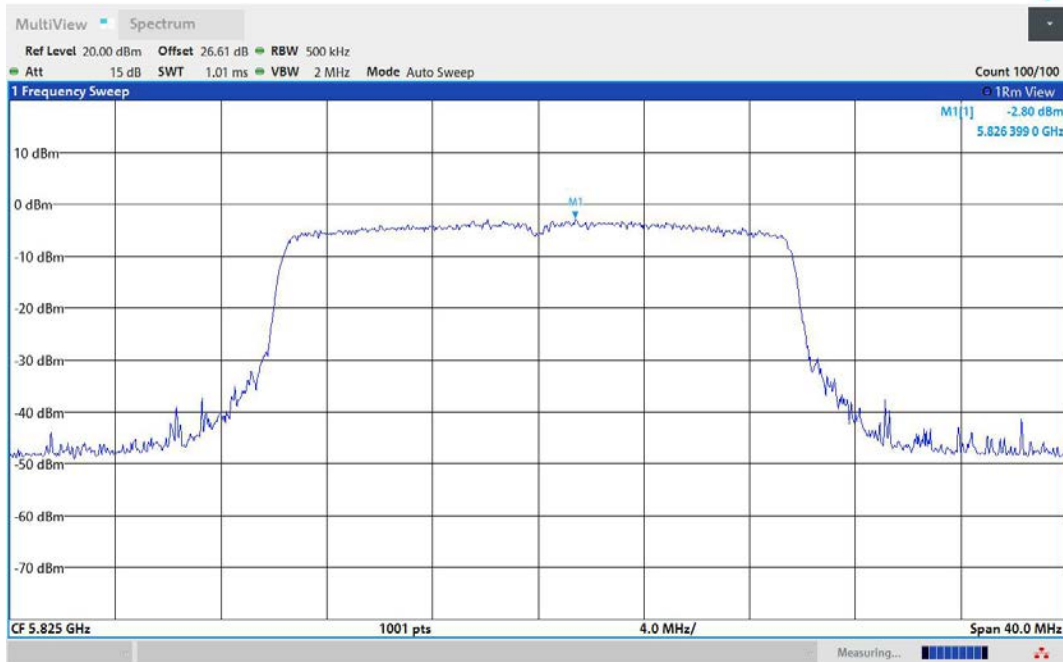
11AX20MIMO-Ant2-5745-PASS



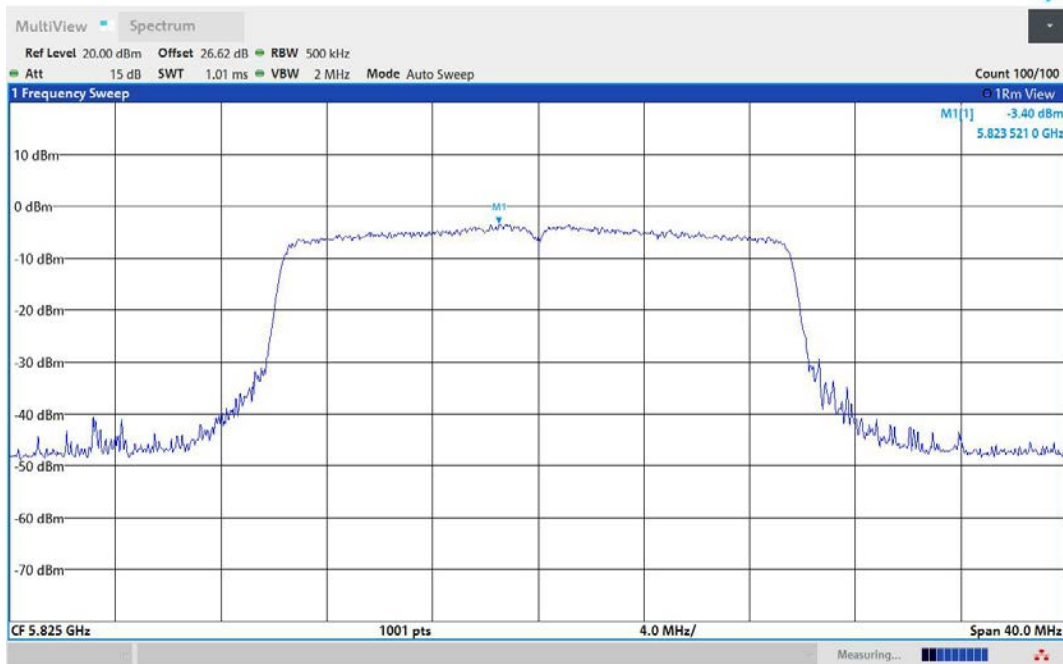
11AX20MIMO-Ant1-5785-PASS



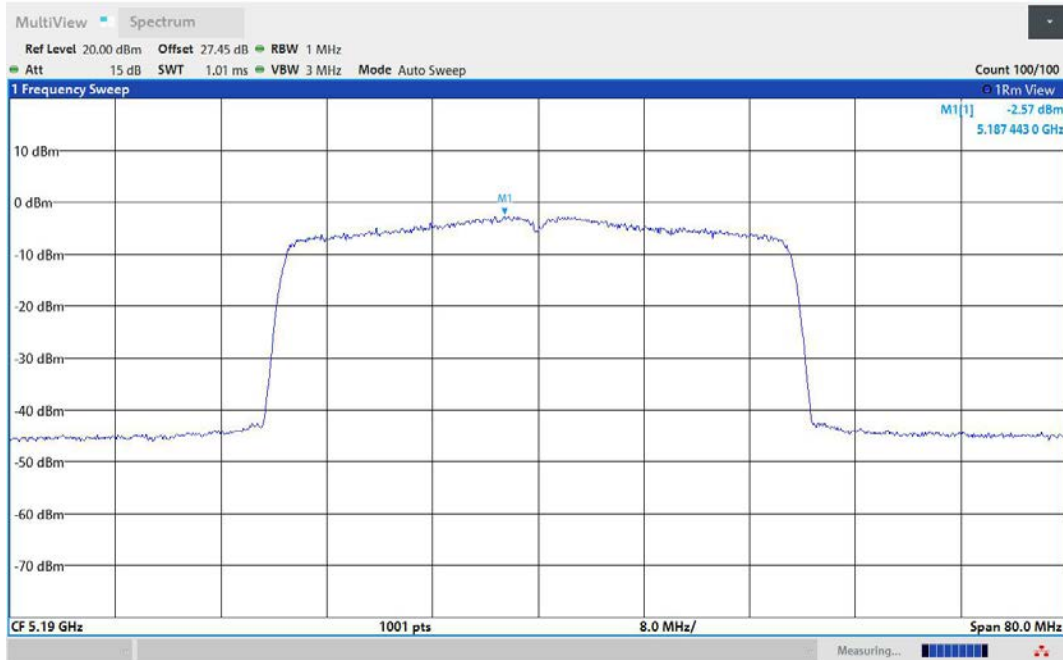
11AX20MIMO-Ant2-5785-PASS



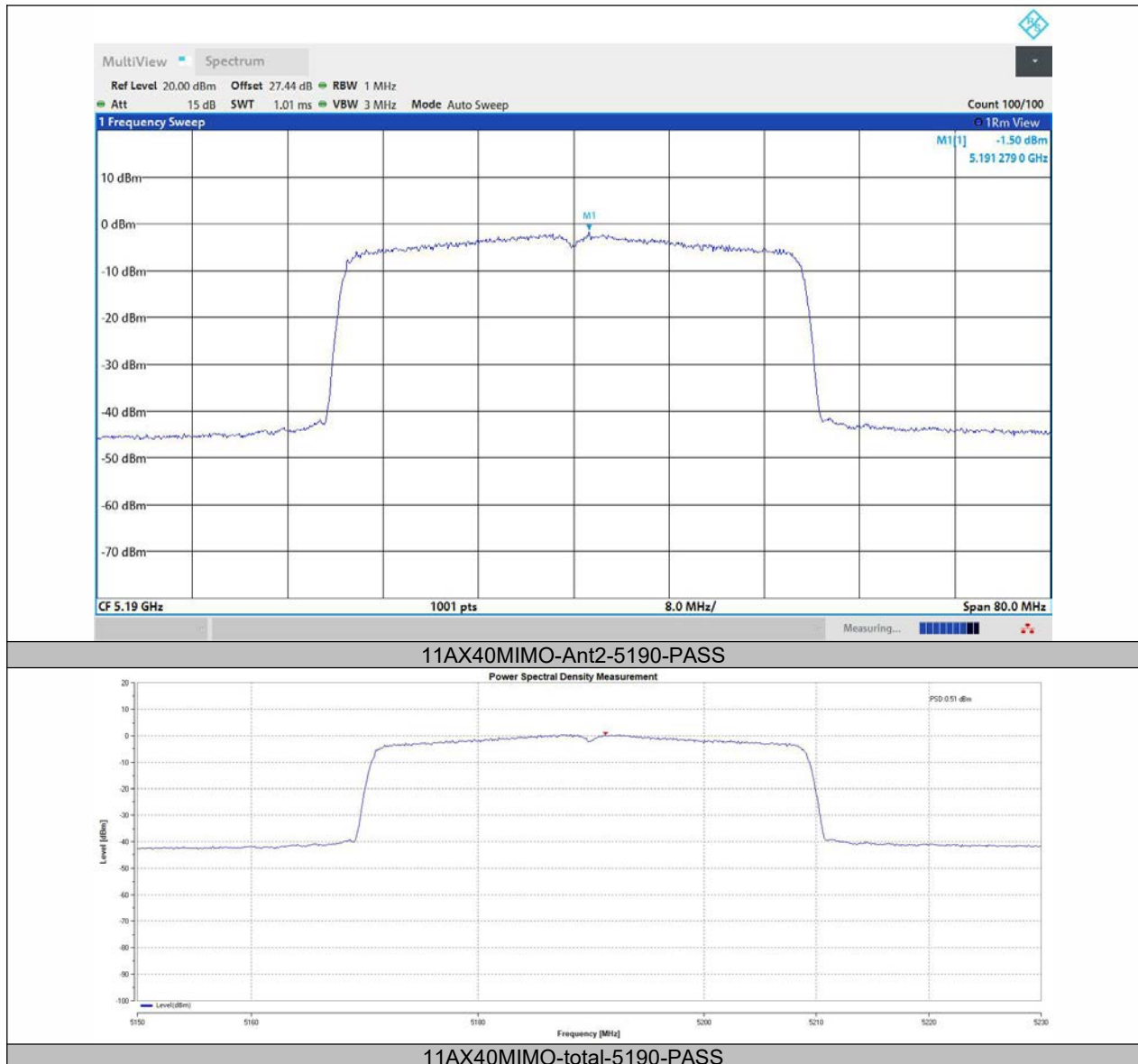
11AX20MIMO-Ant1-5825-PASS

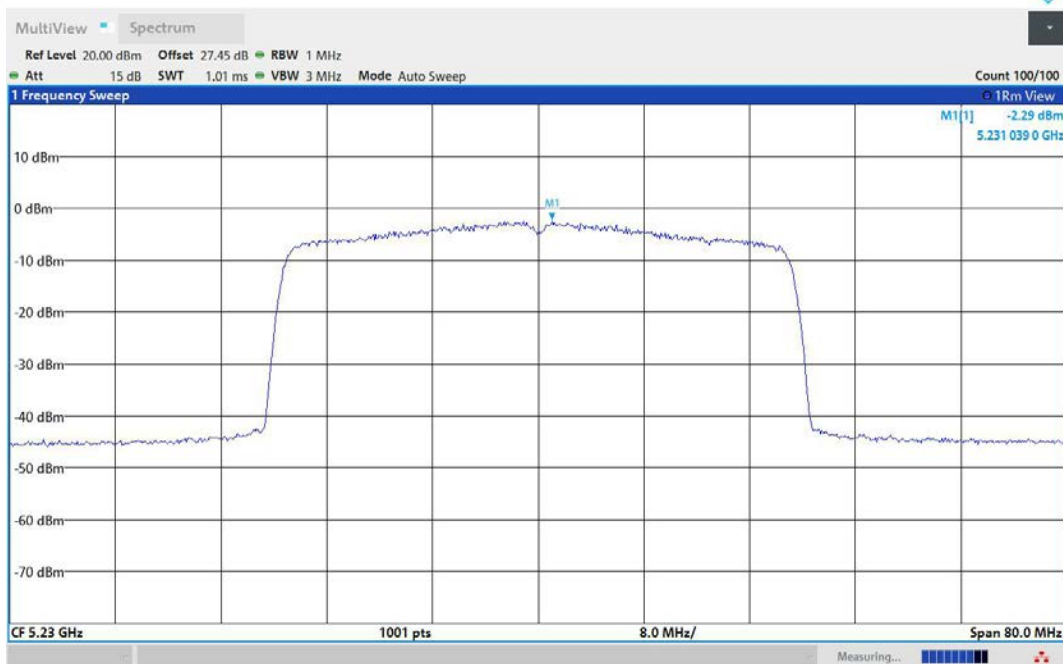


11AX20MIMO-Ant2-5825-PASS

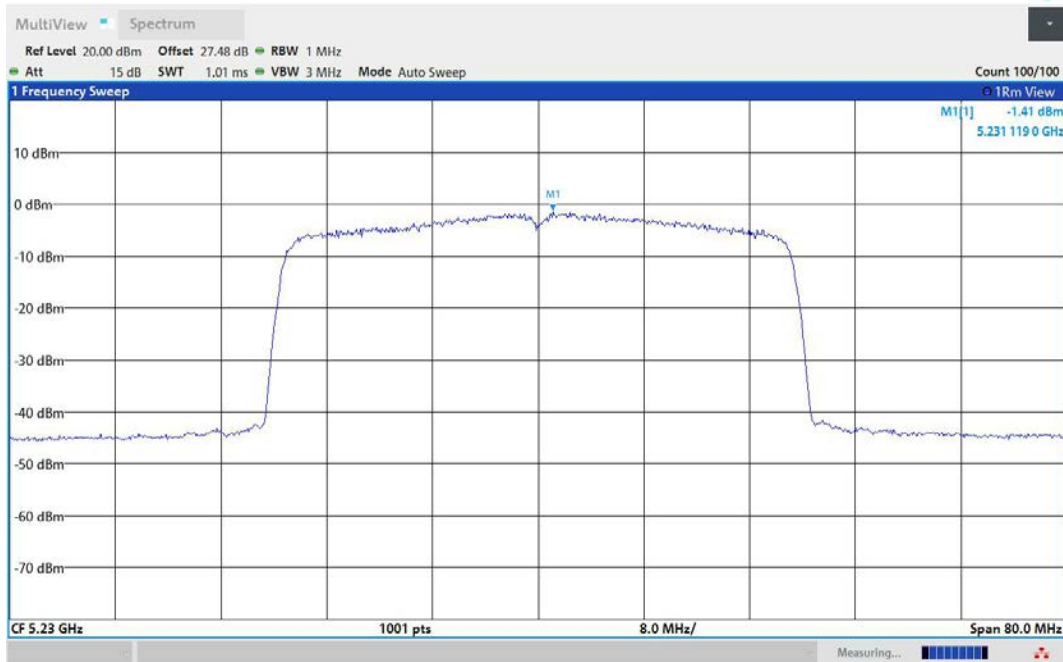


11AX40MIMO-Ant1-5190-PASS

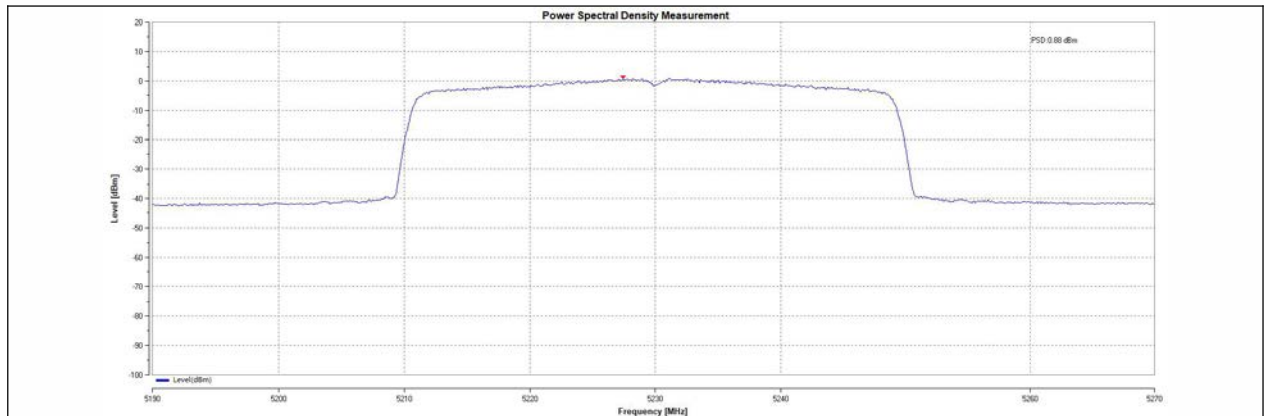




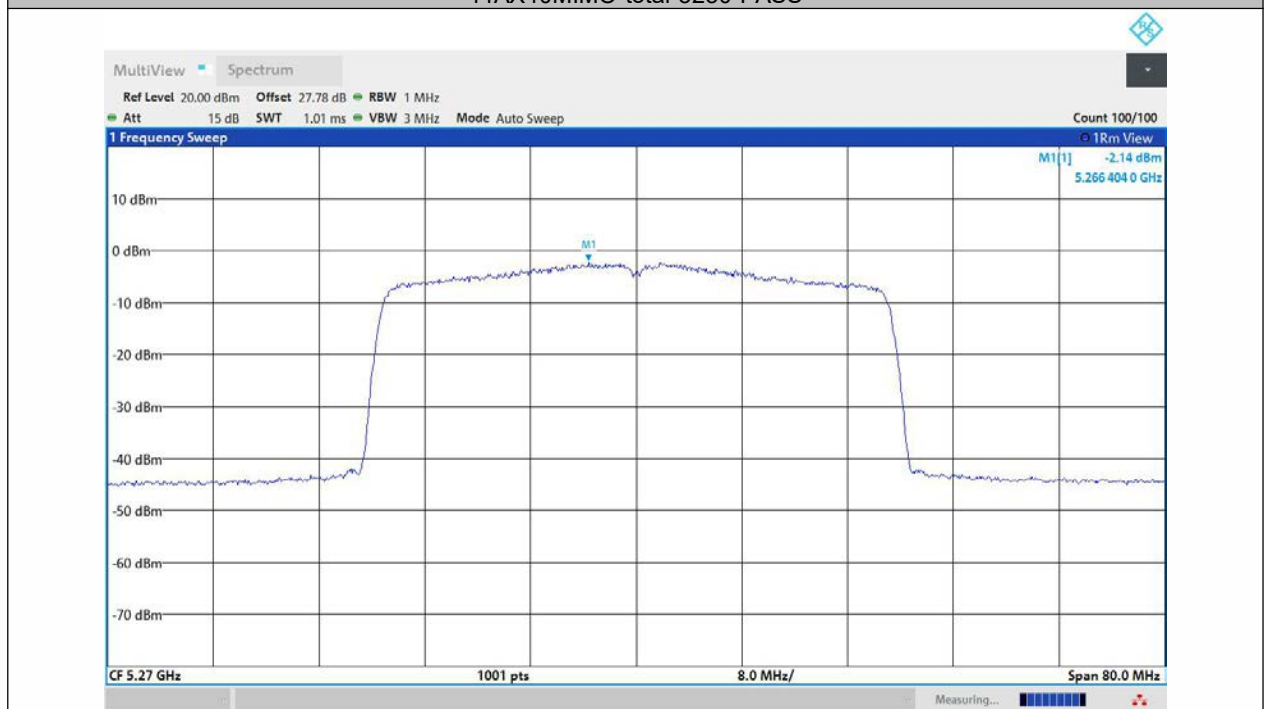
11AX40MIMO-Ant1-5230-PASS



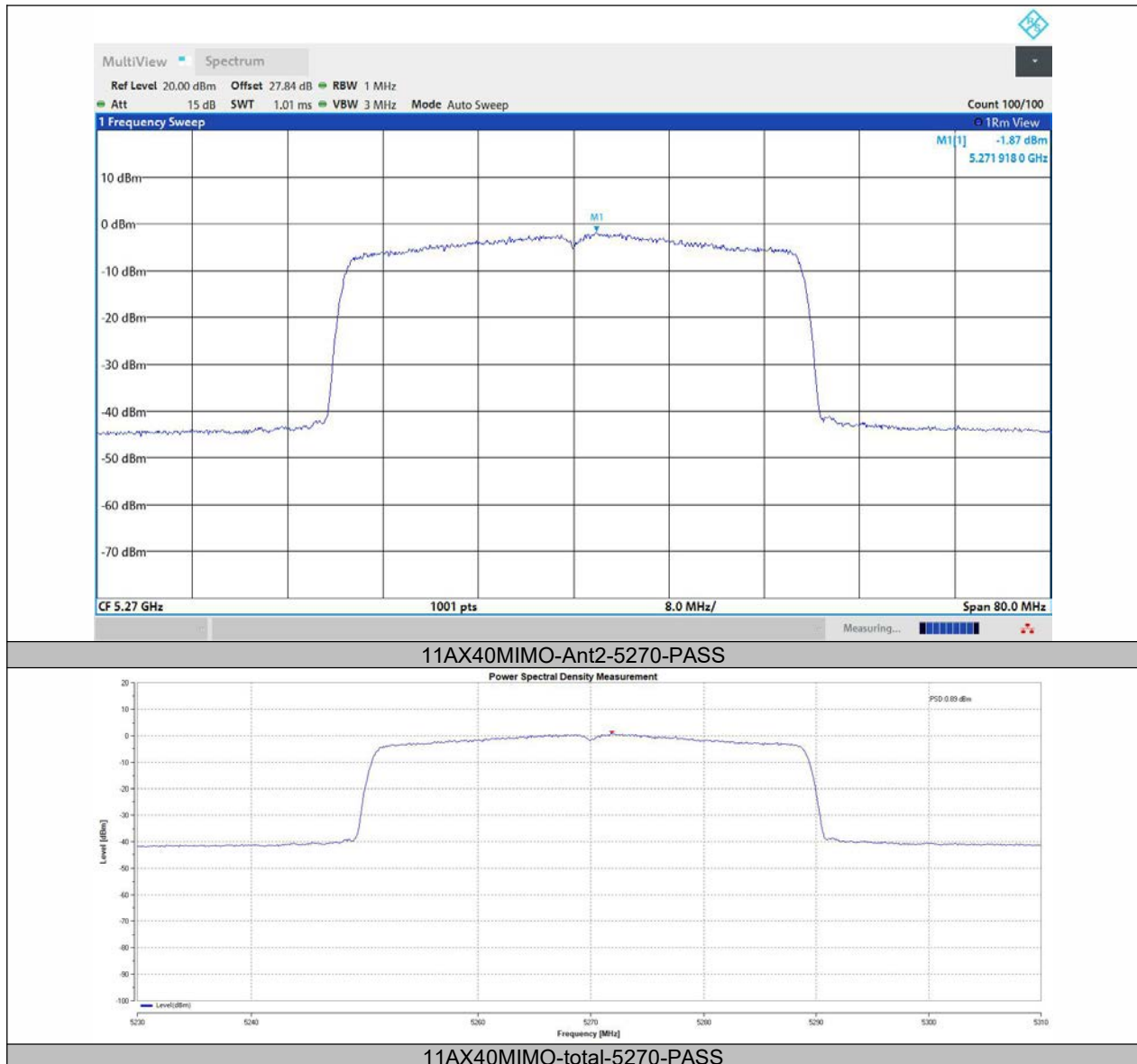
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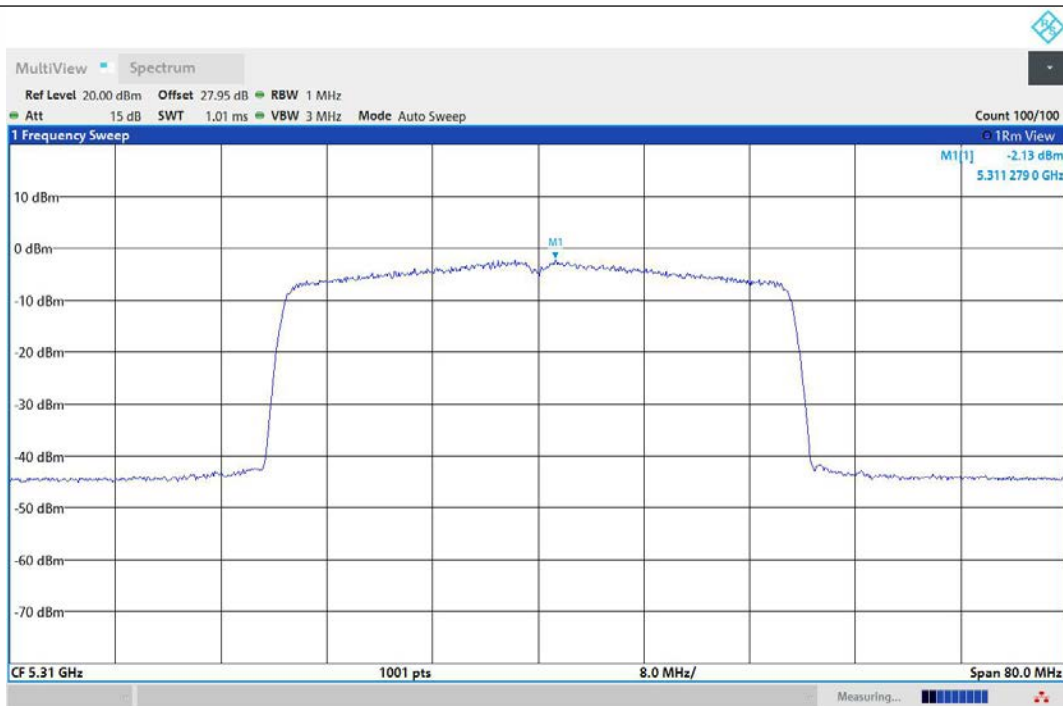


11AX40MIMO-total-5230-PASS

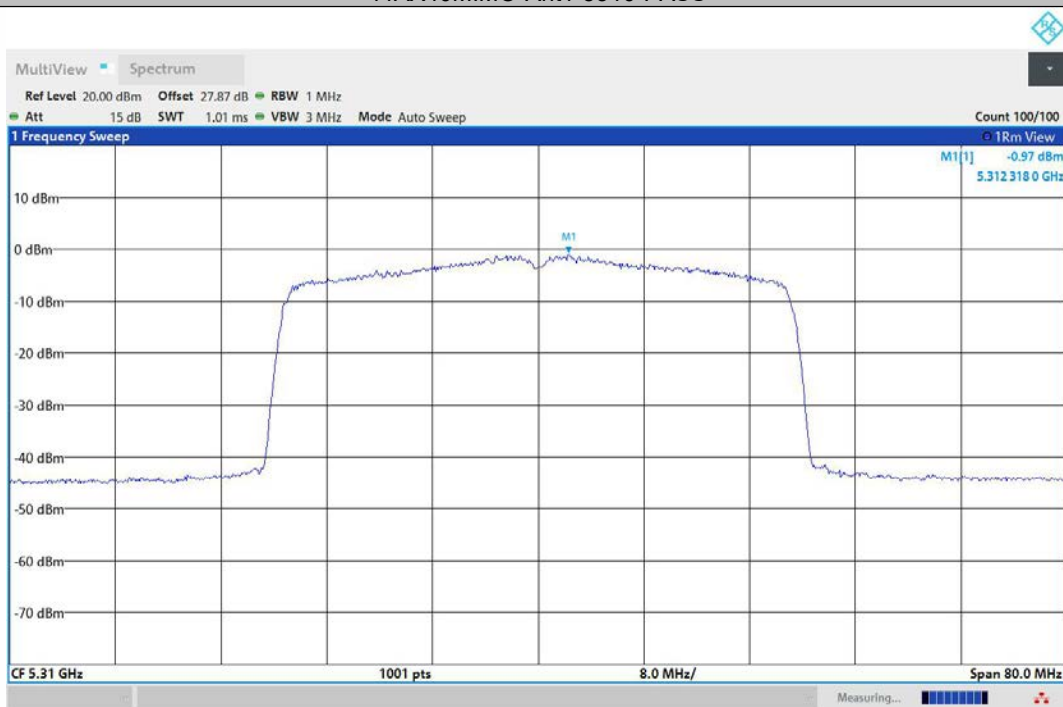


11AX40MIMO-Ant1-5270-PASS

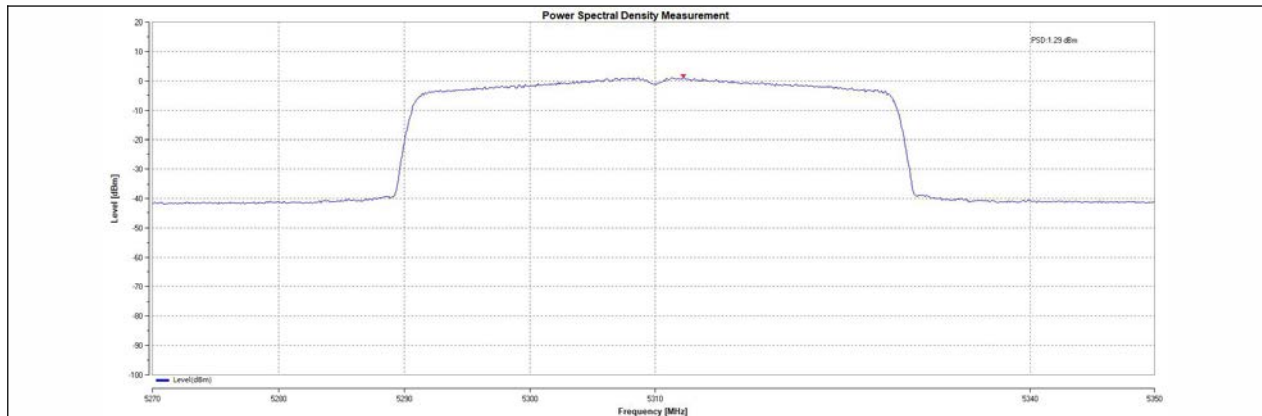




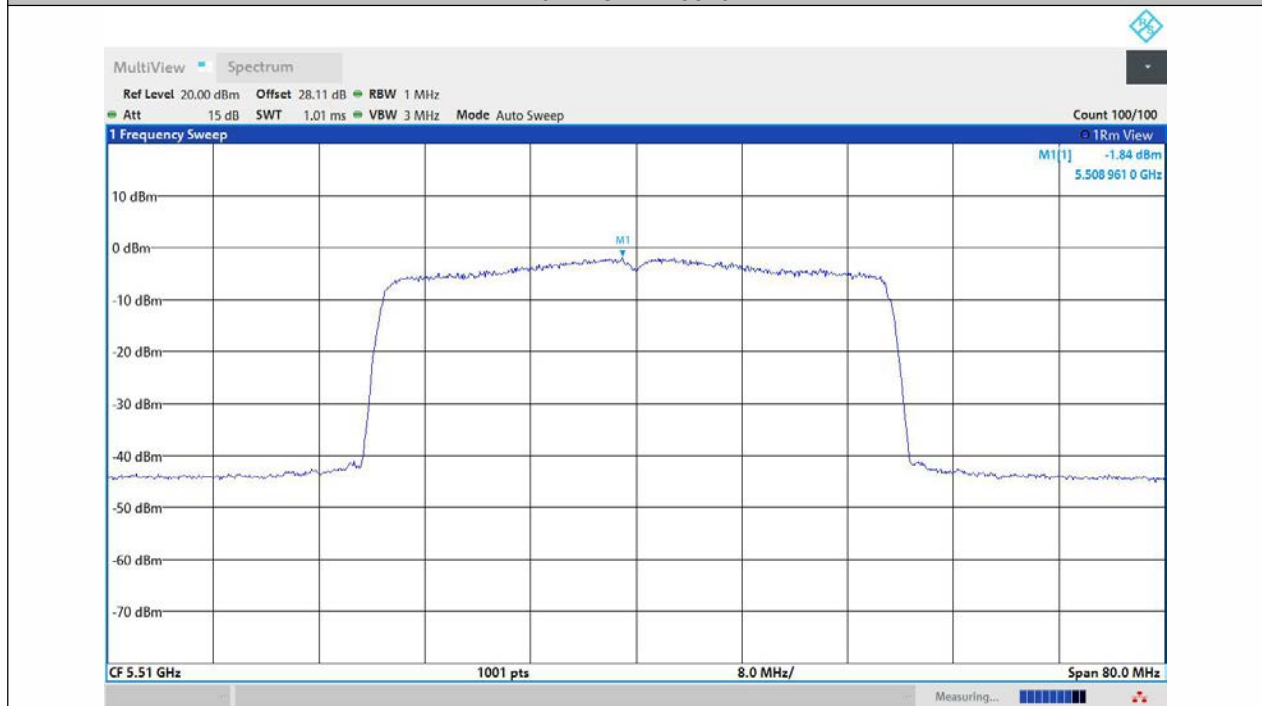
11AX40MIMO-Ant1-5310-PASS



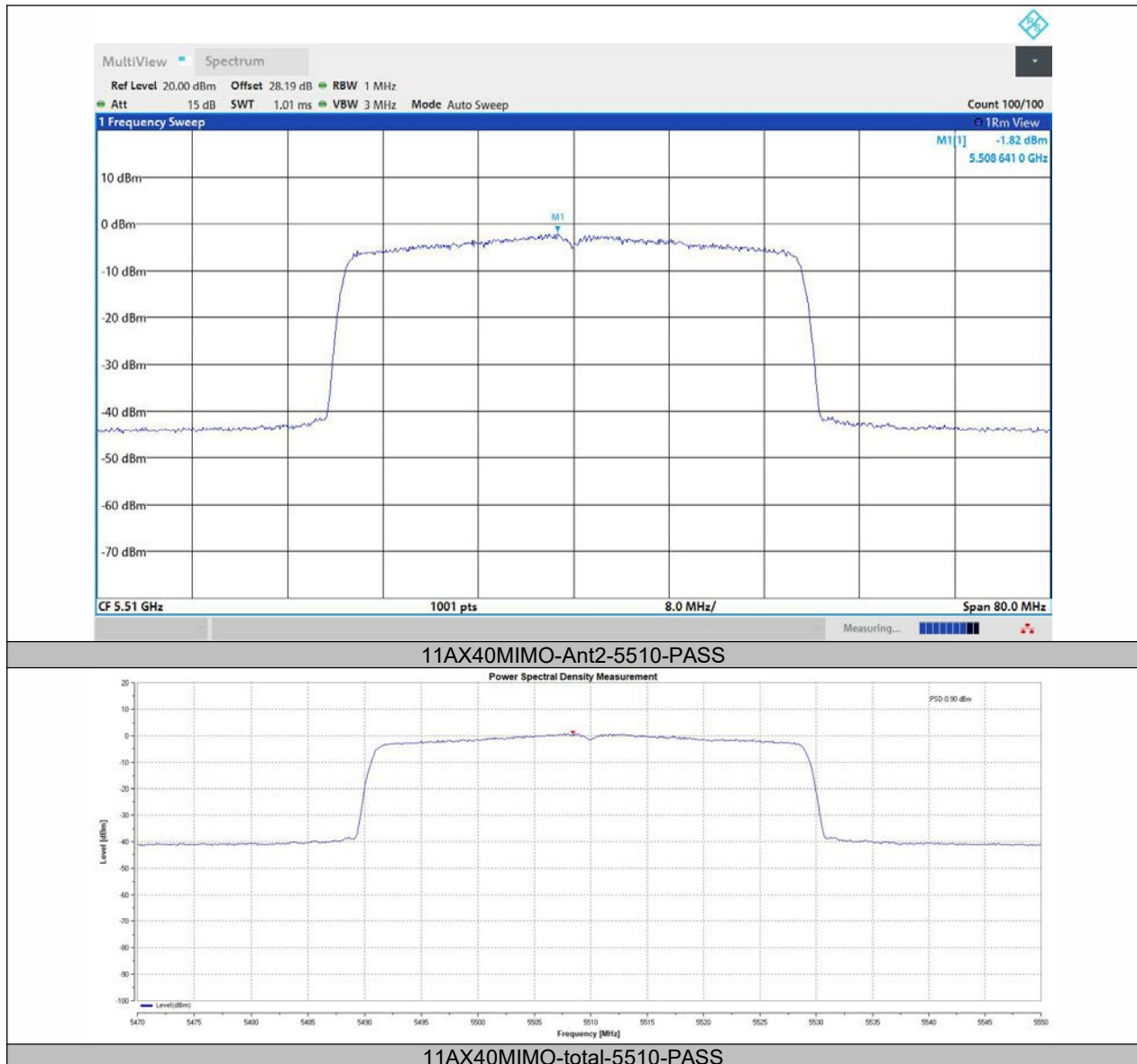
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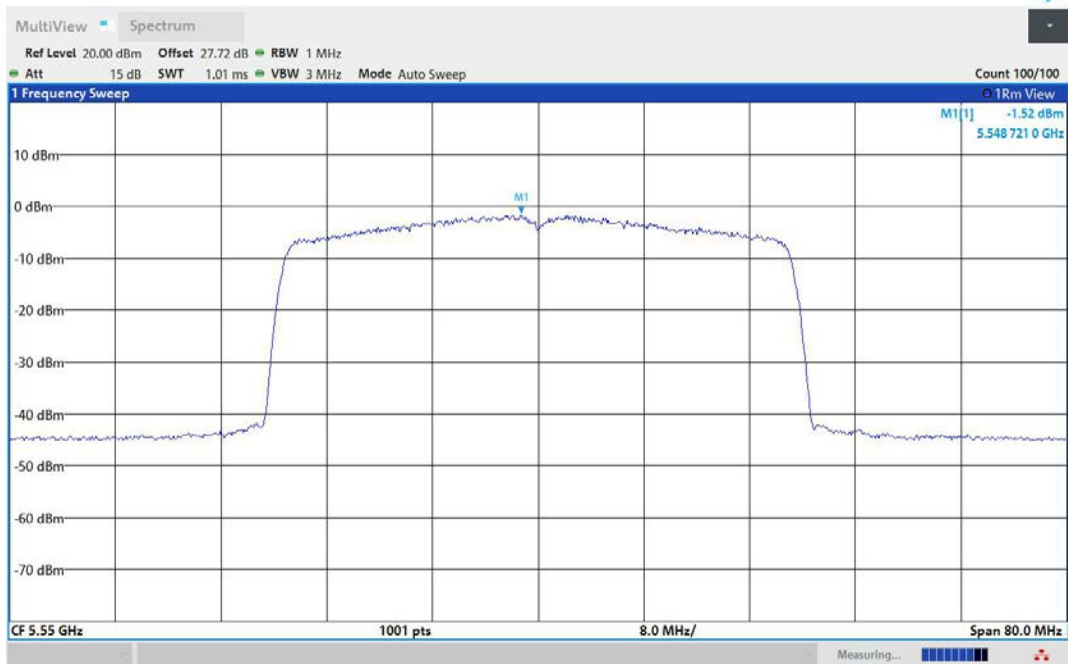


11AX40MIMO-total-5310-PASS

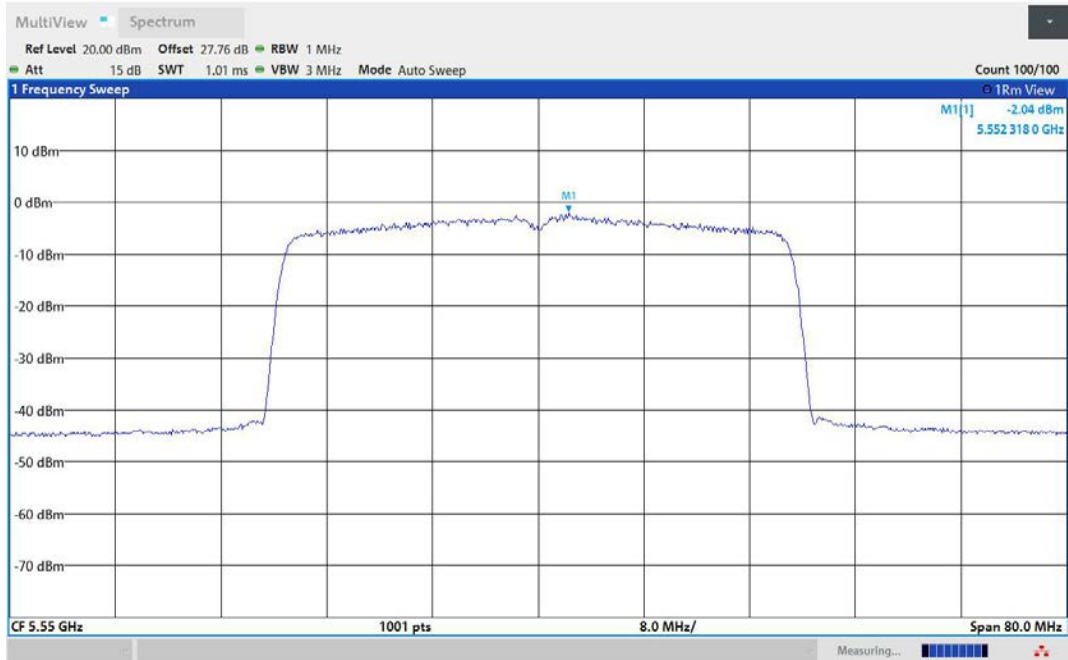


11AX40MIMO-Ant1-5510-PASS

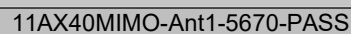
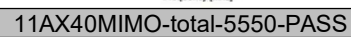


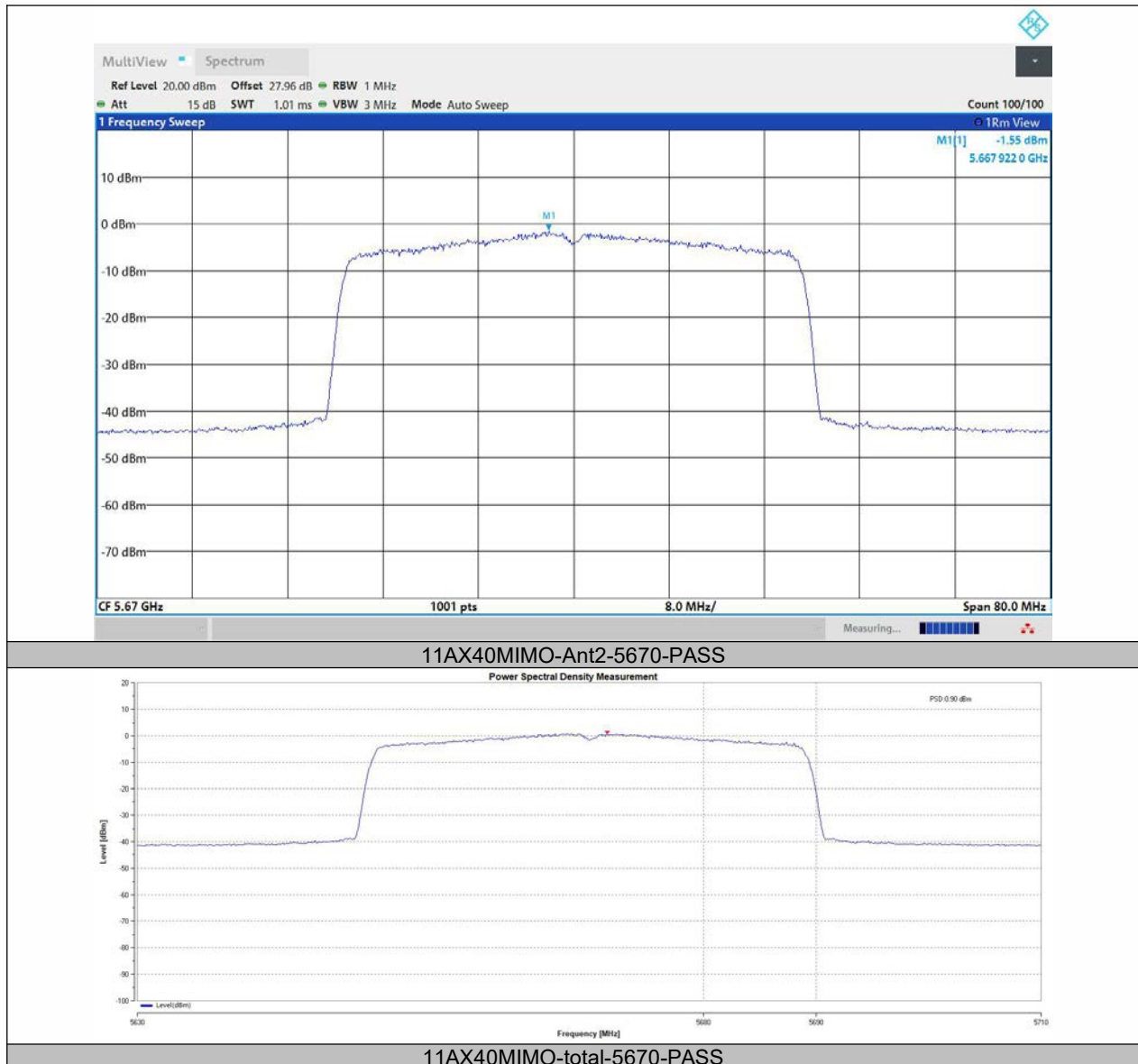


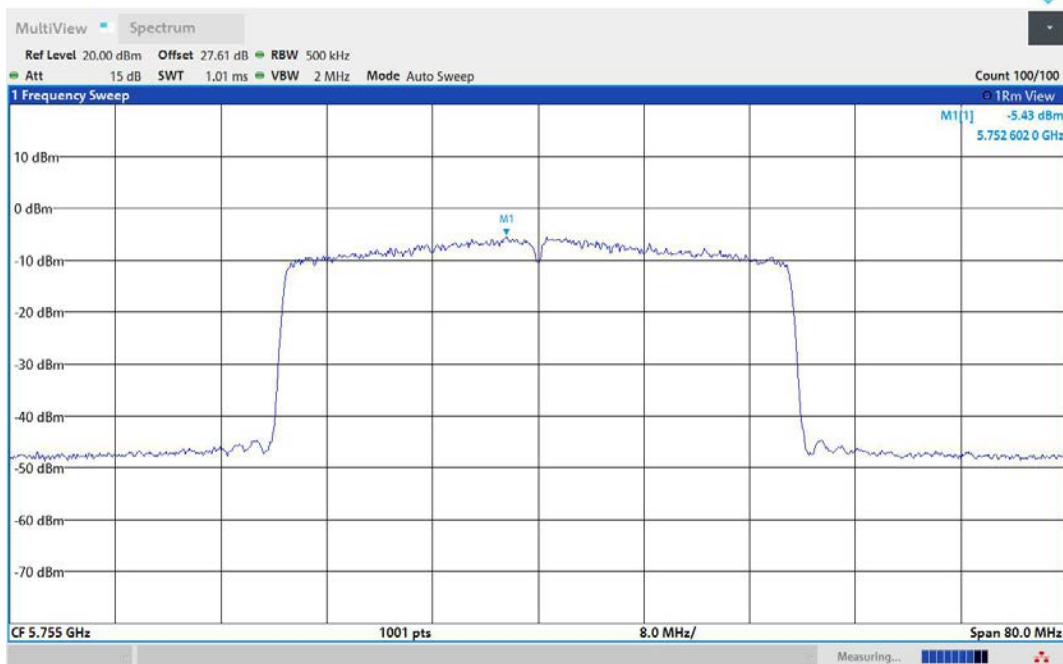
11AX40MIMO-Ant1-5550-PASS



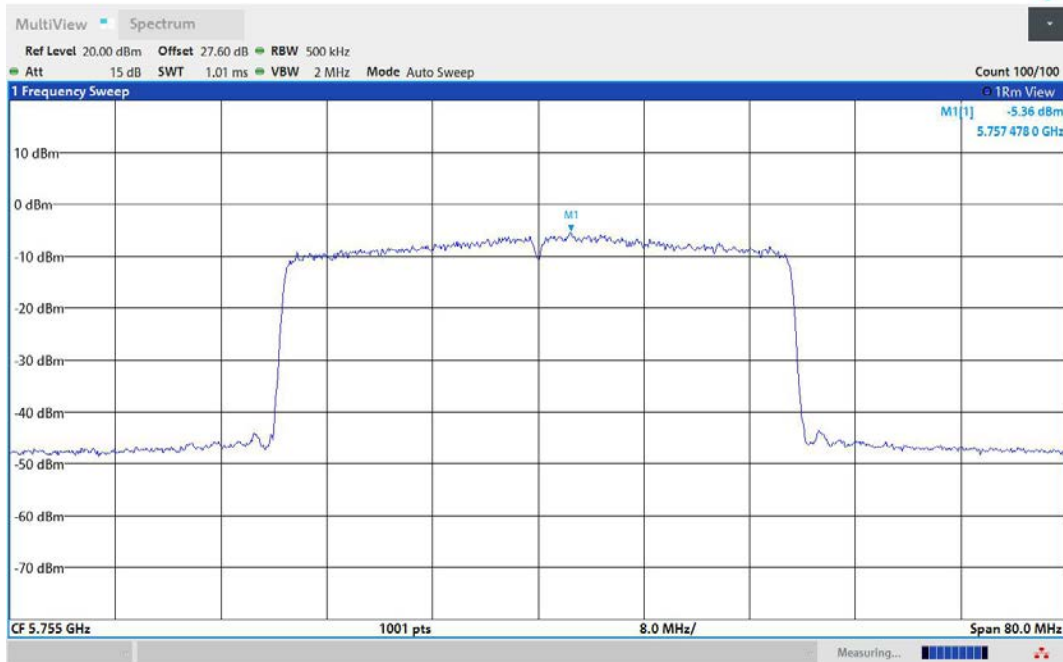
11AX40MIMO-Ant2-5550-PASS



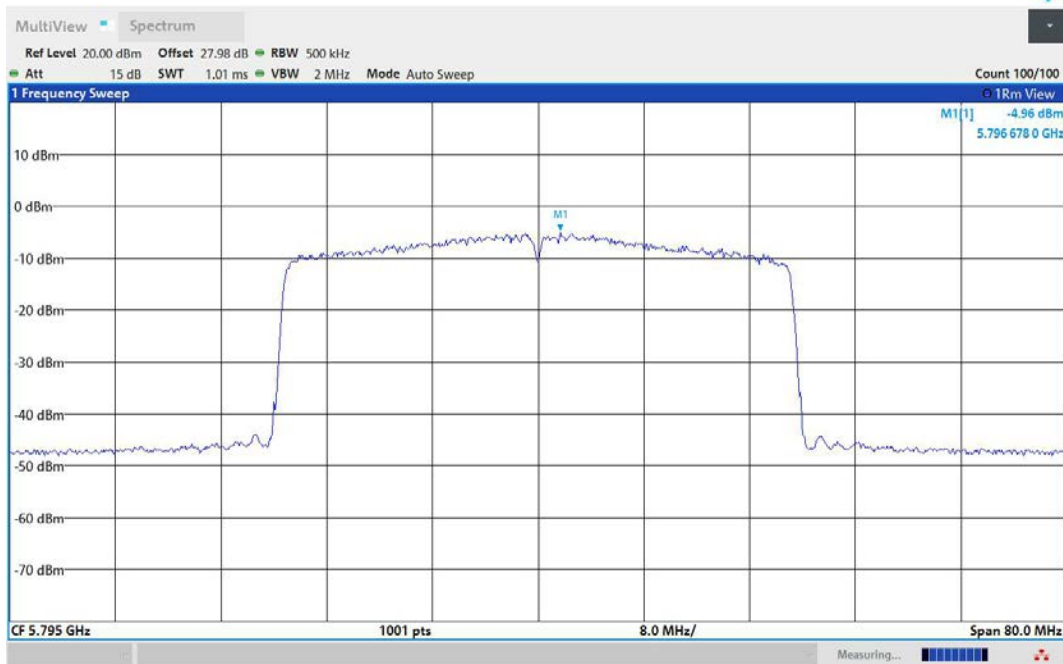




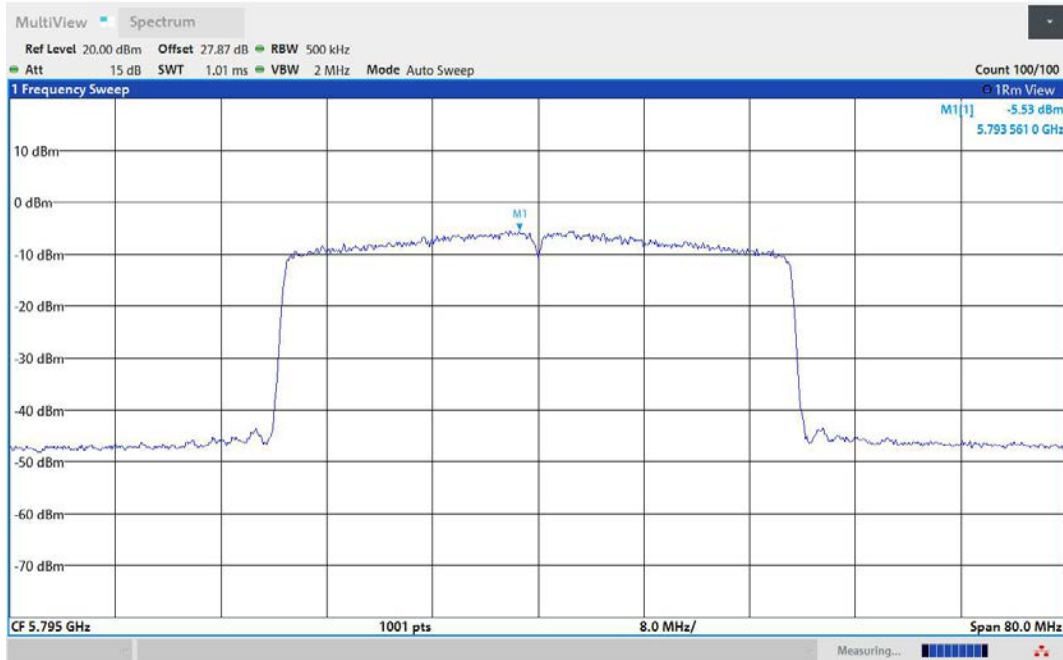
11AX40MIMO-Ant1-5755-PASS



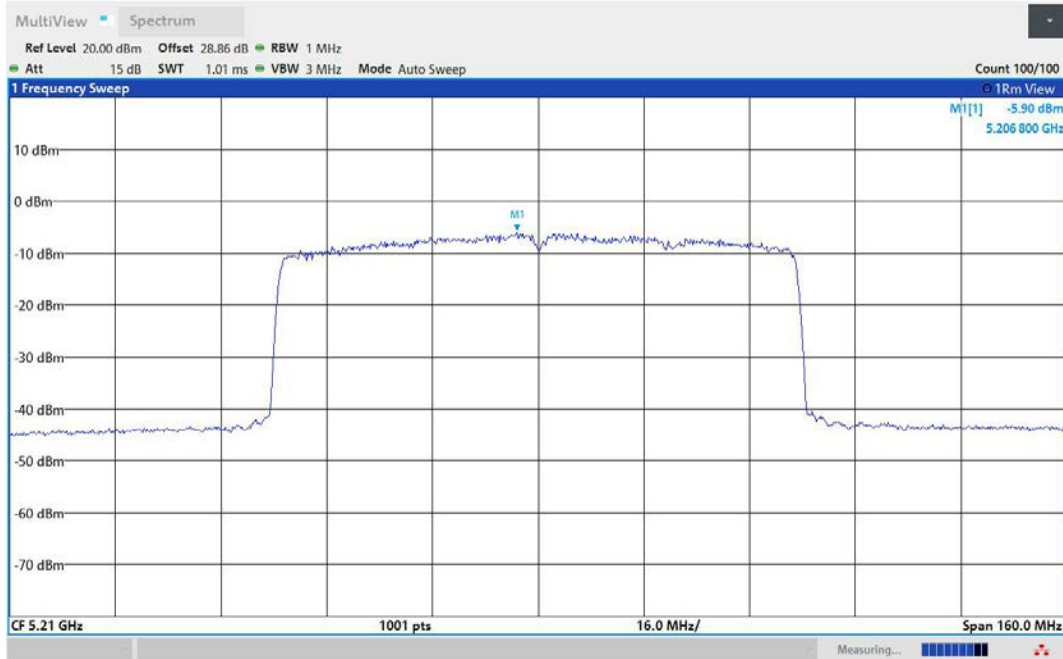
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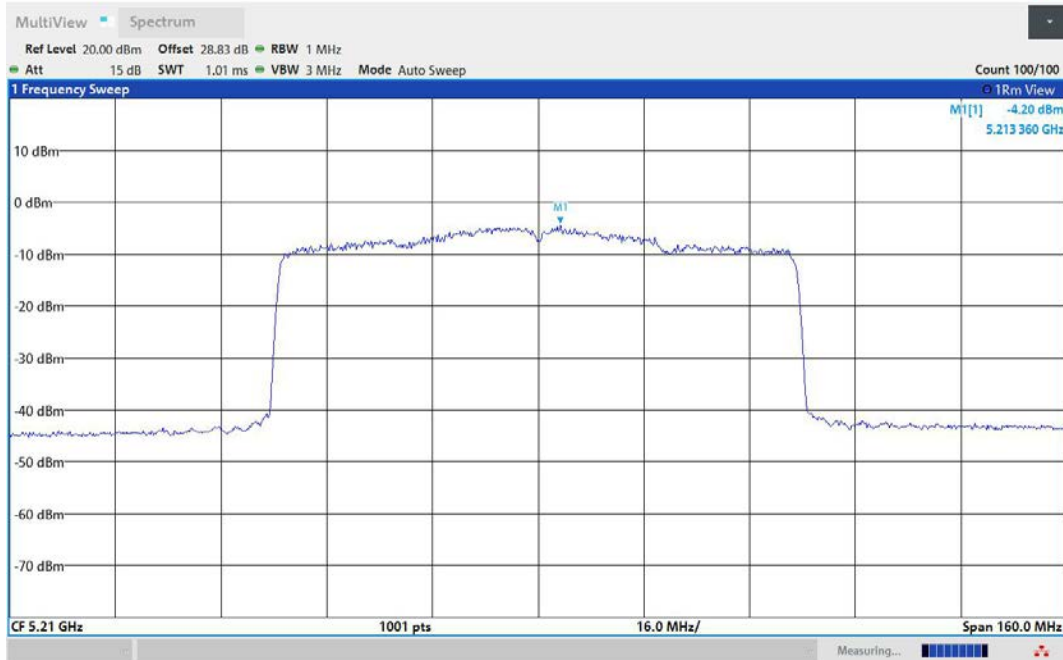
11AX40MIMO-Ant1-5795-PASS



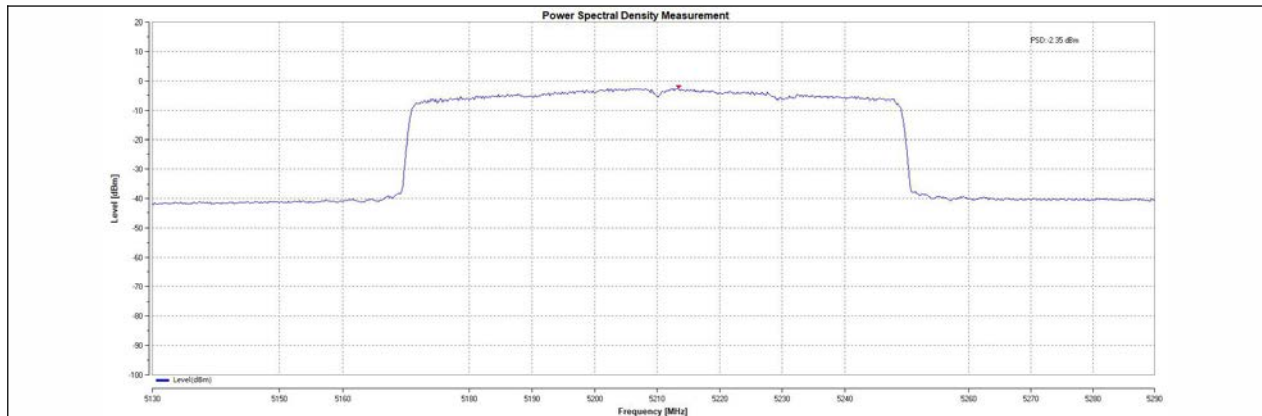
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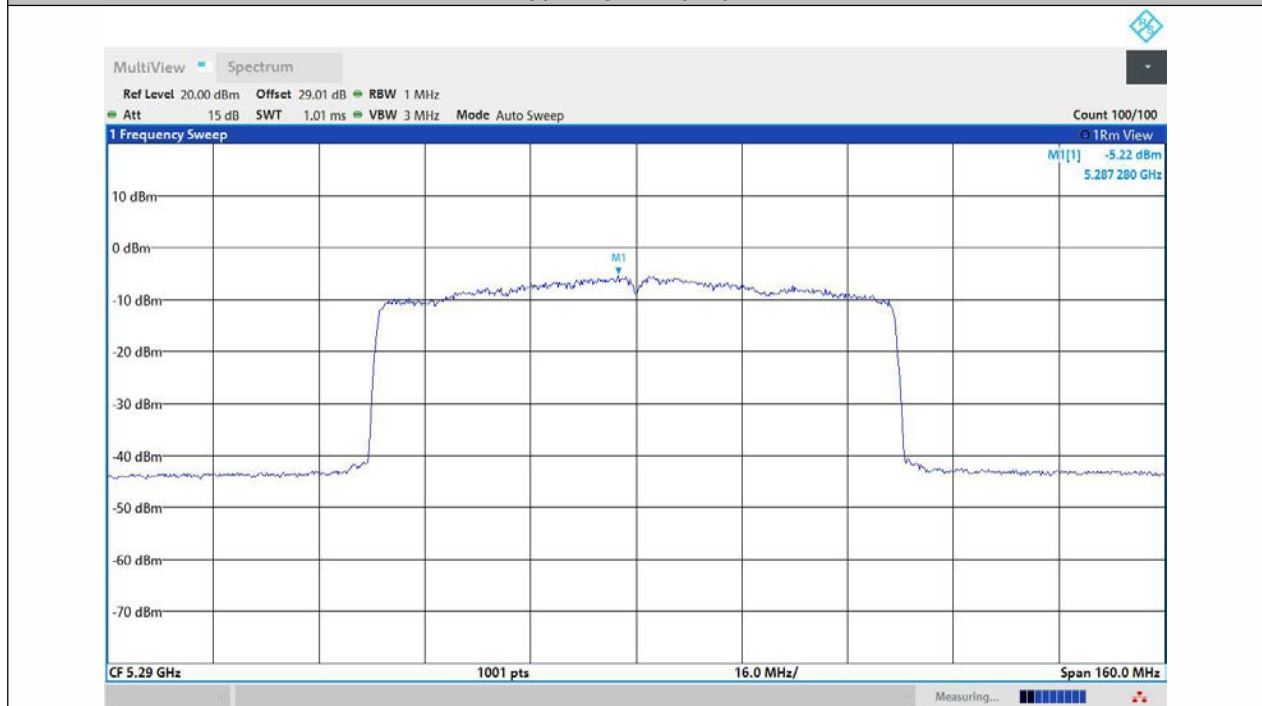
11AX80MIMO-Ant1-5210-PASS



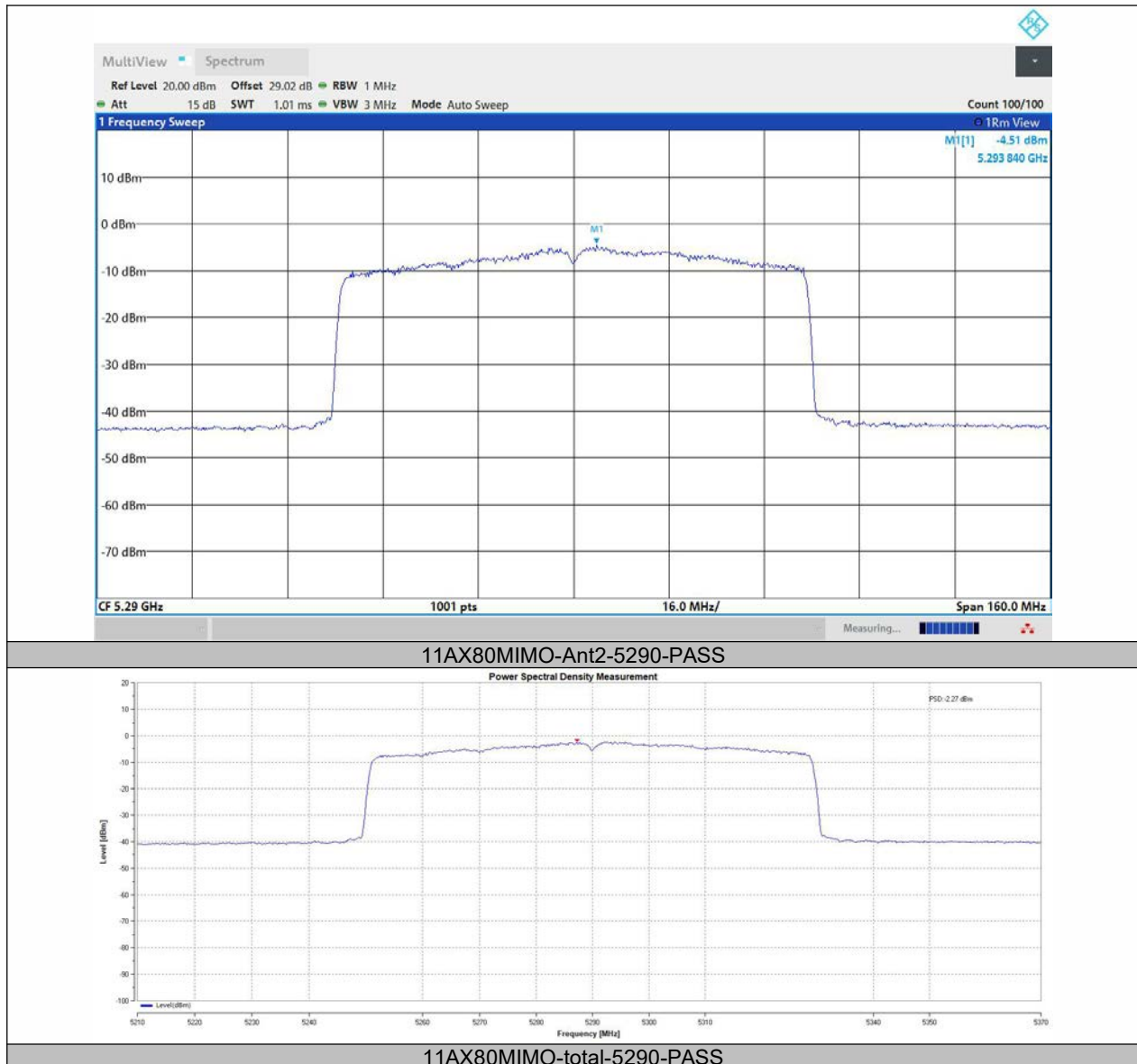
11AX80MIMO-Ant2-5210-PASS

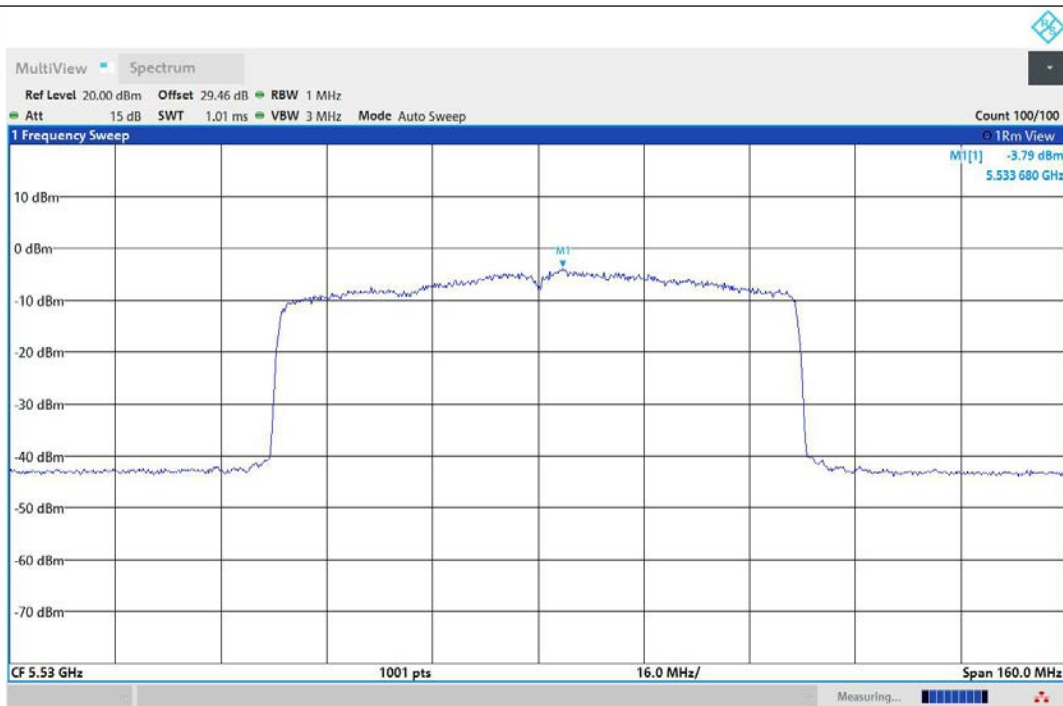


11AX80MIMO-total-5210-PASS

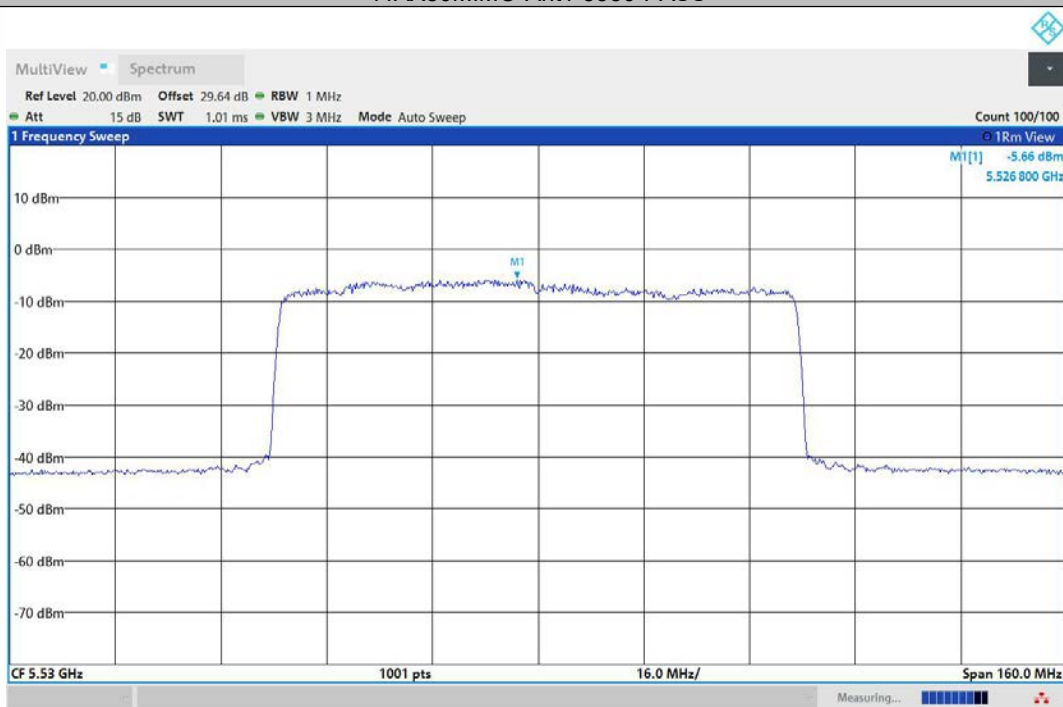


11AX80MIMO-Ant1-5290-PASS

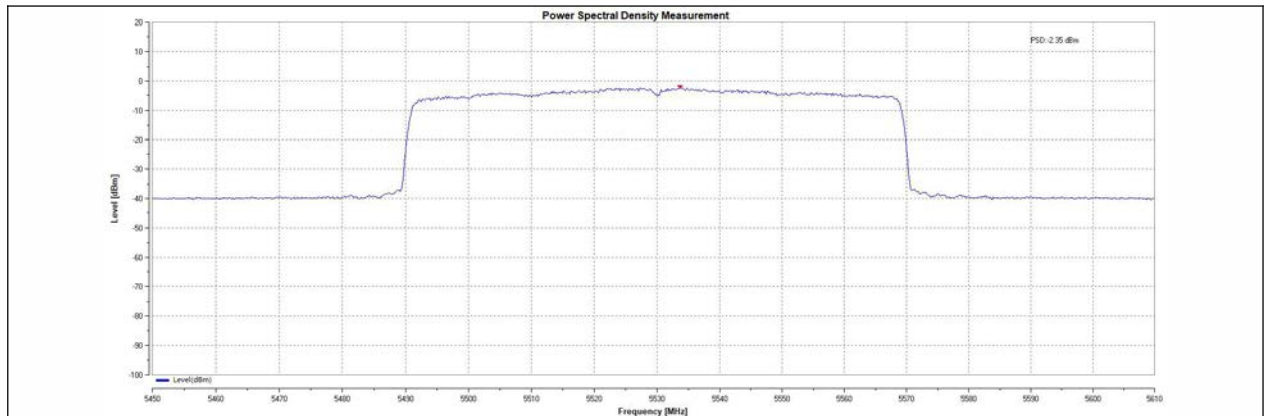




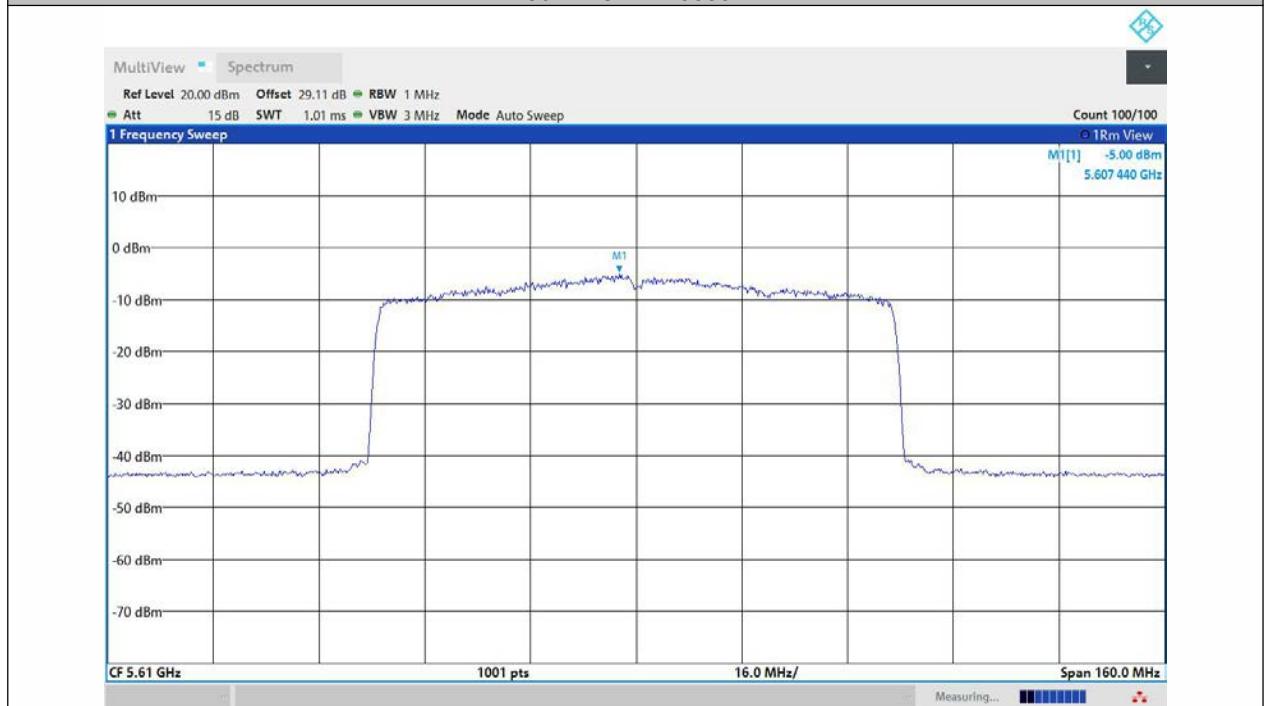
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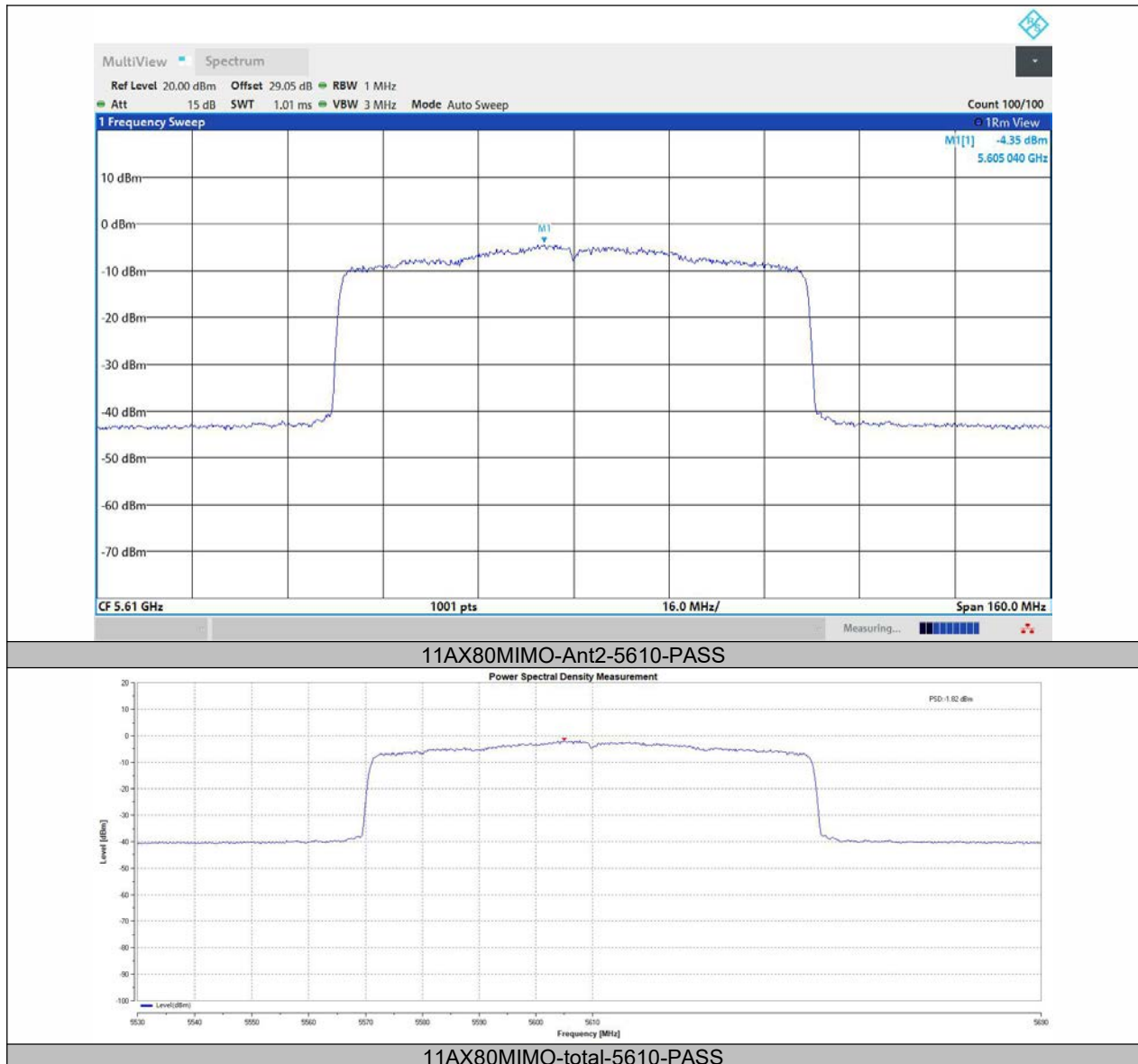
11AX80MIMO-Ant2-5530-PASS

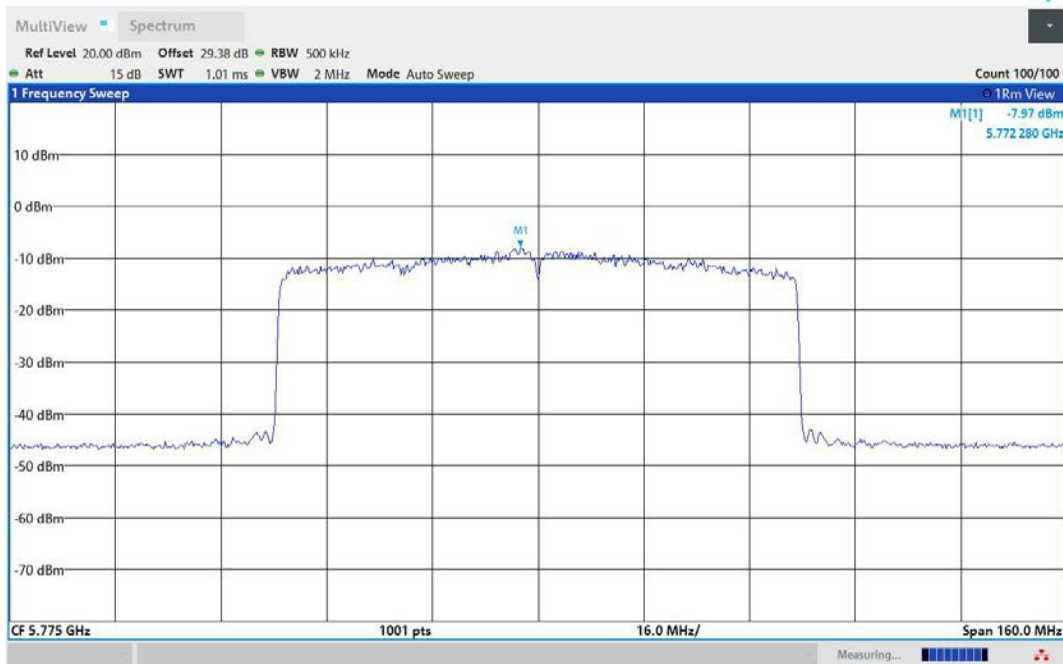


11AX80MIMO-total-5530-PASS

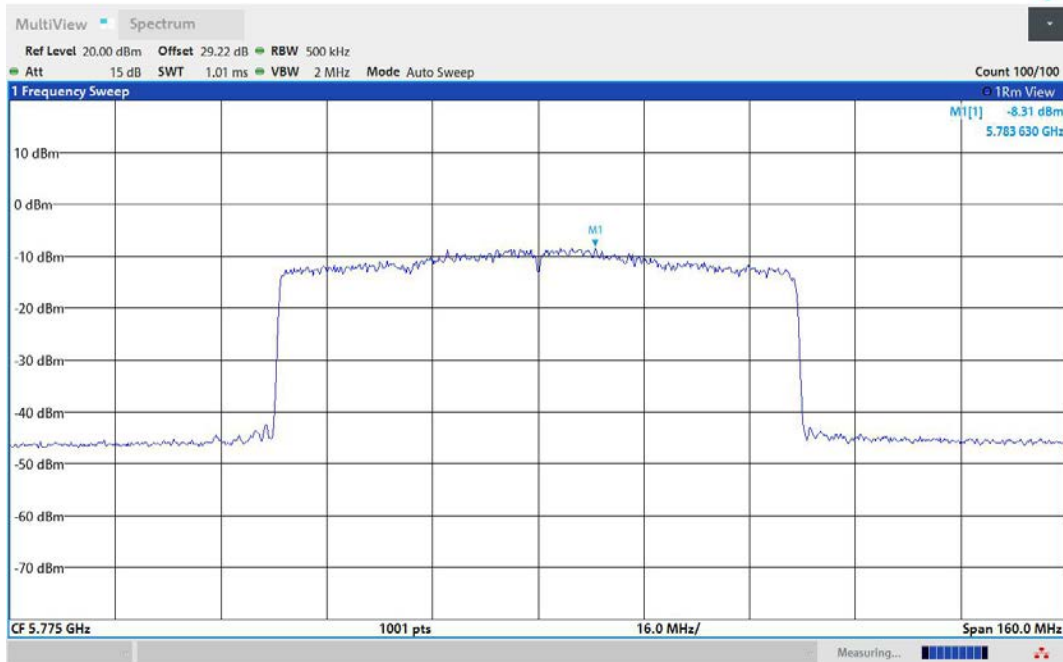


11AX80MIMO-Ant1-5610-PASS





11AX80MIMO-Ant1-5775-PASS



11AX80MIMO-Ant2-5775-PASS

8.4 UNDESIRABLE RADIATED SPURIOUS EMISSION

8.4.1 Applicable Standard

According to FCC Part 15.407 (b)
According to 789033 D02 Section II(G)

8.4.2 Conformance Limit

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

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

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

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

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

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Restricted Frequency(MHz)	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log ($\mu\text{V/m}$)	300
0.490-1.705	2400/F(KHz)	20 log ($\mu\text{V/m}$)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

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

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

8.4.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2.

8.4.4 Test Procedure

■ Unwanted Emissions Measurements below 1000 MHz

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

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

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

Repeat above procedures until all frequency measured was complete.

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

Use the following spectrum analyzer settings:

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

Set the VBW > RBW.

Detector = Peak.

Trace mode = max hold.

Follow the guidelines in ANSI C63.10-2020/Cor 1-2021 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Repeat above procedures until all frequency measured was complete.

■ Unwanted Maximum peak Emissions Measurements above 1000 MHz

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

RBW = 1 MHz.

VBW $\geq$ 3 MHz.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

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

■ Unwanted Average Emissions Measurements above 1000 MHz

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

RBW = 1 MHz.

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

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

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

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

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

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

■ Band edge measurements.

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

Marker-Delta Method.

The marker-delta method, as described in ANSI C63.10-2020/Cor 1-2021, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied bandwidth of the fundamental is within 2 MHz of the authorized band-edge.

8.4.5 Test Results

Temperature : 24.1°C
Humidity : 50 %

ATM Pressure:: 1011 mbar
Test Engineer: LHJ

- ☒ For Undesirable radiated Spurious Emission in U-NII – 1
 - ☒ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)
- All of the configurations or modes are tested, the data of the worst case is recorded in the report.
Highest gain of each antenna and highest output power is ANT2 and MIMO as below:

ANT2:

Test mode: 802.11n(20) Frequency(MHz): 5180

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4642.21	V	50.68	-44.55	-27	17.55
8425.43	V	58.11	-37.12	-27	10.12
16649.9	V	67.28	-27.95	-27	0.95
4667.21	H	51.66	-43.57	-27	16.57
8308.42	H	57.92	-37.31	-27	10.31
17722.9	H	67.01	-28.22	-27	1.22

Test mode: 802.11n(20) Frequency(MHz): 5200

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4680.21	V	52.84	-42.39	-27	15.39
8334.43	V	58.32	-36.91	-27	9.91
17717.9	V	67.02	-28.21	-27	1.21
4671.21	H	51.75	-43.48	-27	16.48
8303.42	H	58.45	-36.78	-27	9.78
16387.9	H	67.60	-27.63	-27	0.63

Test mode: 802.11n(20) Frequency(MHz): 5240

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4707.21	V	50.82	-44.41	-27	17.41
8445.43	V	58.40	-36.83	-27	9.83
17496.9	V	67.00	-28.23	-27	1.23
4662.21	H	51.36	-43.87	-27	16.87
8318.43	H	58.64	-36.59	-27	9.59
17573.9	H	66.97	-28.26	-27	1.26

MIMO:

Test mode: 802.11n(20) Frequency(MHz): 5180

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4640.8200	V	50.55	-44.68	-27	17.68
8424.0400	V	57.95	-37.28	-27	10.28
16651.1800	V	67.25	-27.98	-27	0.98
4678.9000	H	51.58	-43.65	-27	16.65
8320.1100	H	57.71	-37.52	-27	10.52
17734.5900	H	66.85	-28.38	-27	1.38

Test mode: 802.11n(20) Frequency(MHz): 5200

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4678.8200	V	52.71	-42.52	-27	15.52
8333.0400	V	58.16	-37.07	-27	10.07
17719.1800	V	66.99	-28.24	-27	1.24
4682.9000	H	51.67	-43.56	-27	16.56
8315.1100	H	58.24	-36.99	-27	9.99
16399.5900	H	67.44	-27.79	-27	0.79

Test mode: 802.11n(20) Frequency(MHz): 5240

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4705.8200	V	50.69	-44.54	-27	17.54
8444.0400	V	58.24	-36.99	-27	9.99
17498.1800	V	66.97	-28.26	-27	1.26
4673.9000	H	51.28	-43.95	-27	16.95
8330.1200	H	58.43	-36.80	-27	9.80
17585.5900	H	66.81	-28.42	-27	1.42

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

ANT2:

Test mode: 802.11n(20)		Frequency(MHz): 5180			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4642.21	V	50.68	74.00	23.32	Peak
8425.43	V	58.11	74.00	15.89	Peak
16649.9	V	67.28	74.00	6.72	Peak
4642.21	V	33.97	54.00	20.03	Avg
8425.43	V	37.97	54.00	16.03	Avg
16649.9	V	46.42	54.00	7.58	Avg
4667.21	H	51.66	74.00	22.34	Peak
8308.42	H	57.92	74.00	16.08	Peak
17722.9	H	67.01	74.00	6.99	Peak
4667.21	H	34.10	54.00	19.90	Avg
8308.42	H	38.10	54.00	15.90	Avg
17722.9	H	48.35	54.00	5.65	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5200			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4680.21	V	52.84	74.00	21.16	Peak
8334.43	V	58.32	74.00	15.68	Peak
17717.9	V	67.02	74.00	6.98	Peak
4680.21	V	34.70	54.00	19.30	Avg
8334.43	V	38.42	54.00	15.58	Avg
17717.9	V	48.76	54.00	5.24	Avg
4671.21	H	51.75	74.00	22.25	Peak
8303.42	H	58.45	74.00	15.55	Peak
16387.9	H	67.60	74.00	6.40	Peak
4671.21	H	34.89	54.00	19.11	Avg
8303.42	H	38.21	54.00	15.79	Avg
16387.9	H	47.50	54.00	6.50	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5240			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4707.21	V	50.82	74.00	23.18	Peak
8445.43	V	58.40	74.00	15.60	Peak
17496.9	V	67.00	74.00	7.00	Peak
4707.21	V	34.21	54.00	19.79	Avg
8445.43	V	37.23	54.00	16.77	Avg
17496.9	V	49.94	54.00	4.06	Avg
4662.21	H	51.36	74.00	22.64	Peak
8318.43	H	58.64	74.00	15.36	Peak
17573.9	H	66.97	74.00	7.03	Peak
4662.21	H	34.07	54.00	19.93	Avg
8318.43	H	37.79	54.00	16.21	Avg
17573.9	H	49.99	54.00	4.01	Avg

MIMO:

Test mode: 802.11n(20)		Frequency(MHz): 5180			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4640.8200	V	50.55	74.00	23.45	Peak
8424.0400	V	57.95	74.00	16.05	Peak
16651.1800	V	67.25	74.00	6.75	Peak
4643.4900	V	33.95	54.00	20.05	Avg
8423.1800	V	37.71	54.00	16.29	Avg
16647.6500	V	46.23	54.00	7.77	Avg
4678.9000	H	51.58	74.00	22.42	Peak
8320.1100	H	57.71	74.00	16.29	Peak
17734.5900	H	66.85	74.00	7.15	Peak
4678.9000	H	33.96	54.00	20.04	Avg
8305.1100	H	37.92	54.00	16.08	Avg
17719.5900	H	48.22	54.00	5.78	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5200			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4678.8200	V	52.71	74.00	21.29	Peak
8333.0400	V	58.16	74.00	15.84	Peak
17719.1800	V	66.99	74.00	7.01	Peak
4681.4900	V	34.68	54.00	19.32	Avg
8332.1800	V	38.16	54.00	15.84	Avg
17715.6500	V	48.57	54.00	5.43	Avg
4682.9000	H	51.67	74.00	22.33	Peak
8315.1100	H	58.24	74.00	15.76	Peak
16399.5900	H	67.44	74.00	6.56	Peak
4682.9000	H	34.75	54.00	19.25	Avg
8300.1100	H	38.03	54.00	15.97	Avg
16384.5900	H	47.37	54.00	6.63	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5240			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4705.8200	V	50.69	74.00	23.31	Peak
8444.0400	V	58.24	74.00	15.76	Peak
17498.1800	V	66.97	74.00	7.03	Peak
4708.4900	V	34.19	54.00	19.81	Avg
8443.1800	V	36.97	54.00	17.03	Avg
17494.6500	V	49.75	54.00	4.25	Avg
4673.9000	H	51.28	74.00	22.72	Peak
8330.1200	H	58.43	74.00	15.57	Peak
17585.5900	H	66.81	74.00	7.19	Peak
4673.9000	H	33.93	54.00	20.07	Avg
8315.1200	H	37.61	54.00	16.39	Avg
17570.5900	H	49.86	54.00	4.14	Avg

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

● ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Test mode: 802.11AX(HT20) Frequency(MHz): 5180

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5104.58	V	56.17	-39.06	-27	Pass
5148.78	H	56.83	-38.4	-27	Pass

Test mode: 802.11AX(HT20) Frequency(MHz): 5240

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5358.71	V	55.71	-39.52	-27	Pass
5350.24	H	55.96	-39.27	-27	Pass

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

Test mode: 802.11AX(HT20) Frequency(MHz): 5180

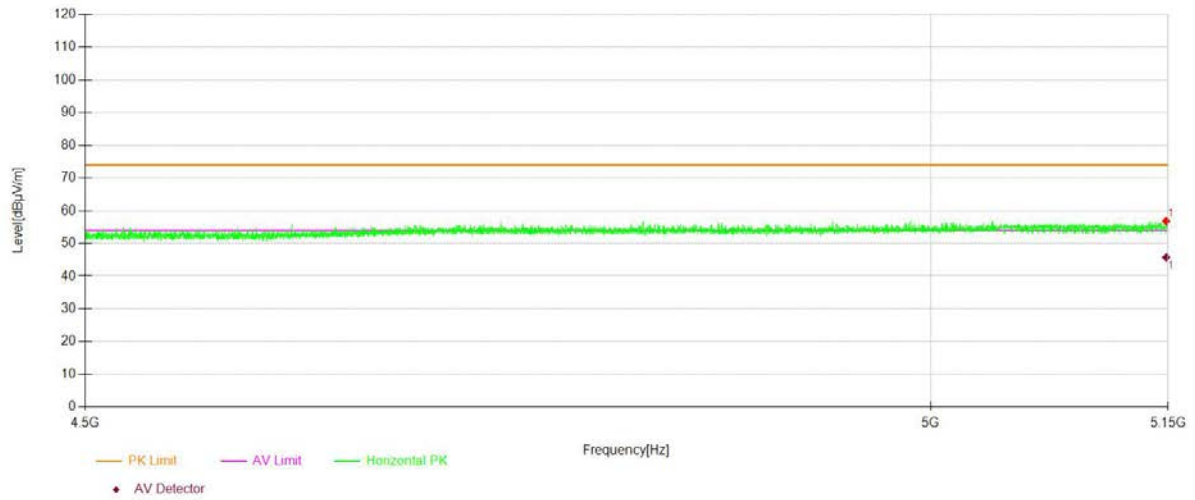
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
5104.58	V	56.17	74.00	17.83	Peak
5104.58	V	45.78	54.00	8.22	Avg
5148.78	H	56.83	74.00	17.17	Peak
5148.78	H	45.73	54.00	8.27	Avg

Test mode: 802.11AX(HT20) Frequency(MHz): 5240

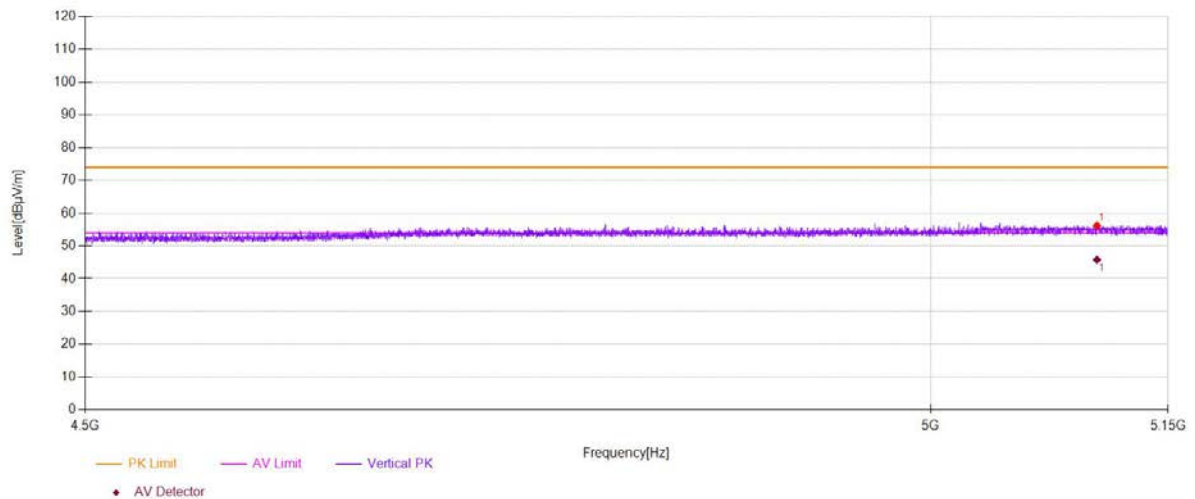
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
5358.71	V	55.71	74.00	18.29	Peak
5358.71	V	45.90	54.00	8.10	Avg
5350.24	H	55.96	74.00	18.04	Peak
5350.24	H	45.73	54.00	8.27	Avg

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

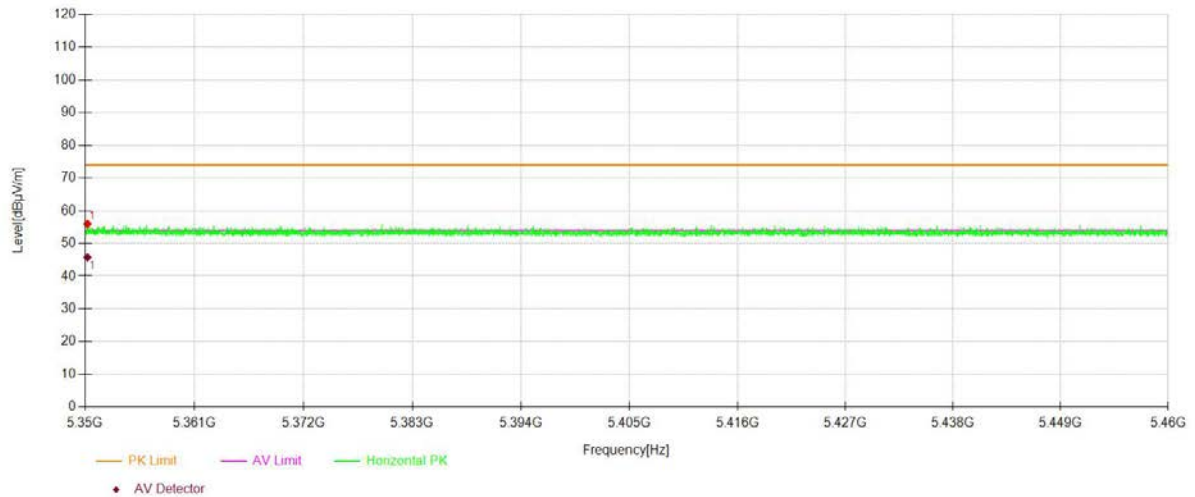
Test Model U-NII - 1
Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11n(HT40)
☒ 5180 ☐ 5200 ☐ 5240 Ant.Pol H



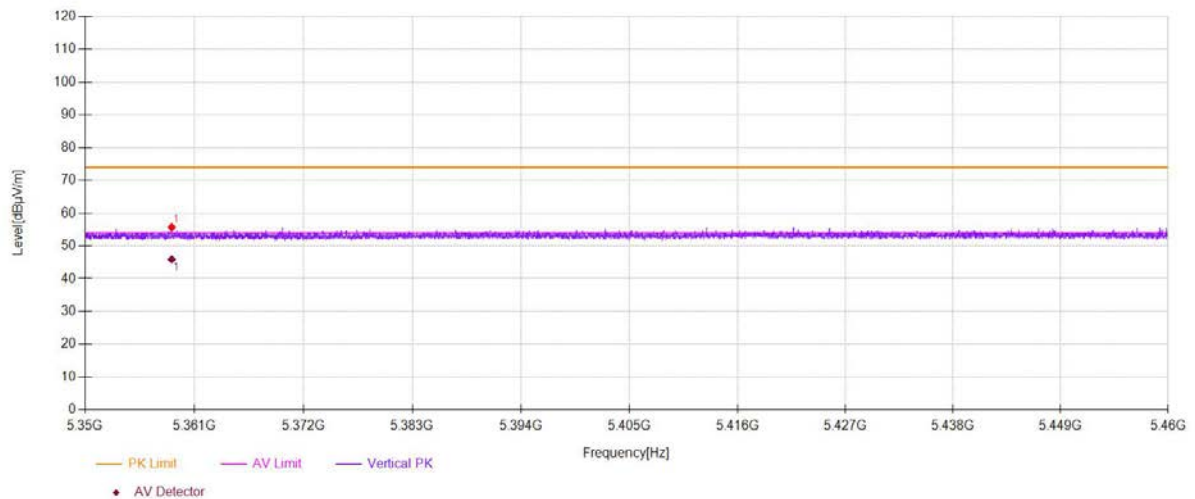
Test Model U-NII - 1
Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11n(HT40)
☒ 5180 ☐ 5200 ☐ 5240 Ant.Pol V



Test Model U-NII - 1
Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11n(HT40)
☐ 5180 ☐ 5200 ☒ 5240 Ant.Pol H



Test Model U-NII - 1
Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)
☐ 802.11a ☒ 802.11n(HT20) ☐ 802.11n(HT40)
☐ 5180 ☐ 5200 ☒ 5240 Ant.Pol V



- ☒ For Undesirable radiated Spurious Emission in U-NII -2A
 - ☒ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)
- All of the configurations or modes are tested, the data of the worst case is recorded in the report.
Highest gain of each antenna and highest output power is ANT2 and MIMO as below:

ANT2:

Test mode: 802.11AX(HT20) Frequency(MHz): 5260

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4695.21	V	51.05	-44.18	-27	17.18
8306.42	V	58.80	-36.43	-27	9.43
17570.9	V	67.04	-28.19	-27	1.19
4746.22	H	50.87	-44.36	-27	17.36
8441.43	H	58.30	-36.93	-27	9.93
16880.9	H	67.10	-28.13	-27	1.13

Test mode: 802.11AX(HT20) Frequency(MHz): 5280

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4659.21	V	51.49	-43.74	-27	16.74
8331.43	V	58.28	-36.95	-27	9.95
16937.9	V	66.99	-28.24	-27	1.24
4640.21	H	50.68	-44.55	-27	17.55
8359.43	H	57.87	-37.36	-27	10.36
17442.9	H	67.05	-28.18	-27	1.18

Test mode: 802.11AX(HT20) Frequency(MHz): 5320

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4695.21	V	51.17	-44.06	-27	17.06
8329.43	V	58.43	-36.8	-27	9.8
17238.9	V	67.06	-28.17	-27	1.17
4662.21	H	50.51	-44.72	-27	17.72
8320.43	H	58.43	-36.8	-27	9.8
17524.9	H	67.06	-28.17	-27	1.17

MIMO:

Test mode: 802.11AX(HT20) Frequency(MHz): 5260

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4693.8200	V	50.92	-44.31	-27	17.31
8305.0300	V	58.64	-36.59	-27	9.59
17572.1800	V	67.01	-28.22	-27	1.22
4757.9100	H	50.79	-44.44	-27	17.44
8453.1200	H	58.09	-37.14	-27	10.14
16892.5900	H	66.94	-28.29	-27	1.29

Test mode: 802.11AX(HT20) Frequency(MHz): 5280

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4657.8200	V	51.36	-43.87	-27	16.87
8330.0400	V	58.12	-37.11	-27	10.11
16939.1800	V	66.96	-28.27	-27	1.27
4651.9000	H	50.6	-44.63	-27	17.63
8371.1200	H	57.66	-37.57	-27	10.57
17454.5900	H	66.89	-28.34	-27	1.34

Test mode: 802.11AX(HT20) Frequency(MHz): 5320

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4693.8200	V	51.04	-44.19	-27	17.19
8328.0400	V	58.27	-36.96	-27	9.96
17240.1800	V	67.03	-28.20	-27	1.20
4673.9000	H	50.43	-44.80	-27	17.80
8332.1200	H	58.22	-37.01	-27	10.01
17536.5900	H	66.9	-28.33	-27	1.33

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

ANT2:

Test mode: 802.11n(20)		Frequency(MHz): 5260			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4695.21	V	51.05	74.00	22.95	Peak
8306.42	V	58.80	74.00	15.20	Peak
17570.9	V	67.04	74.00	6.96	Peak
4695.21	V	34.40	54.00	19.60	Avg
8306.42	V	37.52	54.00	16.48	Avg
17570.9	V	50.19	54.00	3.81	Avg
4746.22	H	50.87	74.00	23.13	Peak
8441.43	H	58.30	74.00	15.70	Peak
16880.9	H	67.10	74.00	6.90	Peak
4746.22	H	34.30	54.00	19.70	Avg
8441.43	H	37.52	54.00	16.48	Avg
16880.9	H	48.30	54.00	5.70	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5280			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4659.21	V	51.49	74.00	22.51	Peak
8331.43	V	58.28	74.00	15.72	Peak
16937.9	V	66.99	74.00	7.01	Peak
4659.21	V	34.83	54.00	19.17	Avg
8331.43	V	37.92	54.00	16.08	Avg
16937.9	V	48.64	54.00	5.36	Avg
4640.21	H	50.68	74.00	23.32	Peak
8359.43	H	57.87	74.00	16.13	Peak
17442.9	H	67.05	74.00	6.95	Peak
4640.21	H	33.79	54.00	20.21	Avg
8359.43	H	38.22	54.00	15.78	Avg
17442.9	H	48.92	54.00	5.08	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5320			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4695.21	V	51.17	74.00	22.83	Peak
8329.43	V	58.43	74.00	15.57	Peak
17238.9	V	67.06	74.00	6.94	Peak
4695.21	V	34.29	54.00	19.71	Avg
8329.43	V	38.25	54.00	15.75	Avg
17238.9	V	48.71	54.00	5.29	Avg
4662.21	H	50.51	74.00	23.49	Peak
8320.43	H	58.43	74.00	15.57	Peak
17524.9	H	67.06	74.00	6.94	Peak
4662.21	H	34.51	54.00	19.49	Avg
8320.43	H	37.72	54.00	16.28	Avg
17524.9	H	49.90	54.00	4.10	Avg

MIMO:

Test mode: 802.11n(20)		Frequency(MHz): 5260			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4693.8200	V	50.92	74.00	23.08	Peak
8305.0300	V	58.64	74.00	15.36	Peak
17572.1800	V	67.01	74.00	6.99	Peak
4696.4900	V	34.38	54.00	19.62	Avg
8304.1700	V	37.26	54.00	16.74	Avg
17568.6500	V	50.00	54.00	4.00	Avg
4757.9100	H	50.79	74.00	23.21	Peak
8453.1200	H	58.09	74.00	15.91	Peak
16892.5900	H	66.94	74.00	7.06	Peak
4757.9100	H	34.16	54.00	19.84	Avg
8438.1200	H	37.34	54.00	16.66	Avg
16877.5900	H	48.17	54.00	5.83	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5280			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4657.8200	V	51.36	74.00	22.64	Peak
8330.0400	V	58.12	74.00	15.88	Peak
16939.1800	V	66.96	74.00	7.04	Peak
4660.4900	V	34.81	54.00	19.19	Avg
8329.1800	V	37.66	54.00	16.34	Avg
16935.6500	V	48.45	54.00	5.55	Avg
4651.9000	H	50.60	74.00	23.40	Peak
8371.1200	H	57.66	74.00	16.34	Peak
17454.5900	H	66.89	74.00	7.11	Peak
4651.9000	H	33.65	54.00	20.35	Avg
8356.1200	H	38.04	54.00	15.96	Avg
17439.5900	H	48.79	54.00	5.21	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5320			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4693.8200	V	51.04	74.00	22.96	Peak
8328.0400	V	58.27	74.00	15.73	Peak
17240.1800	V	67.03	74.00	6.97	Peak
4696.4900	V	34.27	54.00	19.73	Avg
8327.1800	V	37.99	54.00	16.01	Avg
17236.6500	V	48.52	54.00	5.48	Avg
4673.9000	H	50.43	74.00	23.57	Peak
8332.1200	H	58.22	74.00	15.78	Peak
17536.5900	H	66.90	74.00	7.10	Peak
4673.9000	H	34.37	54.00	19.63	Avg
8317.1200	H	37.54	54.00	16.46	Avg
17521.5900	H	49.77	54.00	4.23	Avg

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
(2) Emission Level= Reading Level+Correct Factor +Cable Loss.
(3) Correct Factor= Ant_F + Cab_L - Preamp
(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

● ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Test mode: 802.11AX(HT20) Frequency(MHz): 5260

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5111.81	V	55.89	-39.34	-27	Pass
5086.46	H	55.65	-39.58	-27	Pass

Test mode: 802.11AX(HT20) Frequency(MHz): 5320

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5360.49	V	54.74	-40.49	-27	Pass
5361.82	H	55.70	-39.53	-27	Pass

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

Test mode: 802.11AX(HT20) Frequency(MHz): 5260

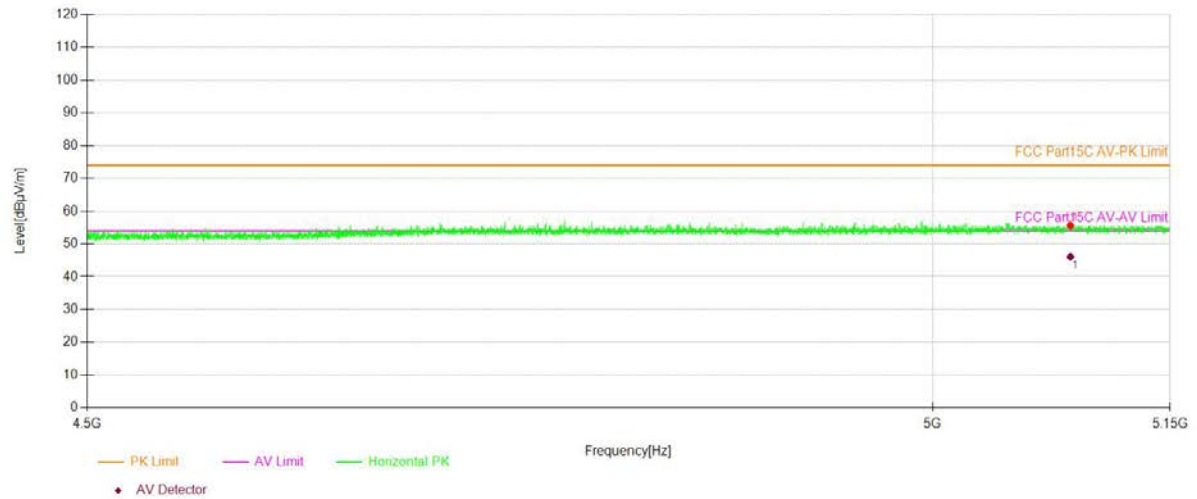
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
5111.81	V	55.89	74.00	18.11	Peak
5111.81	V	45.25	54.00	8.75	Avg
5086.46	H	55.65	74.00	18.35	Peak
5086.46	H	46.11	54.00	7.89	Avg

Test mode: 802.11AX(HT20) Frequency(MHz): 5320

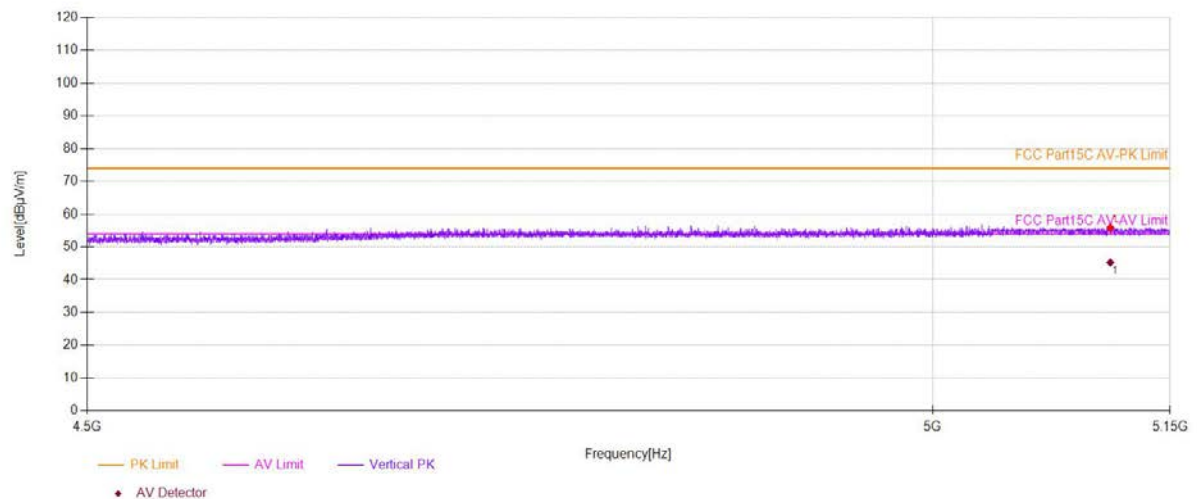
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
5360.49	V	54.74	74.00	19.26	Peak
5360.49	V	45.56	54.00	8.44	Avg
5361.82	H	55.70	74.00	18.30	Peak
5361.82	H	46.76	54.00	7.24	Avg

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

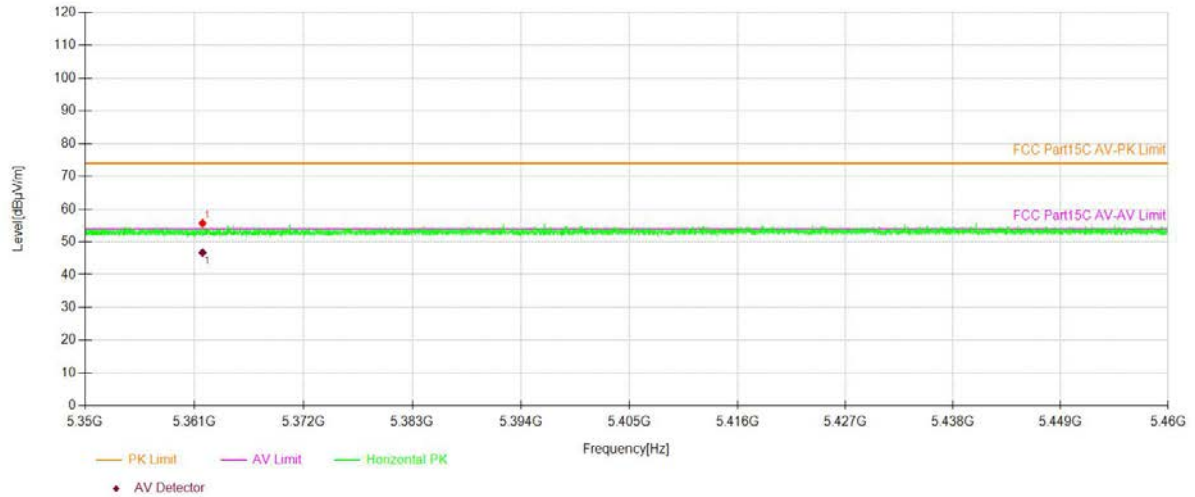
Test Model U-NII -2A
Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11 ac (VHT20)
☒ 5260 ☐ 5300 ☐ 5320 Ant.Pol H



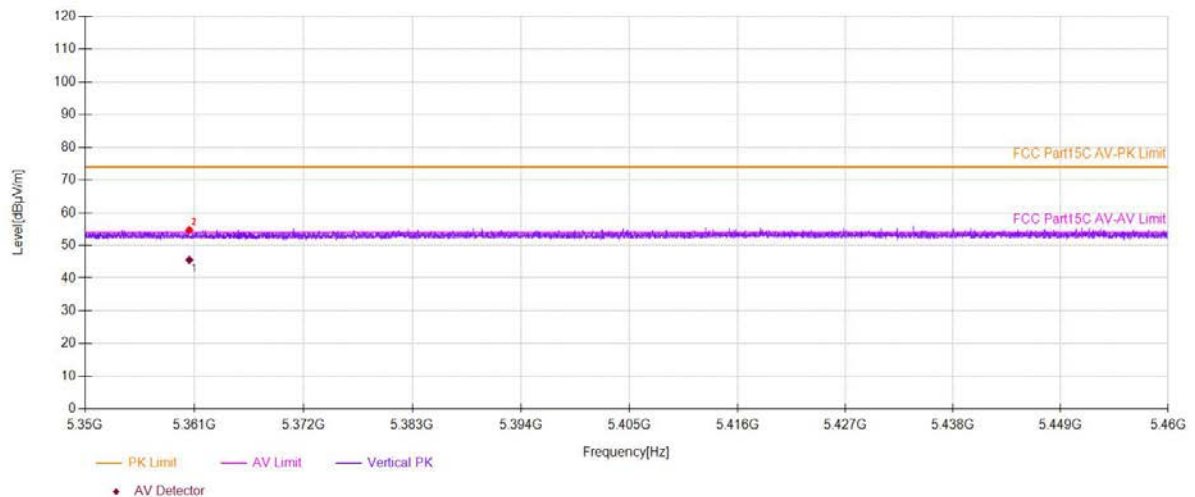
Test Model U-NII -2A
Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11 ac (VHT20)
☒ 5260 ☐ 5300 ☐ 5320 Ant.Pol V



Test Model U-NII -2A
Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11 ac (VHT20)
☐ 5260 ☐ 5300 ☒ 5320 Ant.Pol H



Test Model U-NII -2A
Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11 ac (VHT20)
☐ 5260 ☐ 5300 ☒ 5320 Ant.Pol V



- ☒ For Undesirable radiated Spurious Emission in U-NII -2C
 - ☒ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)
- All of the configurations or modes are tested, the data of the worst case is recorded in the report.
Highest gain of each antenna and highest output power is ANT2 and MIMO as below:

ANT2:

Test mode: 802.11n(20) Frequency(MHz): 5500

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4752.22	V	51.22	-44.01	-27	17.01
8325.43	V	58.48	-36.75	-27	9.75
17009.9	V	67.07	-28.16	-27	1.16
4681.21	H	50.51	-44.72	-27	17.72
8337.43	H	57.95	-37.28	-27	10.28
17299.9	H	67.07	-28.16	-27	1.16

Test mode: 802.11n(20) Frequency(MHz): 5580

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4725.21	V	50.53	-44.7	-27	17.7
8453.43	V	57.87	-37.36	-27	10.36
17331.9	V	67.07	-28.16	-27	1.16
4760.22	H	51.01	-44.22	-27	17.22
7926.40	H	57.98	-37.25	-27	10.25
17755.9	H	66.96	-28.27	-27	1.27

Test mode: 802.11n(20) Frequency(MHz): 5700

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4738.21	V	51.05	-44.18	-27	17.18
8328.43	V	58.95	-36.28	-27	9.28
16984.9	V	67.06	-28.17	-27	1.17
4674.21	H	51.07	-44.16	-27	17.16
8334.43	H	58.57	-36.66	-27	9.66
17261.9	H	67.03	-28.2	-27	1.2

MIMO:

Test mode: 802.11n(20) Frequency(MHz): 5500

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4750.8300	V	51.09	-44.14	-27	17.14
8324.0400	V	58.32	-36.91	-27	9.91
17011.1800	V	67.04	-28.19	-27	1.19
4692.9000	H	50.43	-44.80	-27	17.80
8349.1200	H	57.74	-37.49	-27	10.49
17311.5900	H	66.91	-28.32	-27	1.32

Test mode: 802.11n(20) Frequency(MHz): 5580

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4723.8200	V	50.4	-44.83	-27	17.83
8452.0400	V	57.71	-37.52	-27	10.52
17333.1800	V	67.04	-28.19	-27	1.19
4771.9100	H	50.93	-44.30	-27	17.30
7938.0900	H	57.77	-37.46	-27	10.46
17767.5900	H	66.8	-28.43	-27	1.43

Test mode: 802.11n(20) Frequency(MHz): 5700

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4736.8200	V	50.92	-44.31	-27	17.31
8327.0400	V	58.79	-36.44	-27	9.44
16986.1800	V	67.03	-28.20	-27	1.20
4685.9000	H	50.99	-44.24	-27	17.24
8346.1200	H	58.36	-36.87	-27	9.87
17273.5900	H	66.87	-28.36	-27	1.36

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

ANT2:

Test mode: 802.11n(20)		Frequency(MHz): 5500			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4752.22	V	51.22	74.00	22.78	Peak
8325.43	V	58.48	74.00	15.52	Peak
17009.9	V	67.07	74.00	6.93	Peak
4752.22	V	33.70	54.00	20.30	Avg
8325.43	V	38.38	54.00	15.62	Avg
17009.9	V	48.89	54.00	5.11	Avg
4681.21	H	50.51	74.00	23.49	Peak
8337.43	H	57.95	74.00	16.05	Peak
17299.9	H	67.07	74.00	6.93	Peak
4681.21	H	34.39	54.00	19.61	Avg
8337.43	H	37.83	54.00	16.17	Avg
17299.9	H	47.62	54.00	6.38	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5580			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4725.21	V	50.53	74.00	23.47	Peak
8453.43	V	57.87	74.00	16.13	Peak
17331.9	V	67.07	74.00	6.93	Peak
4725.21	V	34.23	54.00	19.77	Avg
8453.43	V	37.06	54.00	16.94	Avg
17331.9	V	47.85	54.00	6.15	Avg
4760.22	H	51.01	74.00	22.99	Peak
7926.40	H	57.98	74.00	16.02	Peak
17755.9	H	66.96	74.00	7.04	Peak
4760.22	H	33.46	54.00	20.54	Avg
7926.40	H	36.57	54.00	17.43	Avg
17755.9	H	48.76	54.00	5.24	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5700			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4738.21	V	51.05	74.00	22.95	Peak
8328.43	V	58.95	74.00	15.05	Peak
16984.9	V	67.06	74.00	6.94	Peak
4738.21	V	33.77	54.00	20.23	Avg
8328.43	V	38.31	54.00	15.69	Avg
16984.9	V	48.71	54.00	5.29	Avg
4674.21	H	51.07	74.00	22.93	Peak
8334.43	H	58.57	74.00	15.43	Peak
17261.9	H	67.03	74.00	6.97	Peak
4674.21	H	34.06	54.00	19.94	Avg
8334.43	H	37.53	54.00	16.47	Avg
17261.9	H	48.98	54.00	5.02	Avg

MIMO:

Test mode: 802.11n(20)		Frequency(MHz): 5500			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4750.8300	V	51.09	74.00	22.91	Peak
8324.0400	V	58.32	74.00	15.68	Peak
17011.1800	V	67.04	74.00	6.96	Peak
4753.5000	V	33.68	54.00	20.32	Avg
8323.1800	V	38.12	54.00	15.88	Avg
17007.6500	V	48.70	54.00	5.30	Avg
4692.9000	H	50.43	74.00	23.57	Peak
8349.1200	H	57.74	74.00	16.26	Peak
17311.5900	H	66.91	74.00	7.09	Peak
4692.9000	H	34.25	54.00	19.75	Avg
8334.1200	H	37.65	54.00	16.35	Avg
17296.5900	H	47.49	54.00	6.51	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5580			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4723.8200	V	50.40	74.00	23.60	Peak
8452.0400	V	57.71	74.00	16.29	Peak
17333.1800	V	67.04	74.00	6.96	Peak
4726.4900	V	34.21	54.00	19.79	Avg
8451.1800	V	36.80	54.00	17.20	Avg
17329.6500	V	47.66	54.00	6.34	Avg
4771.9100	H	50.93	74.00	23.07	Peak
7938.0900	H	57.77	74.00	16.23	Peak
17767.5900	H	66.80	74.00	7.20	Peak
4771.9100	H	33.32	54.00	20.68	Avg
7923.0900	H	36.39	54.00	17.61	Avg
17752.5900	H	48.63	54.00	5.37	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5700			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4736.8200	V	50.92	74.00	23.08	Peak
8327.0400	V	58.79	74.00	15.21	Peak
16986.1800	V	67.03	74.00	6.97	Peak
4739.4900	V	33.75	54.00	20.25	Avg
8326.1800	V	38.05	54.00	15.95	Avg
16982.6500	V	48.52	54.00	5.48	Avg
4685.9000	H	50.99	74.00	23.01	Peak
8346.1200	H	58.36	74.00	15.64	Peak
17273.5900	H	66.87	74.00	7.13	Peak
4685.9000	H	33.92	54.00	20.08	Avg
8331.1200	H	37.35	54.00	16.65	Avg
17258.5900	H	48.85	54.00	5.15	Avg

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
(2) Emission Level= Reading Level+Correct Factor +Cable Loss.
(3) Correct Factor= Ant_F + Cab_L - Preamp
(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

● ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Test mode: 802.11AX(HT20) Frequency(MHz): 5500

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5467.1	V	55.61	-39.62	-27	Pass
5463.18	H	55.47	-39.76	-27	Pass

Test mode: 802.11AX(HT20) Frequency(MHz): 5700

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5725.95	V	54.74	-40.49	-27	Pass
5725.72	H	54.44	-40.79	-27	Pass

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

Test mode: 802.11AX(HT20) Frequency(MHz): 5500

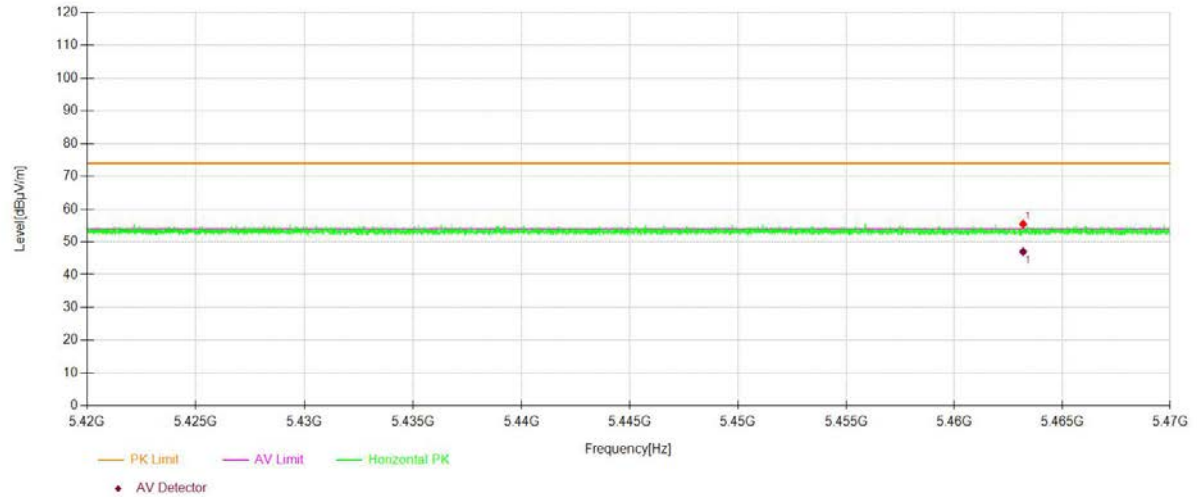
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
5467.1	V	55.61	74.00	18.39	Peak
5467.1	V	47.10	54.00	6.90	Avg
5463.18	H	55.47	74.00	18.53	Peak
5463.18	H	47.04	54.00	6.96	Avg

Test mode: 802.11AX(HT20) Frequency(MHz): 5700

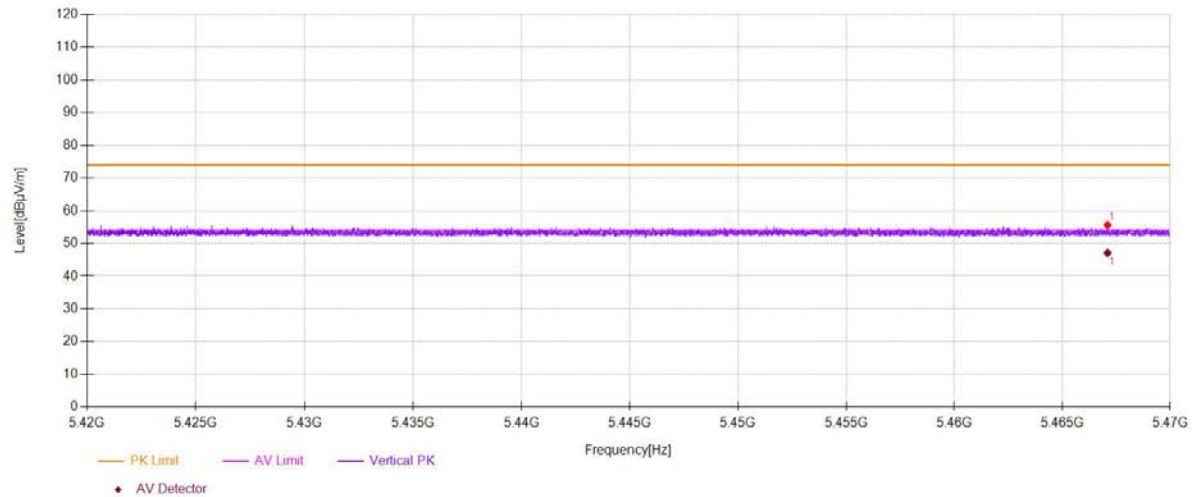
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
5725.95	V	54.74	74.00	19.26	Peak
5725.95	V	47.81	54.00	6.19	Avg
5725.72	H	54.44	74.00	19.56	Peak
5725.72	H	47.14	54.00	6.86	Avg

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

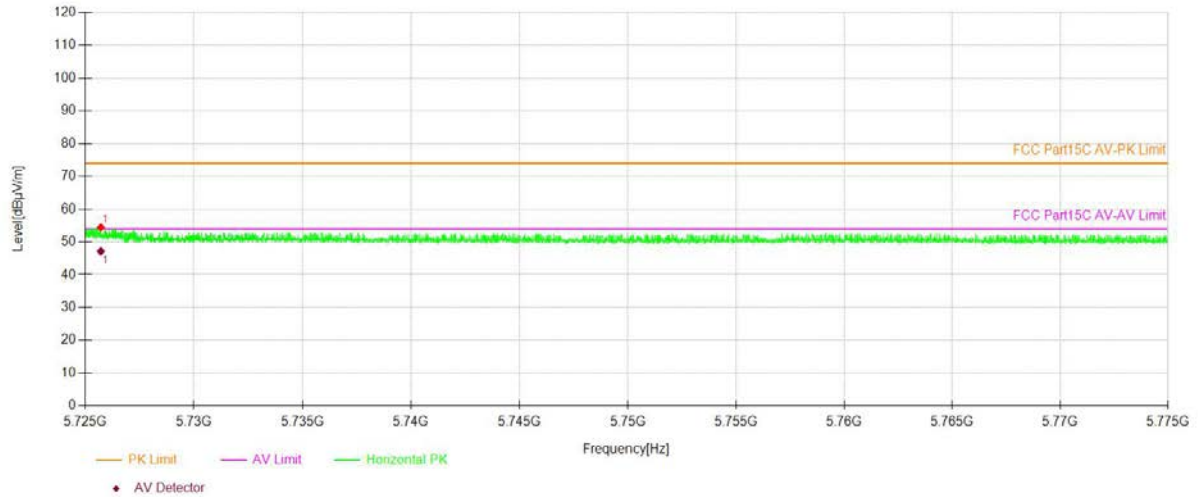
Test Model U-NII -2C
Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11 ac (VHT20)
☒ 5500 ☐ 5580 ☐ 5700 Ant.Pol H



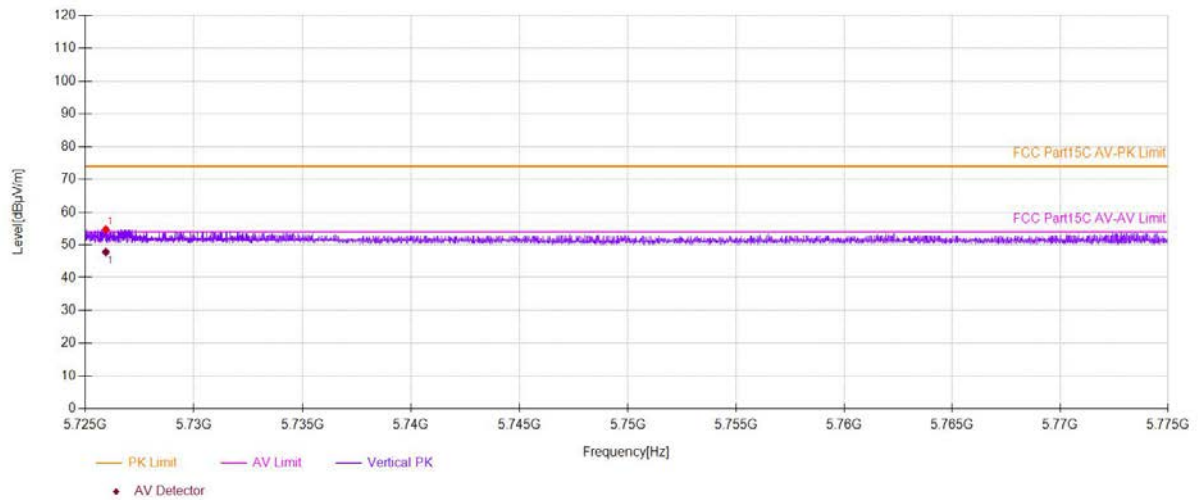
Test Model U-NII -2C
Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11 ac (VHT20)
☒ 5500 ☐ 5580 ☐ 5700 Ant.Pol V



Test Model U-NII -2C
Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11 ac (VHT20)
☐ 5500 ☐ 5580 ☒ 5700 Ant.Pol H



Test Model U-NII -2C
Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11 ac (VHT20)
☐ 5500 ☐ 5580 ☒ 5700 Ant.Pol V



- ☒ For Undesirable radiated Spurious Emission in U-NII -3

- ☒ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

All of the configurations or modes are tested, the data of the worst case is recorded in the report.
Highest gain of each antenna and highest output power is ANT2 and MIMO as below:

ANT2:

Test mode: 802.11n(20) Frequency(MHz): 5745

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4732.21	V	50.79	-44.44	-27	17.44
8359.43	V	58.66	-36.57	-27	9.57
16821.9	V	67.04	-28.19	-27	1.19
4720.21	H	50.74	-44.49	-27	17.49
8314.43	H	59.43	-35.8	-27	8.8
16770.9	H	67.03	-28.2	-27	1.2

Test mode: 802.11n(20) Frequency(MHz): 5785

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4722.21	V	50.94	-44.29	-27	17.29
8420.43	V	59.45	-35.78	-27	8.78
16442.9	V	67.52	-27.71	-27	0.71
4690.21	H	50.79	-44.44	-27	17.44
8312.43	H	58.44	-36.79	-27	9.79
17344.9	H	66.99	-28.24	-27	1.24

Test mode: 802.11n(20) Frequency(MHz): 5825

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4656.21	V	50.94	-44.29	-27	17.29
8333.43	V	59.07	-36.16	-27	9.16
17130.9	V	66.94	-28.29	-27	1.29
4698.21	H	51.45	-43.78	-27	16.78
8334.43	H	58.13	-37.1	-27	10.1
17556.9	H	67.09	-28.14	-27	1.14

MIMO:

Test mode: 802.11n(20) Frequency(MHz): 5745

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4730.8200	V	50.66	-44.57	-27	17.57
8358.0400	V	58.5	-36.73	-27	9.73
16823.1800	V	67.01	-28.22	-27	1.22
4731.9000	H	50.66	-44.57	-27	17.57
8326.1200	H	59.22	-36.01	-27	9.01
16782.5900	H	66.87	-28.36	-27	1.36

Test mode: 802.11n(20) Frequency(MHz): 5785

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4720.8200	V	50.81	-44.42	-27	17.42
8419.0400	V	59.29	-35.94	-27	8.94
16444.1800	V	67.49	-27.74	-27	0.74
4701.9000	H	50.71	-44.52	-27	17.52
8324.1200	H	58.23	-37.00	-27	10.00
17356.5900	H	66.83	-28.40	-27	1.40

Test mode: 802.11n(20) Frequency(MHz): 5825

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4654.8200	V	50.81	-44.42	-27	17.42
8332.0400	V	58.91	-36.32	-27	9.32
17132.1800	V	66.91	-28.32	-27	1.32
4709.9000	H	51.37	-43.86	-27	16.86
8346.1200	H	57.92	-37.31	-27	10.31
17568.5900	H	66.93	-28.30	-27	1.30

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

ANT2:

Test mode: 802.11n(20)		Frequency(MHz): 5745			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4732.21	V	50.79	74.00	23.21	Peak
8359.43	V	58.66	74.00	15.34	Peak
16821.9	V	67.04	74.00	6.96	Peak
4732.21	V	34.47	54.00	19.53	Avg
8359.43	V	37.85	54.00	16.15	Avg
16821.9	V	48.00	54.00	6.00	Avg
4720.21	H	50.74	74.00	23.26	Peak
8314.43	H	59.43	74.00	14.57	Peak
16770.9	H	67.03	74.00	6.97	Peak
4720.21	H	33.95	54.00	20.05	Avg
8314.43	H	38.03	54.00	15.97	Avg
16770.9	H	47.77	54.00	6.23	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5785			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4722.21	V	50.94	74.00	23.06	Peak
8420.43	V	59.45	74.00	14.55	Peak
16442.9	V	67.52	74.00	6.48	Peak
4722.21	V	34.19	54.00	19.81	Avg
8420.43	V	38.33	54.00	15.67	Avg
16442.9	V	47.20	54.00	6.80	Avg
4690.21	H	50.79	74.00	23.21	Peak
8312.43	H	58.44	74.00	15.56	Peak
17344.9	H	66.99	74.00	7.01	Peak
4690.21	H	34.42	54.00	19.58	Avg
8312.43	H	37.74	54.00	16.26	Avg
17344.9	H	48.33	54.00	5.67	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5825			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4656.21	V	50.94	74.00	23.06	Peak
8333.43	V	59.07	74.00	14.93	Peak
17130.9	V	66.94	74.00	7.06	Peak
4656.21	V	34.71	54.00	19.29	Avg
8333.43	V	37.77	54.00	16.23	Avg
17130.9	V	48.89	54.00	5.11	Avg
4698.21	H	51.45	74.00	22.55	Peak
8334.43	H	58.13	74.00	15.87	Peak
17556.9	H	67.09	74.00	6.91	Peak
4698.21	H	34.16	54.00	19.84	Avg
8334.43	H	38.51	54.00	15.49	Avg
17556.9	H	50.11	54.00	3.89	Avg

MIMO:

Test mode: 802.11n(20)		Frequency(MHz): 5745			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4730.8200	V	50.66	74.00	23.34	Peak
8358.0400	V	58.50	74.00	15.50	Peak
16823.1800	V	67.01	74.00	6.99	Peak
4733.4900	V	34.45	54.00	19.55	Avg
8357.1800	V	37.59	54.00	16.41	Avg
16819.6500	V	47.81	54.00	6.19	Avg
4731.9000	H	50.66	74.00	23.34	Peak
8326.1200	H	59.22	74.00	14.78	Peak
16782.5900	H	66.87	74.00	7.13	Peak
4731.9000	H	33.81	54.00	20.19	Avg
8311.1200	H	37.85	54.00	16.15	Avg
16767.5900	H	47.64	54.00	6.36	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5785			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4720.8200	V	50.81	74.00	23.19	Peak
8419.0400	V	59.29	74.00	14.71	Peak
16444.1800	V	67.49	74.00	6.51	Peak
4723.4900	V	34.17	54.00	19.83	Avg
8418.1800	V	38.07	54.00	15.93	Avg
16440.6500	V	47.01	54.00	6.99	Avg
4701.9000	H	50.71	74.00	23.29	Peak
8324.1200	H	58.23	74.00	15.77	Peak
17356.5900	H	66.83	74.00	7.17	Peak
4701.9000	H	34.28	54.00	19.72	Avg
8309.1200	H	37.56	54.00	16.44	Avg
17341.5900	H	48.20	54.00	5.80	Avg

Test mode: 802.11n(20)		Frequency(MHz): 5825			
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4654.8200	V	50.81	74.00	23.19	Peak
8332.0400	V	58.91	74.00	15.09	Peak
17132.1800	V	66.91	74.00	7.09	Peak
4657.4900	V	34.69	54.00	19.31	Avg
8331.1800	V	37.51	54.00	16.49	Avg
17128.6500	V	48.70	54.00	5.30	Avg
4709.9000	H	51.37	74.00	22.63	Peak
8346.1200	H	57.92	74.00	16.08	Peak
17568.5900	H	66.93	74.00	7.07	Peak
4709.9000	H	34.02	54.00	19.98	Avg
8331.1200	H	38.33	54.00	15.67	Avg
17553.5900	H	49.98	54.00	4.02	Avg

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

● ☒ Undesirable radiated Spurious Emission in band edge

Test mode:		802.11AX(HT20)		Frequency:		5745	
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict		
5723.12	V	68.33	-26.9	-27	PASS		
5724.87	H	79.81	-15.42	-27	PASS		

Test mode:		802.11AX(HT20)		Frequency:		5825	
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict		
5854.50	V	62.08	-33.15	-27	PASS		
5850.12	H	73.27	-21.96	-27	PASS		

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

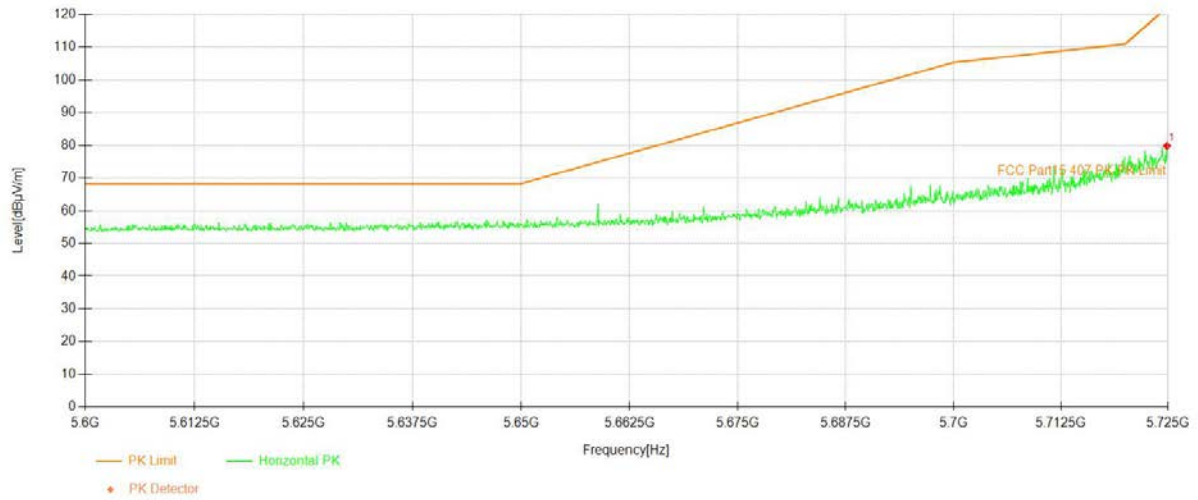
(2) Emission Level= Reading Level+Correct Factor +Cable Loss.

(3) Correct Factor= Ant_F + Cab_L - Preamp

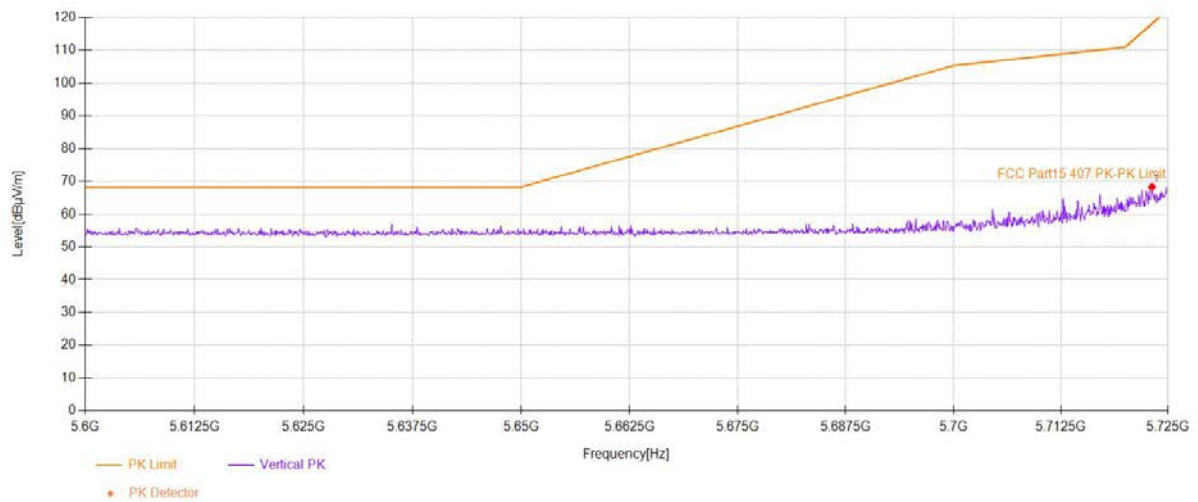
(4) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77

d is the measurement distance in 3 meters

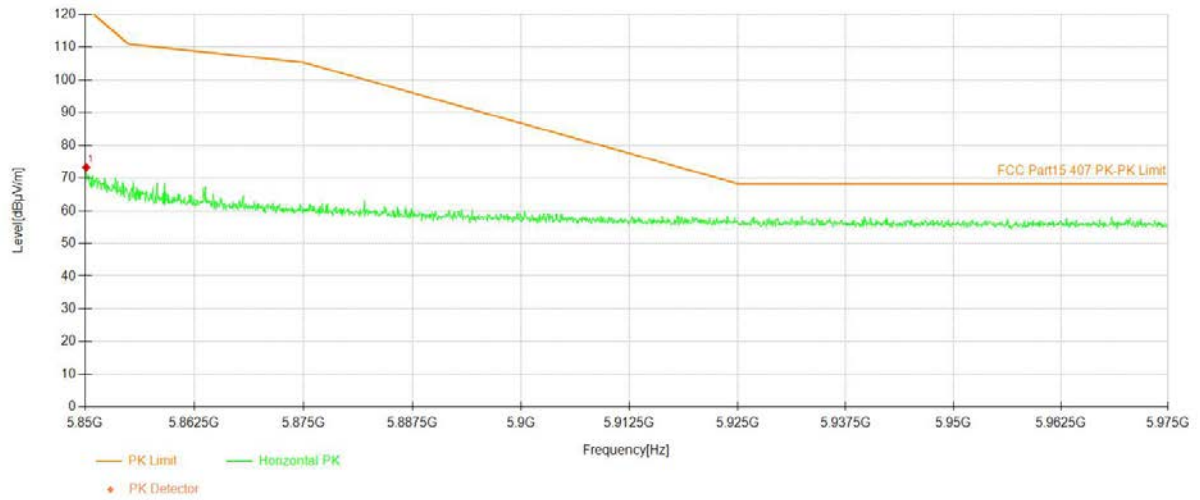
Test Model U-NII -3
 Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11n(HT40)
☒ 5745 Ant.Pol H



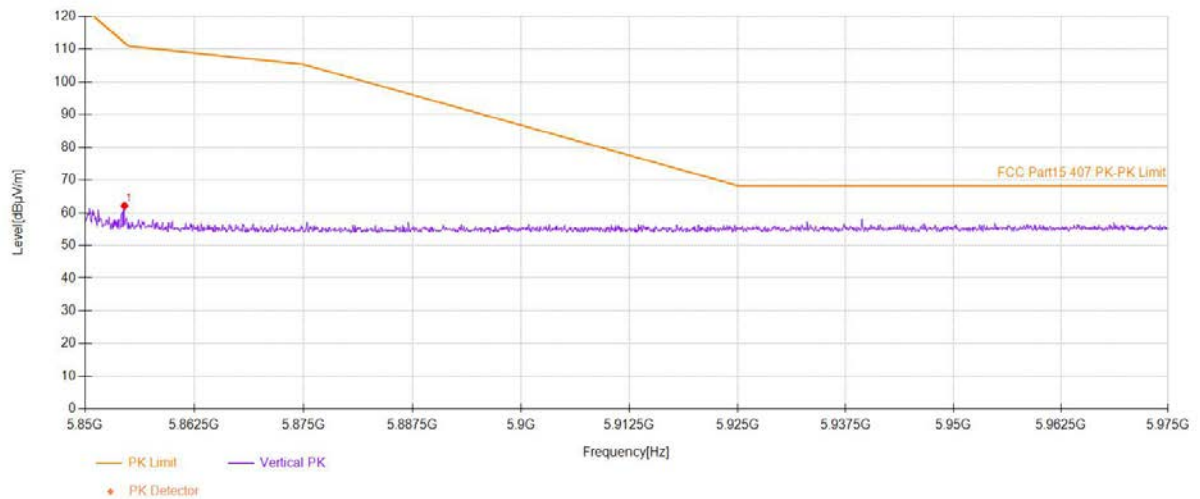
Test Model U-NII -3
 Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11n(HT40)
☒ 5745 Ant.Pol V



Test Model U-NII -3
Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11n(HT40)
☒ 5825 Ant.Pol H

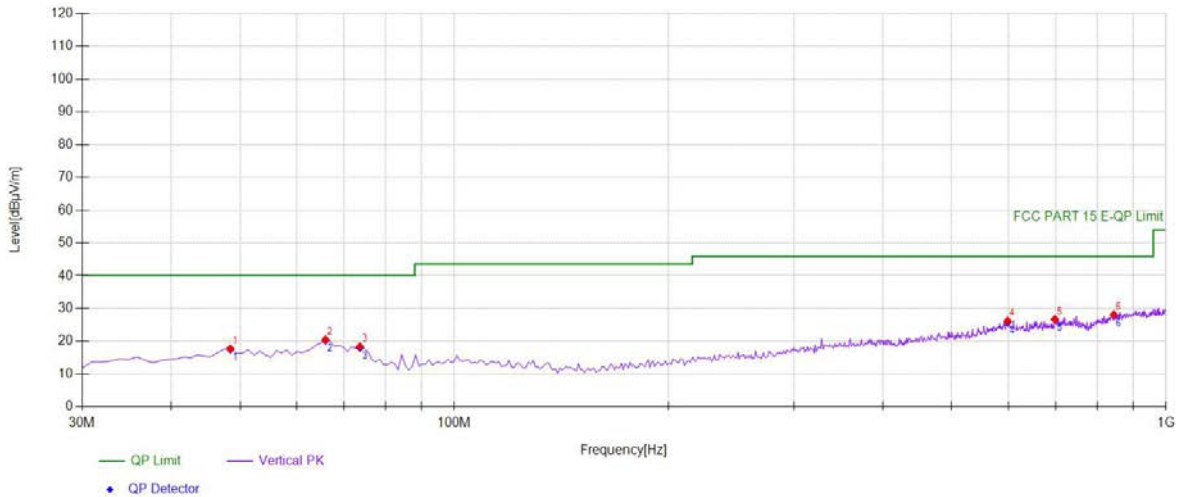


Test Model U-NII -3
Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
☐ 802.11a ☒ 802.11AX(HT20) ☐ 802.11n(HT40)
☒ 5825 Ant.Pol V



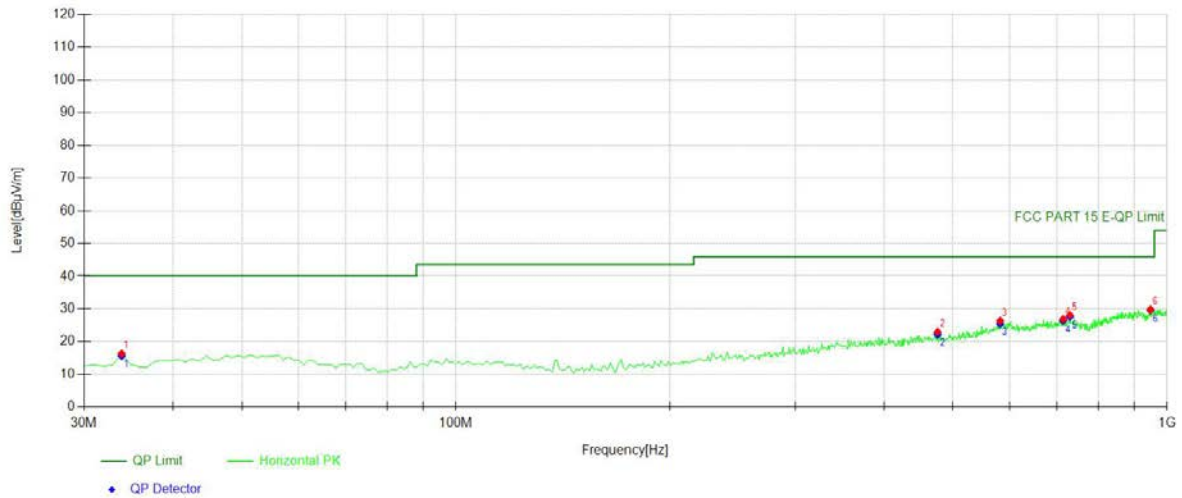
- Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)
All of the configurations or modes are tested, the data of the worst case is recorded in the report.

Test mode: 802.11A(20) Frequency(MHz): 5180



Suspected Data List

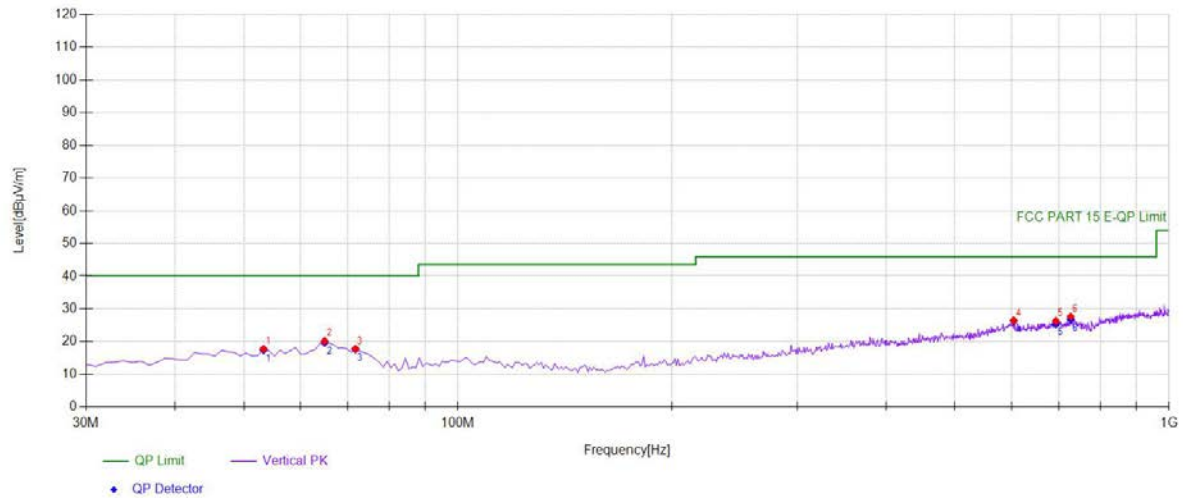
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	48.4484	26.60	-8.84	17.76	PK	40.00	22.24	Vertical
2	65.9259	31.20	-10.67	20.53	PK	40.00	19.47	Vertical
3	73.6937	30.17	-11.74	18.43	PK	40.00	21.57	Vertical
4	598.989	25.67	0.56	26.23	PK	46.00	19.77	Vertical
5	698.028	25.85	0.82	26.67	PK	46.00	19.33	Vertical
6	844.644	25.76	2.35	28.11	PK	46.00	17.89	Vertical



Suspected Data List

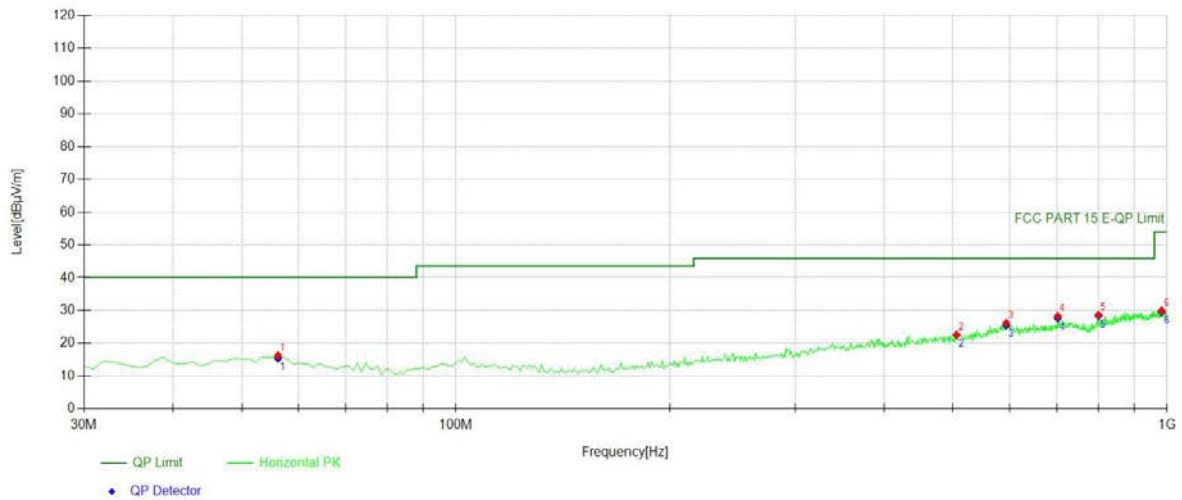
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	27.41	-11.09	16.32	PK	40.00	23.68	Horizontal
2	475.675	26.06	-3.08	22.98	PK	46.00	23.02	Horizontal
3	582.482	26.49	-0.20	26.29	PK	46.00	19.71	Horizontal
4	714.534	25.76	1.05	26.81	PK	46.00	19.19	Horizontal
5	730.070	26.89	1.19	28.08	PK	46.00	17.92	Horizontal
6	947.567	26.50	3.28	29.78	PK	46.00	16.22	Horizontal

Test mode: 802.11A(20) Frequency(MHz): 5200



Suspected Data List

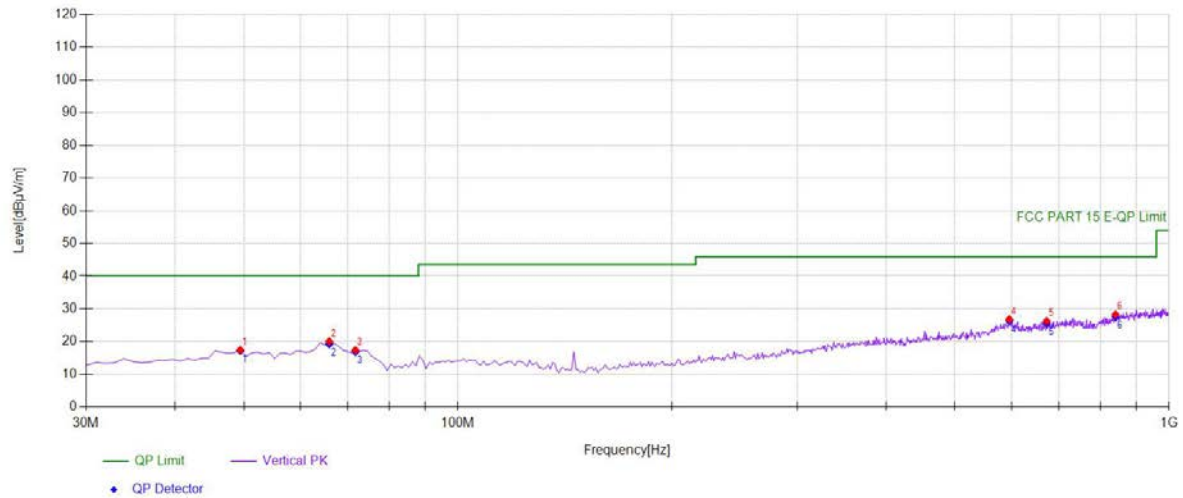
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	53.3033	26.80	-9.03	17.77	PK	40.00	22.23	Vertical
2	64.955	30.74	-10.54	20.20	PK	40.00	19.80	Vertical
3	71.7518	29.26	-11.45	17.81	PK	40.00	22.19	Vertical
4	604.814	26.10	0.31	26.41	PK	46.00	19.59	Vertical
5	693.173	25.61	0.62	26.23	PK	46.00	19.77	Vertical
6	727.157	26.51	1.14	27.65	PK	46.00	18.35	Vertical



Suspected Data List

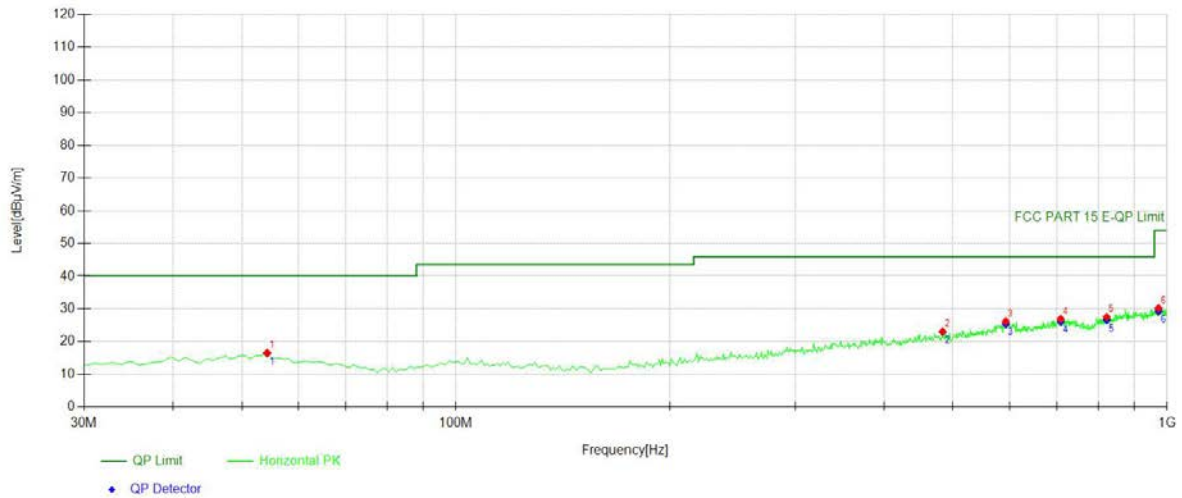
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	56.2162	25.65	-9.40	16.25	PK	40.00	23.75	Horizontal
2	505.775	25.52	-2.95	22.57	PK	46.00	23.43	Horizontal
3	594.134	25.81	0.32	26.13	PK	46.00	19.87	Horizontal
4	701.911	27.35	0.93	28.28	PK	46.00	17.72	Horizontal
5	800.951	27.17	1.46	28.63	PK	46.00	17.37	Horizontal
6	982.522	26.09	3.83	29.92	PK	54.00	24.08	Horizontal

Test mode: 802.11A(20) Frequency(MHz): 5240



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	49.4194	26.12	-8.69	17.43	PK	40.00	22.57	Vertical
2	65.9259	30.75	-10.67	20.08	PK	40.00	19.92	Vertical
3	71.7518	28.83	-11.45	17.38	PK	40.00	22.62	Vertical
4	596.076	26.40	0.41	26.81	PK	46.00	19.19	Vertical
5	672.782	26.10	0.12	26.22	PK	46.00	19.78	Vertical
6	840.760	26.10	2.19	28.29	PK	46.00	17.71	Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	54.2743	25.69	-9.15	16.54	PK	40.00	23.46	Horizontal
2	483.443	26.11	-3.04	23.07	PK	46.00	22.93	Horizontal
3	593.163	25.87	0.27	26.14	PK	46.00	19.86	Horizontal
4	708.708	25.82	1.05	26.87	PK	46.00	19.13	Horizontal
5	822.312	25.78	1.71	27.49	PK	46.00	18.51	Horizontal
6	972.812	26.35	3.84	30.19	PK	54.00	23.81	Horizontal

8.5 POWER LINE CONDUCTED EMISSIONS

8.5.1 Applicable Standard

According to FCC Part 15.207(a)

8.5.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.5.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

8.5.4 Test Procedure

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

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

8.5.5 Test Results

N/A

Not applicable, since EUT is DC power.

8.6 ANTENNA APPLICATION

8.6.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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 15.407 (a), 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.

8.6.2 Result

PASS

Temperature : 25°C ATM Pressure:: 1011 mbar
Humidity : 60 % Test Engineer: XXH

- ☒ Antennas use a permanently attached antenna which is not replaceable.
- ☐ Not using a standard antenna jack or electrical connector for antenna replacement
- ☐ The antenna has to be professionally installed (please provide method of installation)

Which in accordance to section 15.203, please refer to the internal photos.

Detail of factor for radiated emission:

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

--- End of Report ---

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