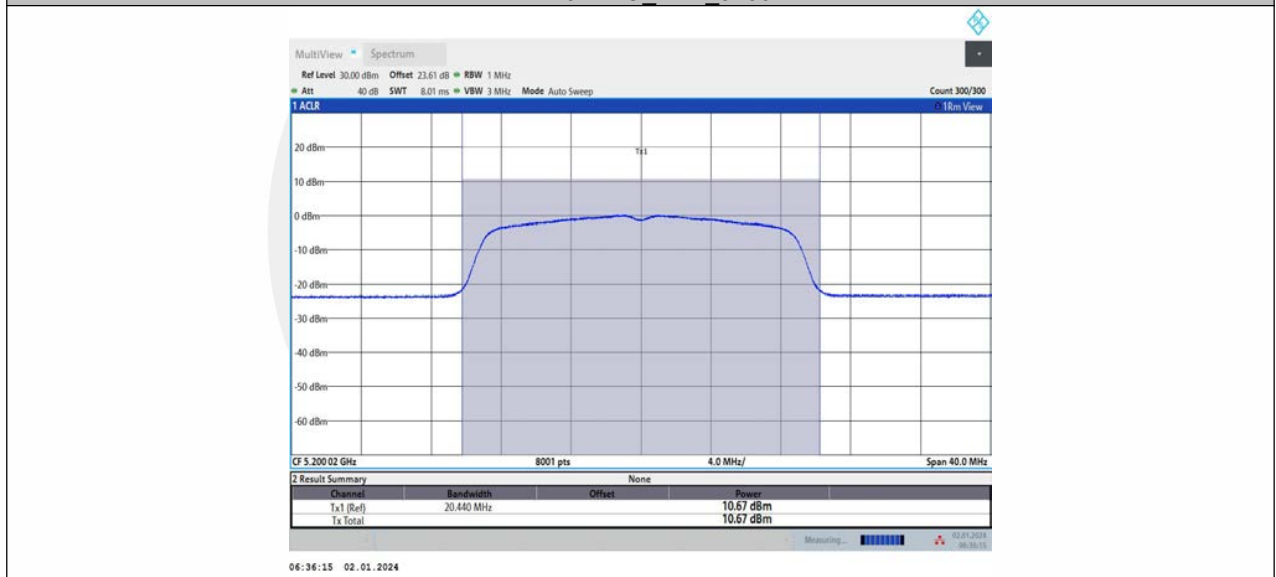
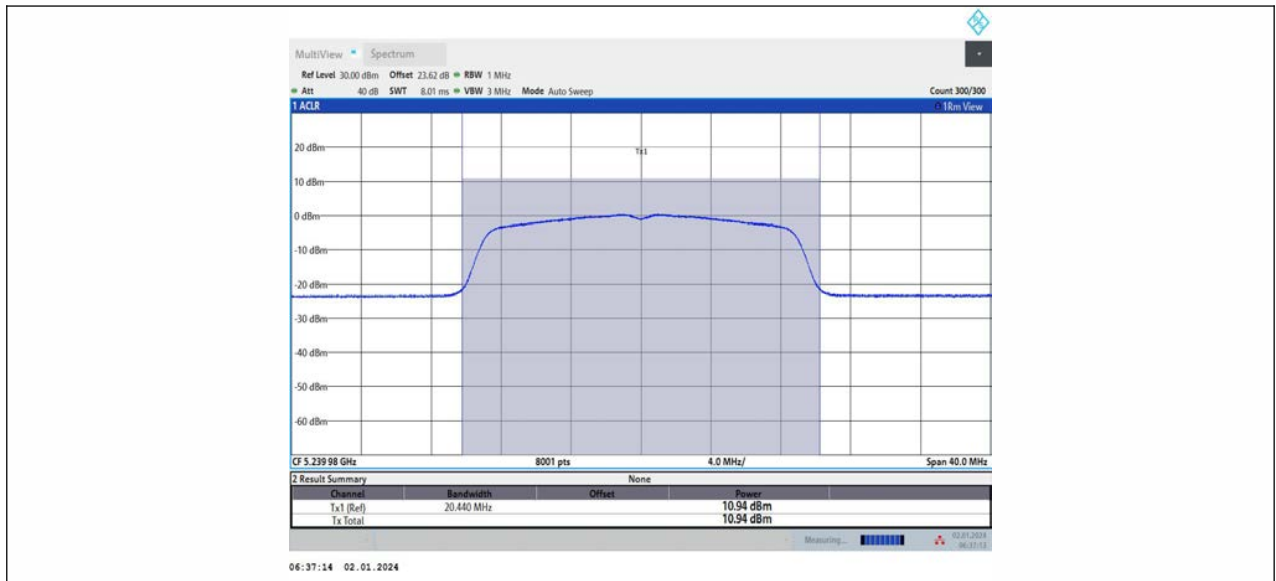


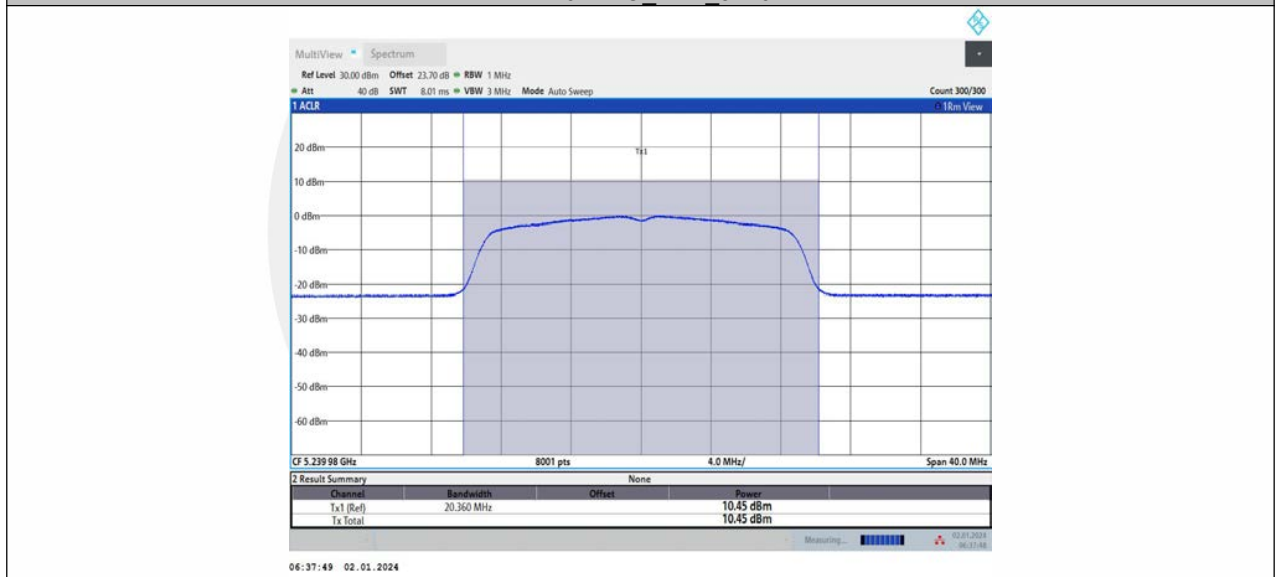
11N20MIMO\_Ant2\_5200



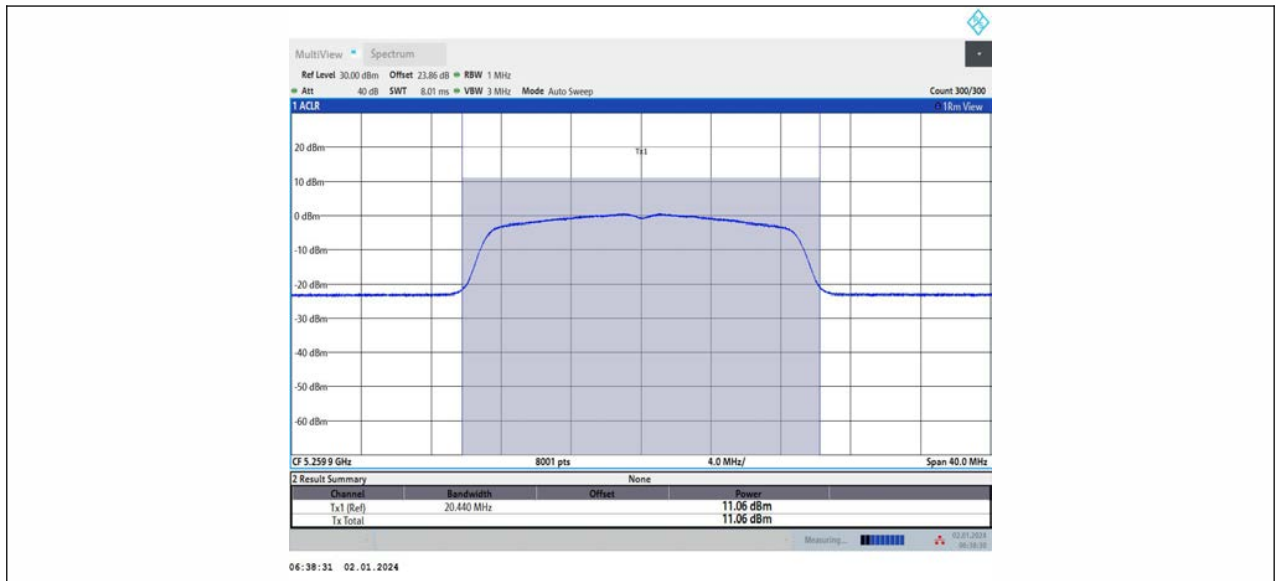
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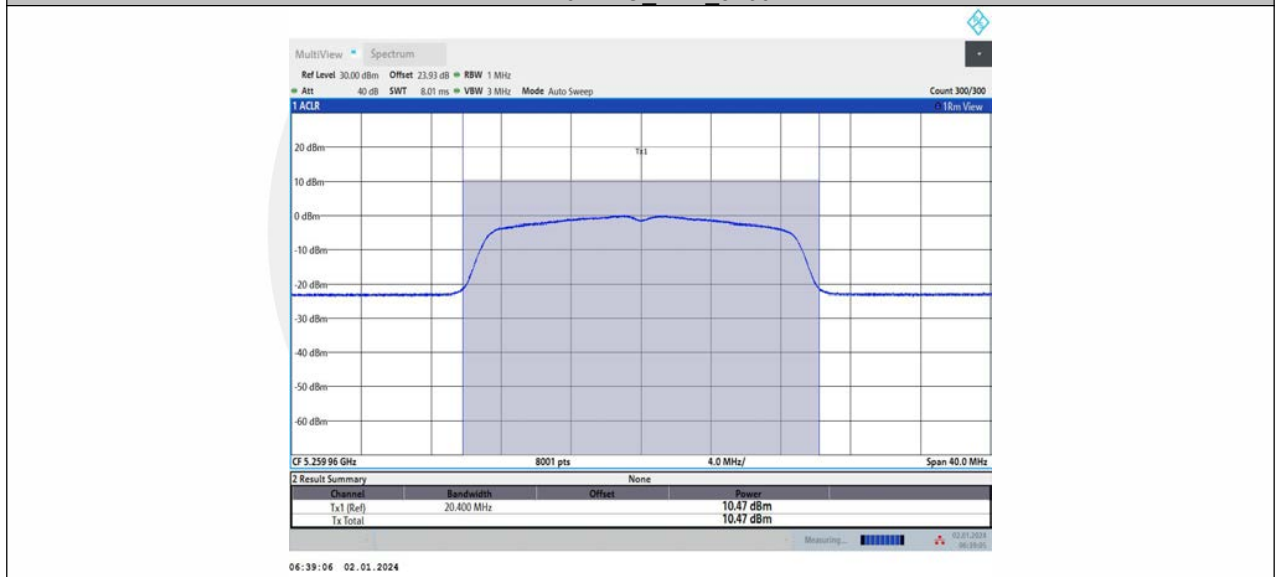
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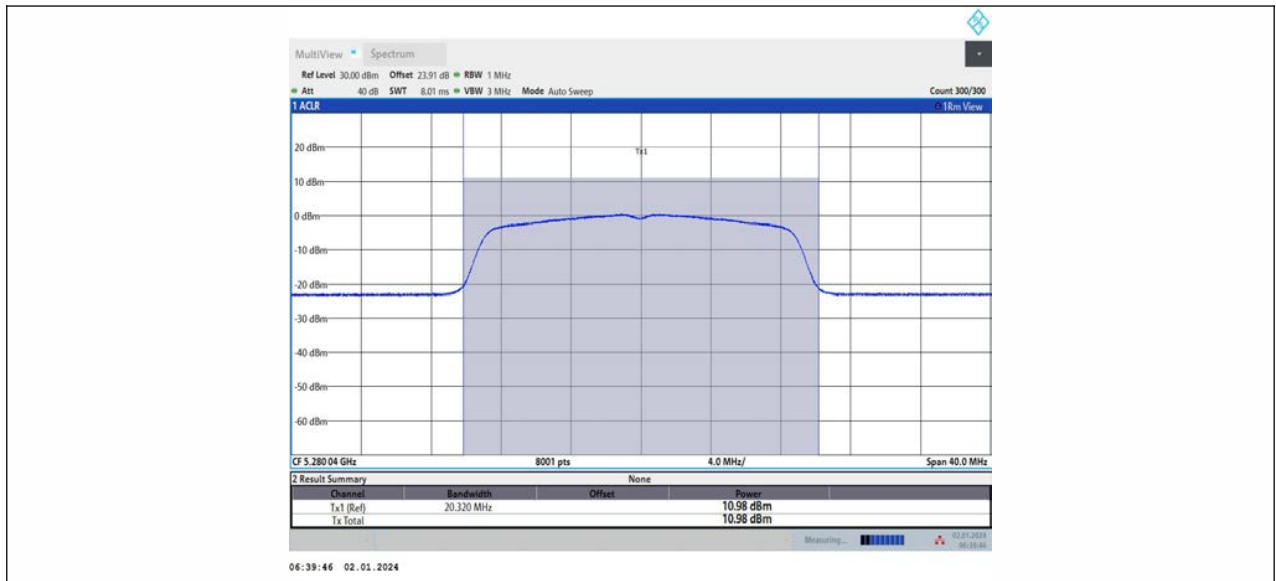
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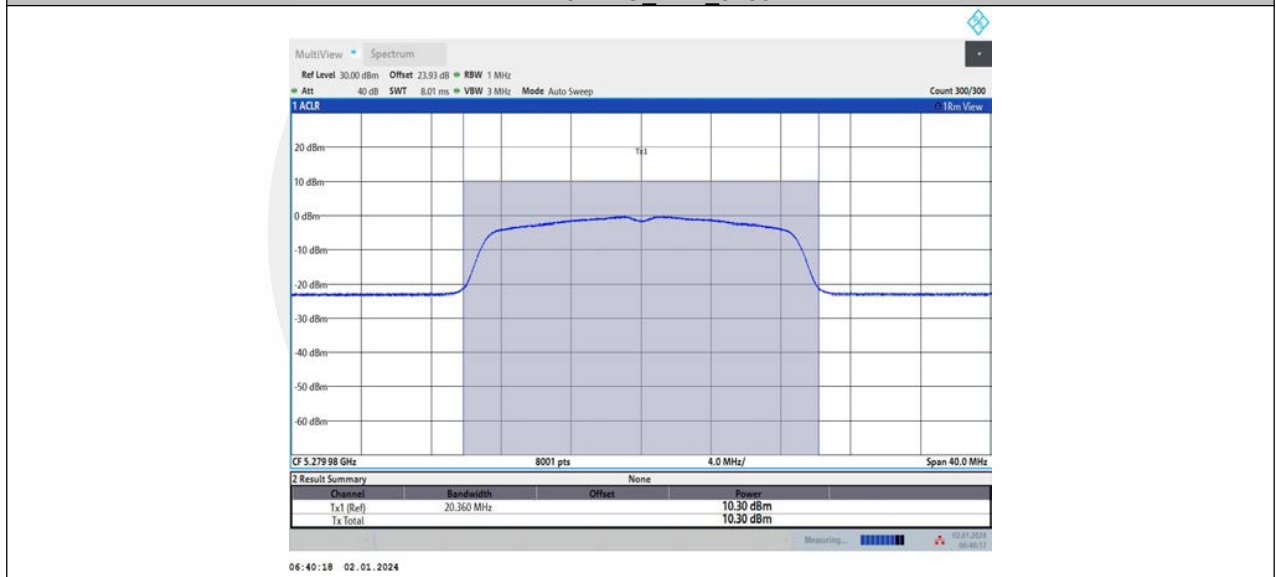
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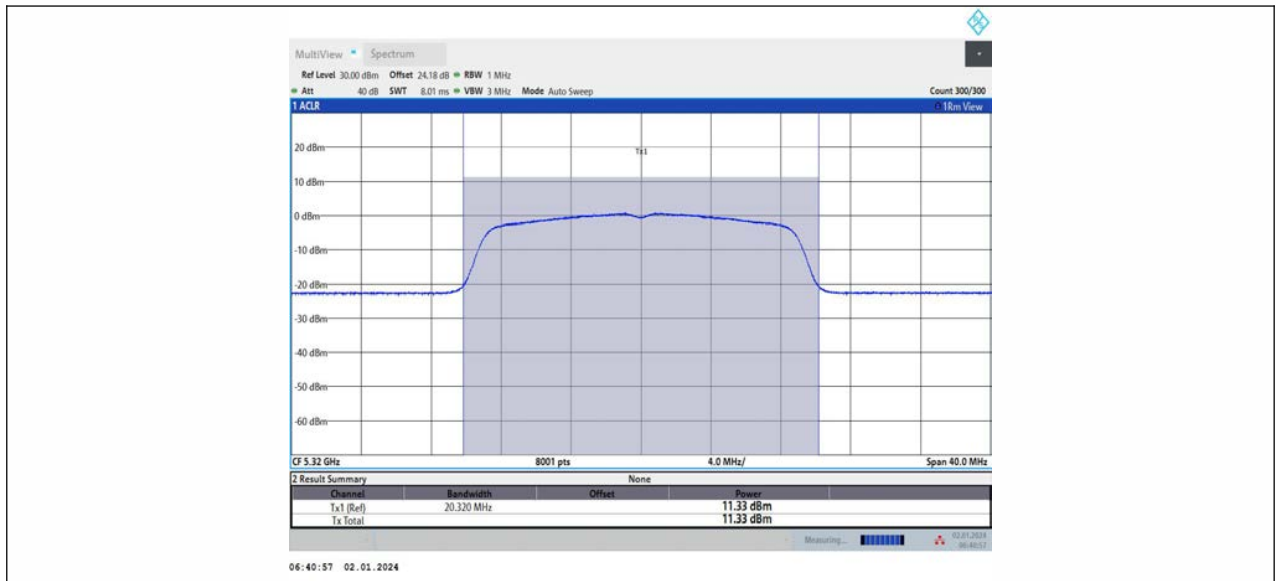
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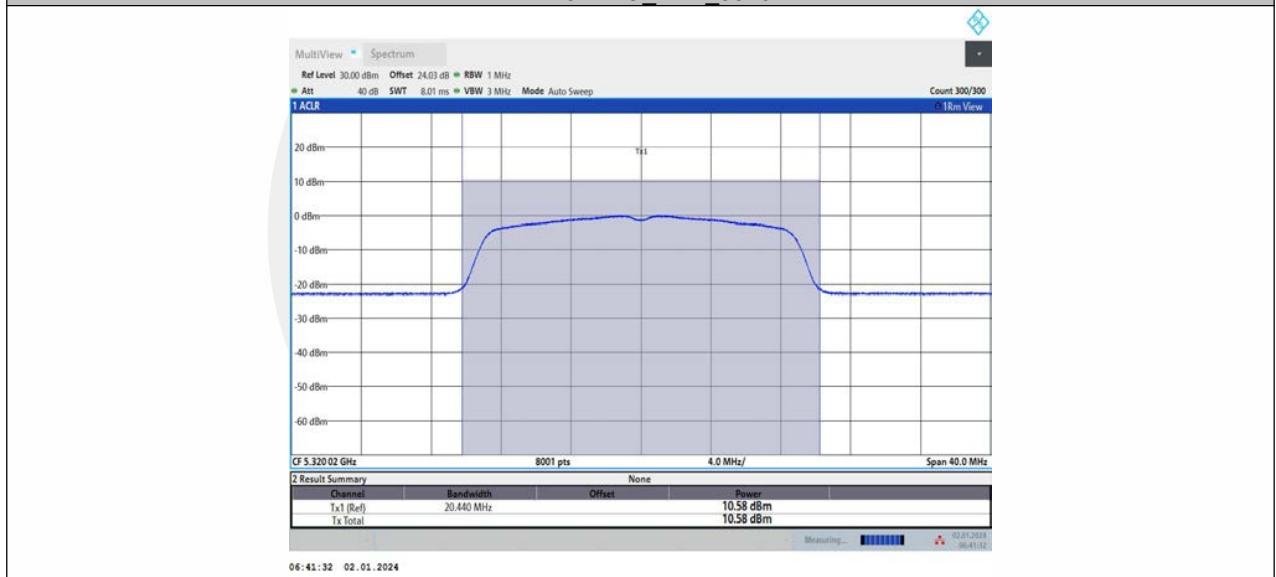
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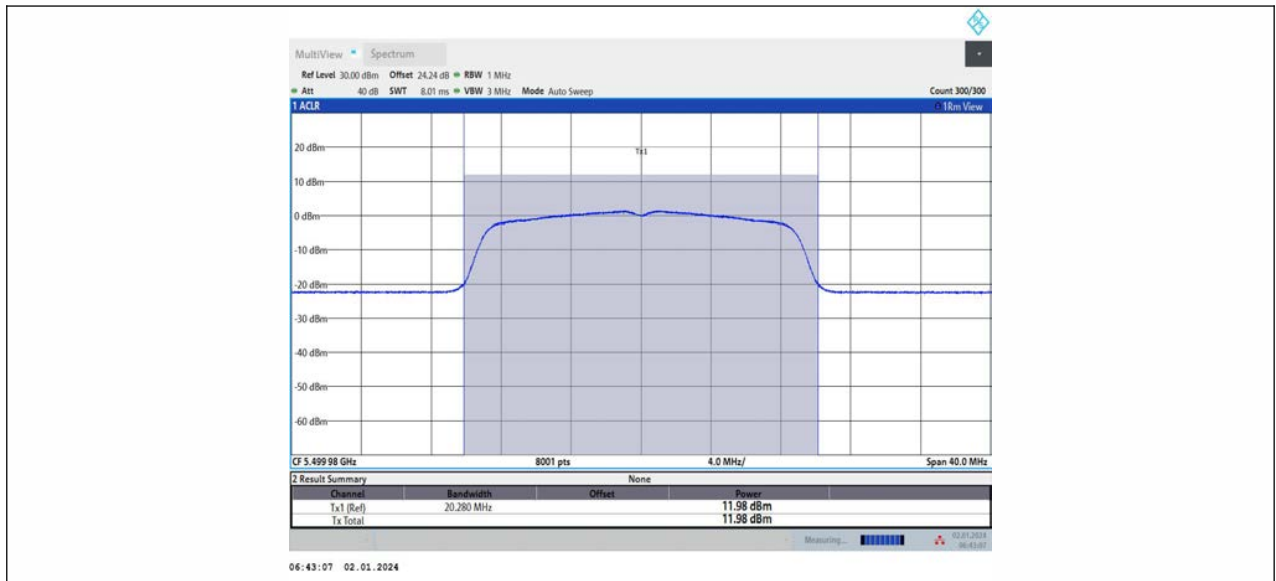
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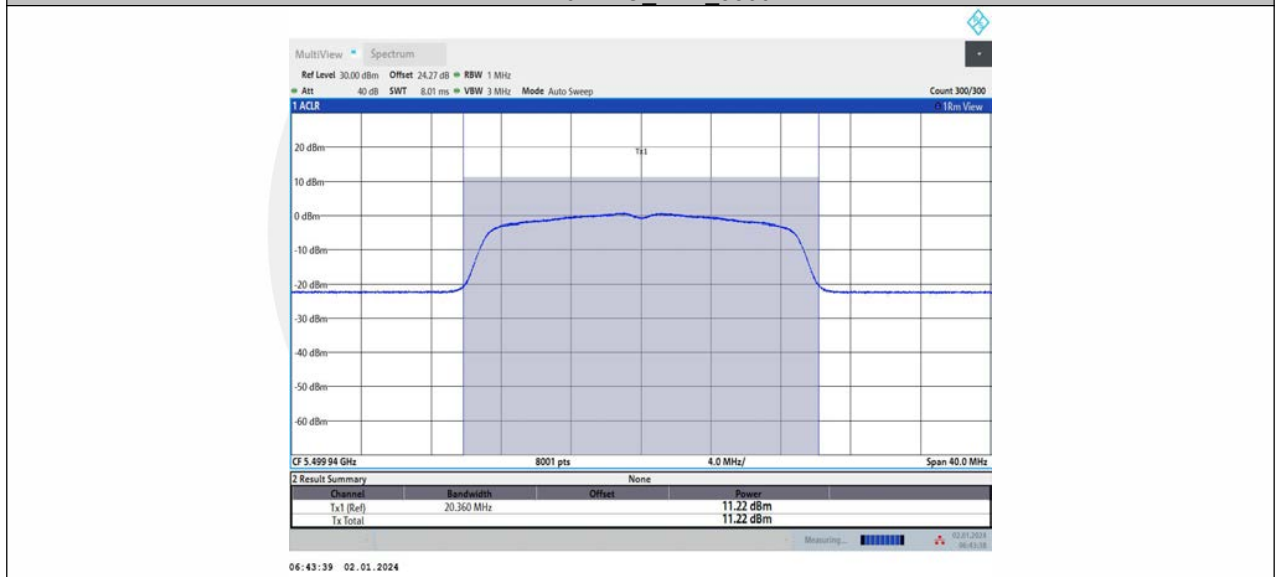
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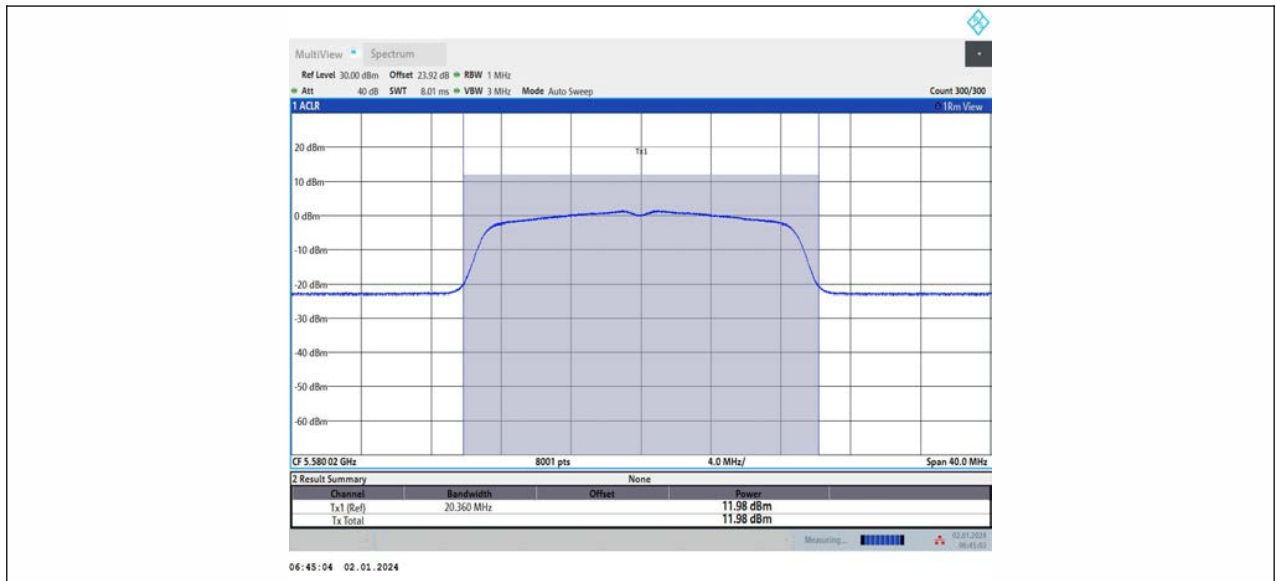
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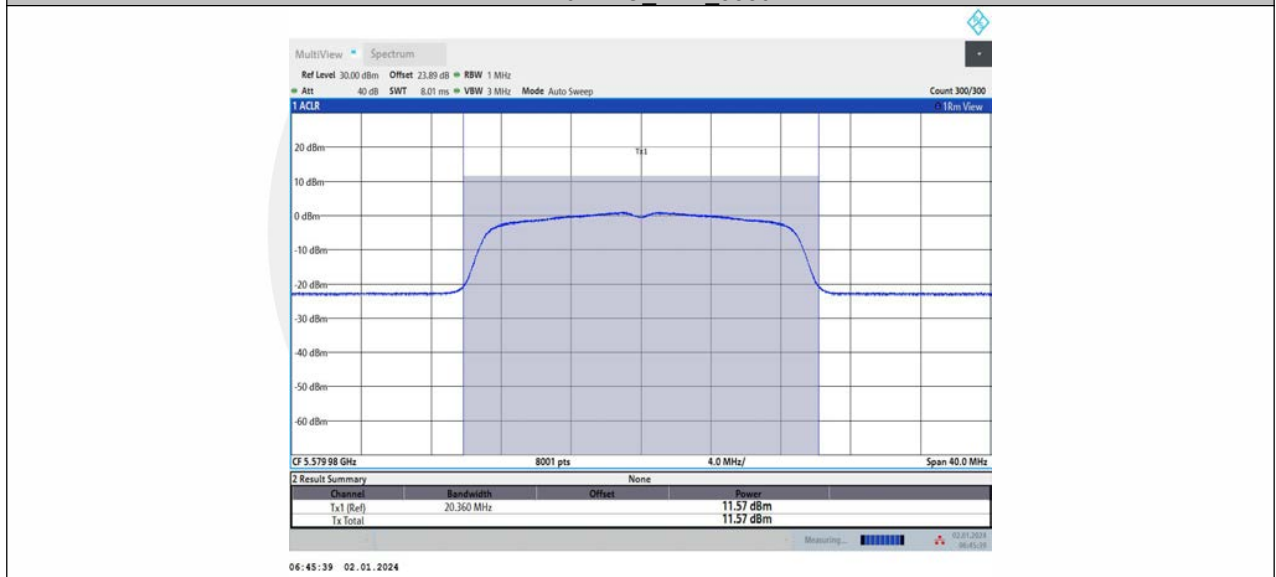
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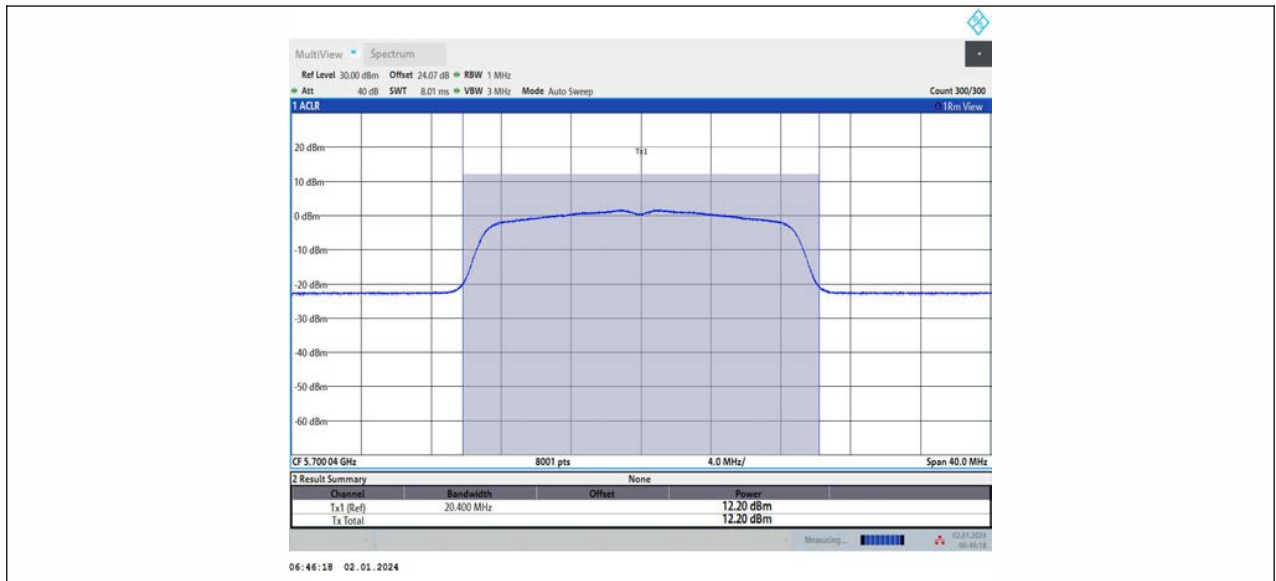
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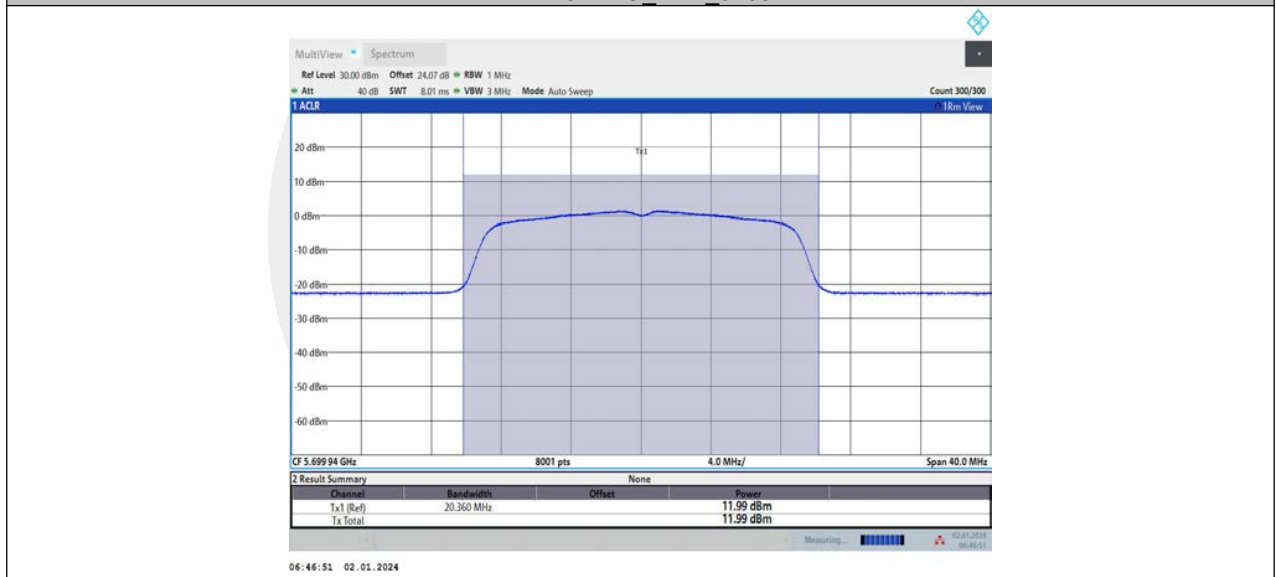
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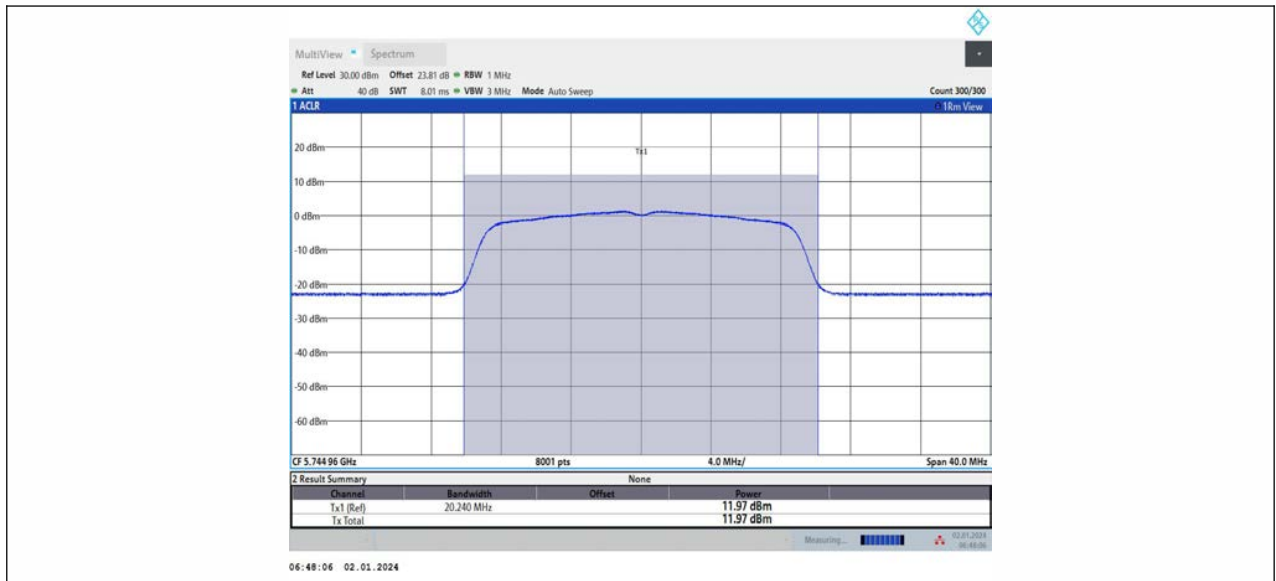


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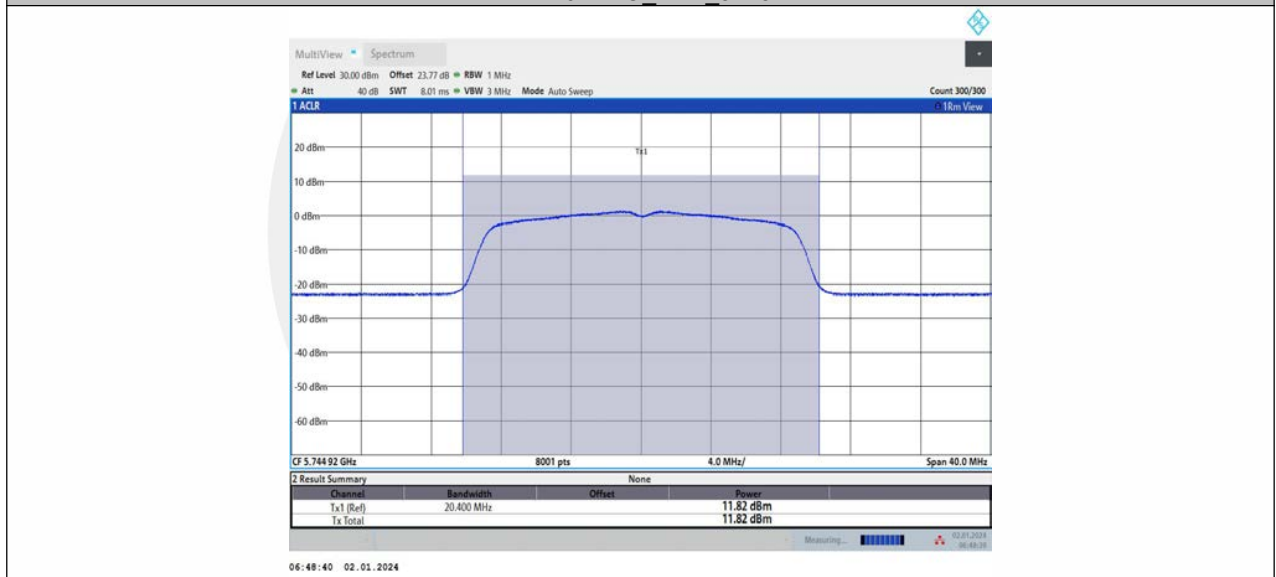


11N20MIMO\_Ant1\_5745

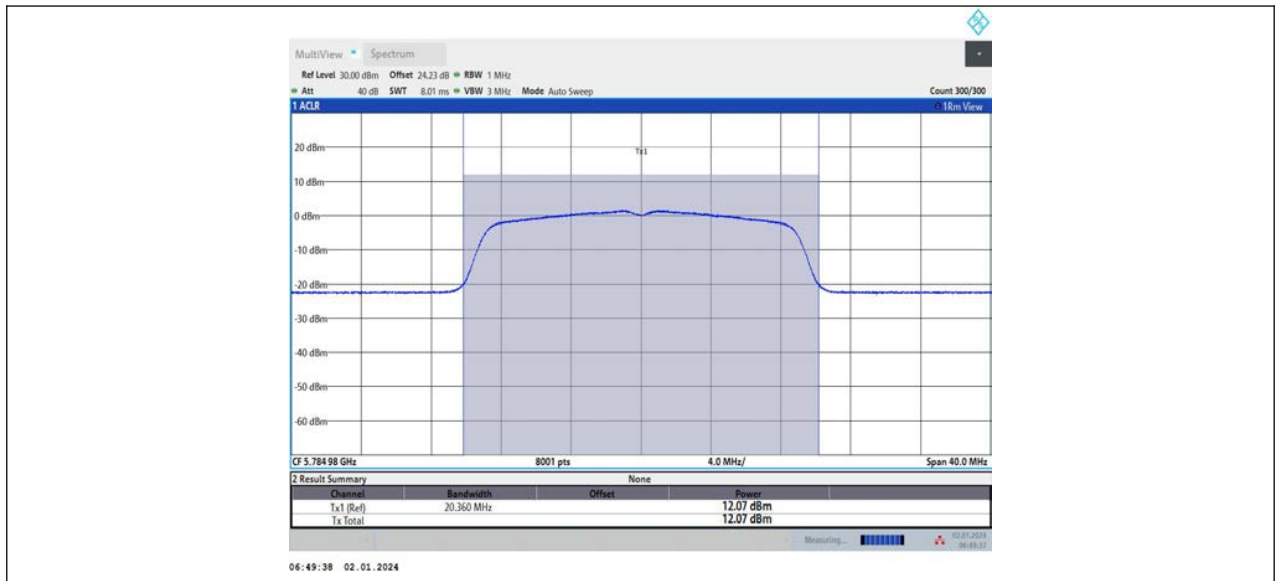




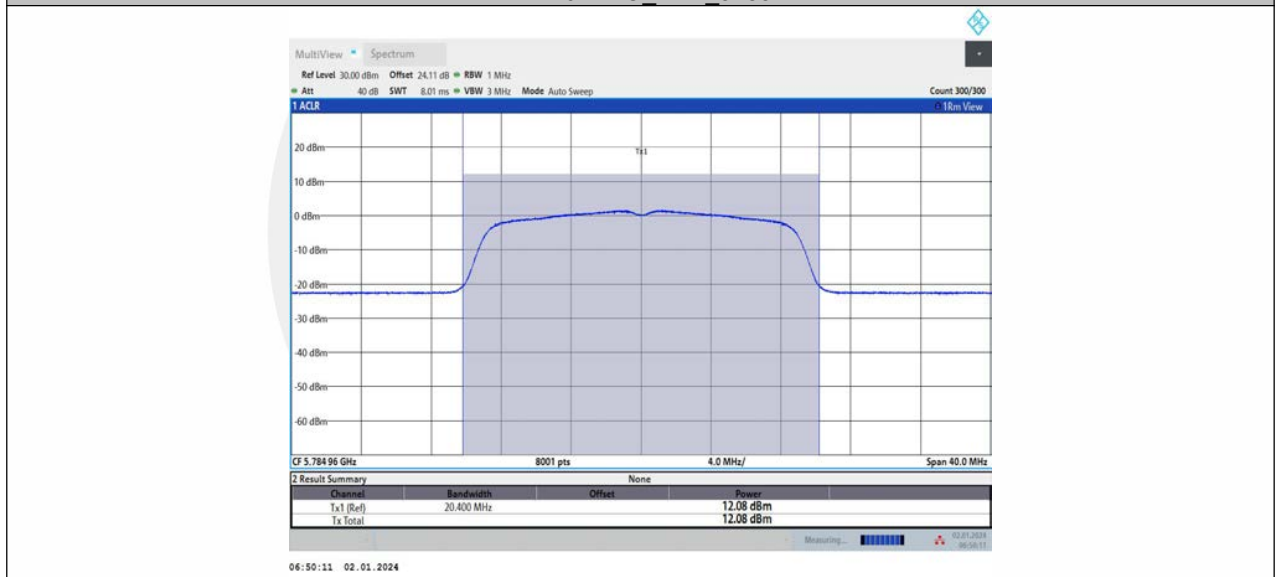
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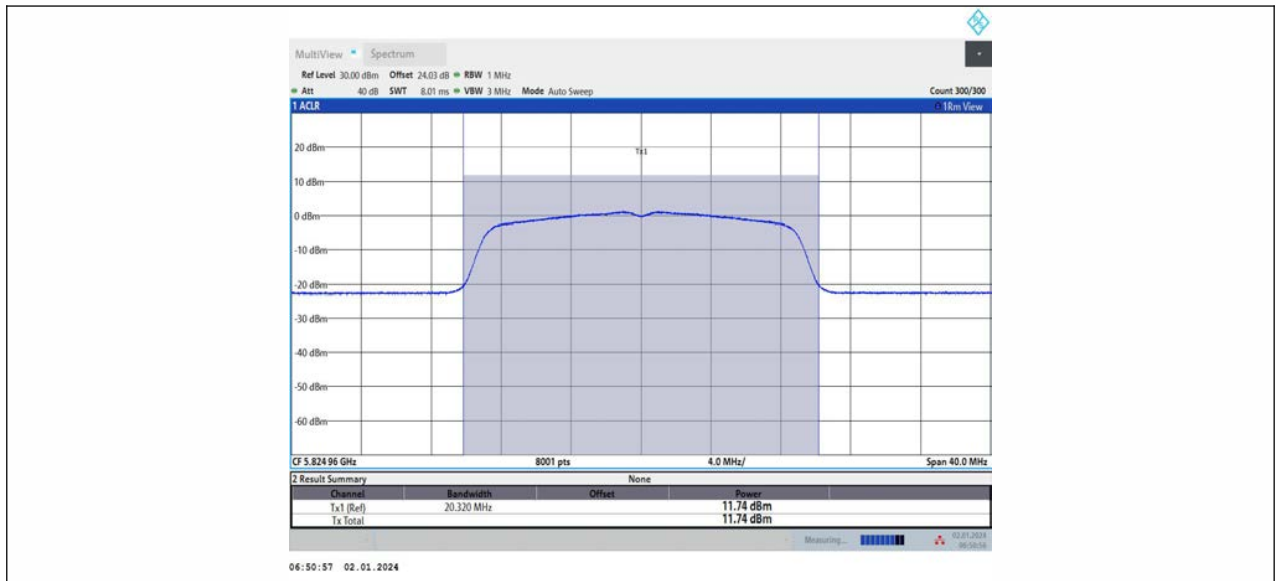
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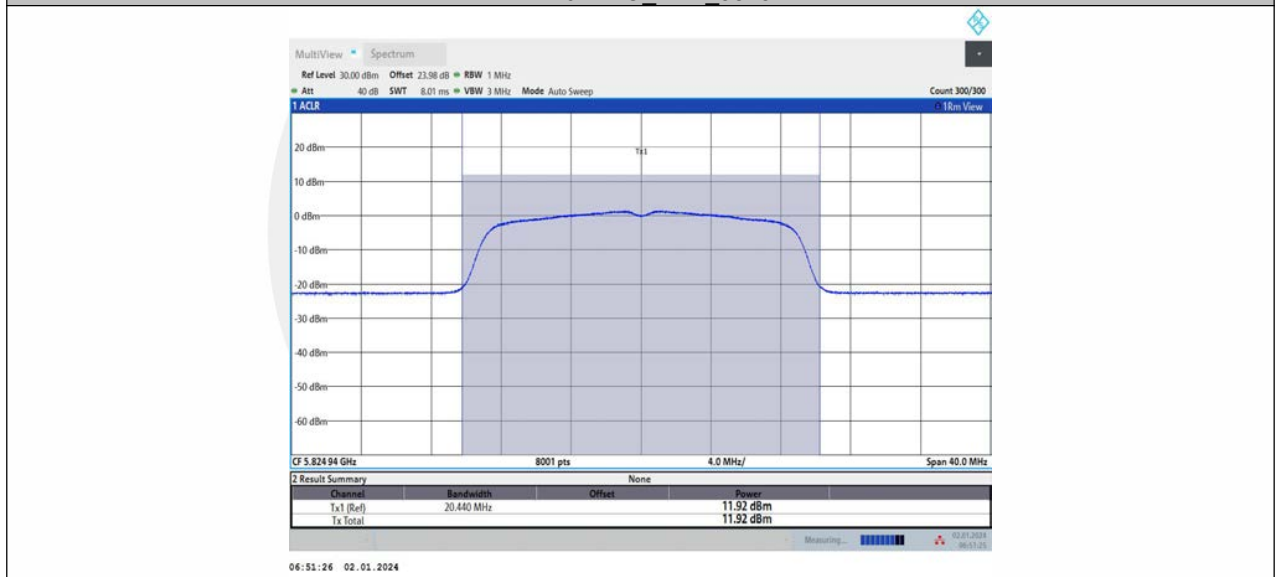
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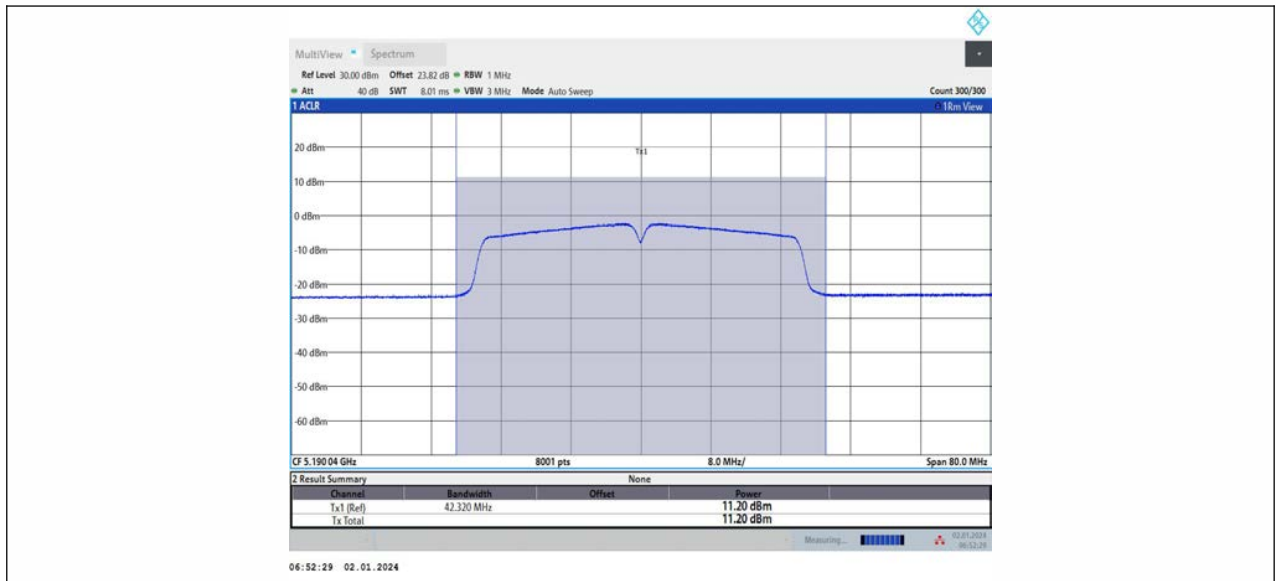
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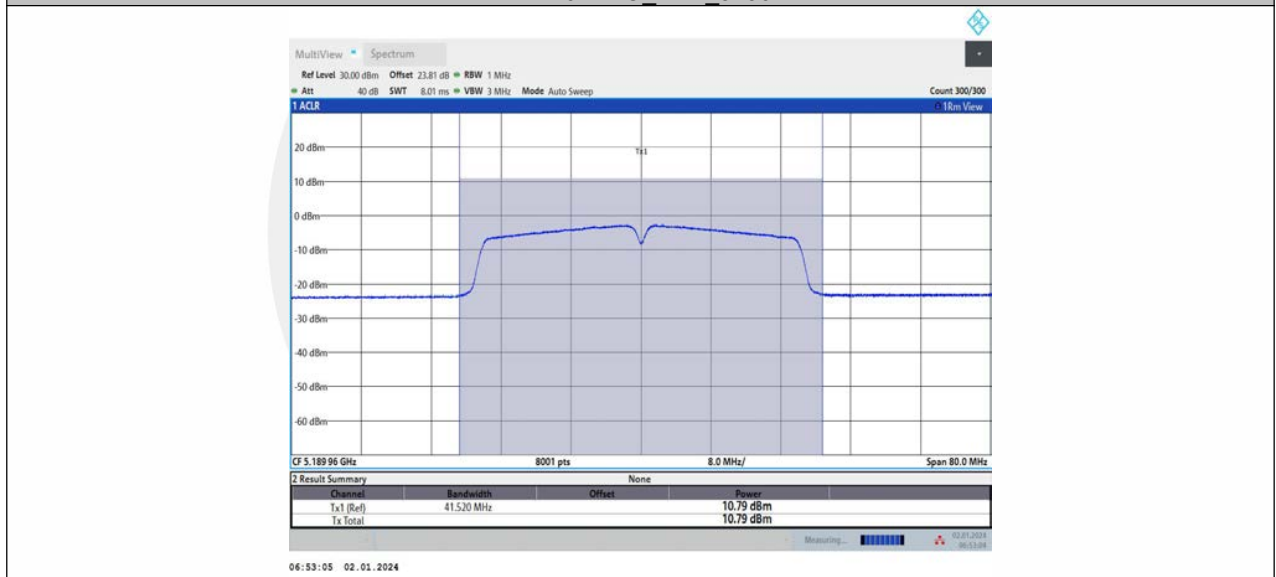
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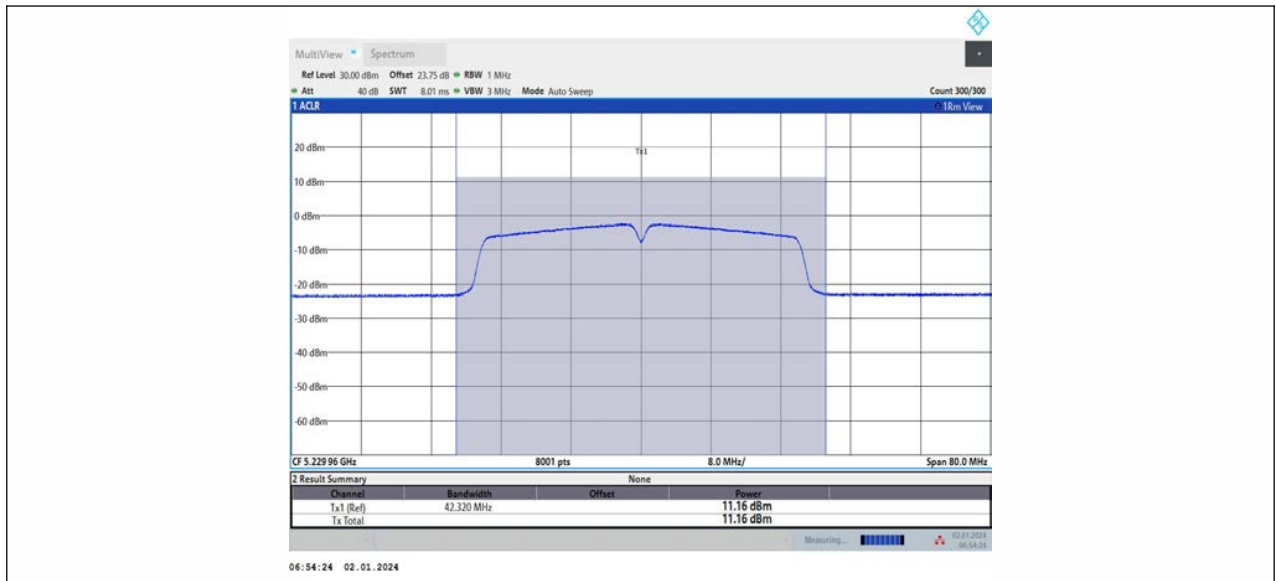
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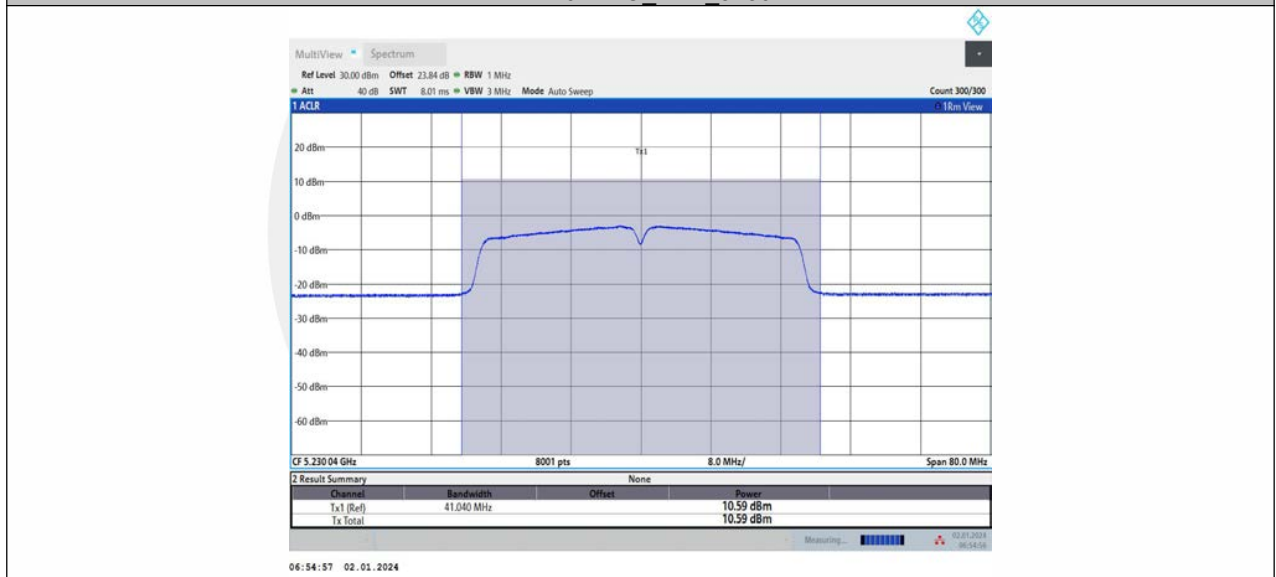
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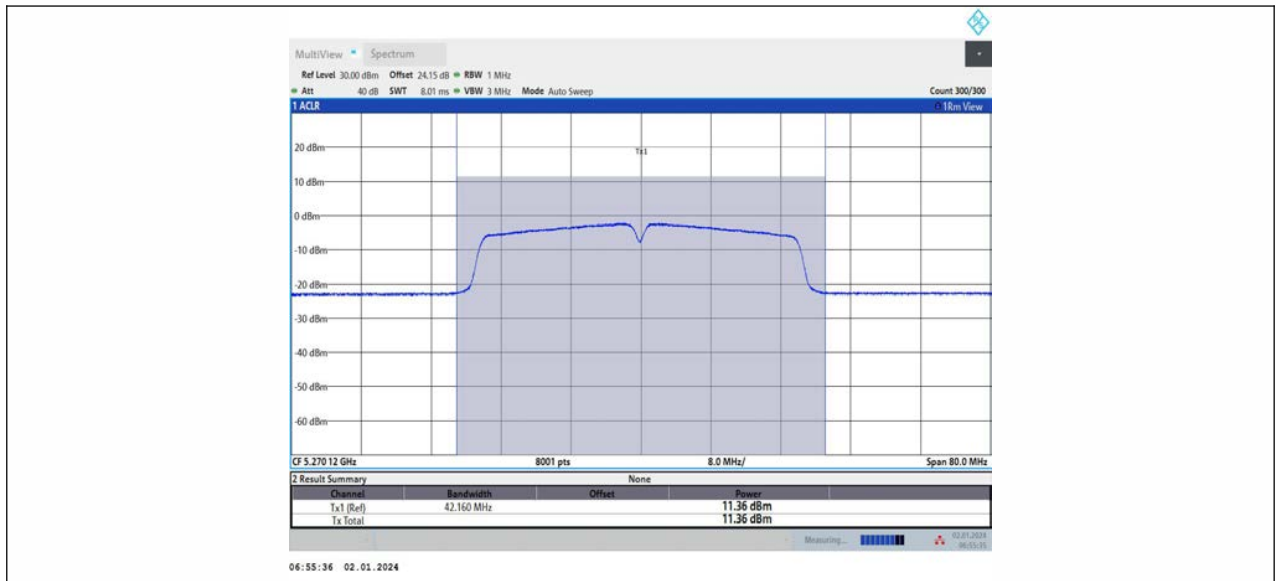
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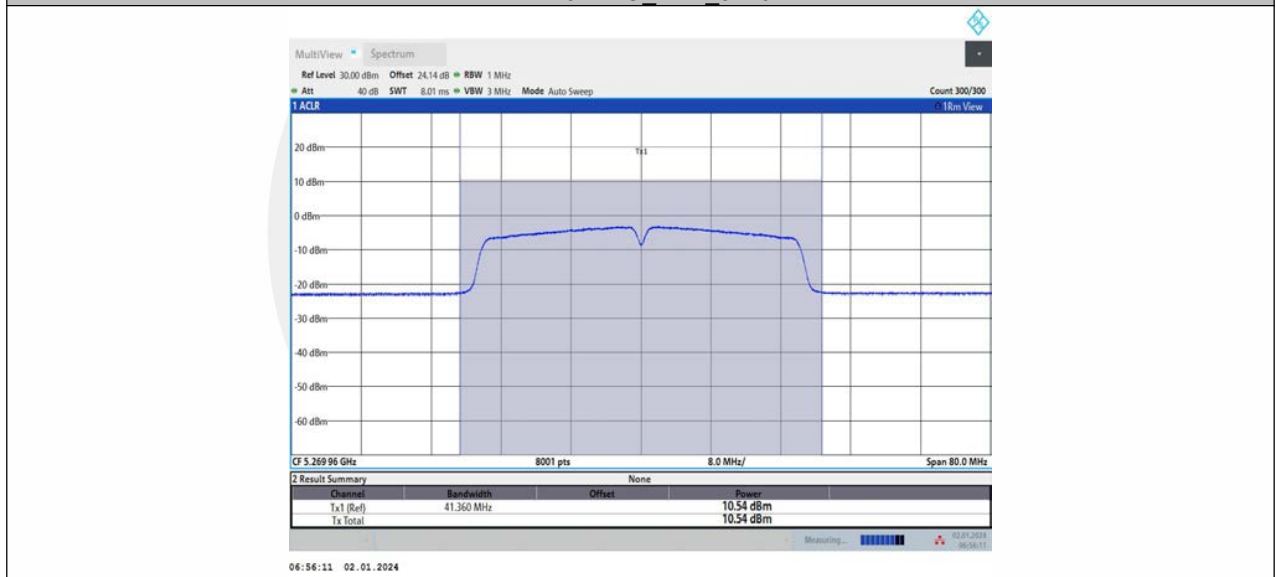
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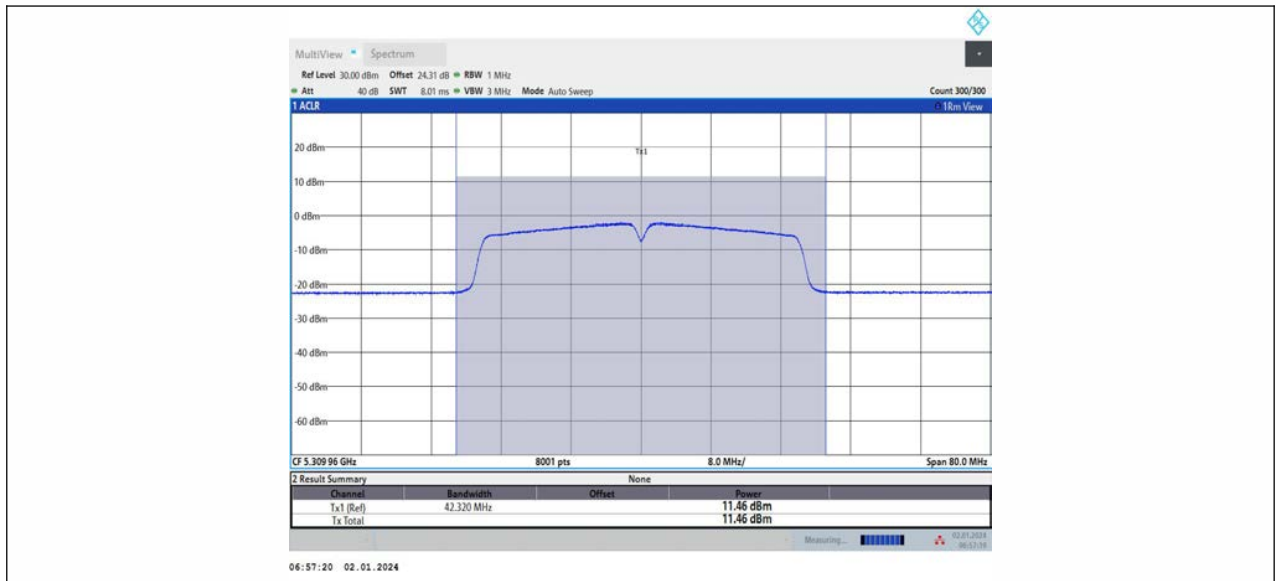
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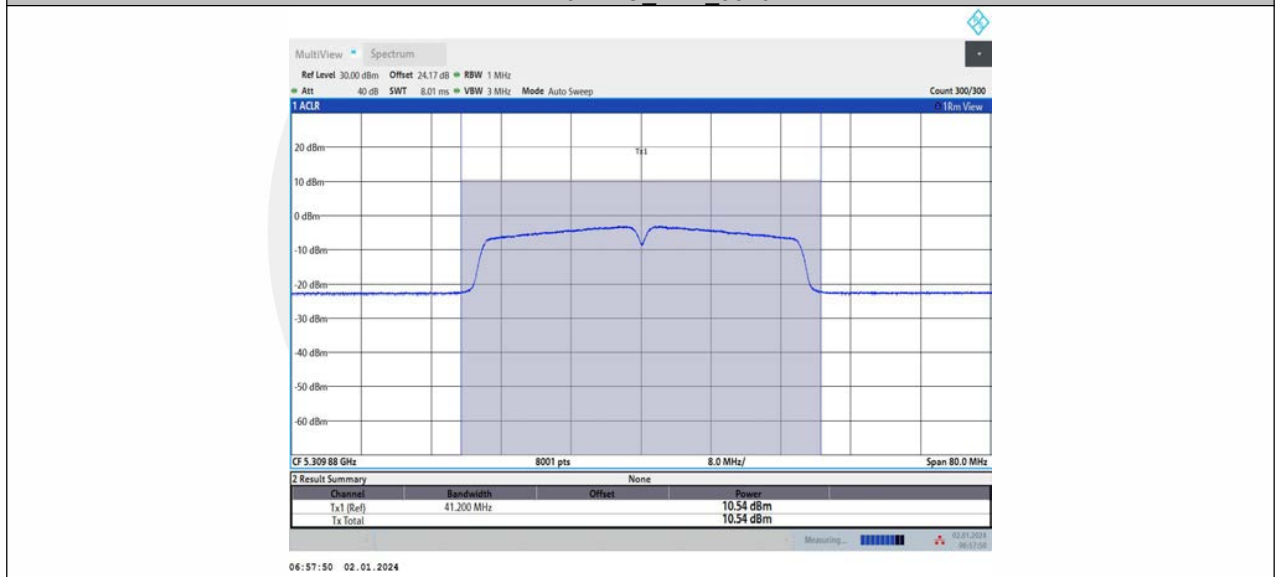
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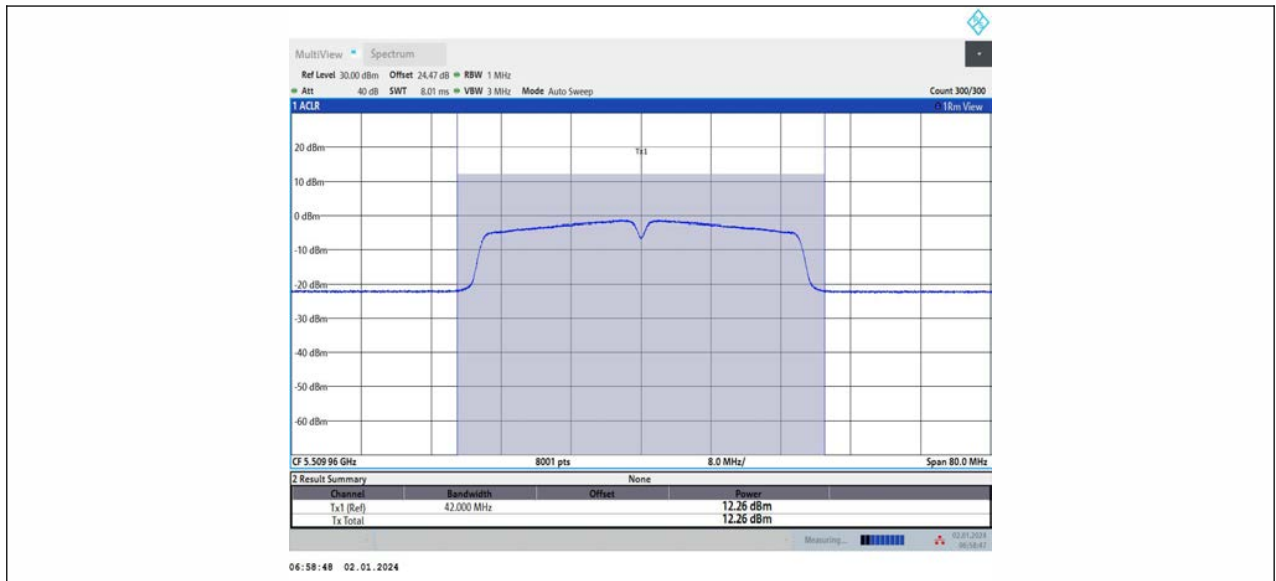
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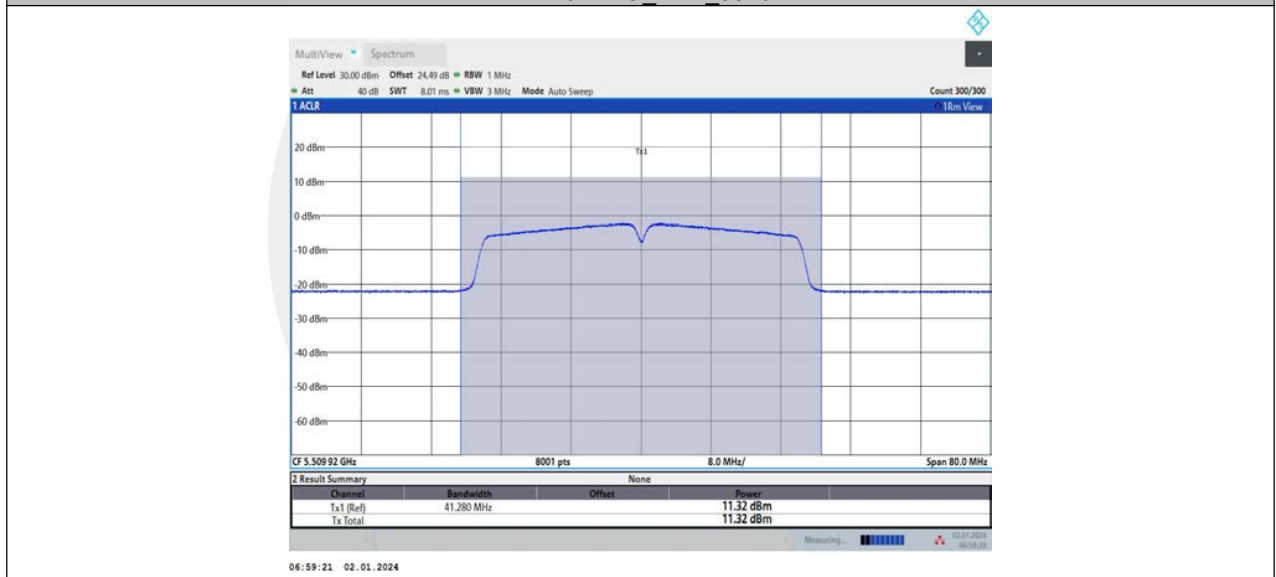
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11N40MIMO\_Ant1\_5510

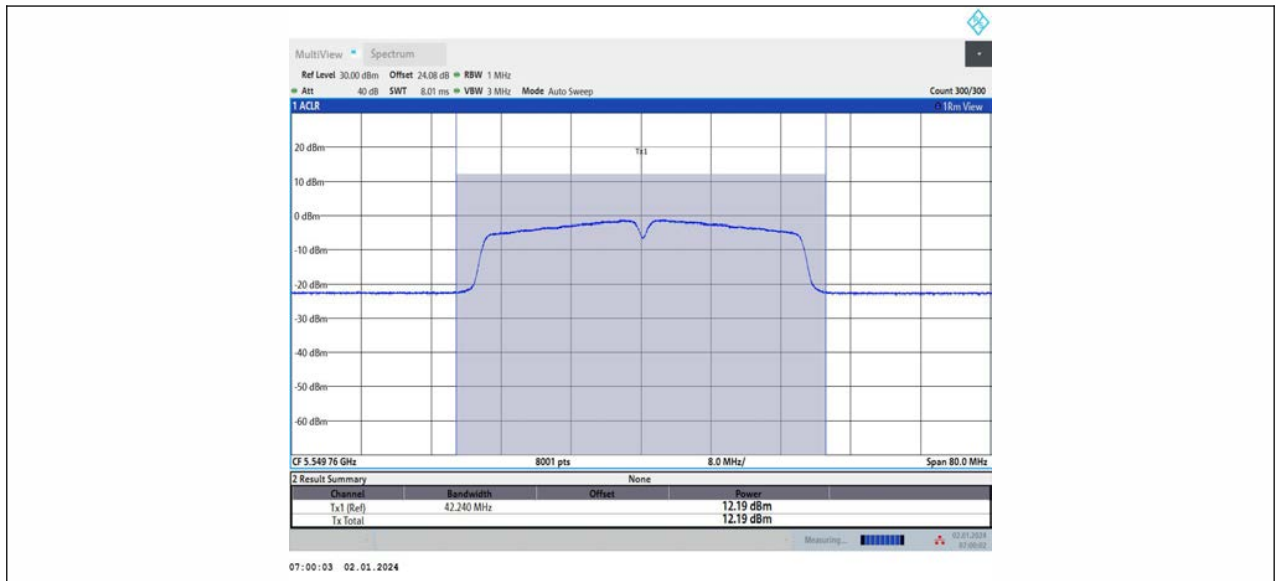


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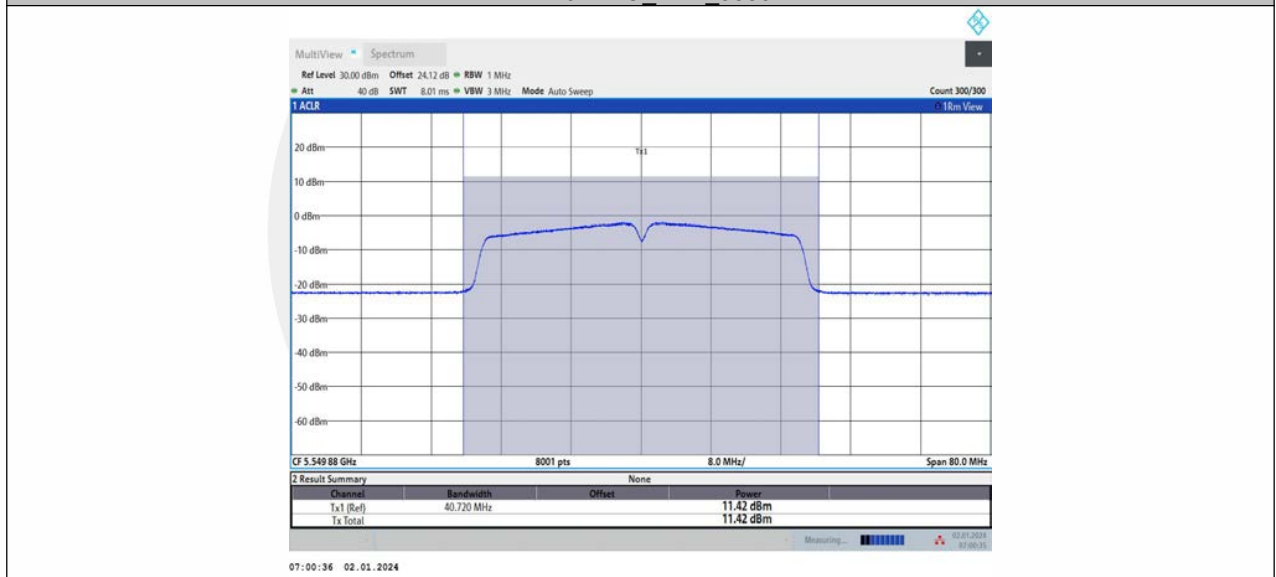


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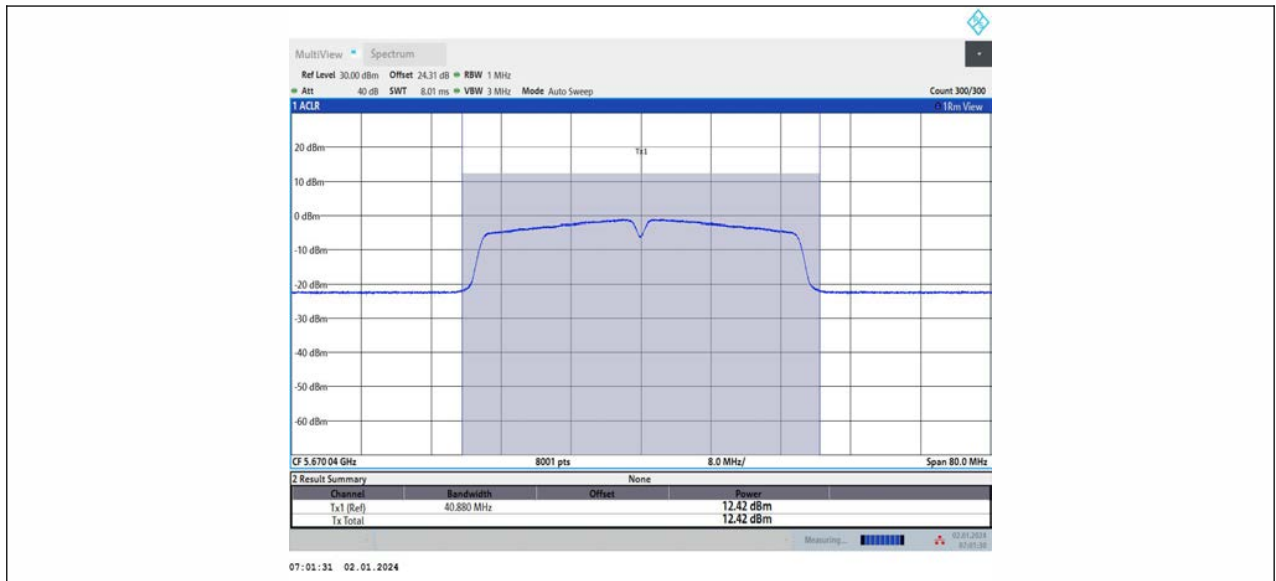




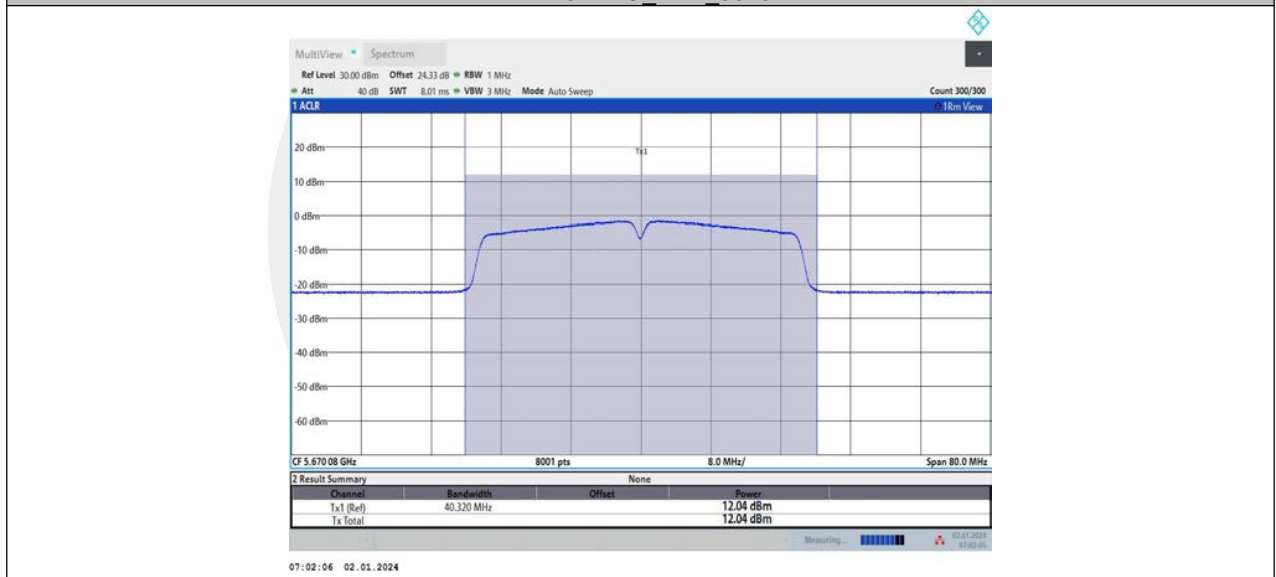
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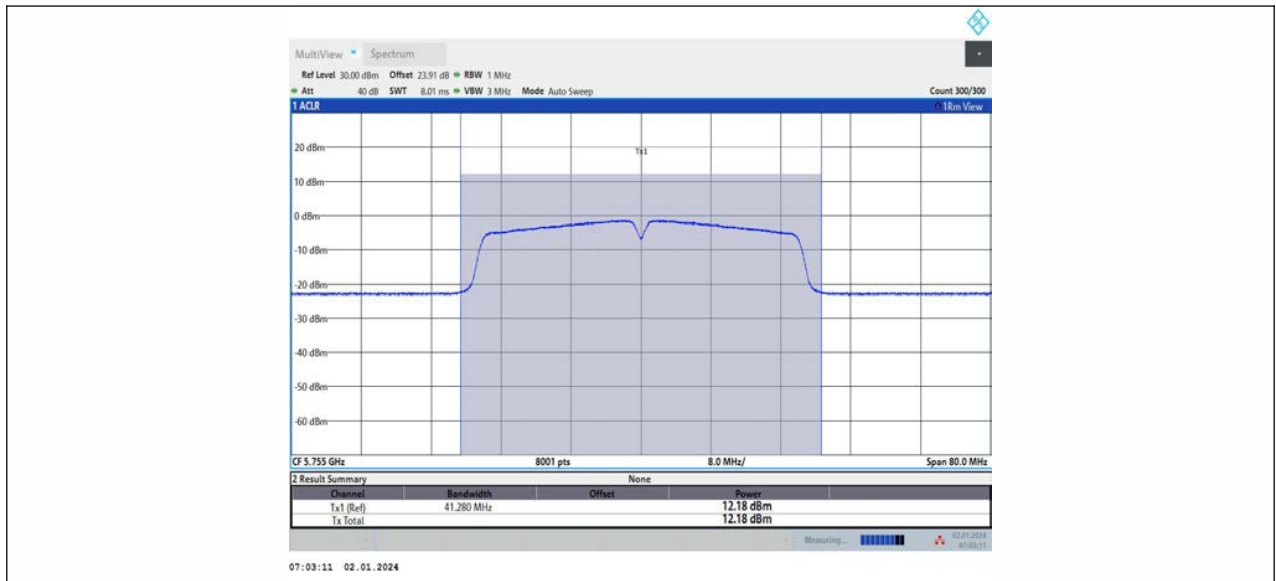
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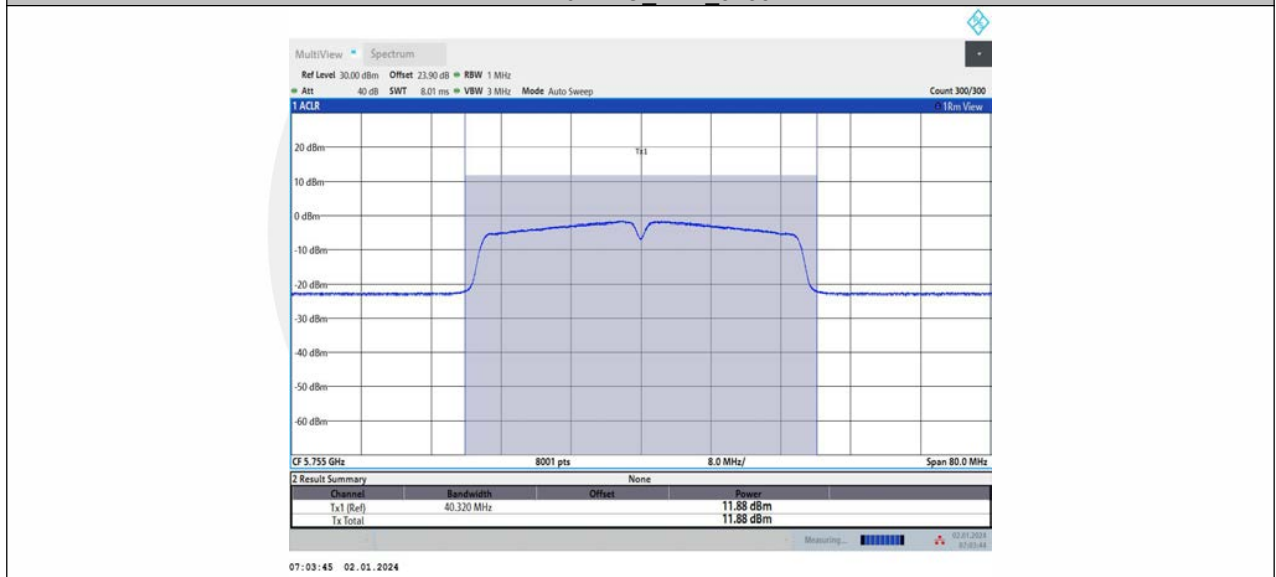
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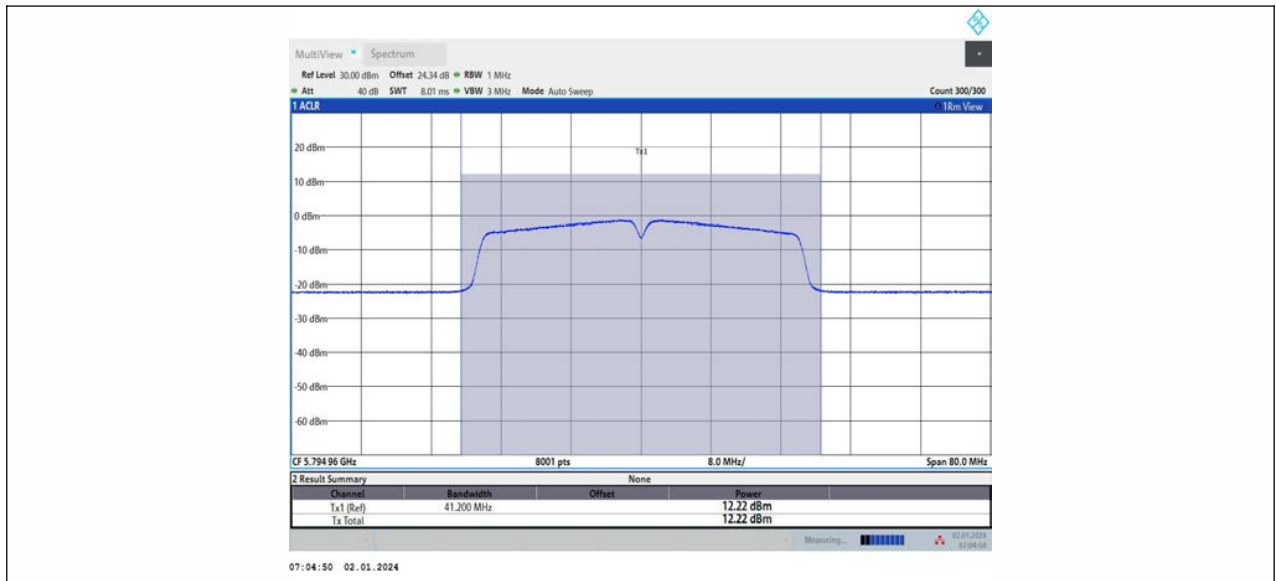
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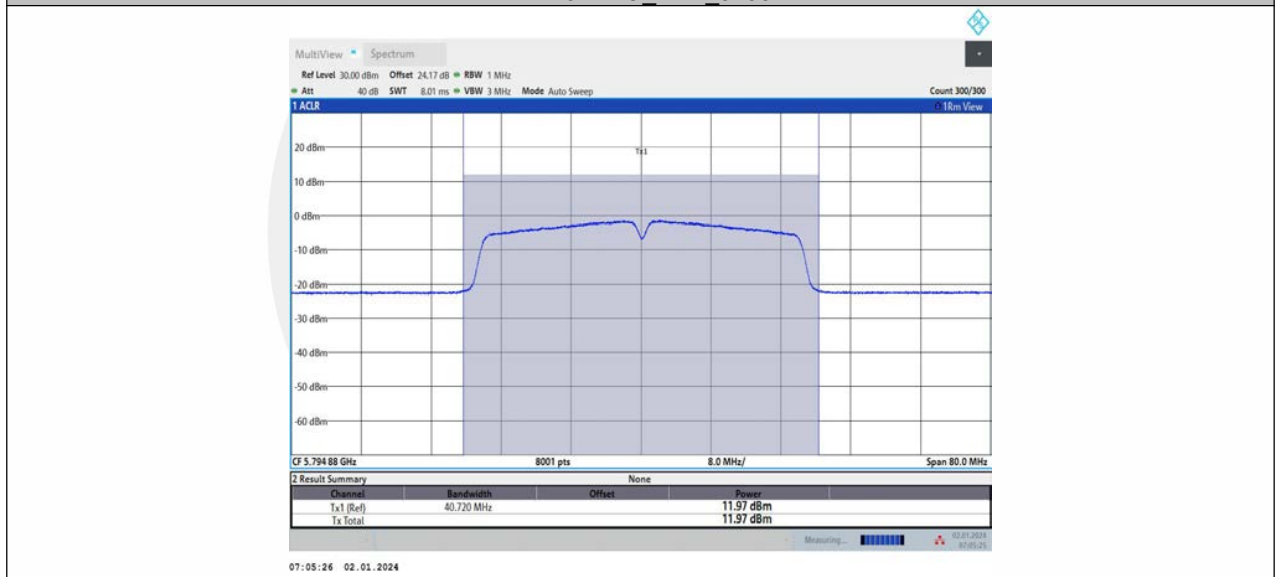
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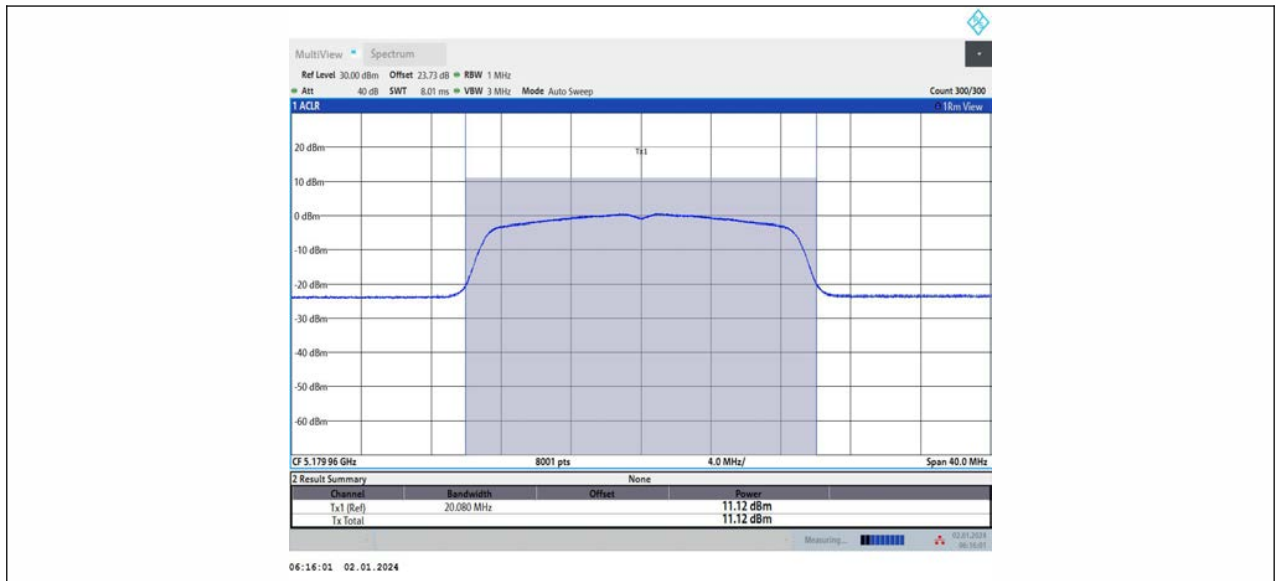
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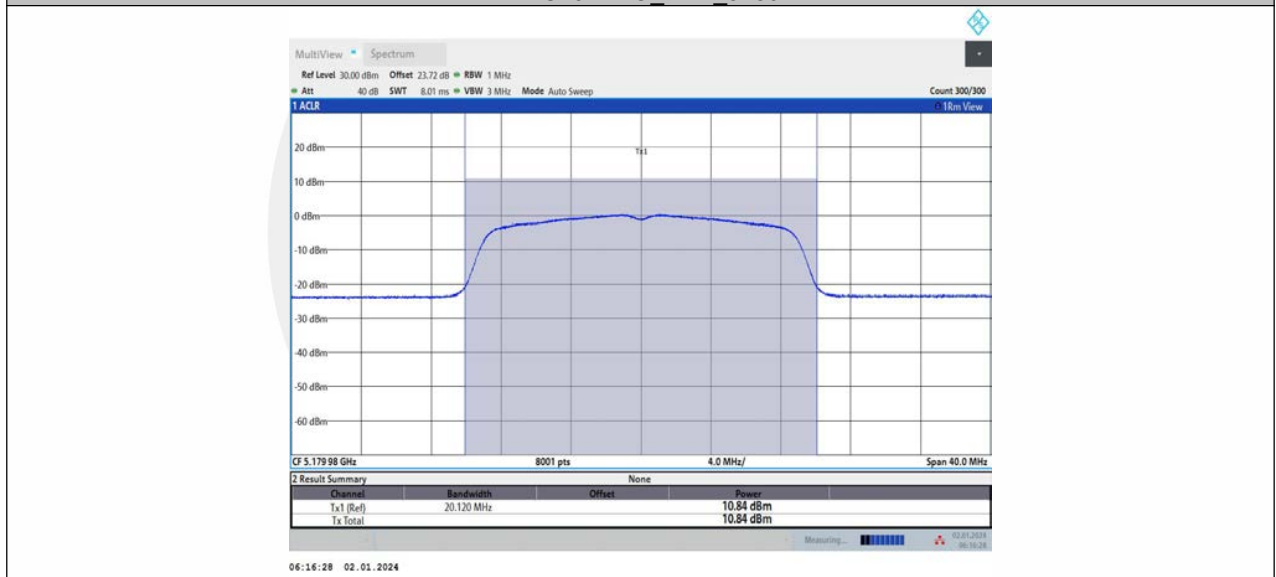
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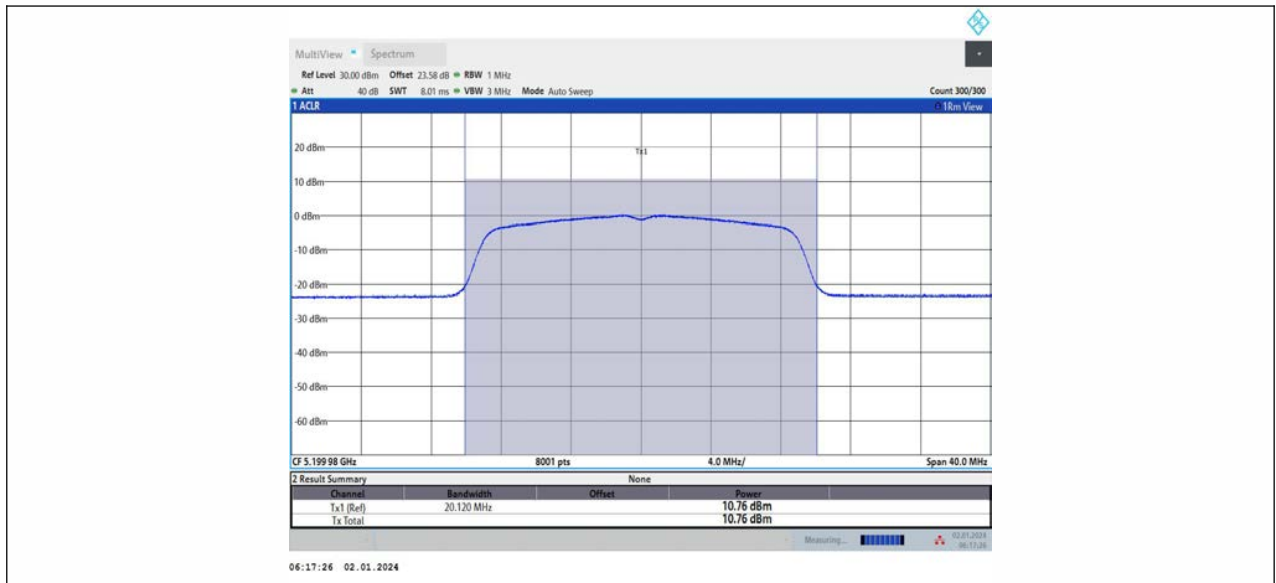
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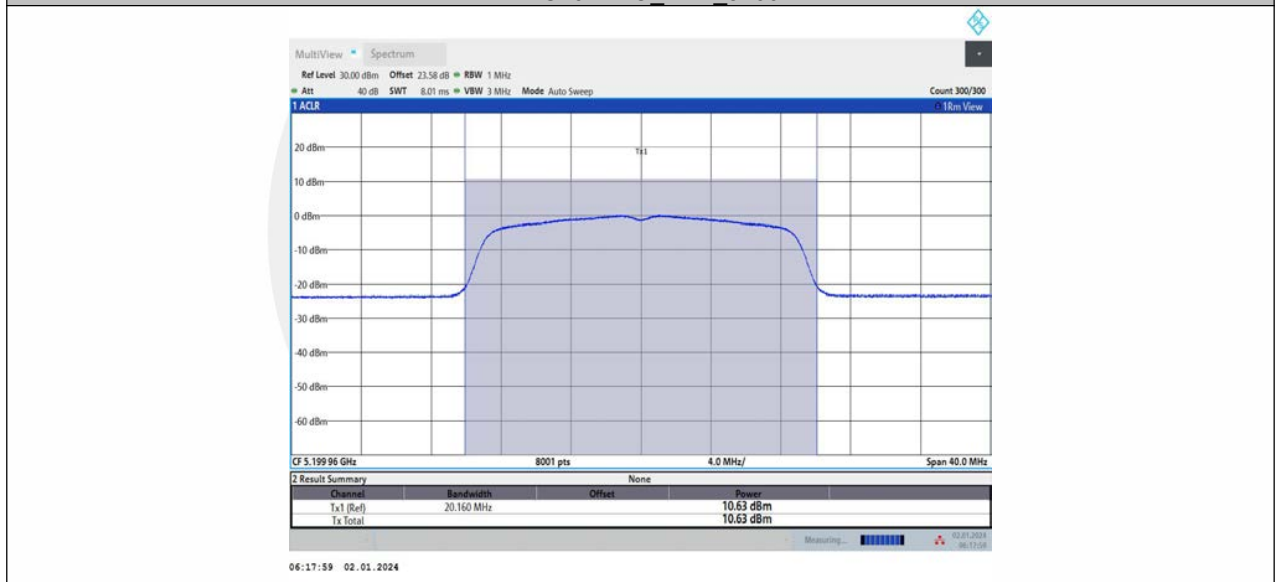
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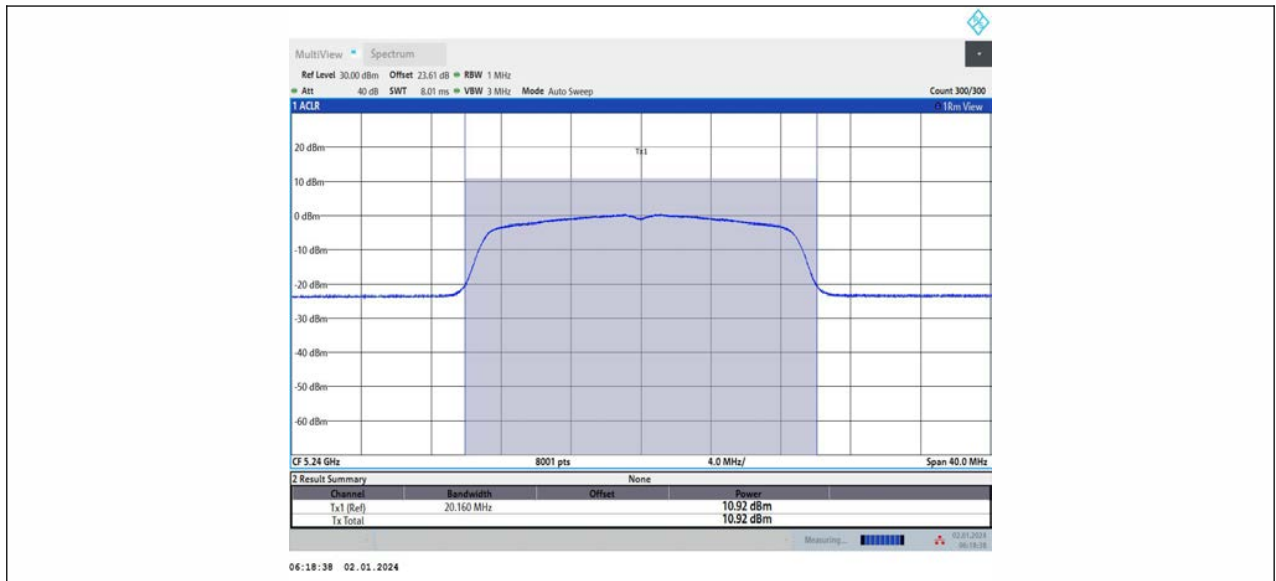
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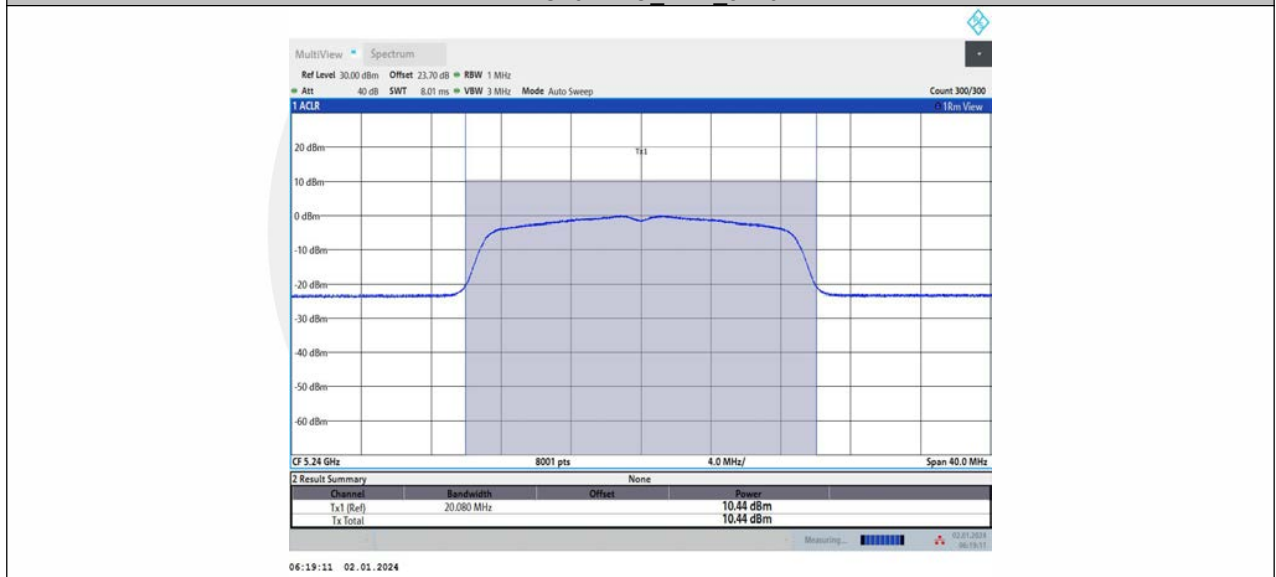
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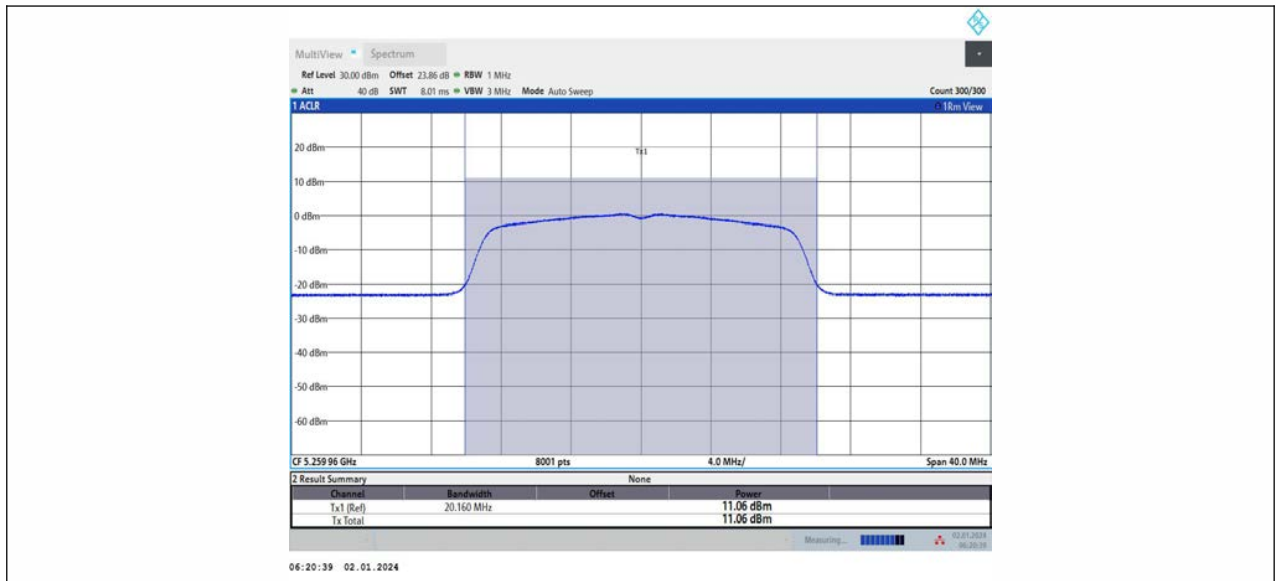
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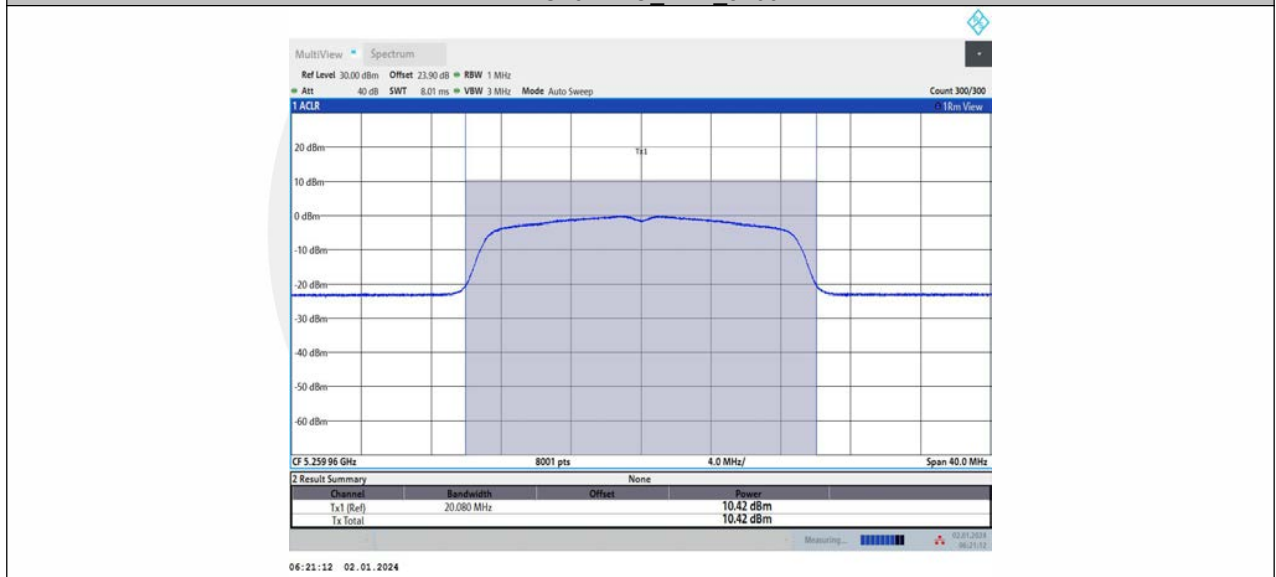
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11AC20MIMO\_Ant1\_5260

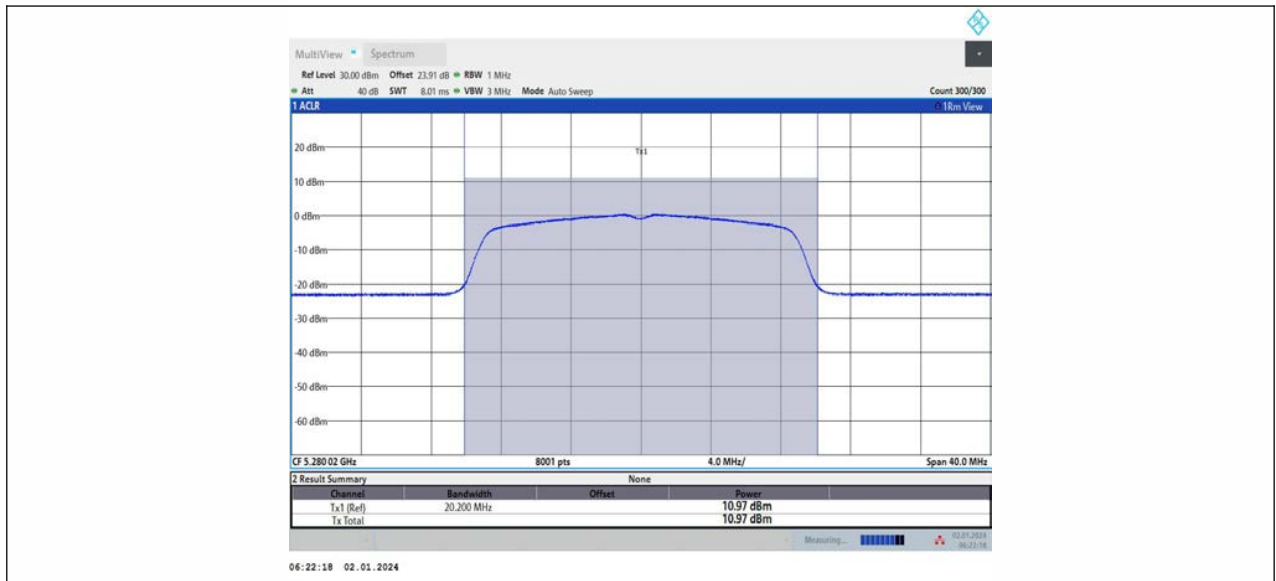


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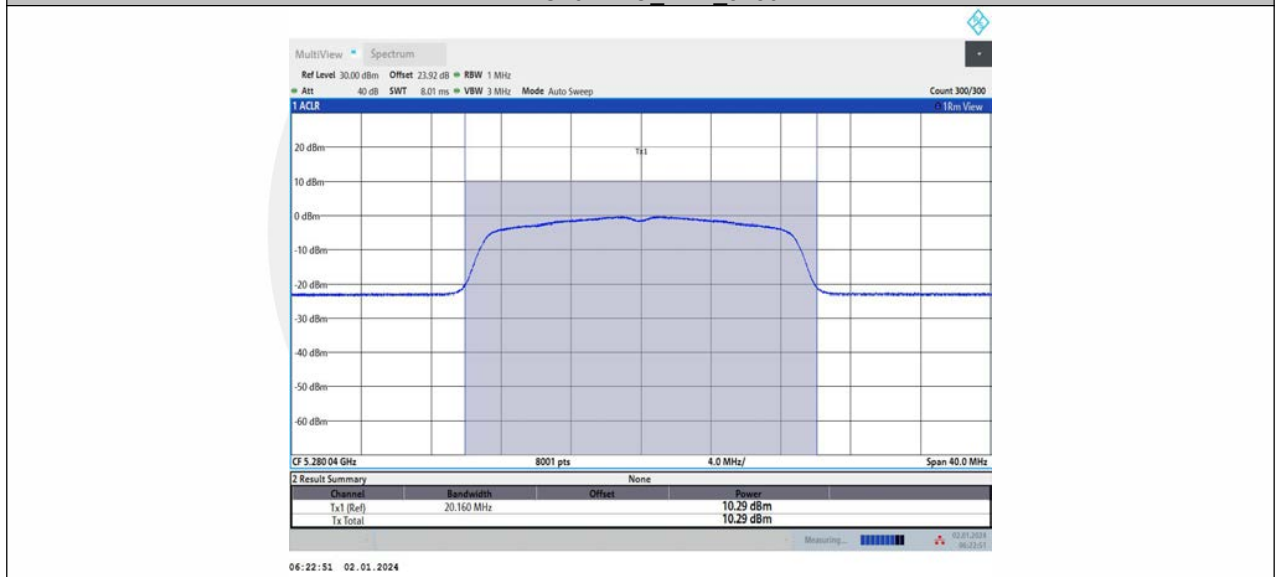


11AC20MIMO\_Ant1\_5280

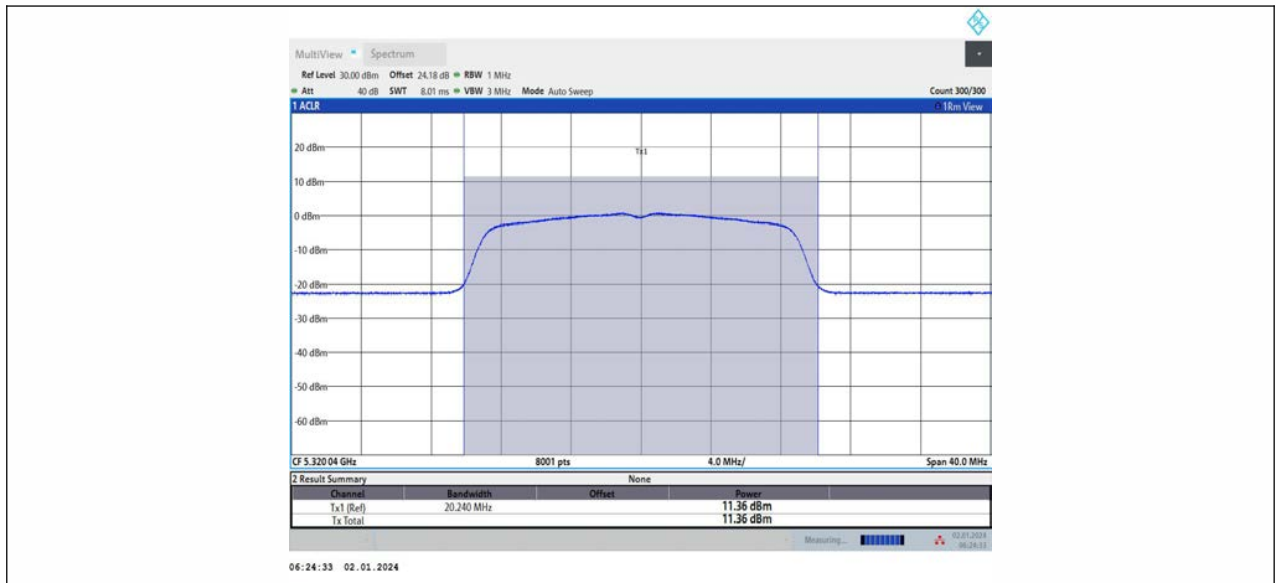




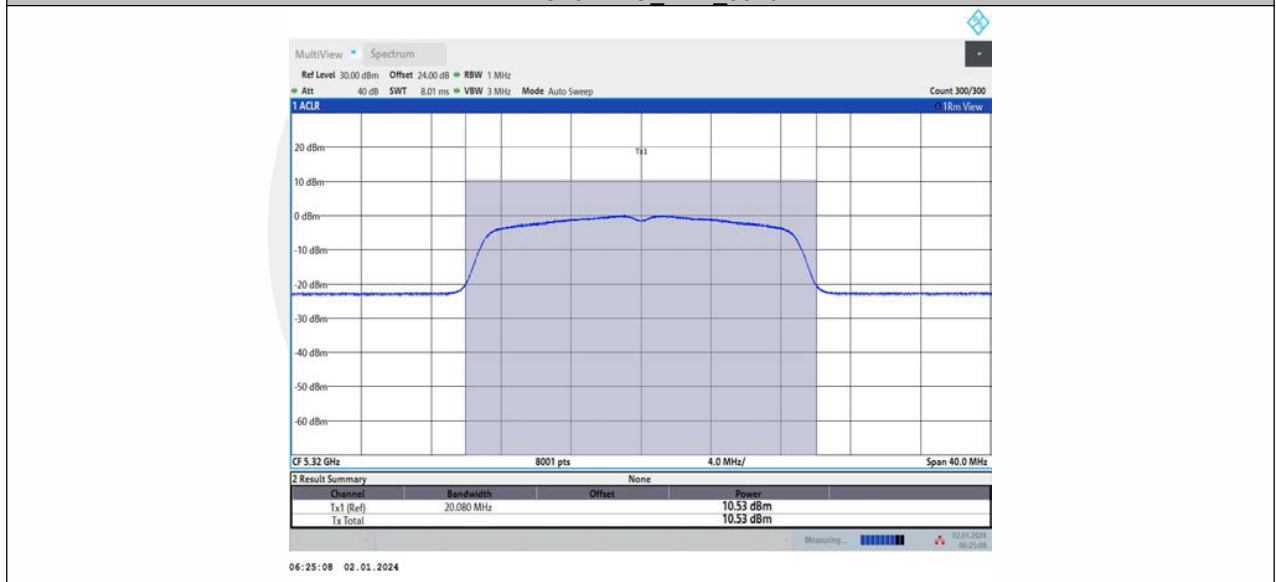
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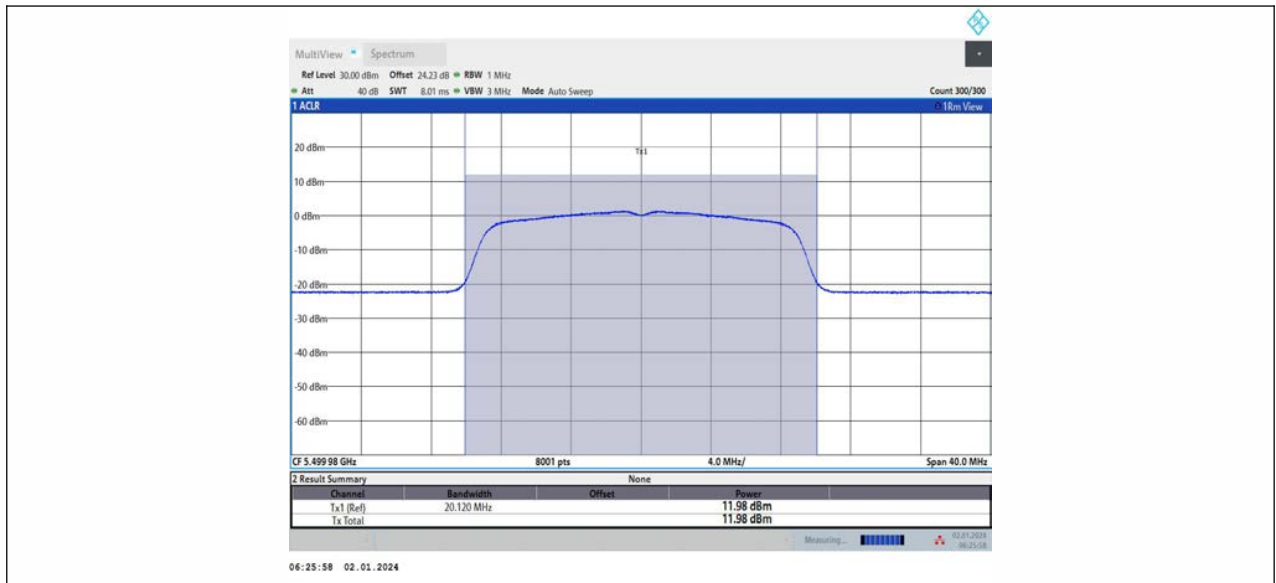
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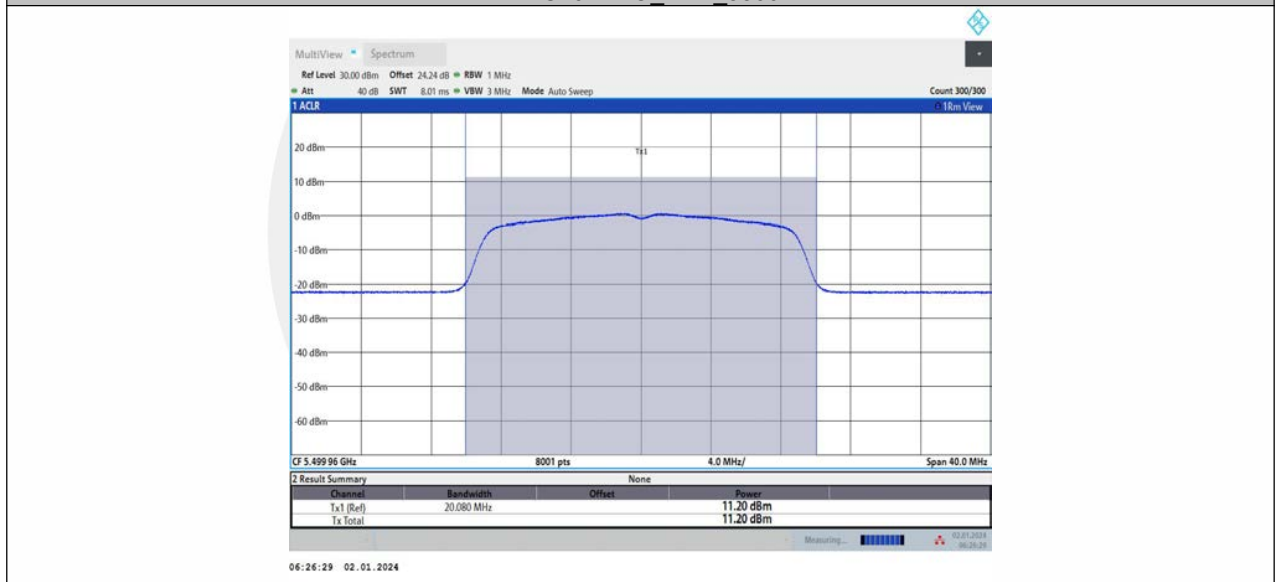
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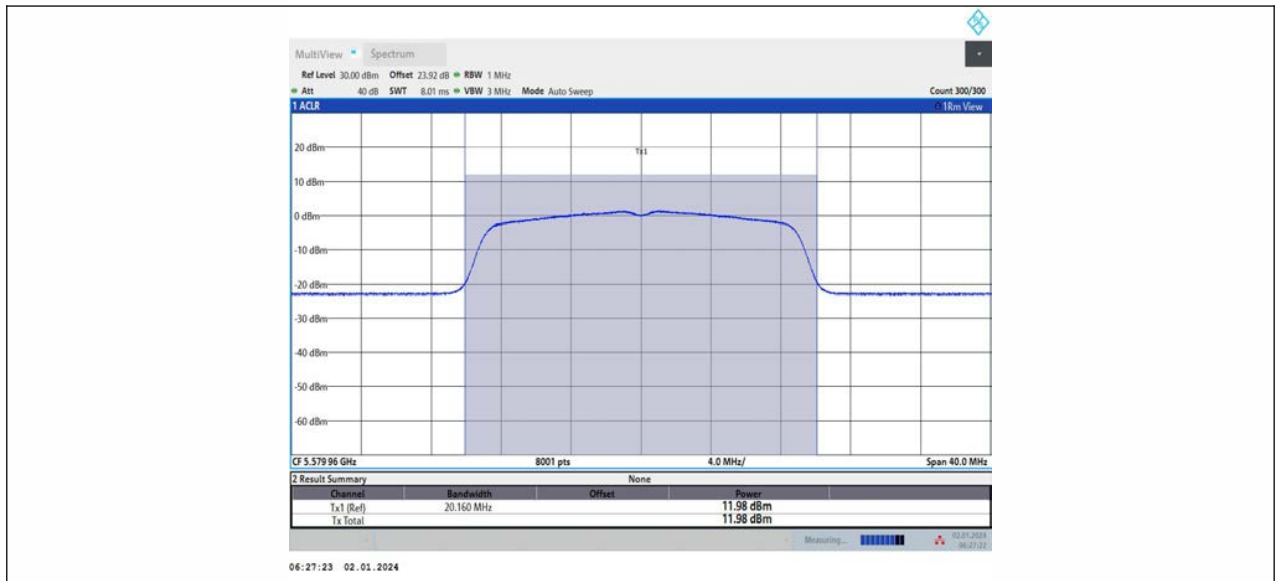
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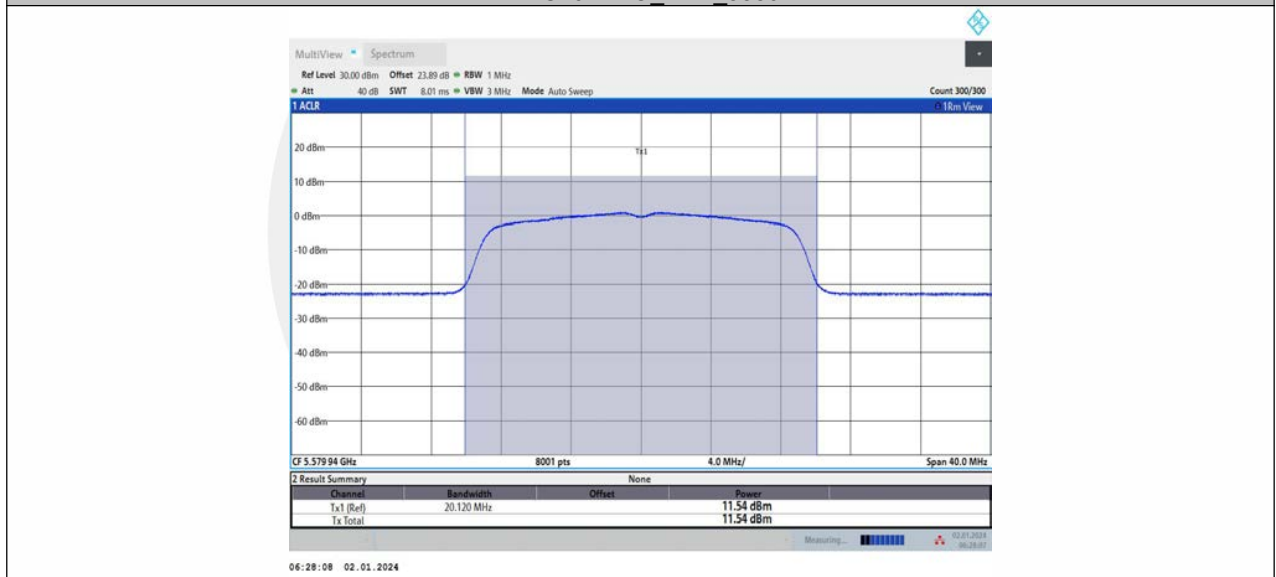
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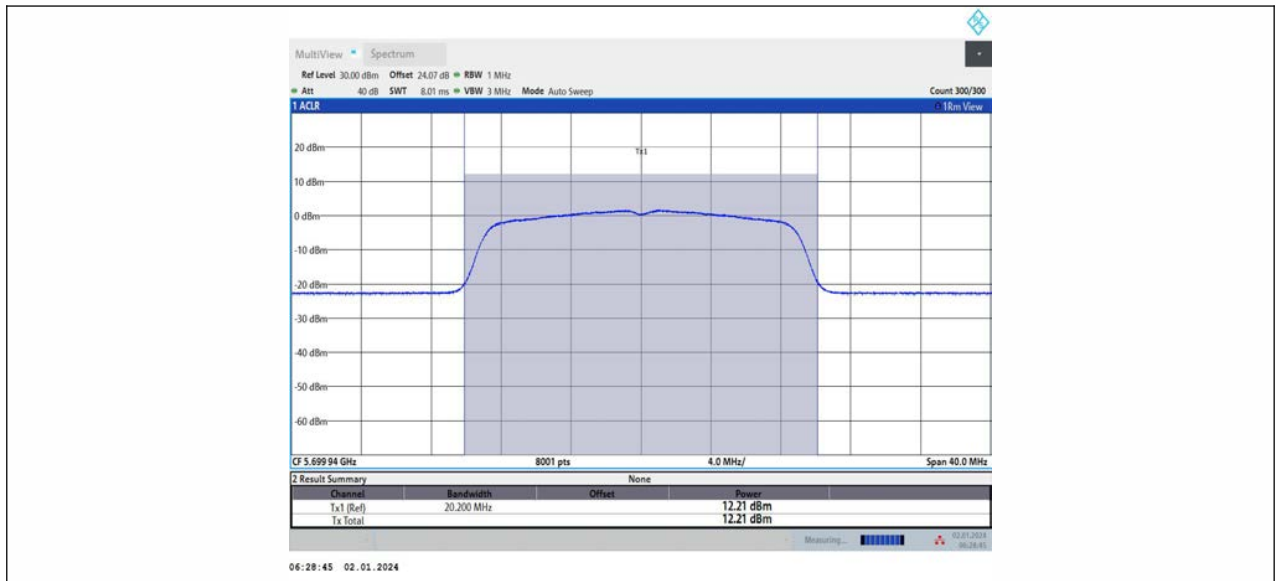
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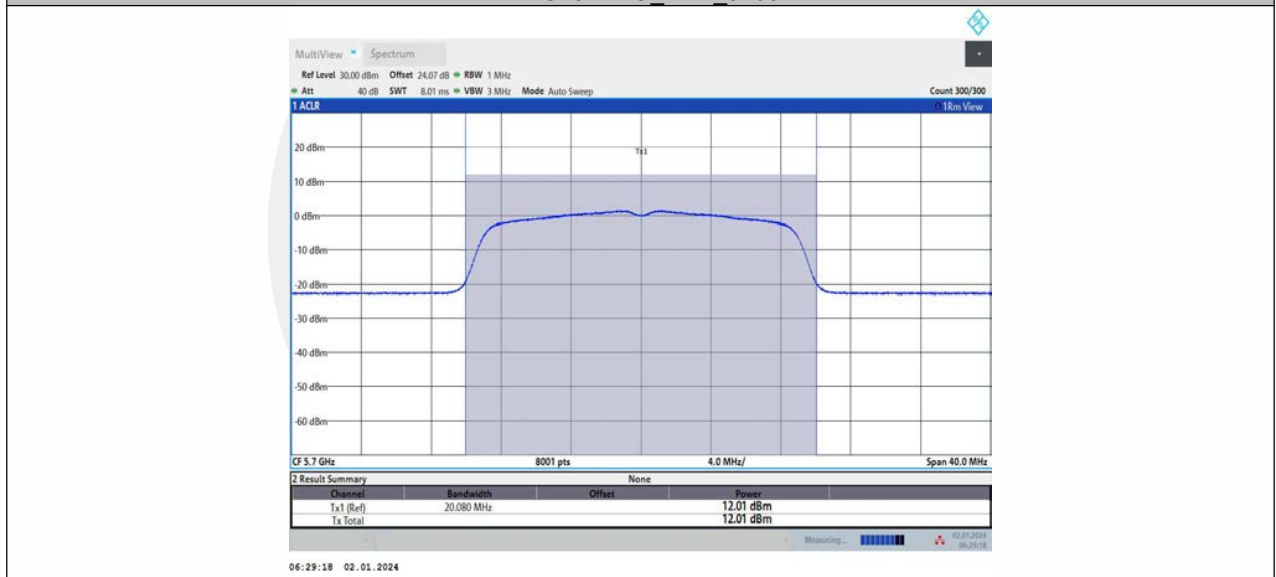
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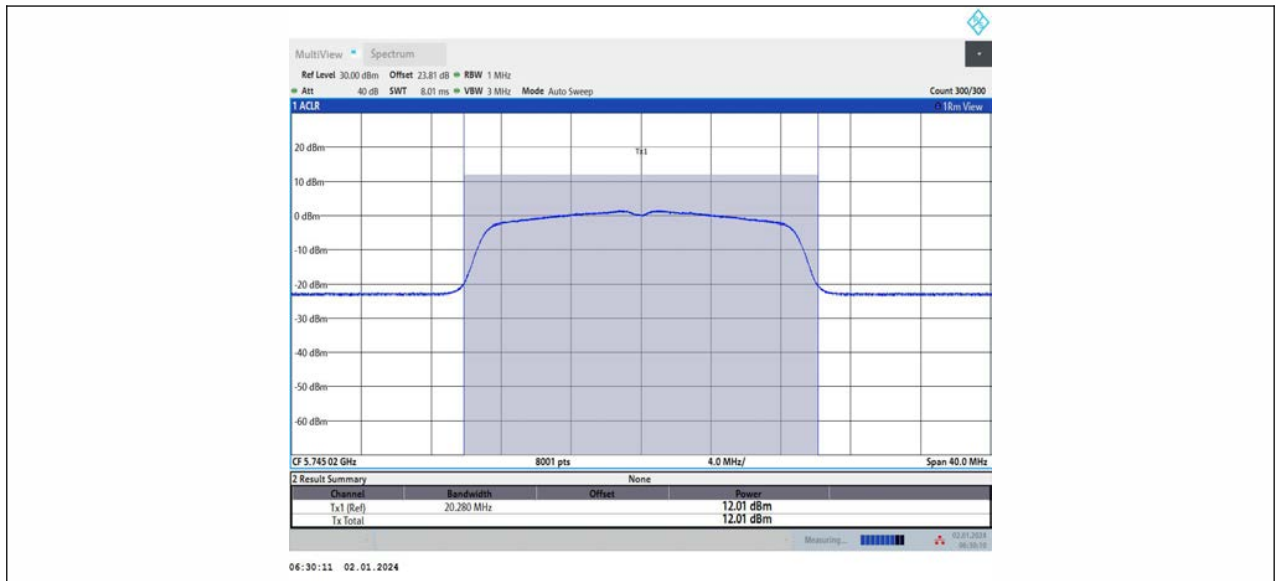
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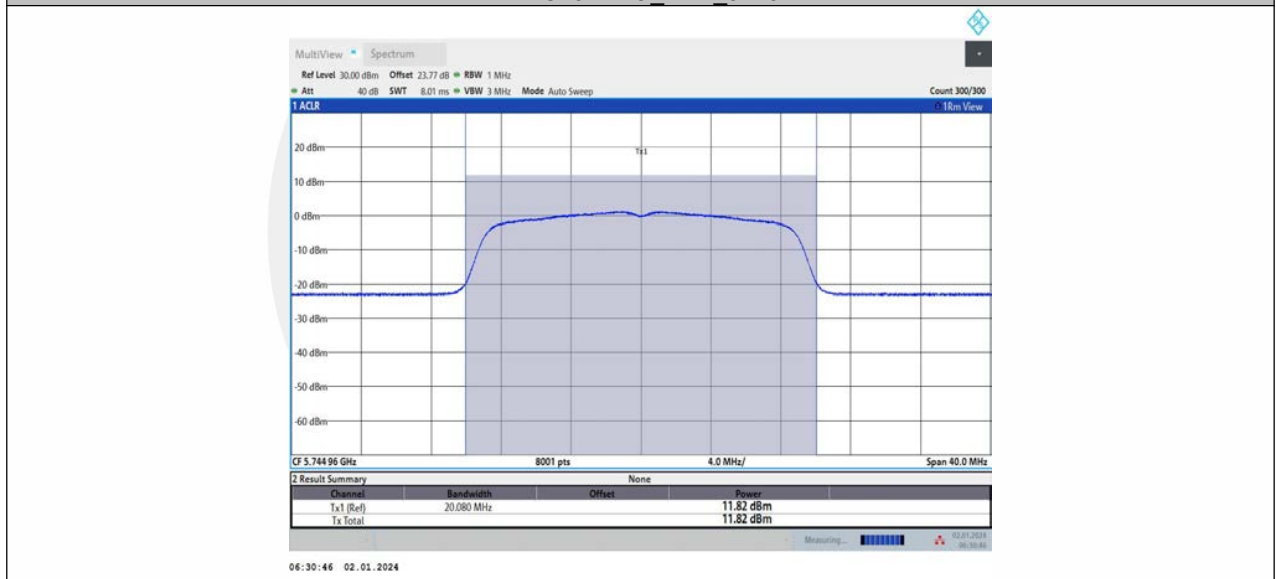
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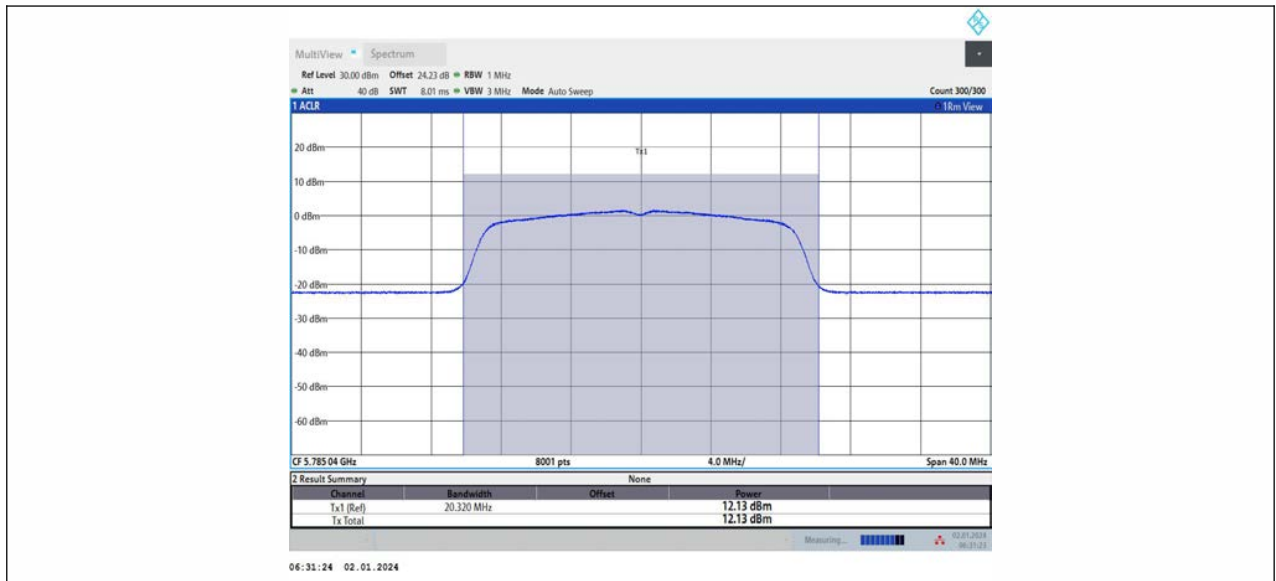
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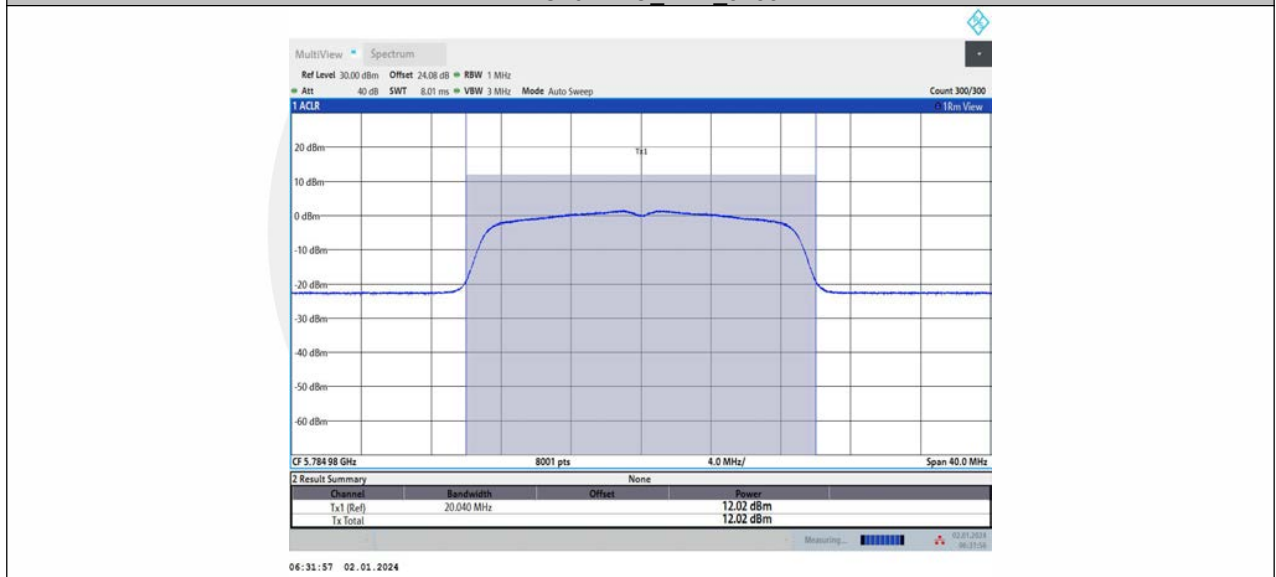
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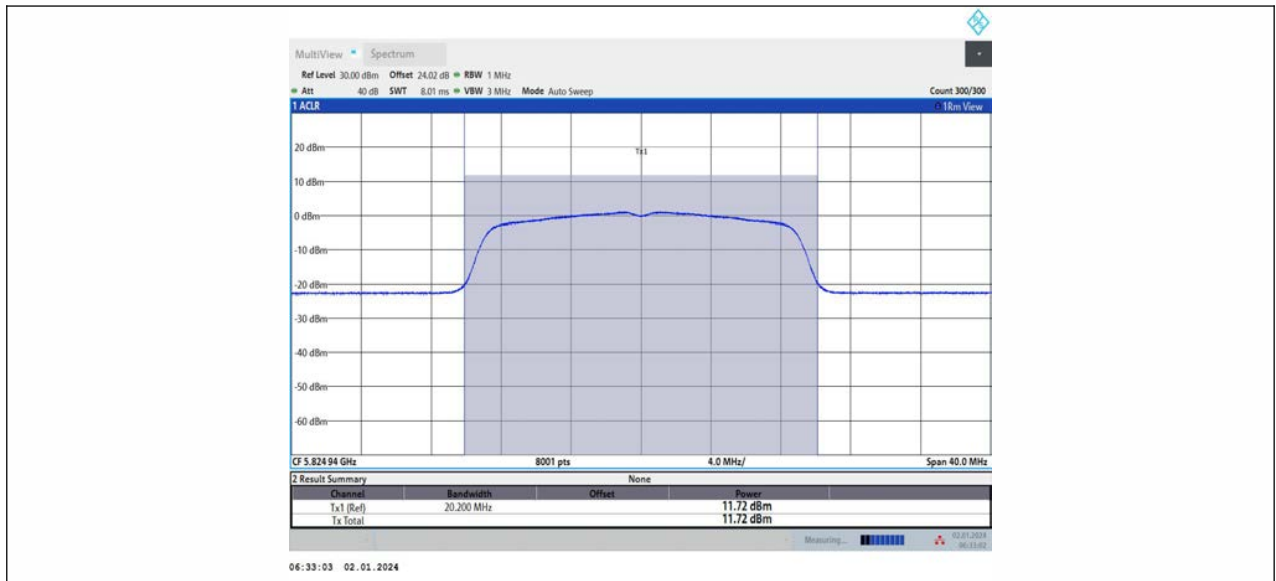
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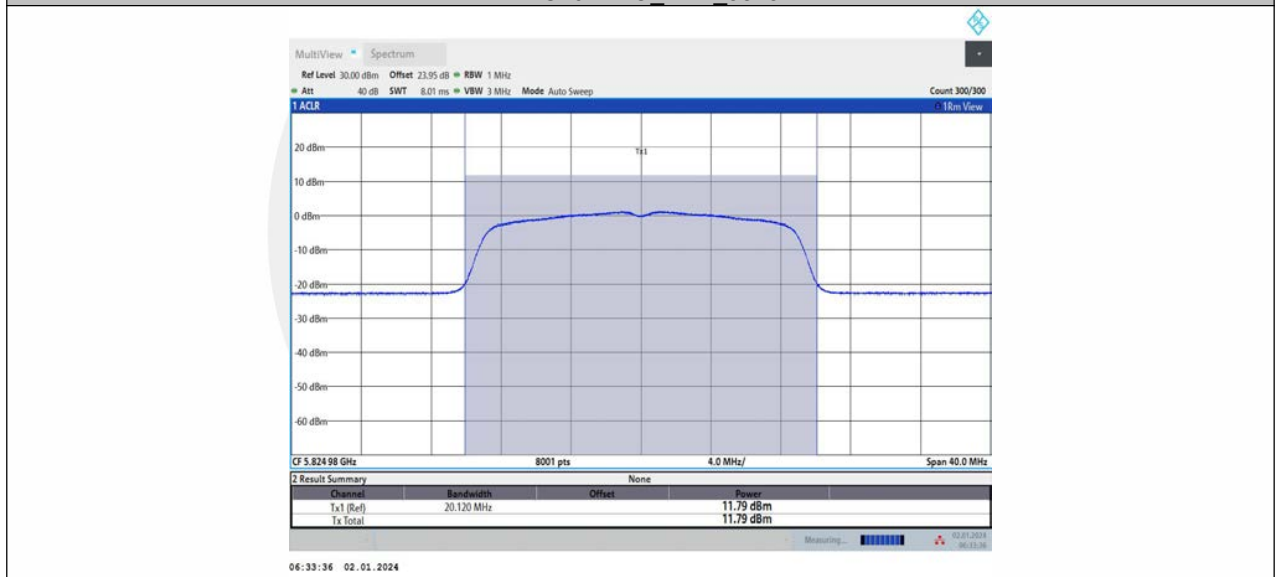
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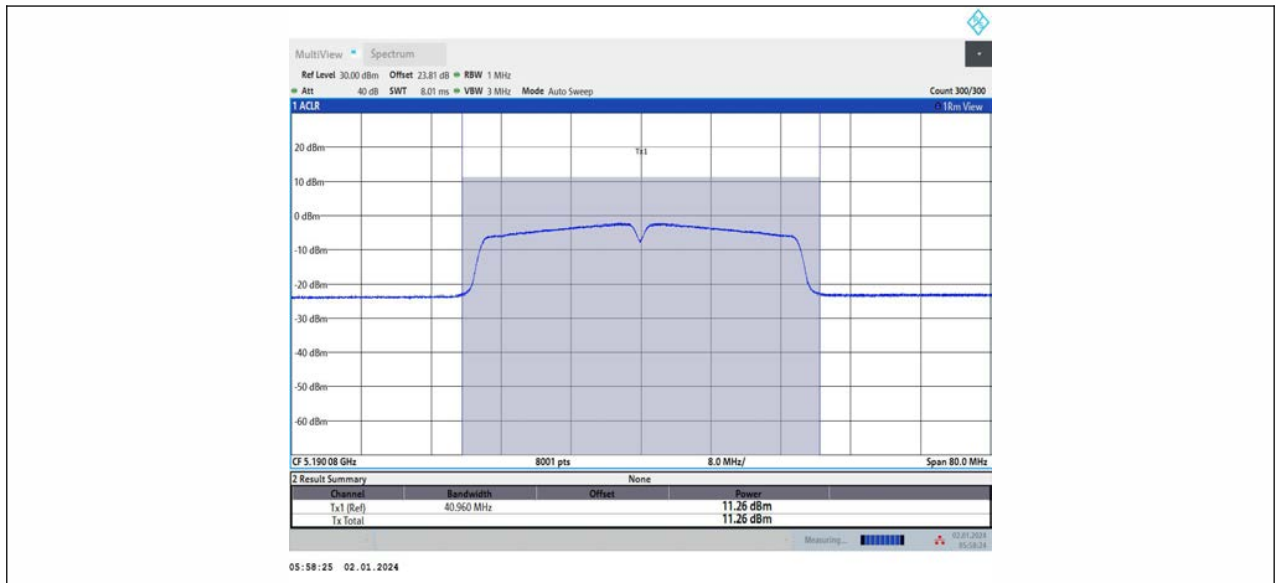


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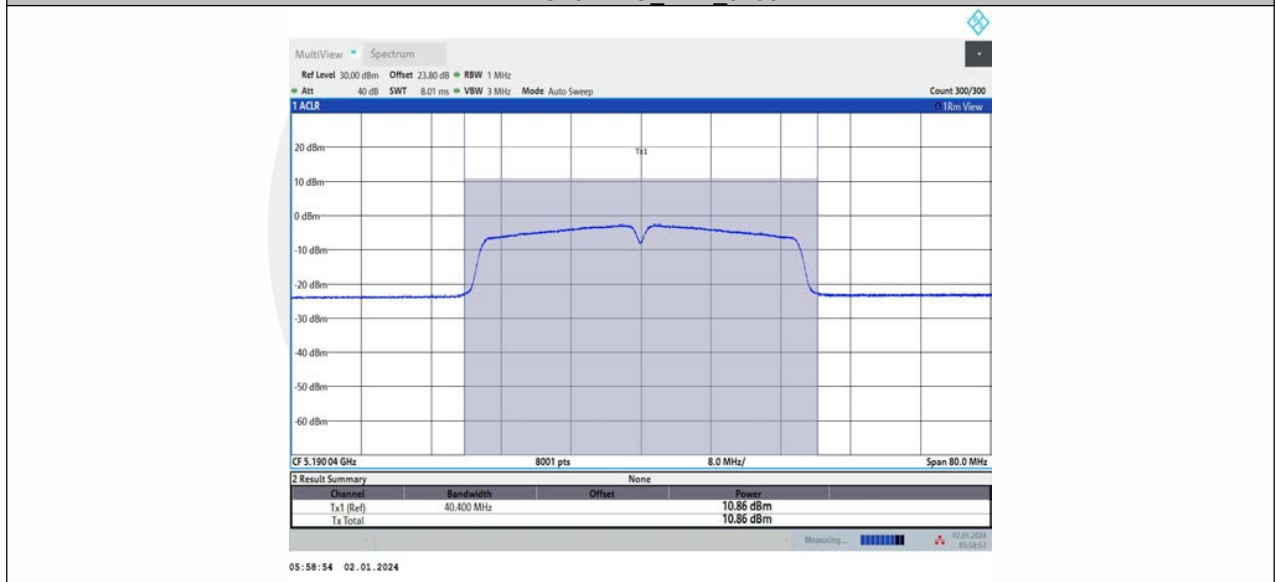


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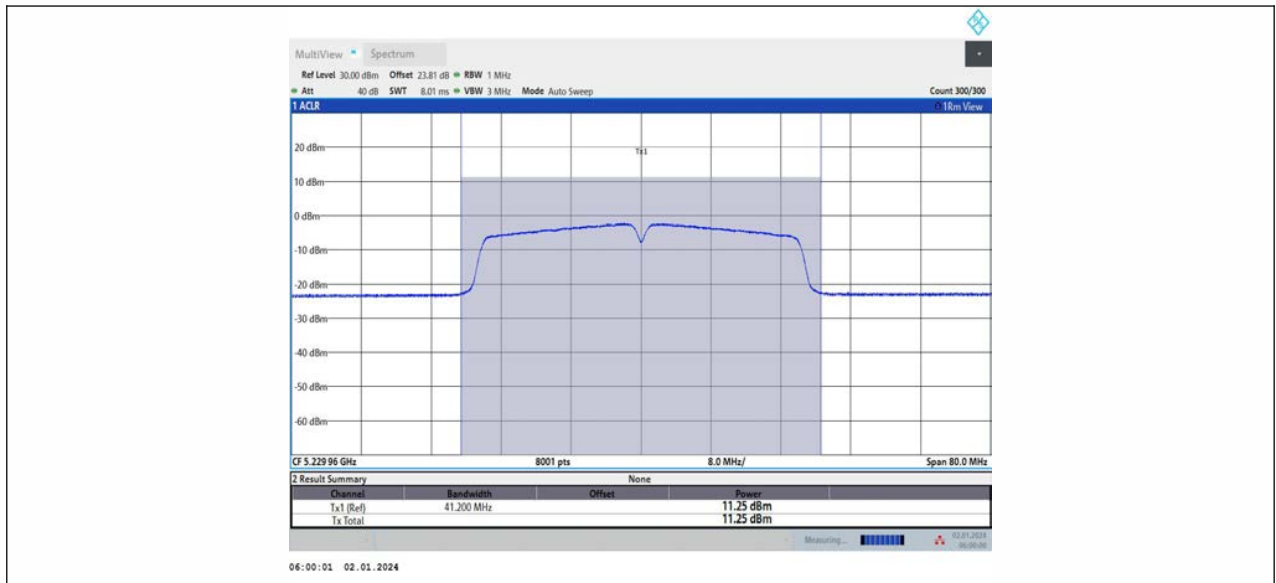




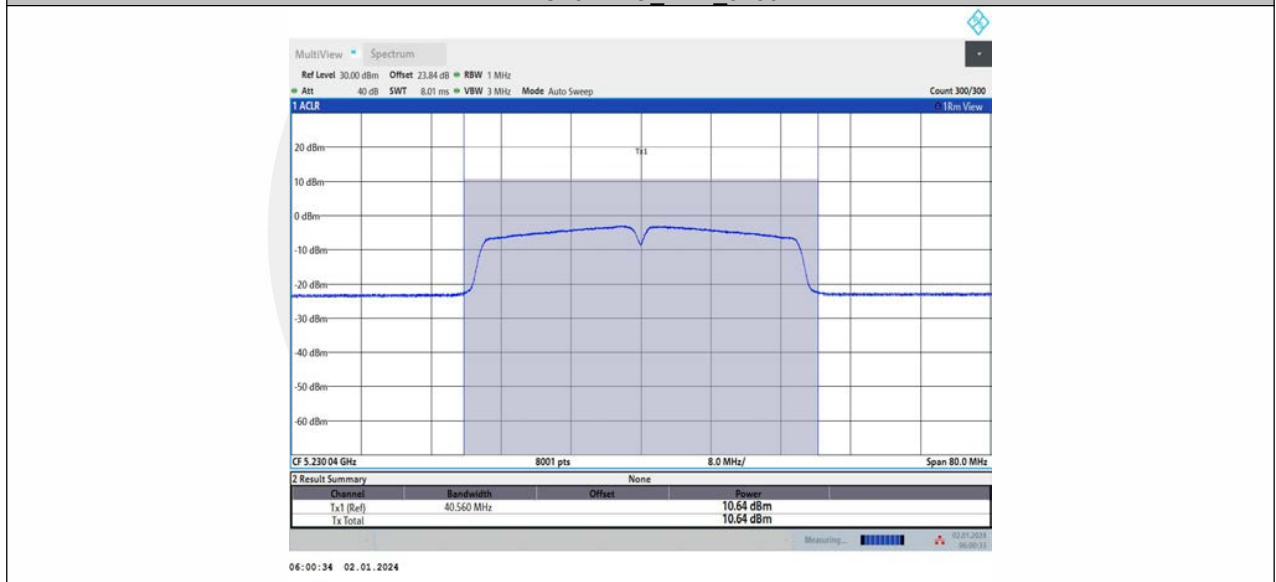
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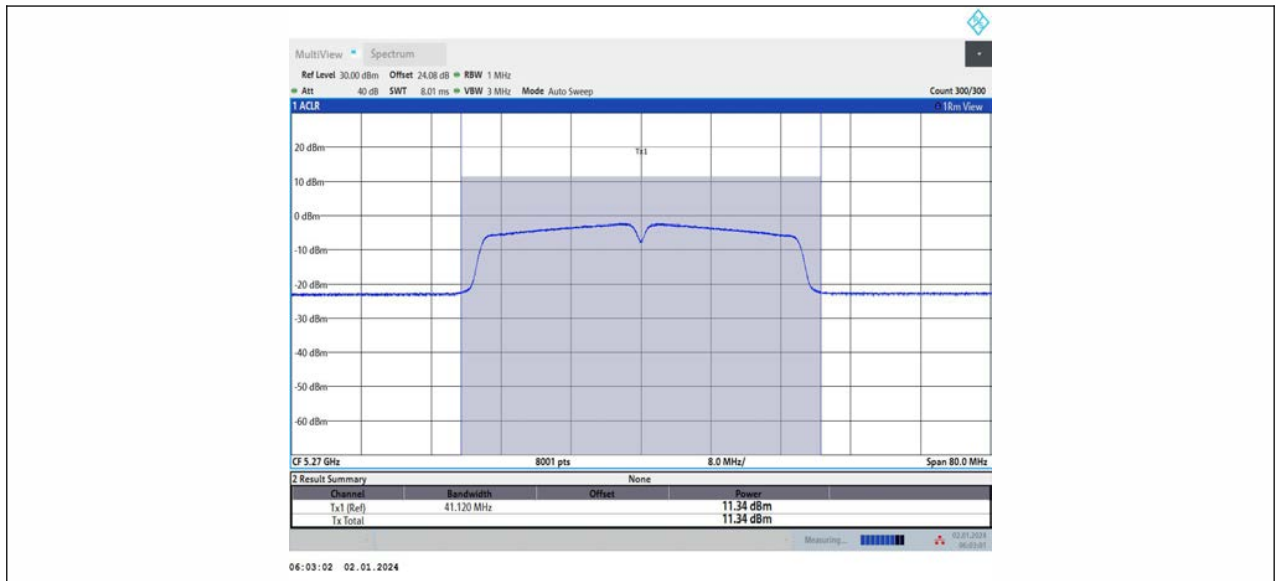
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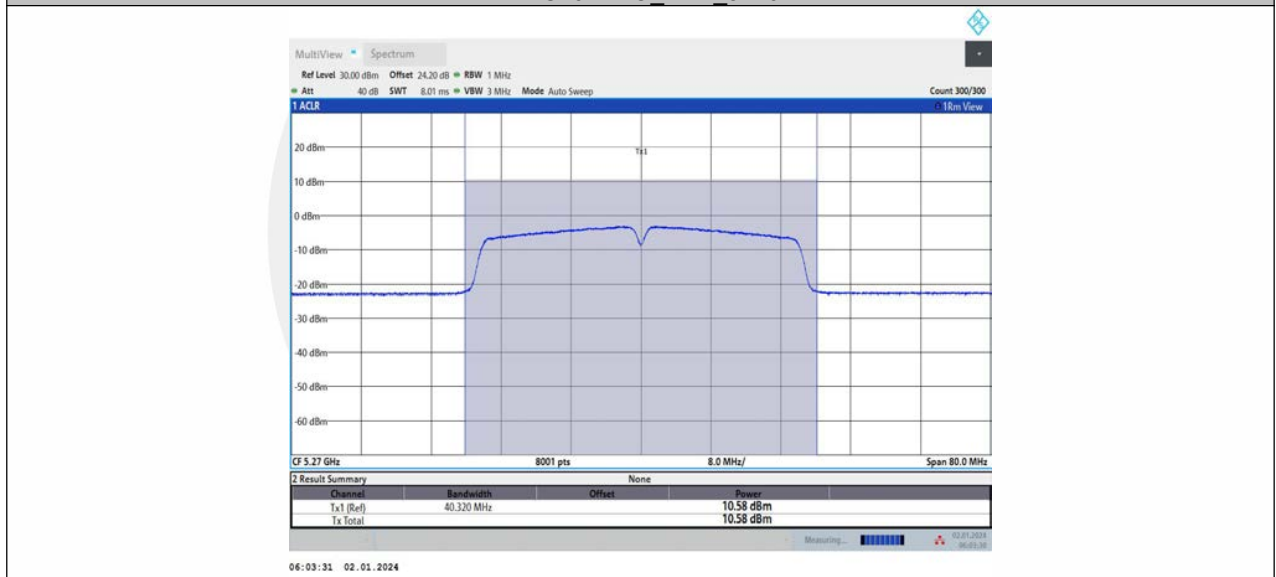
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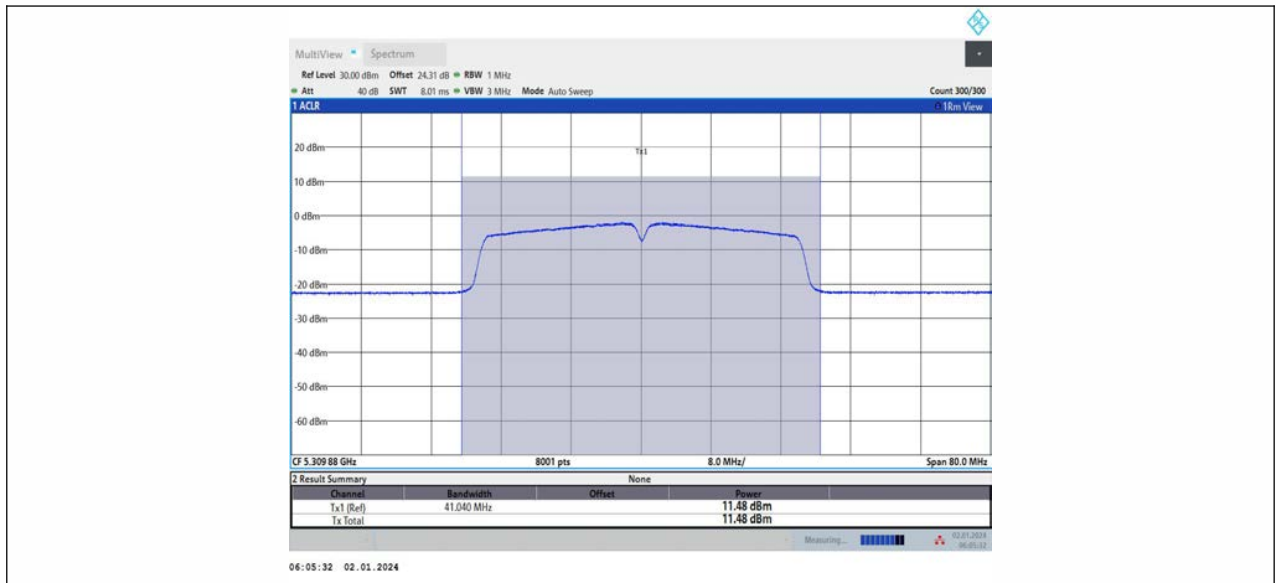
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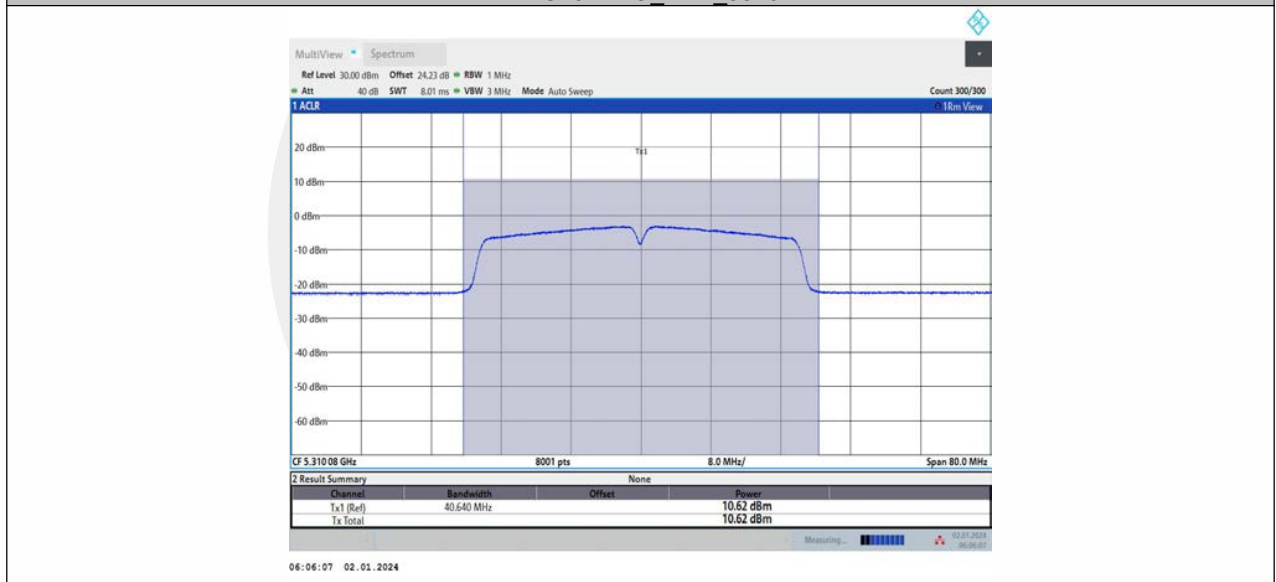
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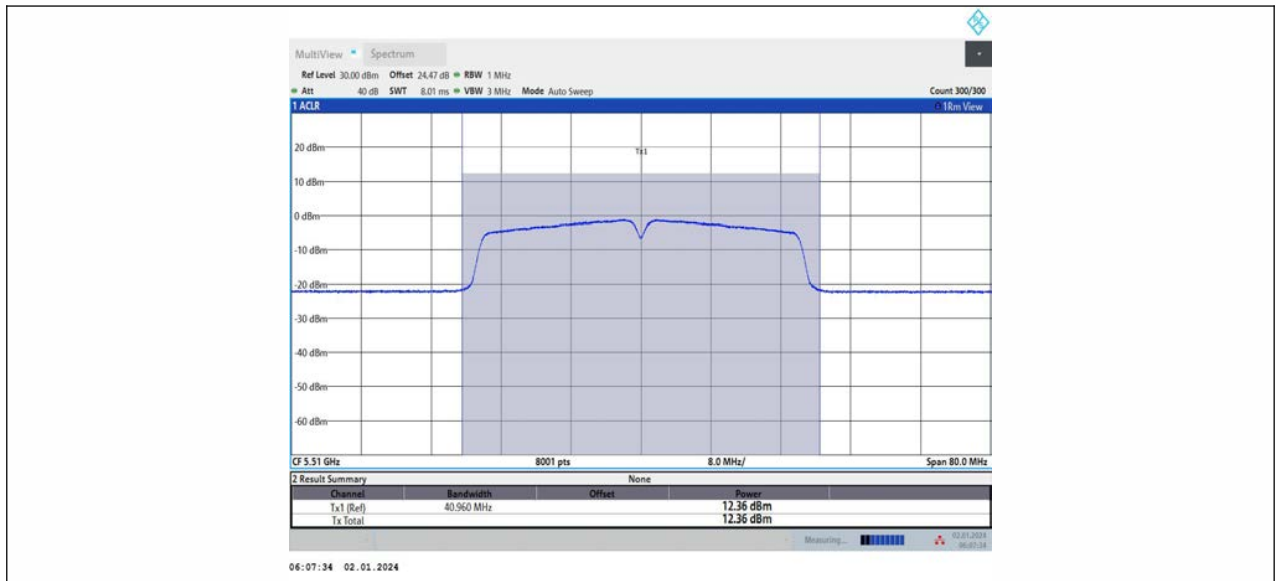
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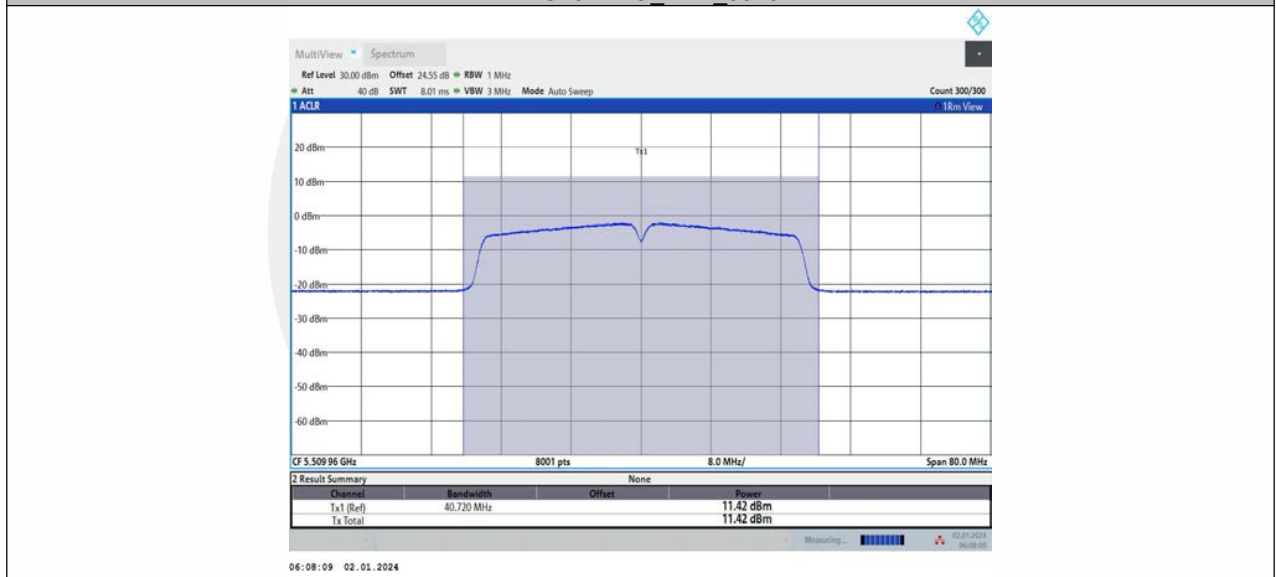
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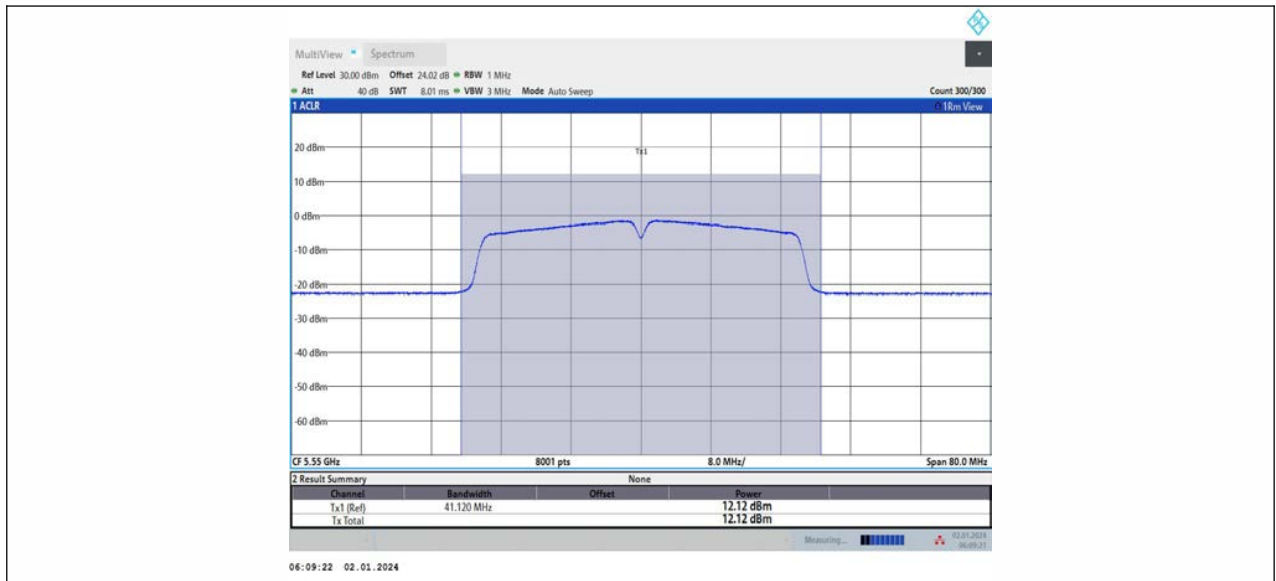
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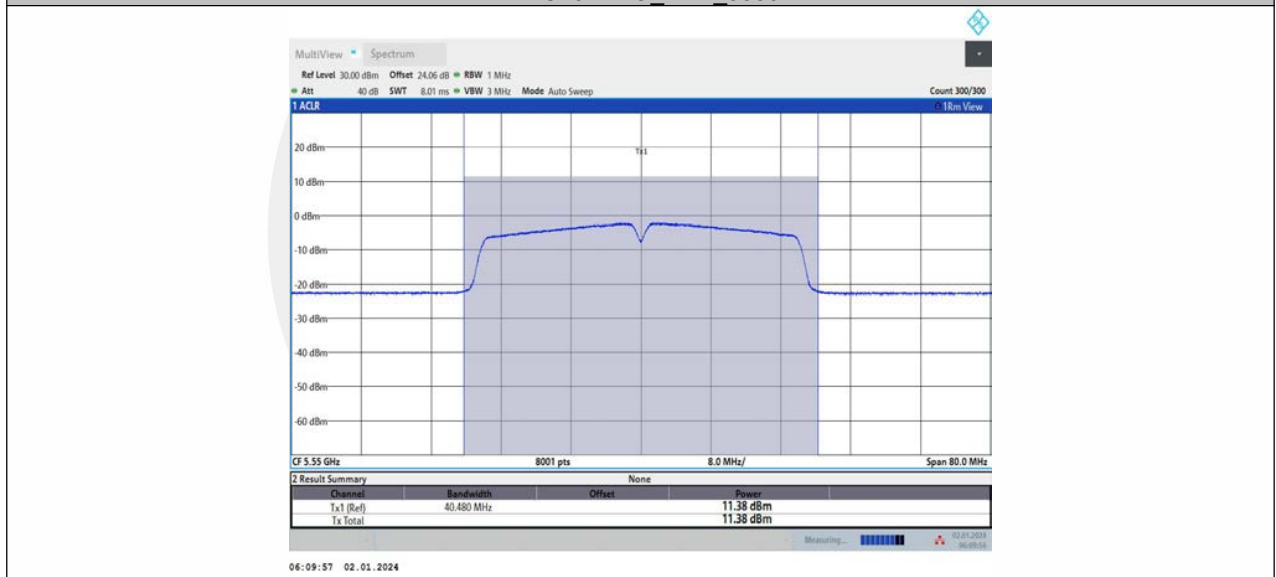
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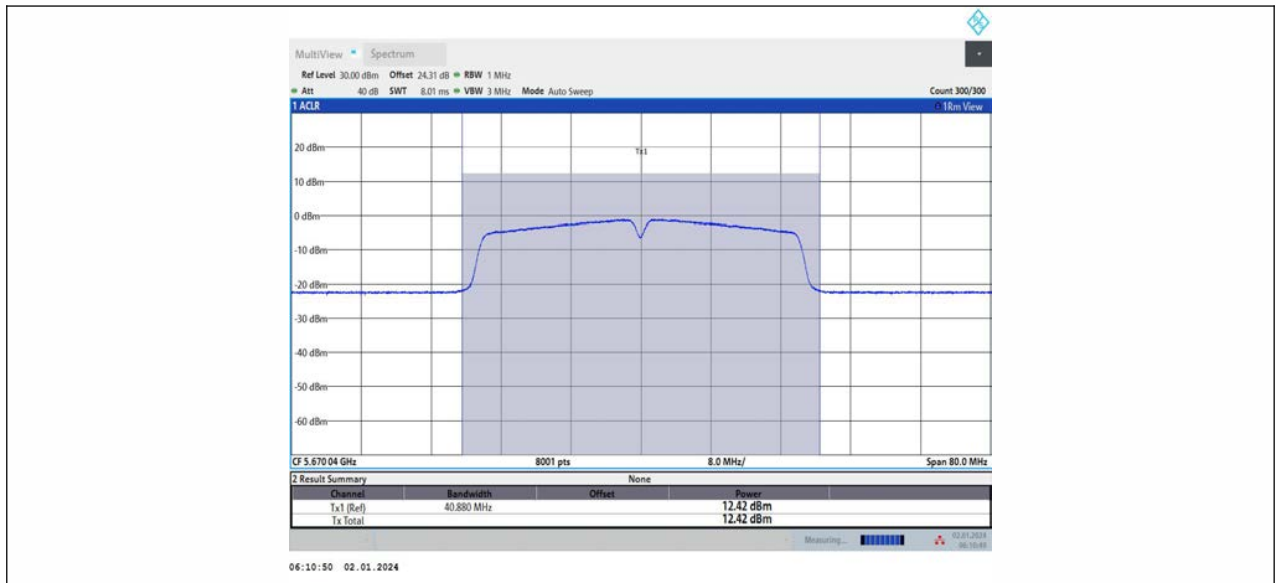
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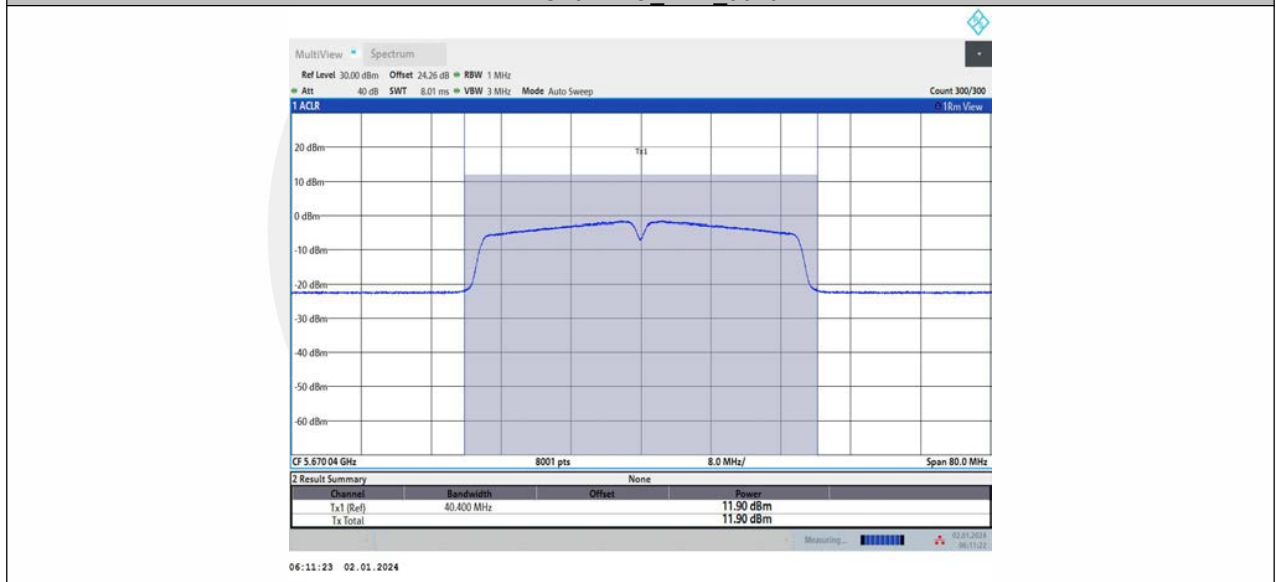
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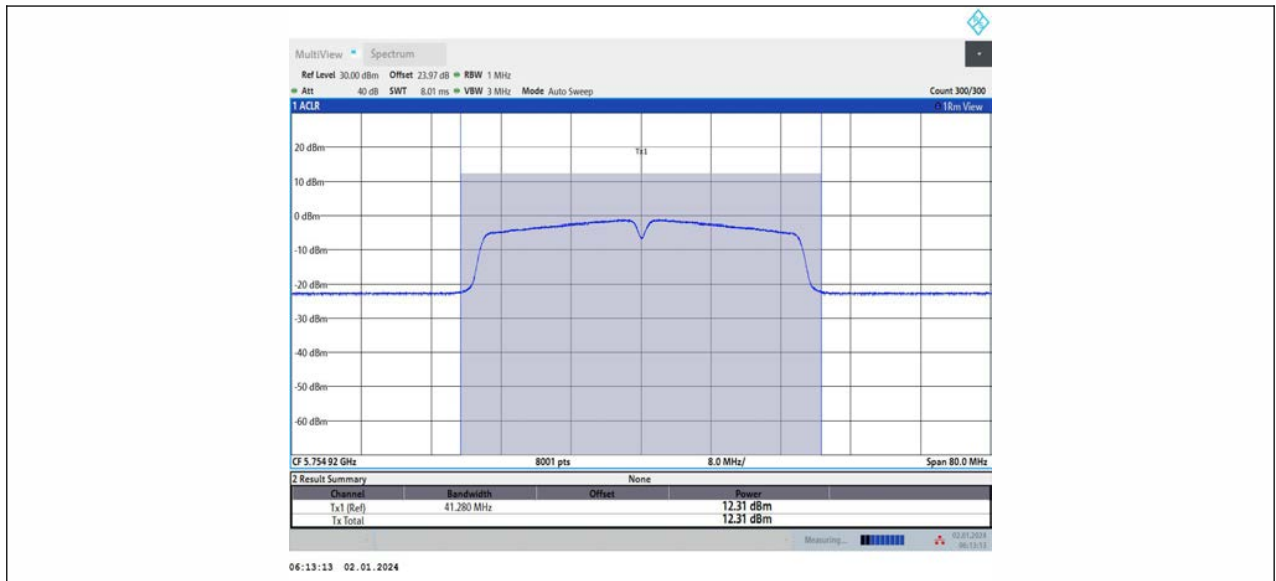
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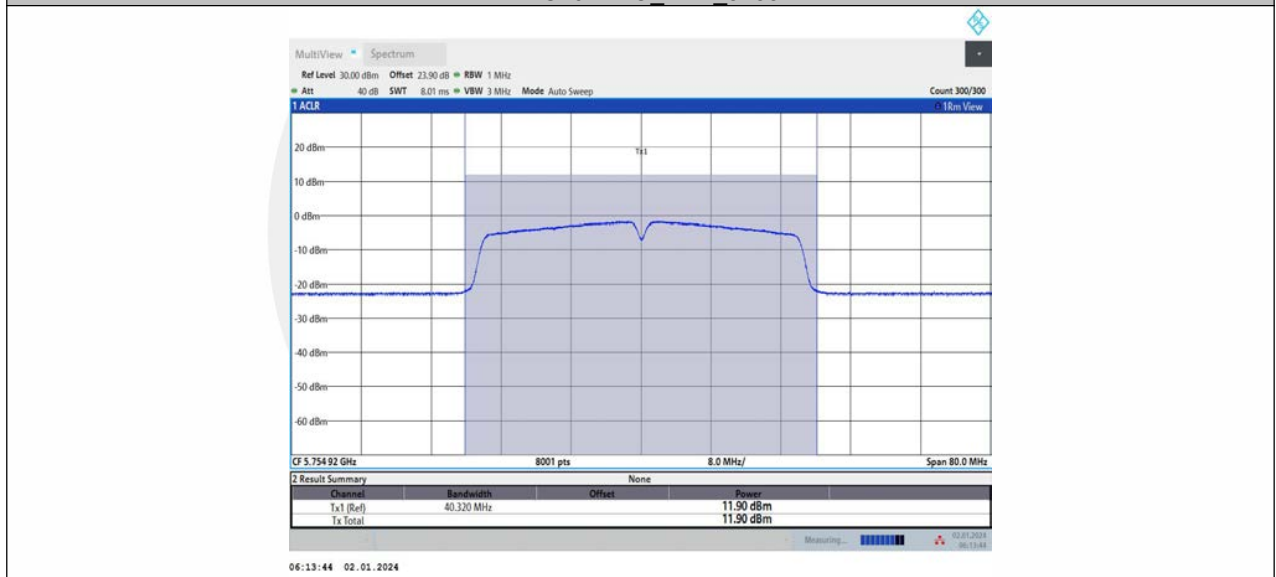
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11AC40MIMO\_Ant1\_5755

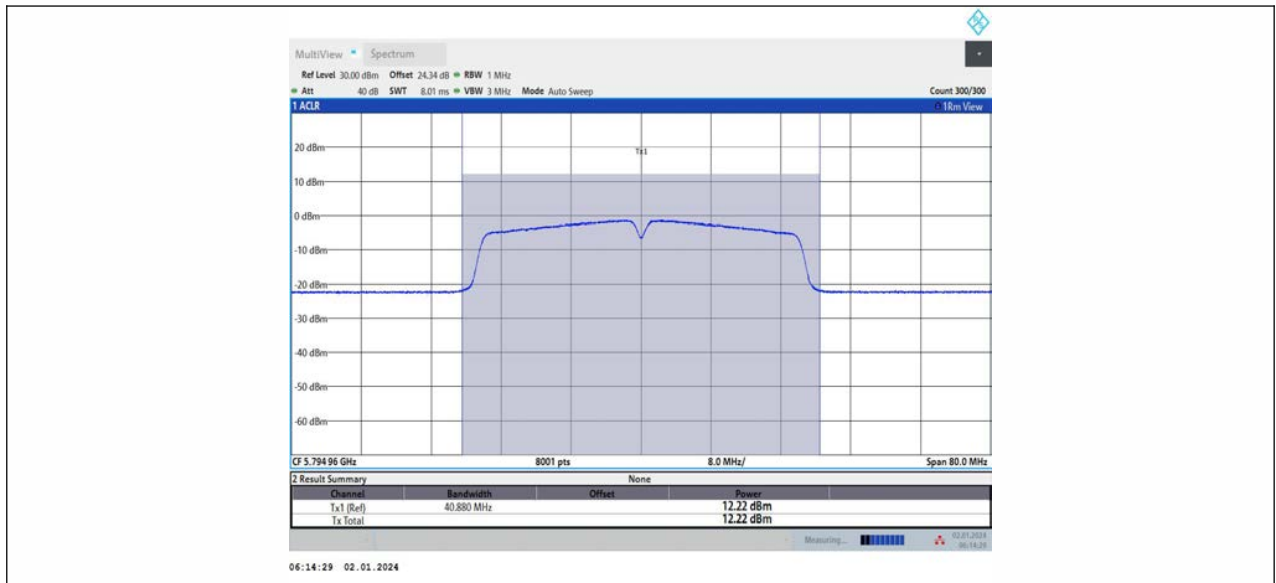


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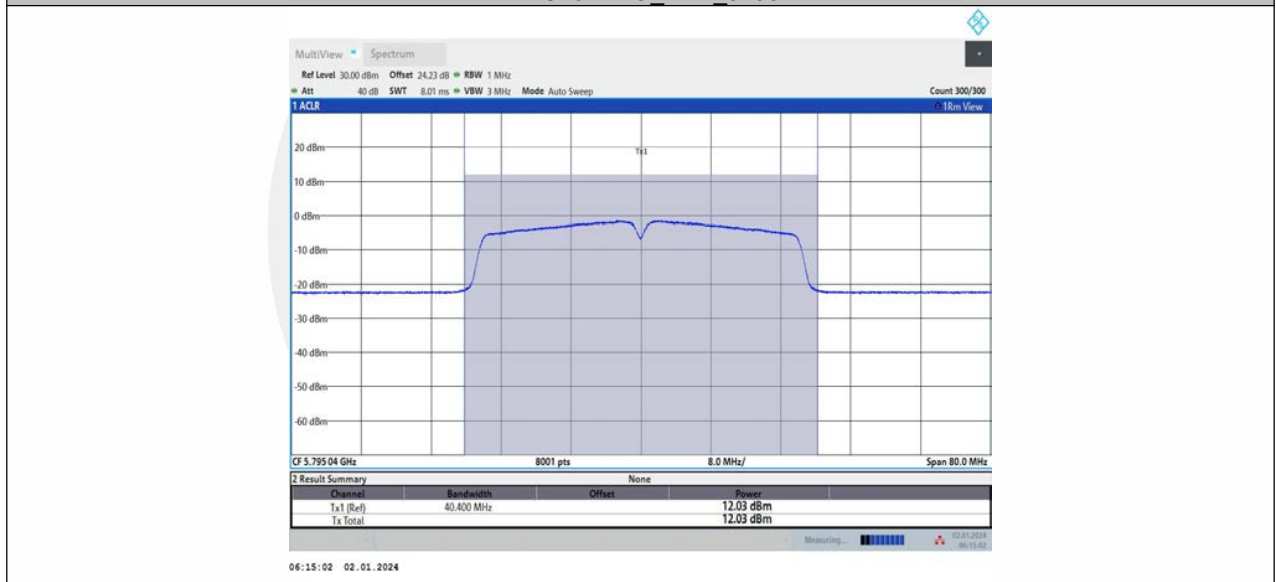


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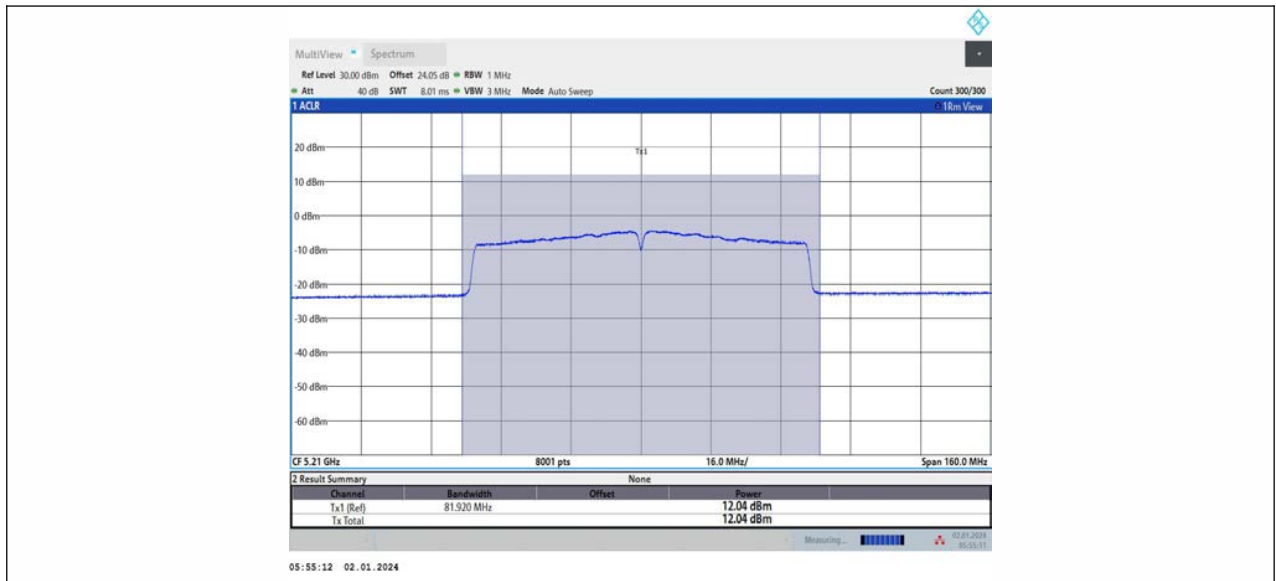




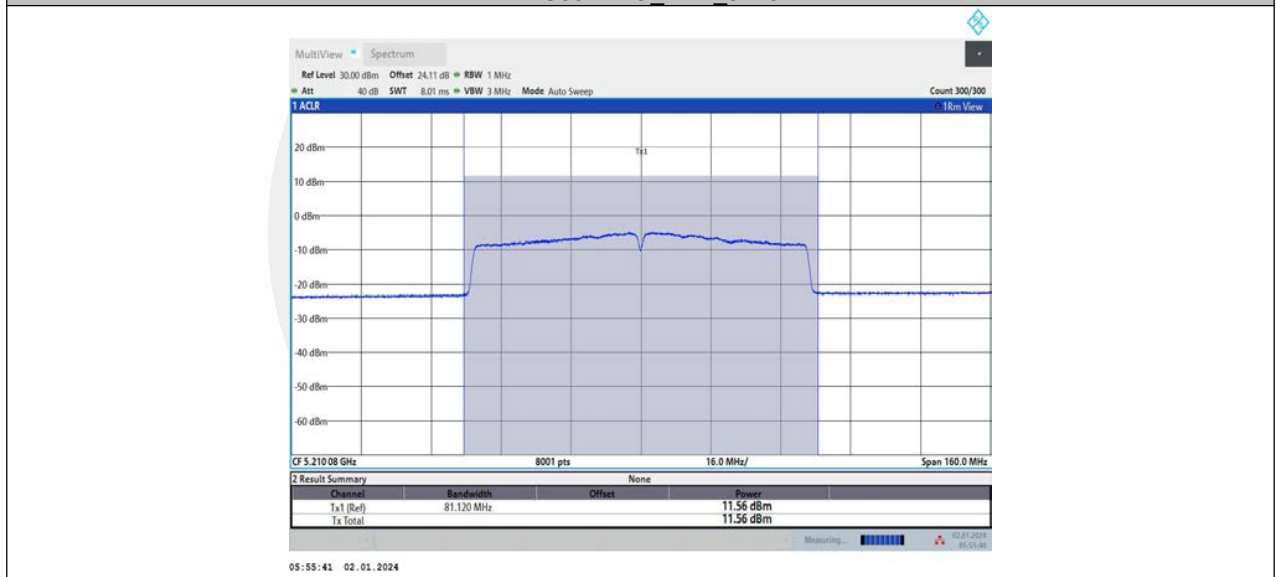
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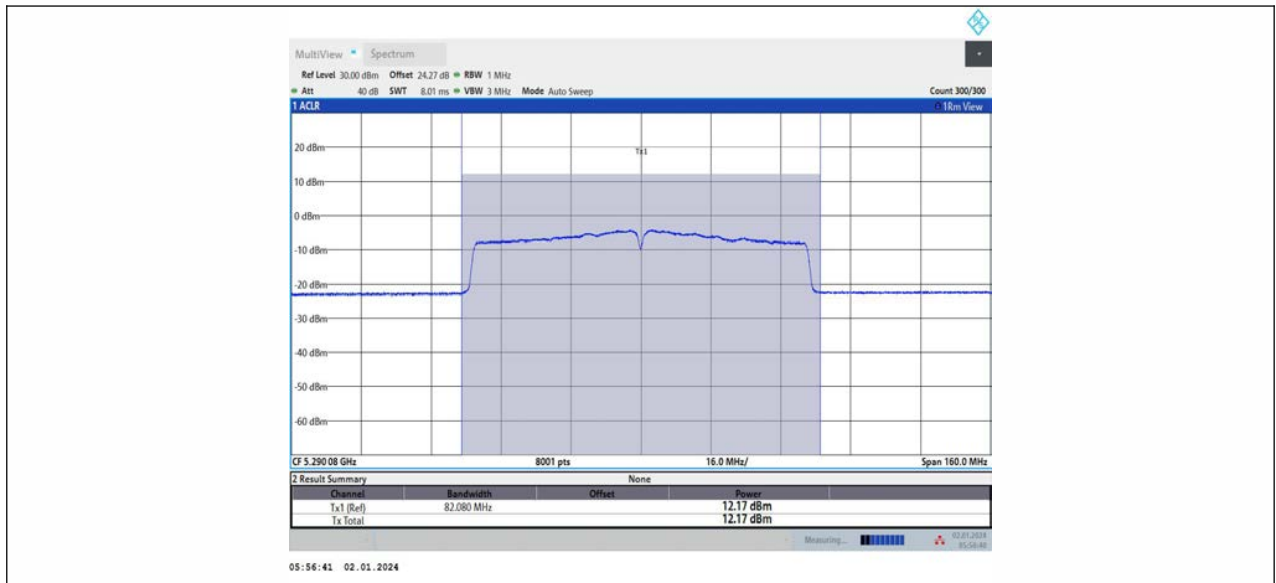
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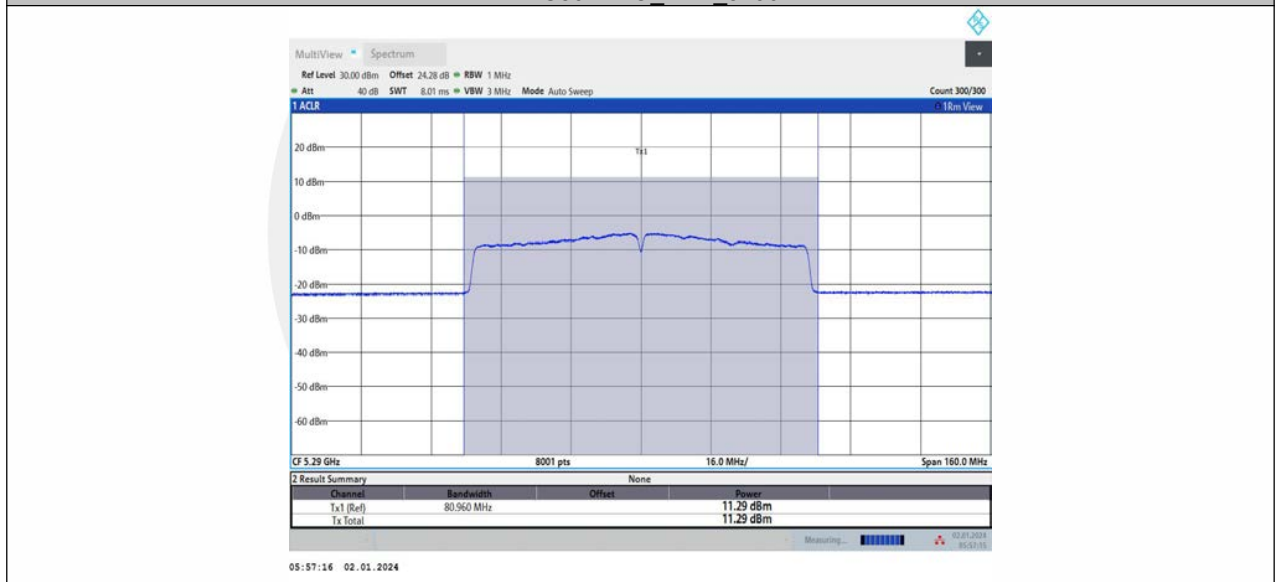
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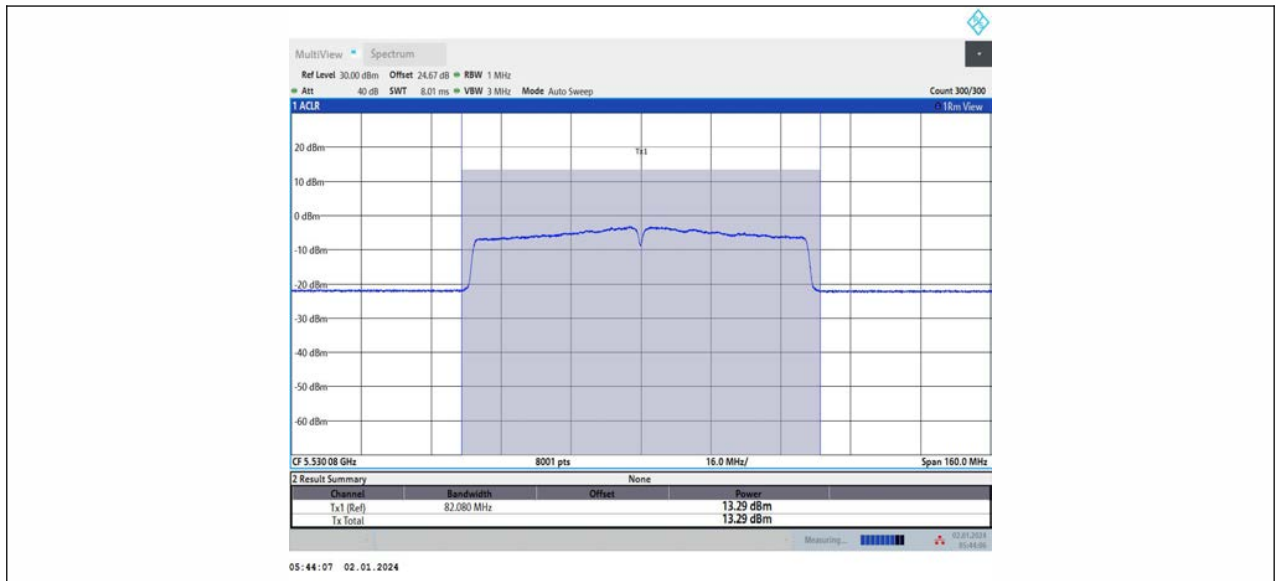
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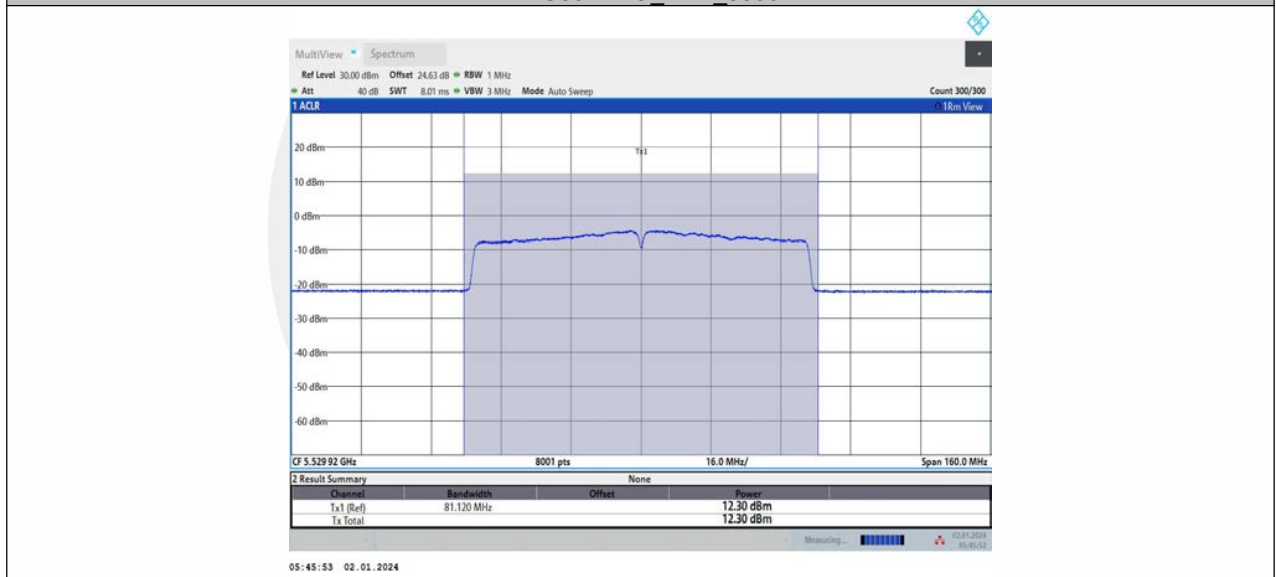
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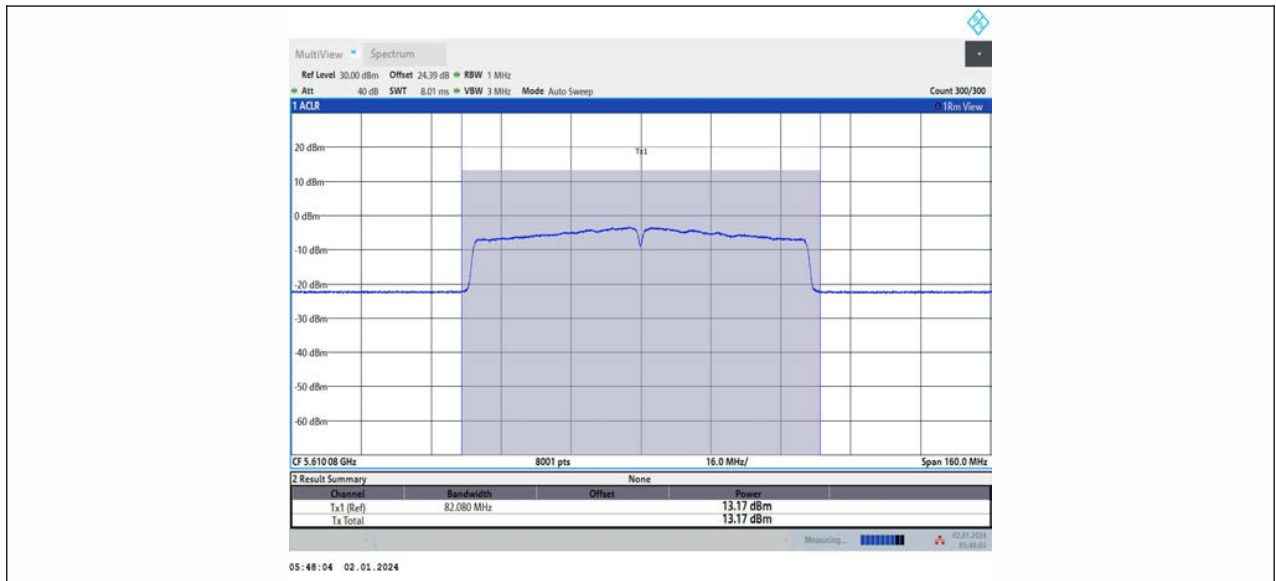
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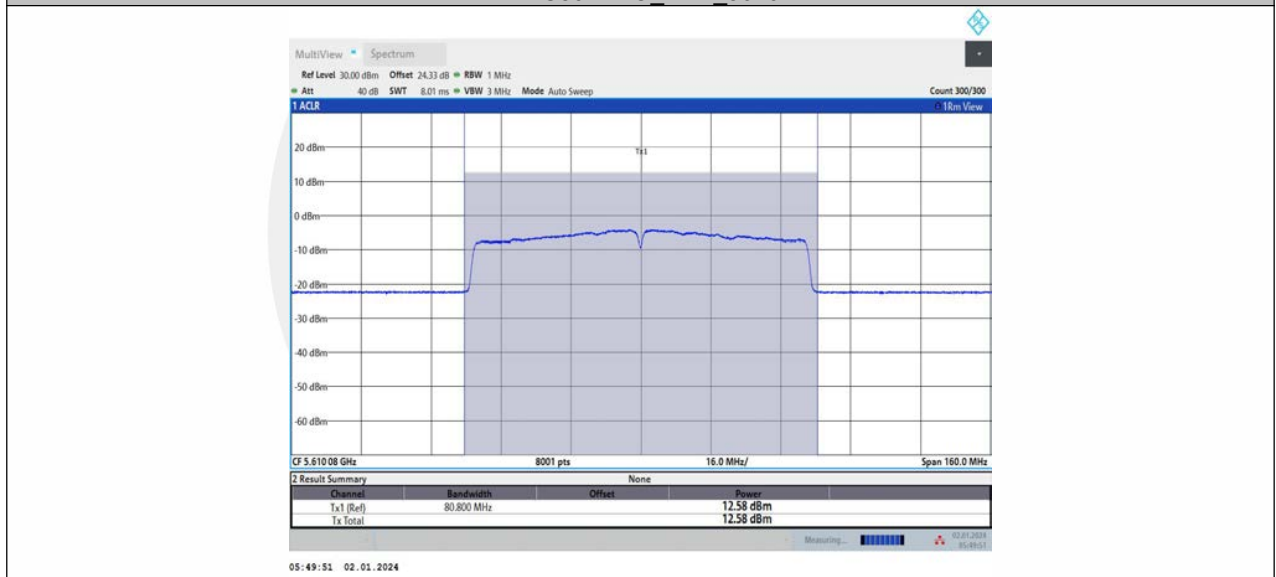
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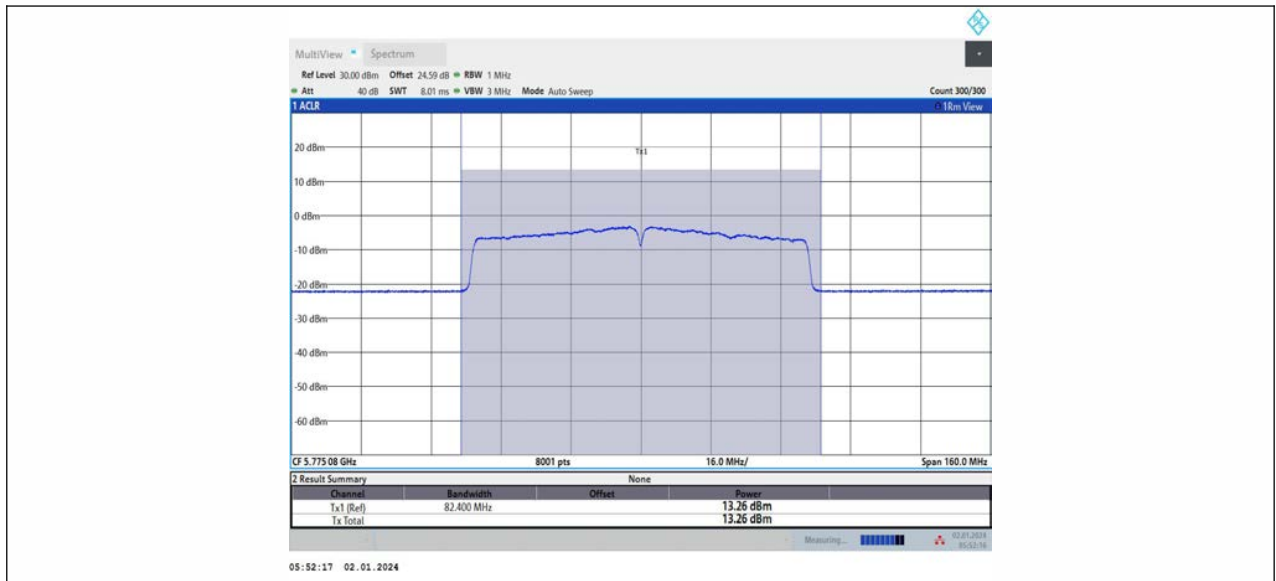
11AC80MIMO\_Ant1\_5610



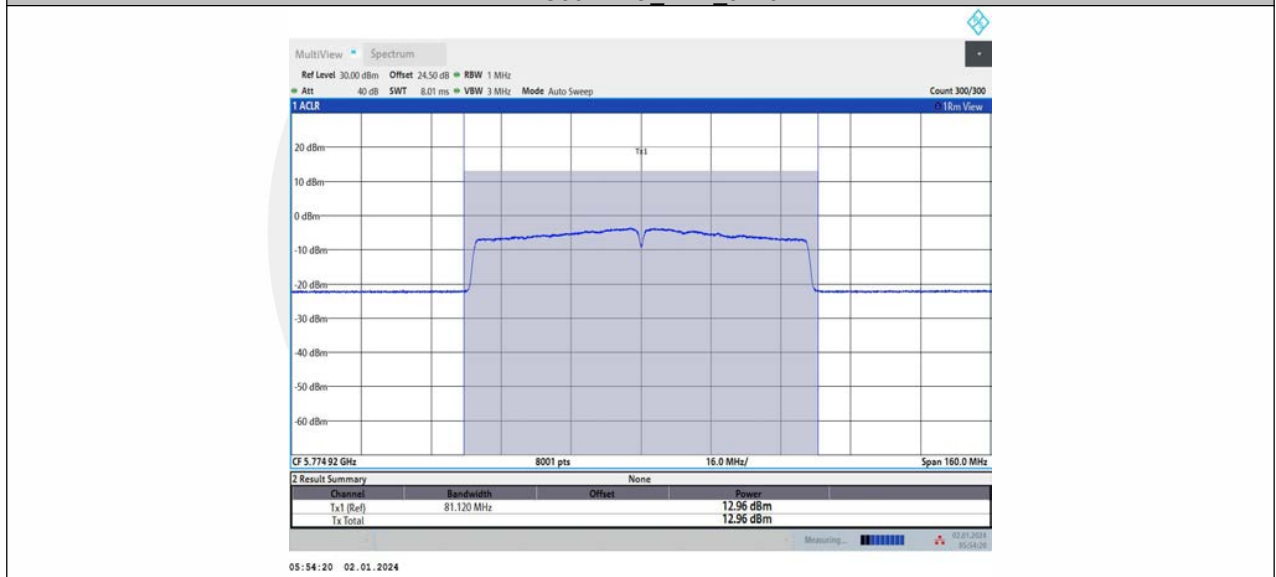
11AC80MIMO\_Ant2\_5610



11AC80MIMO\_Ant1\_5775



11AC80MIMO\_Ant2\_5775



Note: The Duty Cycle Factor is compensated in the graph.  
 EIRP = conducted power + directional gain

## 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)  
According to RSS 247, 6.2

### 8.3.2 Conformance Limit

#### FCC Limit:

■ For the band 5.15-5.25 GHz,

(a)(1) (i) For an outdoor access point, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, 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) (ii) For an indoor access point, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, 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, 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 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 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, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, 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 power spectral density shall not exceed 11 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, 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) The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, 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

**IC Limit:**

- Frequency band 5150-5250 MHz  
The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
- Frequency band 5250-5350 MHz  
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
- Frequency bands 5470-5600 MHz and 5650-5725 MHz  
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
- Frequency band 5725-5850 MHz

The output 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, the output 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 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.

**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.1.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 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 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 KHZ is available on nearly all spectrum analyzers.



### 8.3.5 Test Results

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.95	≤11.00	PASS
	Ant2	5180	3.48	≤11.00	PASS
	Ant1	5200	3.44	≤11.00	PASS
	Ant2	5200	3.37	≤11.00	PASS
	Ant1	5240	3.84	≤11.00	PASS
	Ant2	5240	3.09	≤11.00	PASS
	Ant1	5260	3.85	≤11.00	PASS
	Ant2	5260	3.12	≤11.00	PASS
	Ant1	5280	3.78	≤11.00	PASS
	Ant2	5280	3.04	≤11.00	PASS
	Ant1	5320	3.98	≤11.00	PASS
	Ant2	5320	3.49	≤11.00	PASS
	Ant1	5500	4.82	≤11.00	PASS
	Ant2	5500	4.10	≤11.00	PASS
	Ant1	5580	4.65	≤11.00	PASS
	Ant2	5580	4.16	≤11.00	PASS
	Ant1	5700	5.02	≤11.00	PASS
	Ant2	5700	4.82	≤11.00	PASS
	Ant1	5745	2.09	≤30.00	PASS
	Ant2	5745	1.80	≤30.00	PASS
	Ant1	5785	2.34	≤30.00	PASS
	Ant2	5785	2.11	≤30.00	PASS
	Ant1	5825	1.94	≤30.00	PASS
	Ant2	5825	1.73	≤30.00	PASS
11N20MIMO	Ant1	5180	0.60	≤11.00	PASS
	Ant2	5180	0.39	≤11.00	PASS
	total	5180	3.51	≤11.00	PASS
	Ant1	5200	0.31	≤11.00	PASS
	Ant2	5200	0.24	≤11.00	PASS
	total	5200	3.29	≤11.00	PASS
	Ant1	5240	0.71	≤11.00	PASS
	Ant2	5240	0.05	≤11.00	PASS
	total	5240	3.40	≤11.00	PASS
	Ant1	5260	0.81	≤11.00	PASS
	Ant2	5260	0.25	≤11.00	PASS
	total	5260	3.55	≤11.00	PASS
	Ant1	5280	0.75	≤11.00	PASS
	Ant2	5280	-0.17	≤11.00	PASS
	total	5280	3.32	≤11.00	PASS
	Ant1	5320	0.91	≤11.00	PASS
	Ant2	5320	0.29	≤11.00	PASS
	total	5320	3.62	≤11.00	PASS
	Ant1	5500	1.54	≤11.00	PASS

	Ant2	5500	0.99	≤11.00	PASS
	total	5500	4.28	≤11.00	PASS
	Ant1	5580	1.61	≤11.00	PASS
	Ant2	5580	1.17	≤11.00	PASS
	total	5580	4.41	≤11.00	PASS
	Ant1	5700	1.91	≤11.00	PASS
	Ant2	5700	1.56	≤11.00	PASS
	total	5700	4.75	≤11.00	PASS
	Ant1	5745	-1.27	≤30.00	PASS
	Ant2	5745	-0.88	≤30.00	PASS
	total	5745	1.94	≤30.00	PASS
	Ant1	5785	-0.89	≤30.00	PASS
	Ant2	5785	-1.19	≤30.00	PASS
	total	5785	1.97	≤30.00	PASS
	Ant1	5825	-1.34	≤30.00	PASS
	Ant2	5825	-1.23	≤30.00	PASS
	total	5825	1.73	≤30.00	PASS
11N40MIMO	Ant1	5190	-2.21	≤11.00	PASS
	Ant2	5190	-2.59	≤11.00	PASS
	total	5190	0.61	≤11.00	PASS
	Ant1	5230	-2.50	≤11.00	PASS
	Ant2	5230	-2.84	≤11.00	PASS
	total	5230	0.34	≤11.00	PASS
	Ant1	5270	-2.27	≤11.00	PASS
	Ant2	5270	-2.99	≤11.00	PASS
	total	5270	0.40	≤11.00	PASS
	Ant1	5310	-2.14	≤11.00	PASS
	Ant2	5310	-2.87	≤11.00	PASS
	total	5310	0.52	≤11.00	PASS
	Ant1	5510	-1.21	≤11.00	PASS
	Ant2	5510	-2.23	≤11.00	PASS
	total	5510	1.32	≤11.00	PASS
	Ant1	5550	-1.07	≤11.00	PASS
	Ant2	5550	-1.91	≤11.00	PASS
	total	5550	1.54	≤11.00	PASS
	Ant1	5670	-0.98	≤11.00	PASS
	Ant2	5670	-1.45	≤11.00	PASS
	total	5670	1.80	≤11.00	PASS
	Ant1	5755	-4.16	≤30.00	PASS
	Ant2	5755	-4.35	≤30.00	PASS
	total	5755	-1.24	≤30.00	PASS
	Ant1	5795	-3.89	≤30.00	PASS
Ant2	5795	-4.31	≤30.00	PASS	
total	5795	-1.08	≤30.00	PASS	
11AC20MIMO	Ant1	5180	0.61	≤11.00	PASS
	Ant2	5180	0.56	≤11.00	PASS
	total	5180	3.60	≤11.00	PASS
	Ant1	5200	0.22	≤11.00	PASS
	Ant2	5200	0.05	≤11.00	PASS
	total	5200	3.15	≤11.00	PASS
	Ant1	5240	0.58	≤11.00	PASS
	Ant2	5240	-0.09	≤11.00	PASS
	total	5240	3.27	≤11.00	PASS
	Ant1	5260	0.74	≤11.00	PASS
Ant2	5260	0.08	≤11.00	PASS	

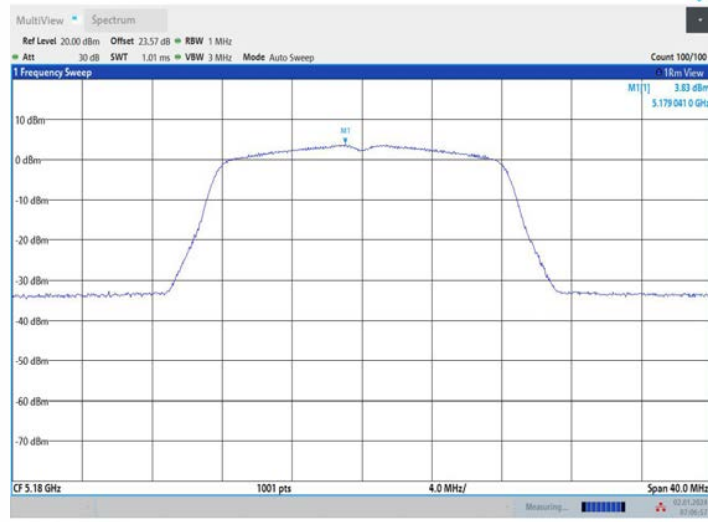
	total	5260	3.43	≤11.00	PASS
	Ant1	5280	0.48	≤11.00	PASS
	Ant2	5280	-0.24	≤11.00	PASS
	total	5280	3.15	≤11.00	PASS
	Ant1	5320	0.99	≤11.00	PASS
	Ant2	5320	0.19	≤11.00	PASS
	total	5320	3.62	≤11.00	PASS
	Ant1	5500	1.66	≤11.00	PASS
	Ant2	5500	1.02	≤11.00	PASS
	total	5500	4.36	≤11.00	PASS
	Ant1	5580	1.65	≤11.00	PASS
	Ant2	5580	1.11	≤11.00	PASS
	total	5580	4.40	≤11.00	PASS
	Ant1	5700	1.82	≤11.00	PASS
	Ant2	5700	1.86	≤11.00	PASS
	total	5700	4.85	≤11.00	PASS
	Ant1	5745	-1.13	≤30.00	PASS
	Ant2	5745	-1.48	≤30.00	PASS
	total	5745	1.71	≤30.00	PASS
	Ant1	5785	-1.00	≤30.00	PASS
	Ant2	5785	-1.25	≤30.00	PASS
	total	5785	1.89	≤30.00	PASS
	Ant1	5825	-1.50	≤30.00	PASS
	Ant2	5825	-1.18	≤30.00	PASS
	total	5825	1.67	≤30.00	PASS
	Ant1	5190	-2.14	≤11.00	PASS
	Ant2	5190	-2.56	≤11.00	PASS
	total	5190	0.67	≤11.00	PASS
	Ant1	5230	-2.13	≤11.00	PASS
	Ant2	5230	-2.81	≤11.00	PASS
	total	5230	0.55	≤11.00	PASS
	Ant1	5270	-2.41	≤11.00	PASS
	Ant2	5270	-2.97	≤11.00	PASS
	total	5270	0.33	≤11.00	PASS
	Ant1	5310	-2.05	≤11.00	PASS
	Ant2	5310	-2.92	≤11.00	PASS
	total	5310	0.55	≤11.00	PASS
	Ant1	5510	-1.13	≤11.00	PASS
	Ant2	5510	-2.02	≤11.00	PASS
	total	5510	1.46	≤11.00	PASS
	Ant1	5550	-1.14	≤11.00	PASS
	Ant2	5550	-2.21	≤11.00	PASS
	total	5550	1.37	≤11.00	PASS
	Ant1	5670	-1.06	≤11.00	PASS
	Ant2	5670	-1.66	≤11.00	PASS
	total	5670	1.66	≤11.00	PASS
	Ant1	5755	-4.13	≤30.00	PASS
	Ant2	5755	-4.45	≤30.00	PASS
	total	5755	-1.28	≤30.00	PASS
	Ant1	5795	-3.93	≤30.00	PASS
	Ant2	5795	-4.33	≤30.00	PASS
	total	5795	-1.12	≤30.00	PASS
	Ant1	5210	-4.42	≤11.00	PASS
	Ant2	5210	-4.87	≤11.00	PASS
	total	5210	-1.63	≤11.00	PASS

	Ant1	5290	-4.19	≤11.00	PASS
	Ant2	5290	-5.01	≤11.00	PASS
	total	5290	-1.57	≤11.00	PASS
	Ant1	5530	-3.14	≤11.00	PASS
	Ant2	5530	-4.10	≤11.00	PASS
	total	5530	-0.58	≤11.00	PASS
	Ant1	5610	-3.37	≤11.00	PASS
	Ant2	5610	-3.93	≤11.00	PASS
	total	5610	-0.63	≤11.00	PASS
	Ant1	5775	-5.99	≤30.00	PASS
	Ant2	5775	-6.46	≤30.00	PASS
	total	5775	-3.21	≤30.00	PASS

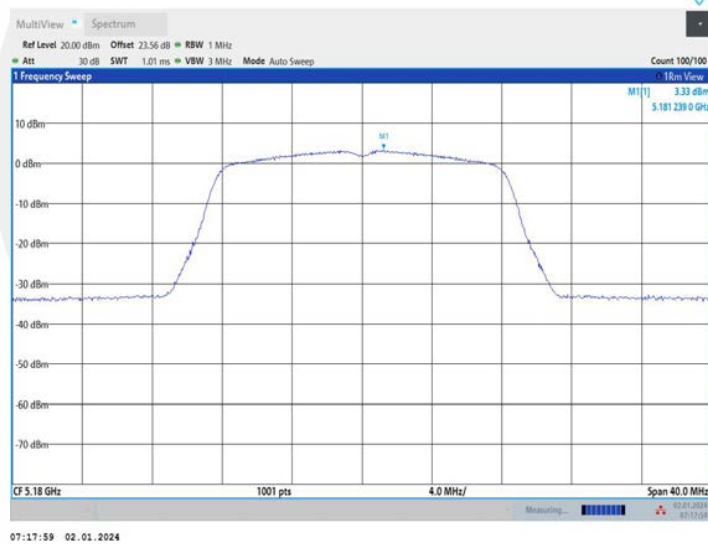
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.  
 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



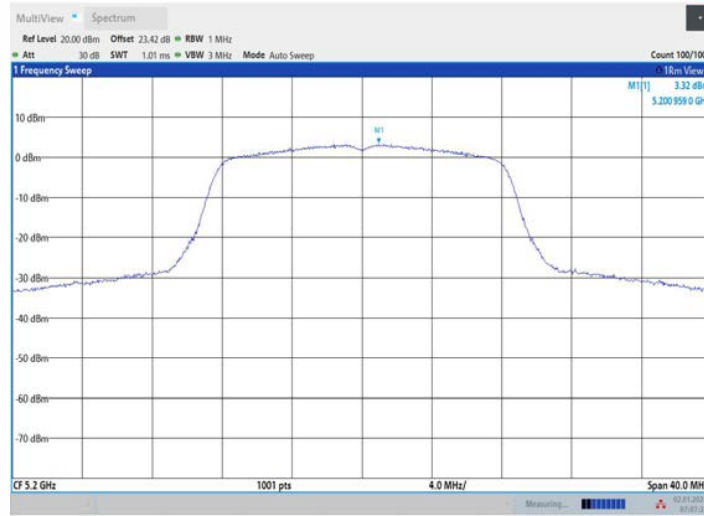
## 11A\_Ant1\_5180



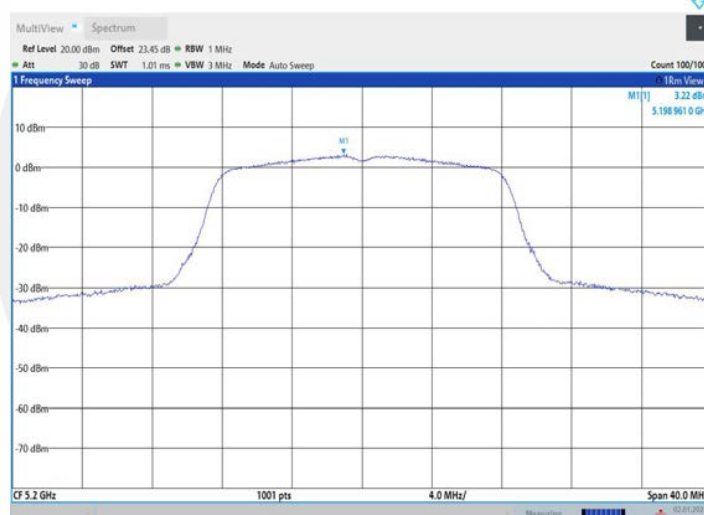
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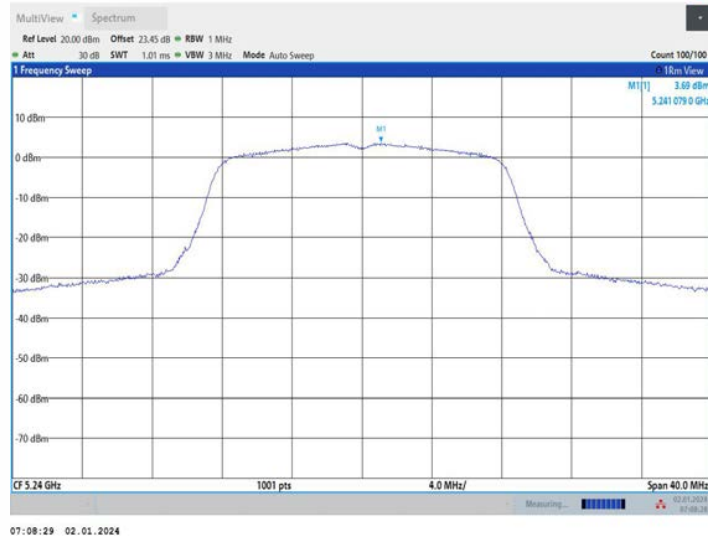
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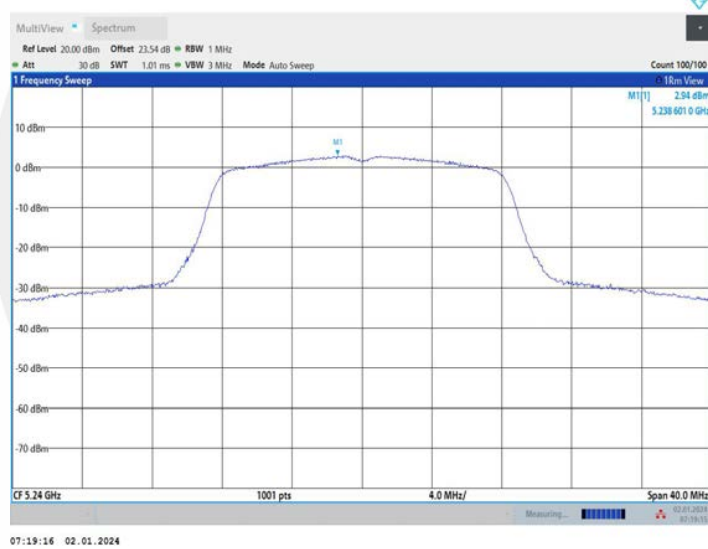
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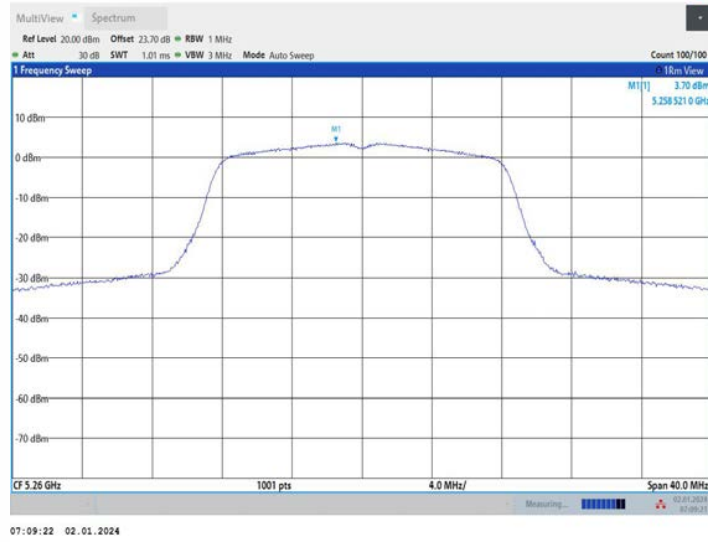
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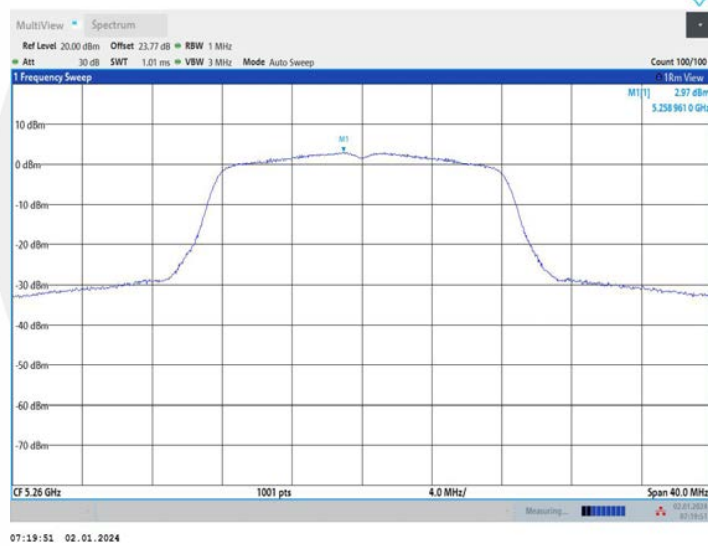
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11A\_Ant1\_5260

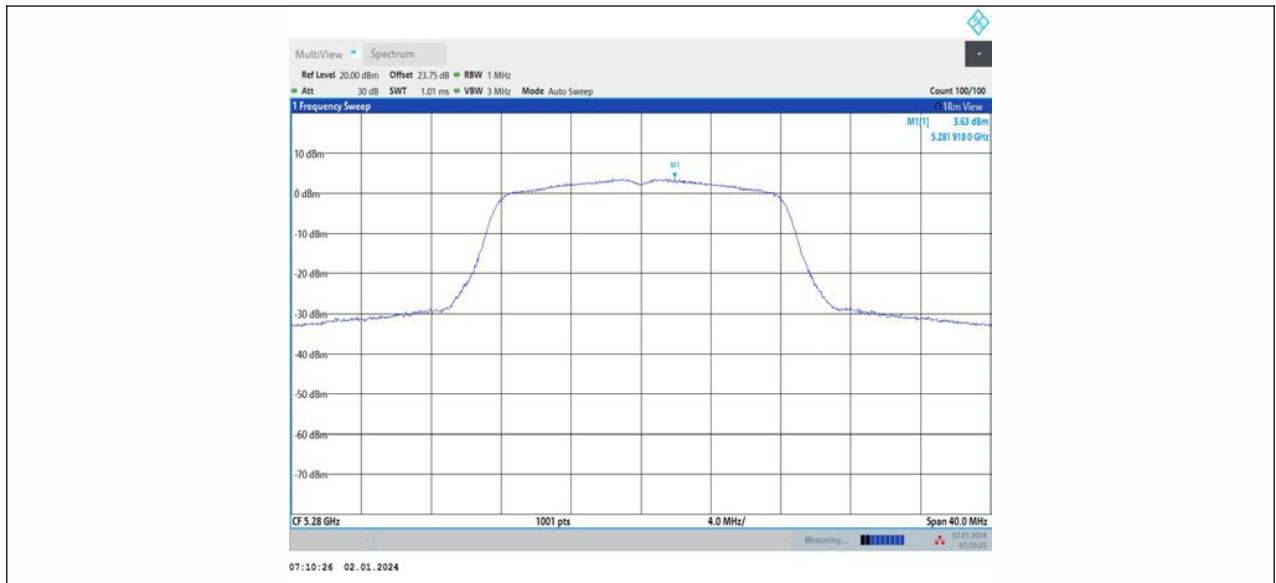


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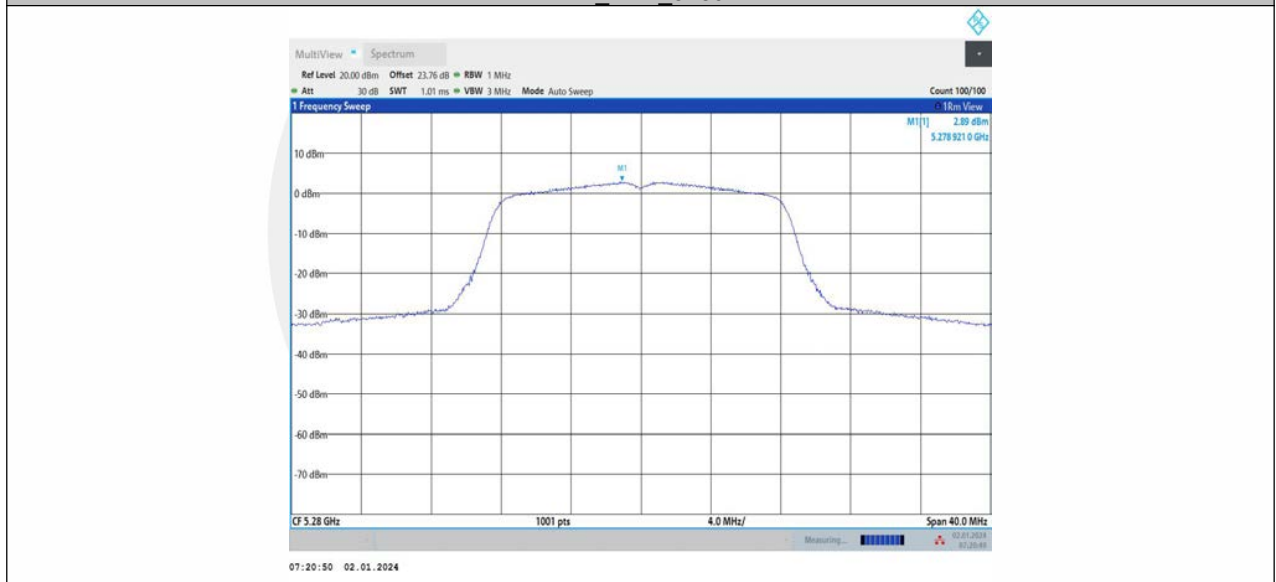


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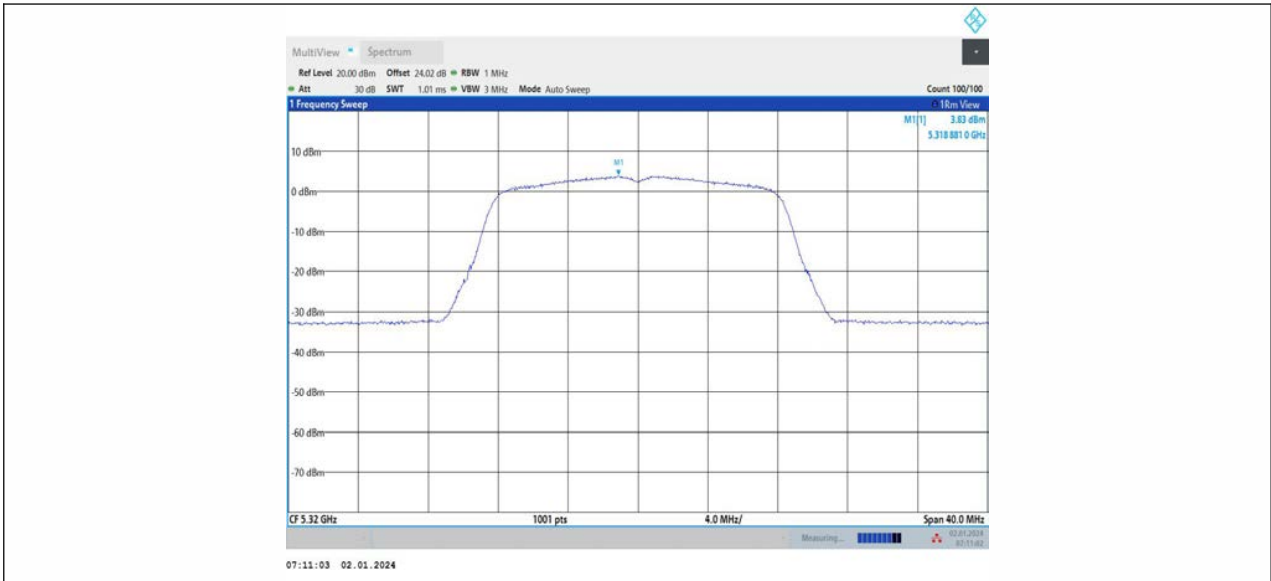




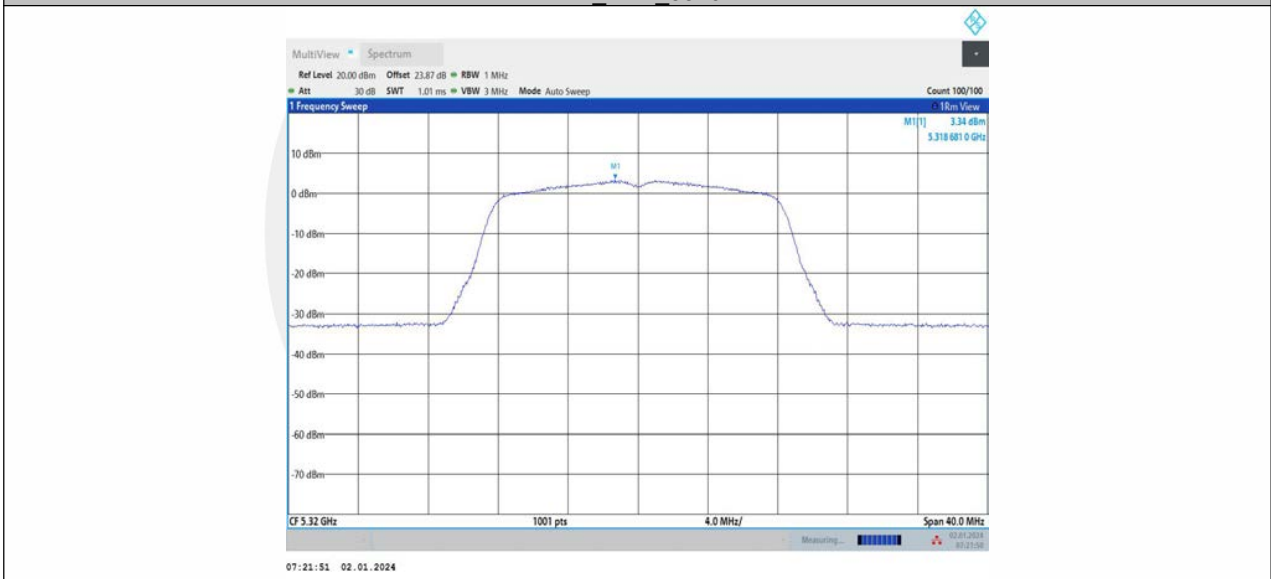
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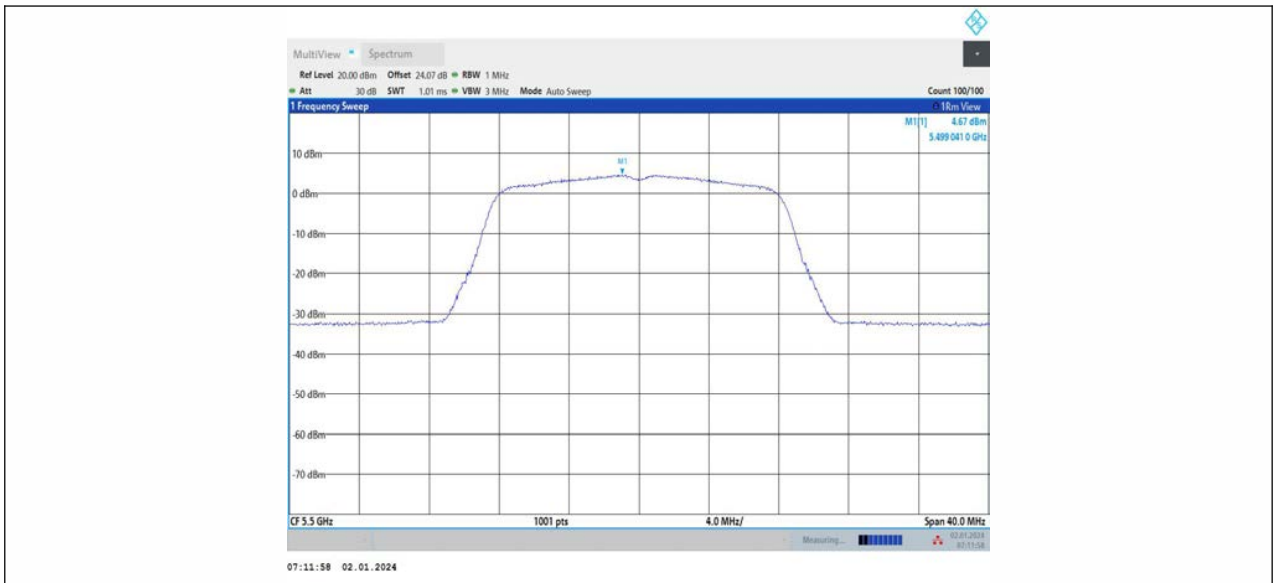
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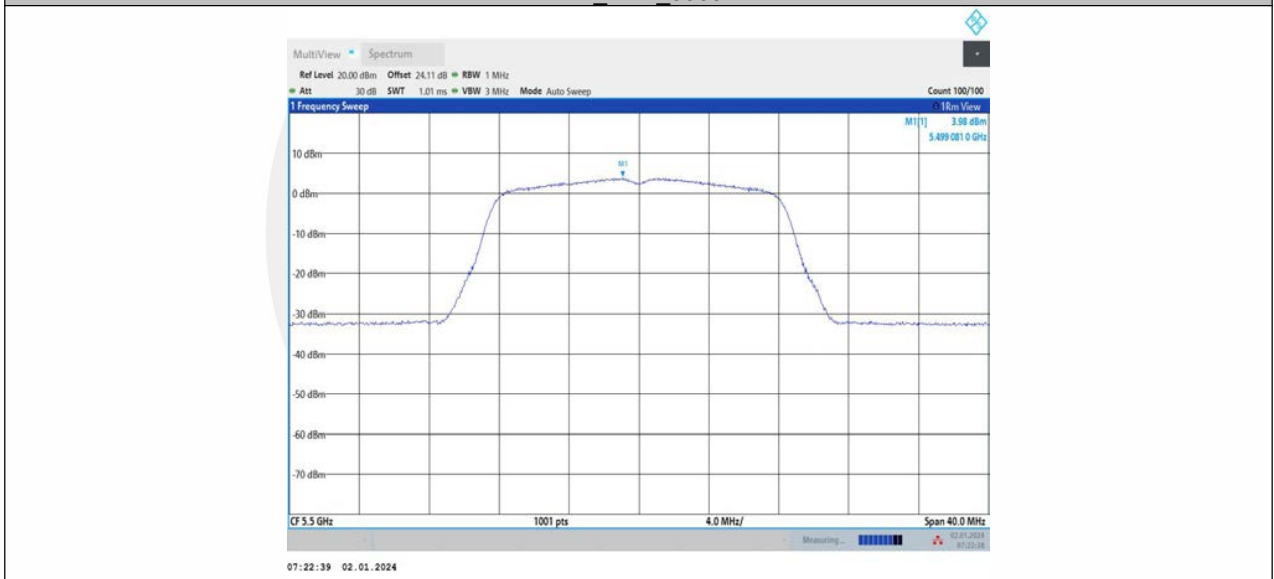
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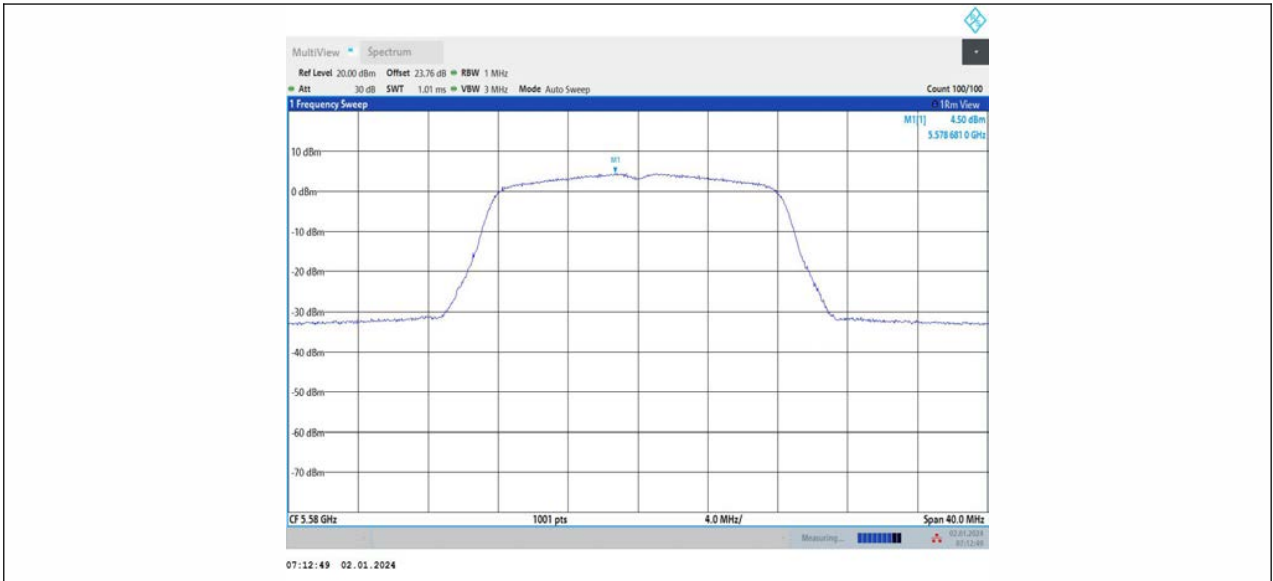
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11A\_Ant2\_5500



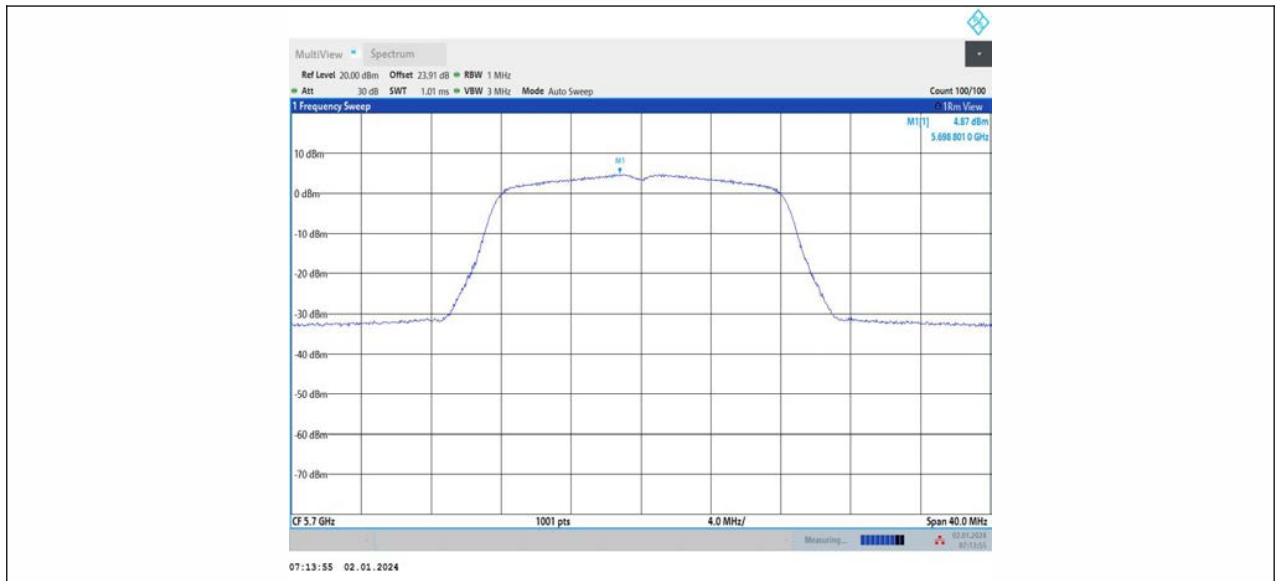
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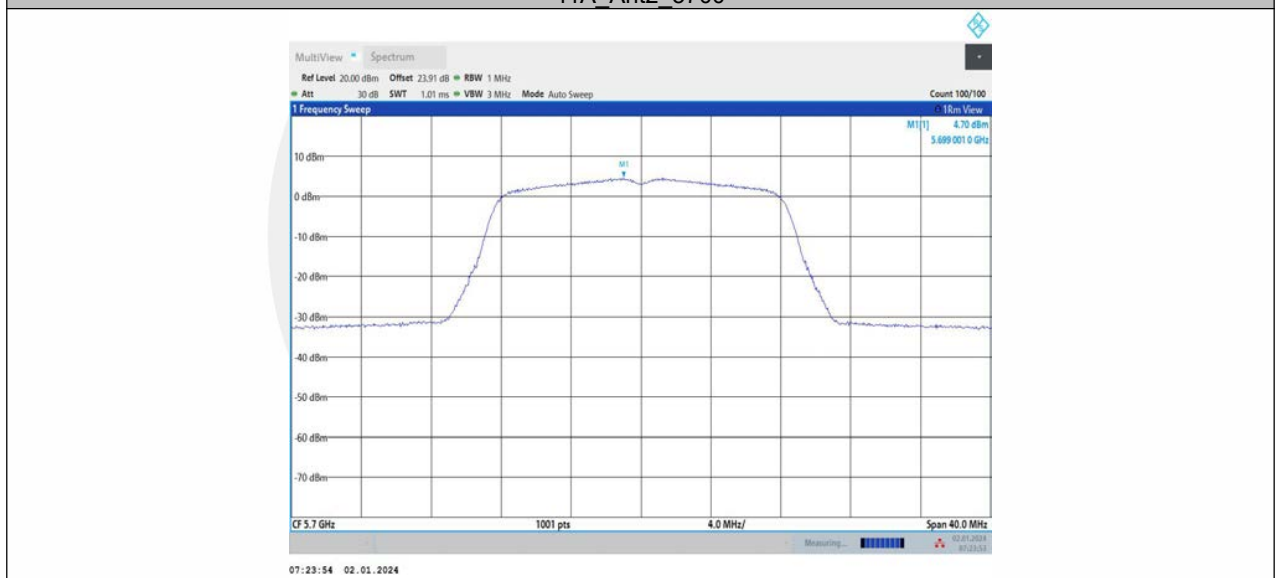
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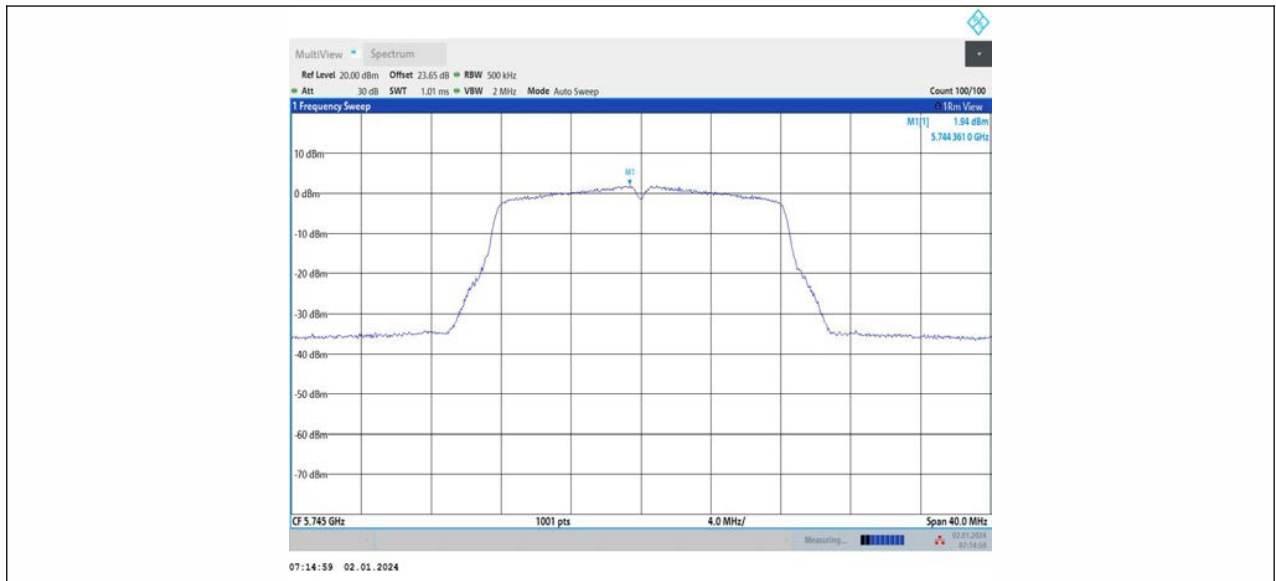
11A\_Ant1\_5700



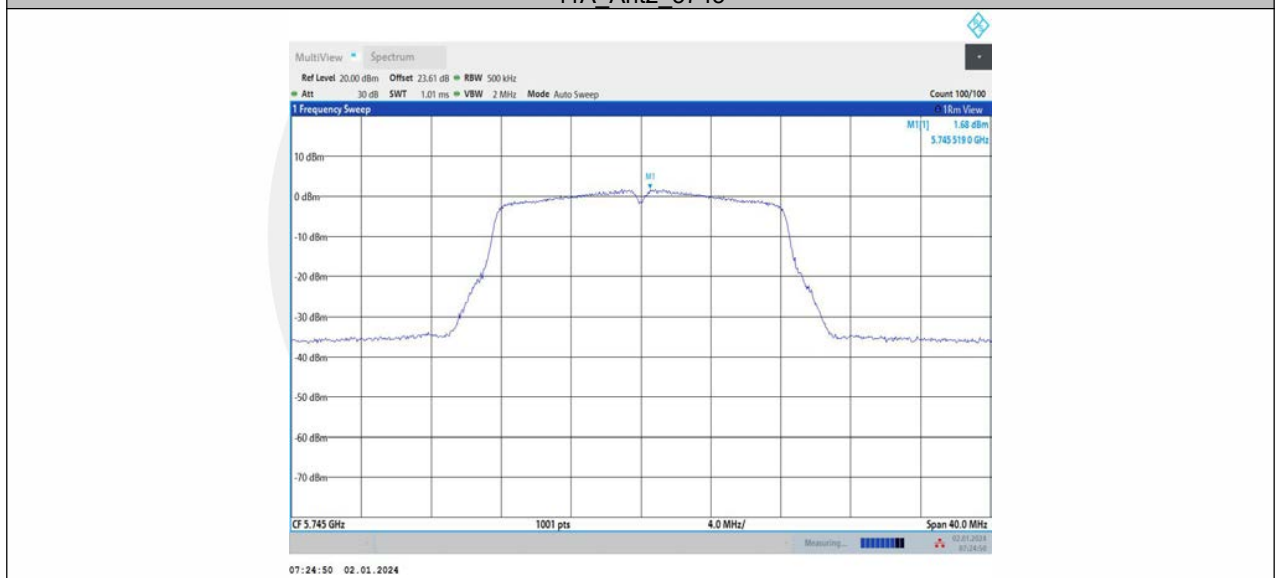
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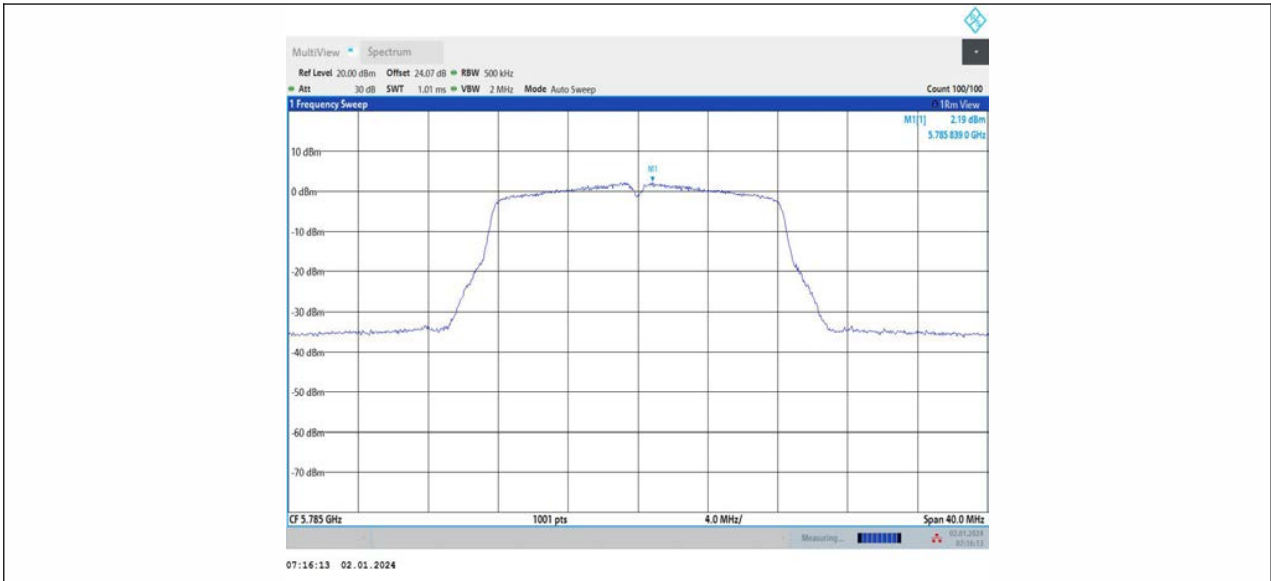
11A\_Ant1\_5745



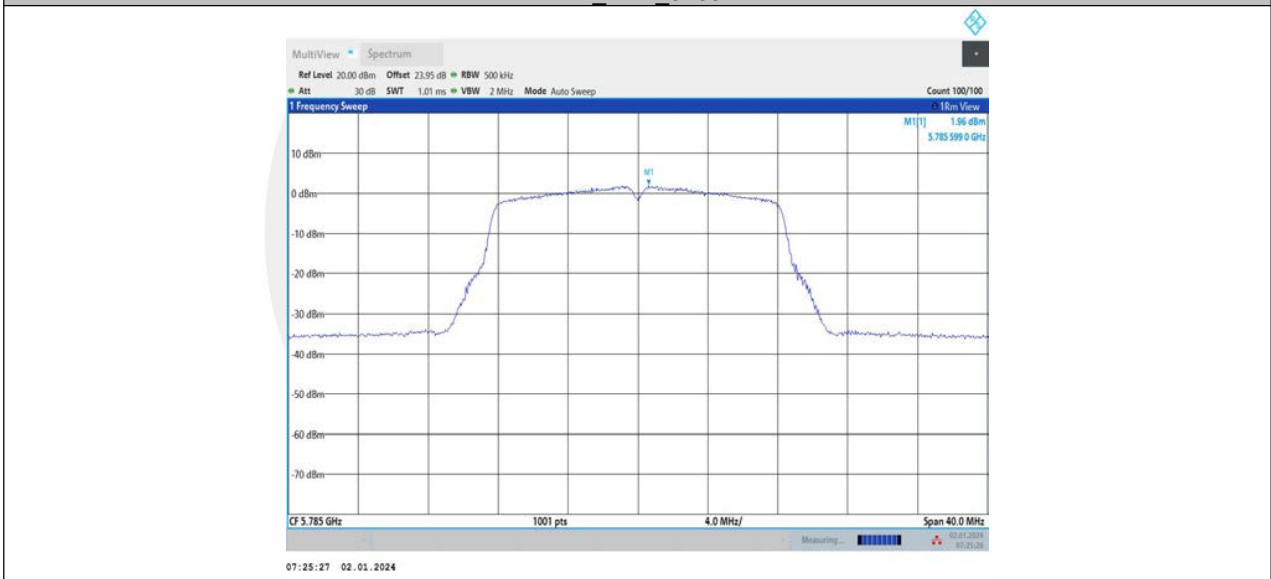
11A\_Ant2\_5745



11A\_Ant1\_5785



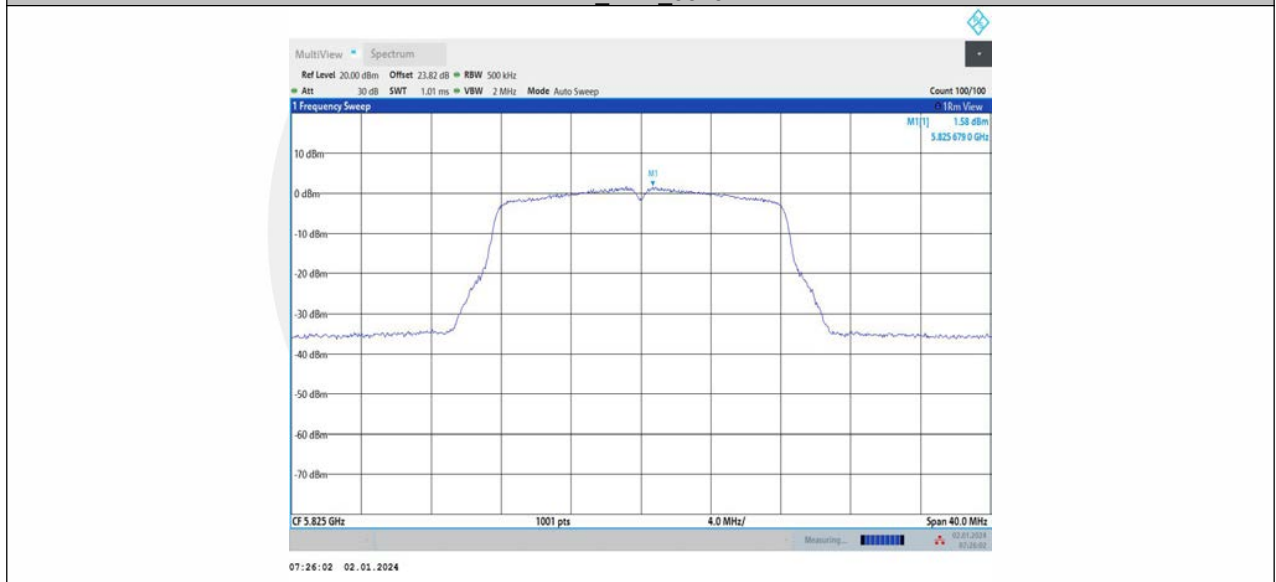
11A\_Ant2\_5785



11A\_Ant1\_5825

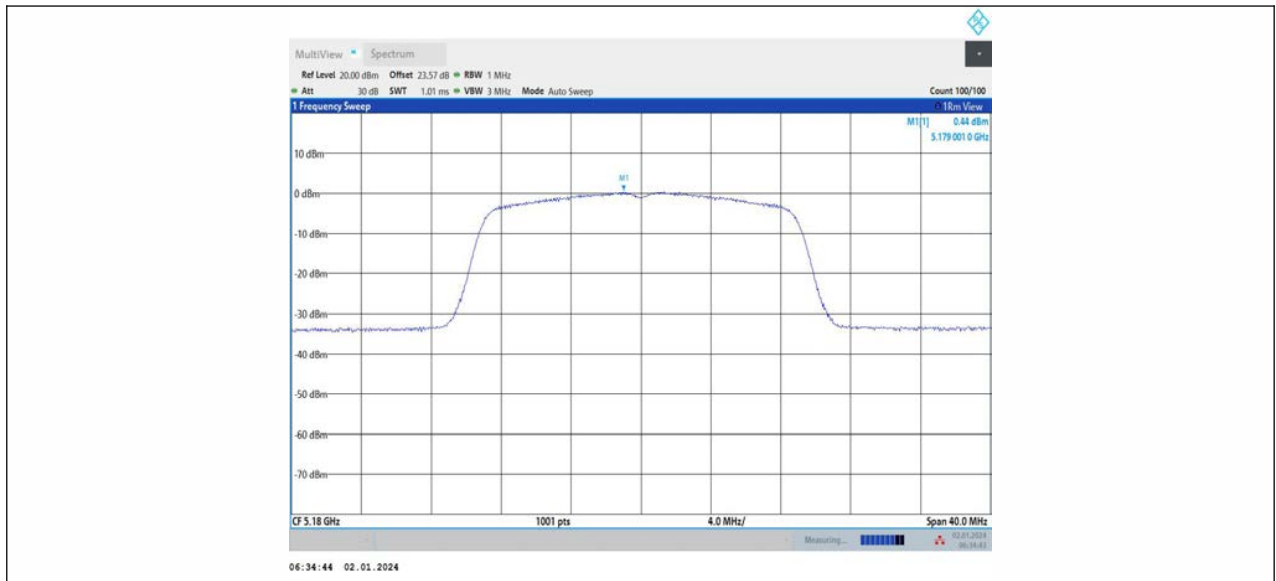


11A\_Ant2\_5825

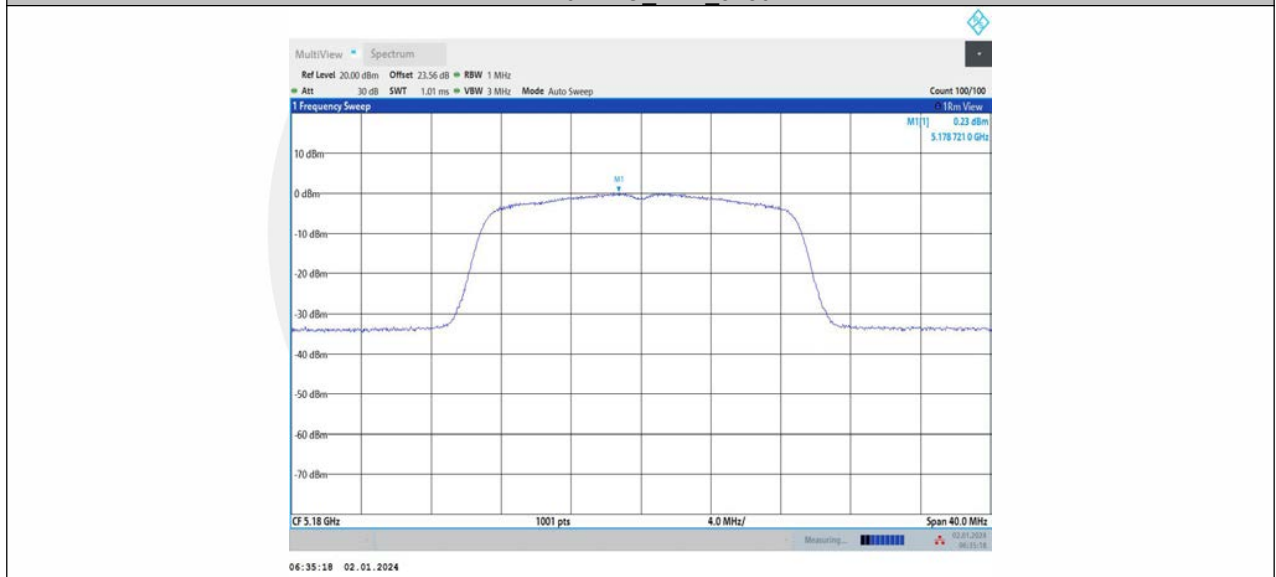


11N20MIMO\_Ant1\_5180

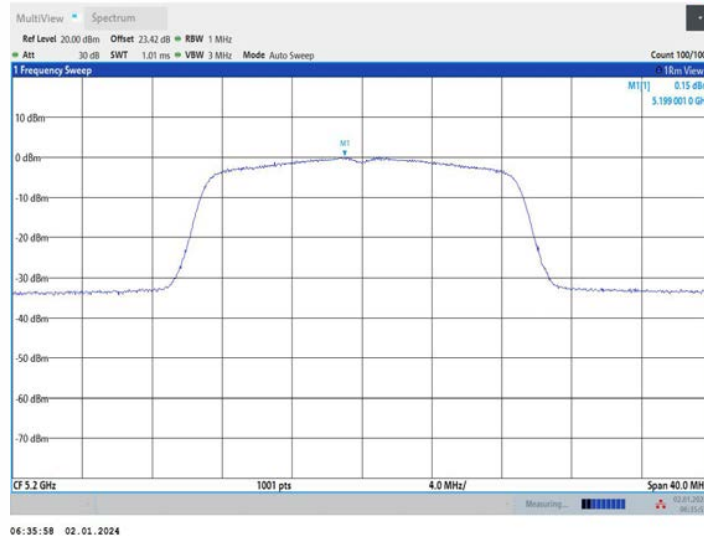




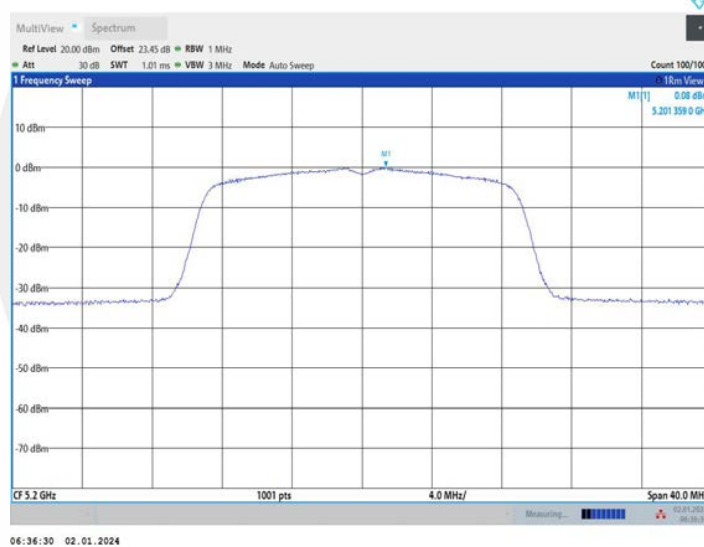
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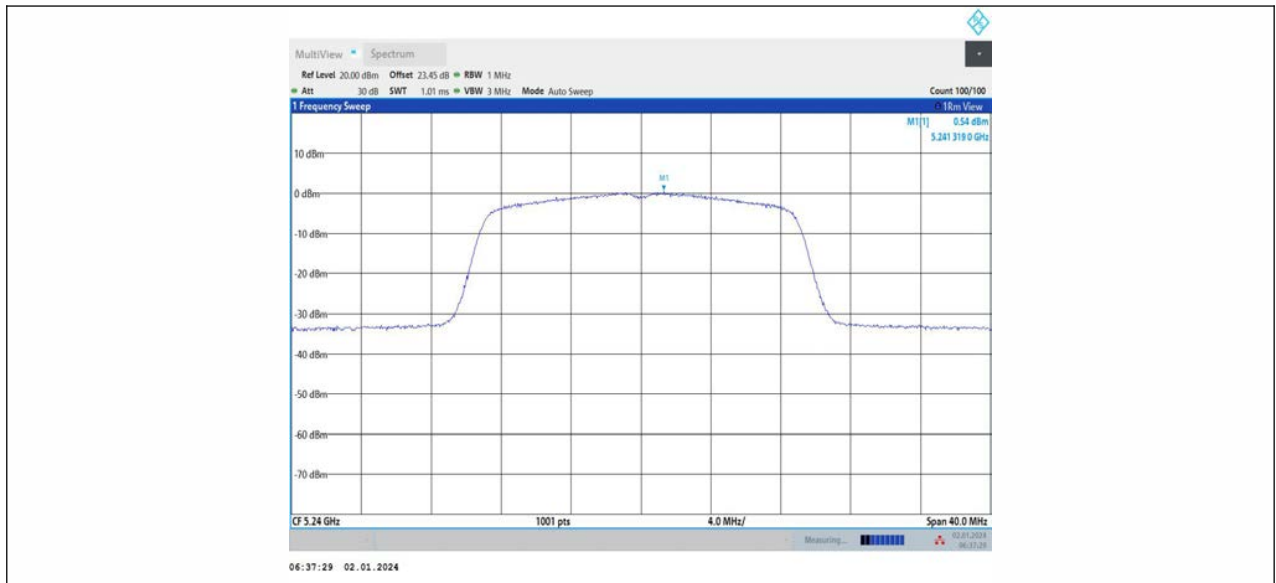
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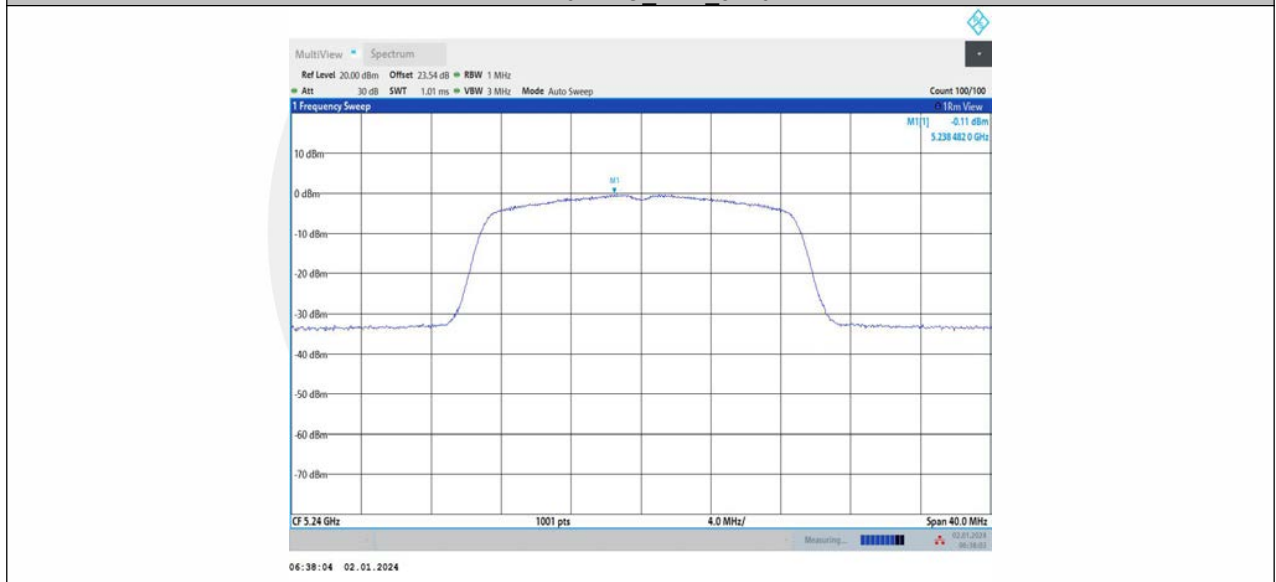
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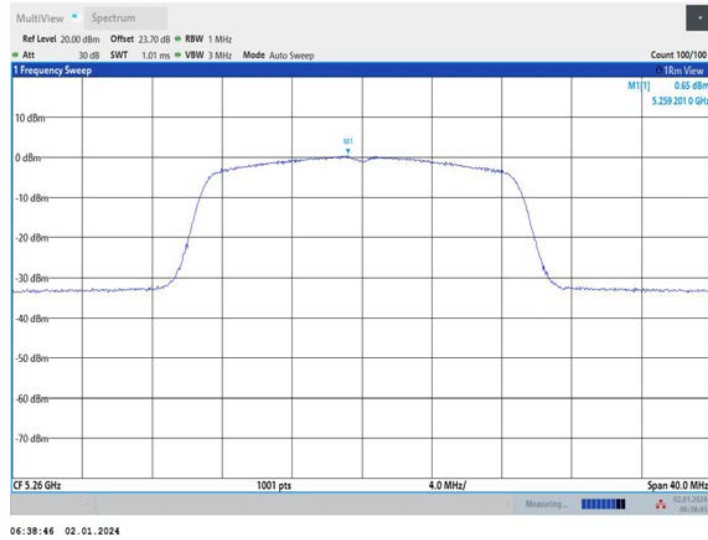
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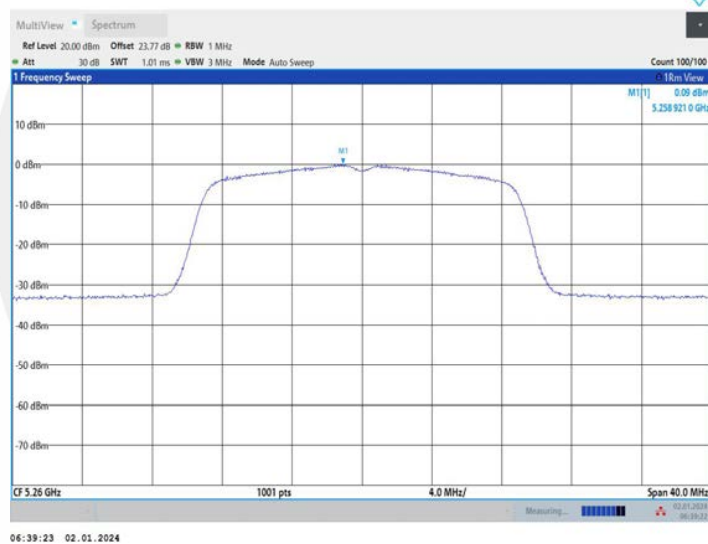
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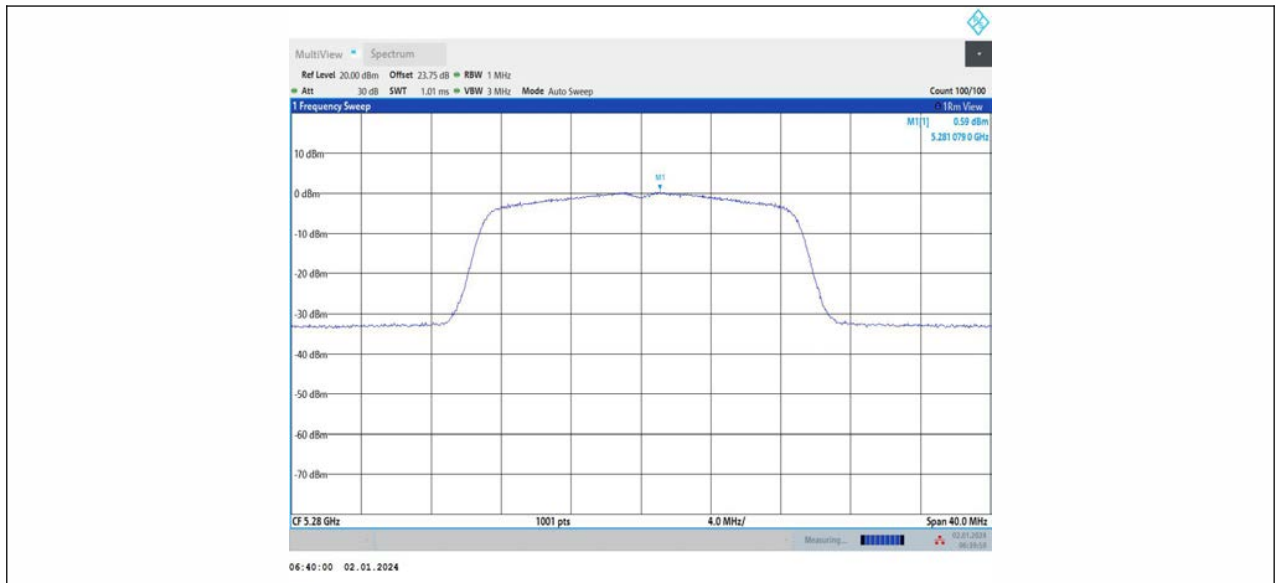
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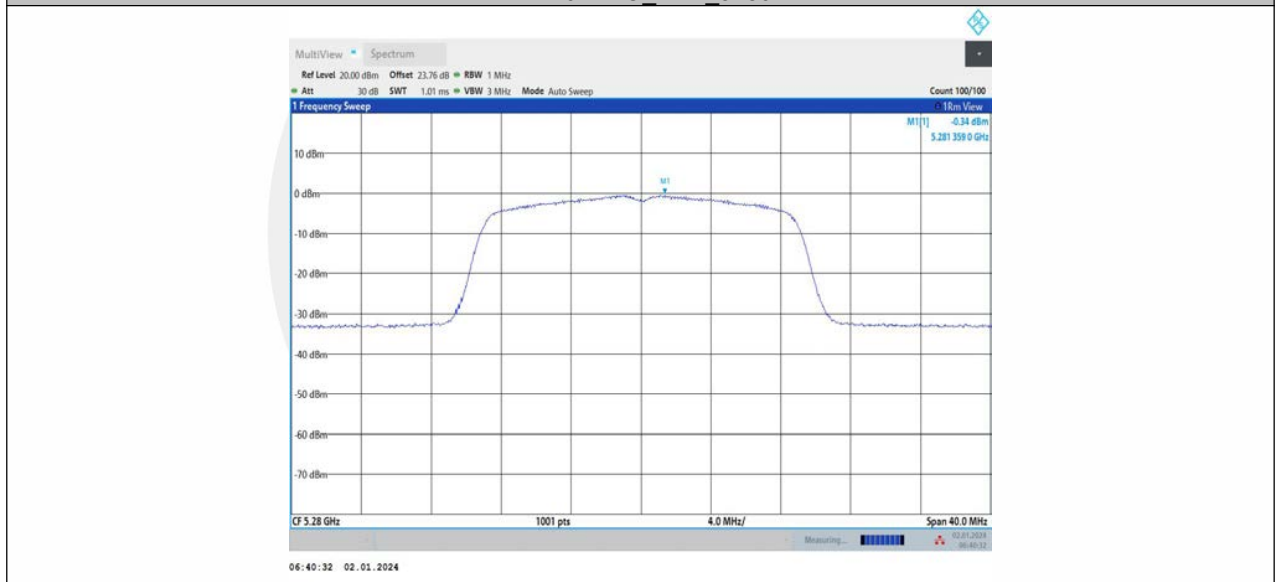
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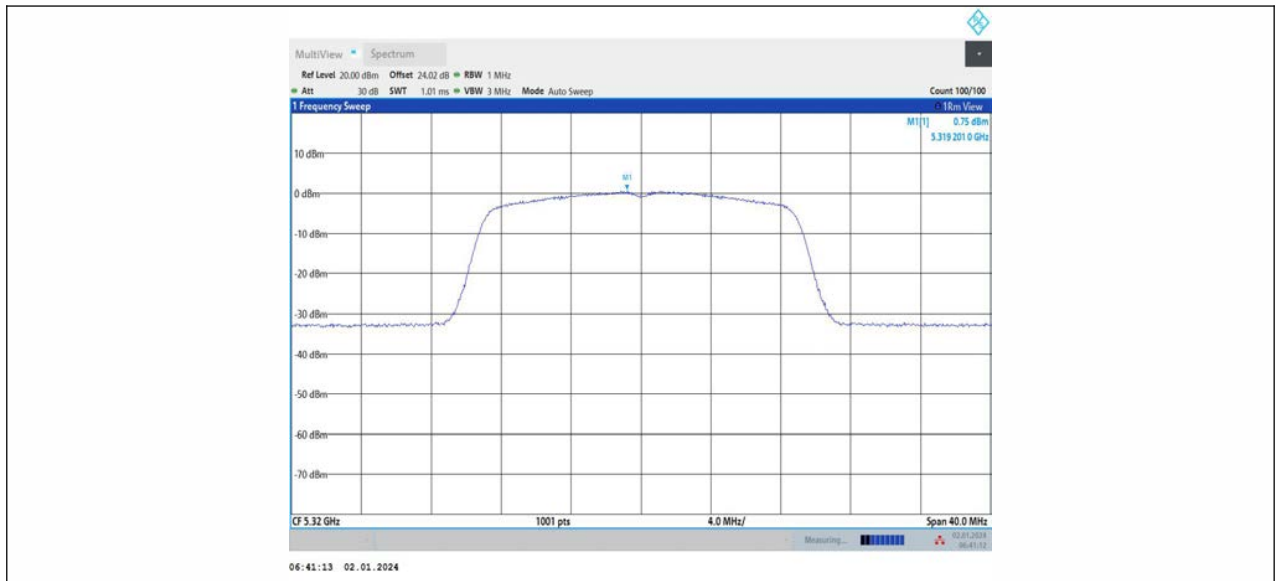
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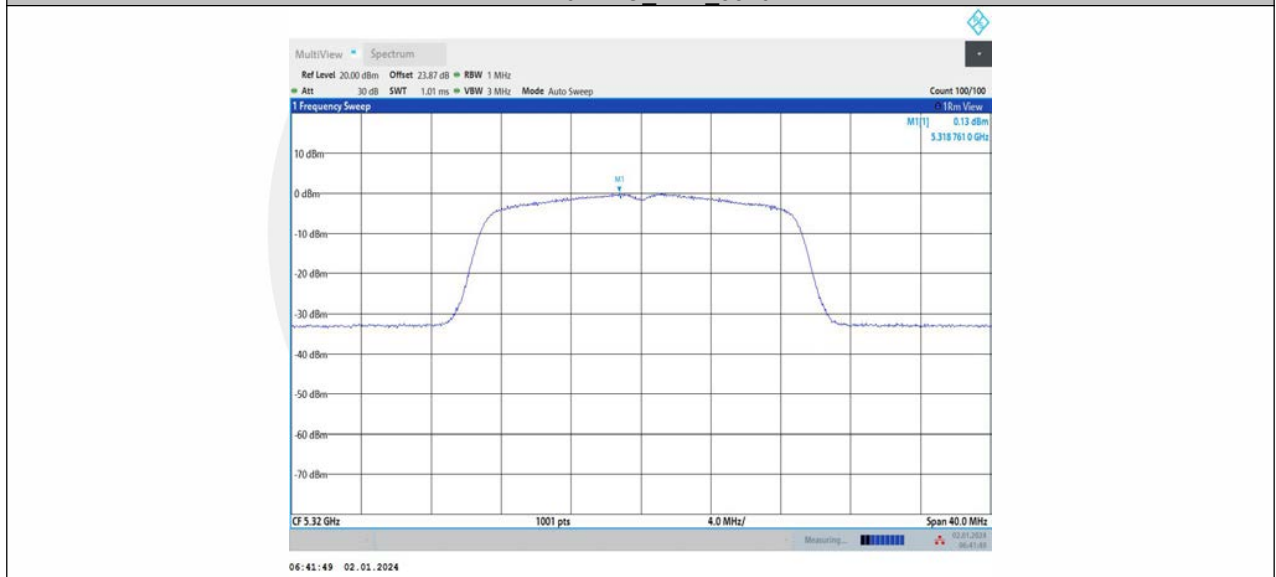
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11N20MIMO\_Ant1\_5320



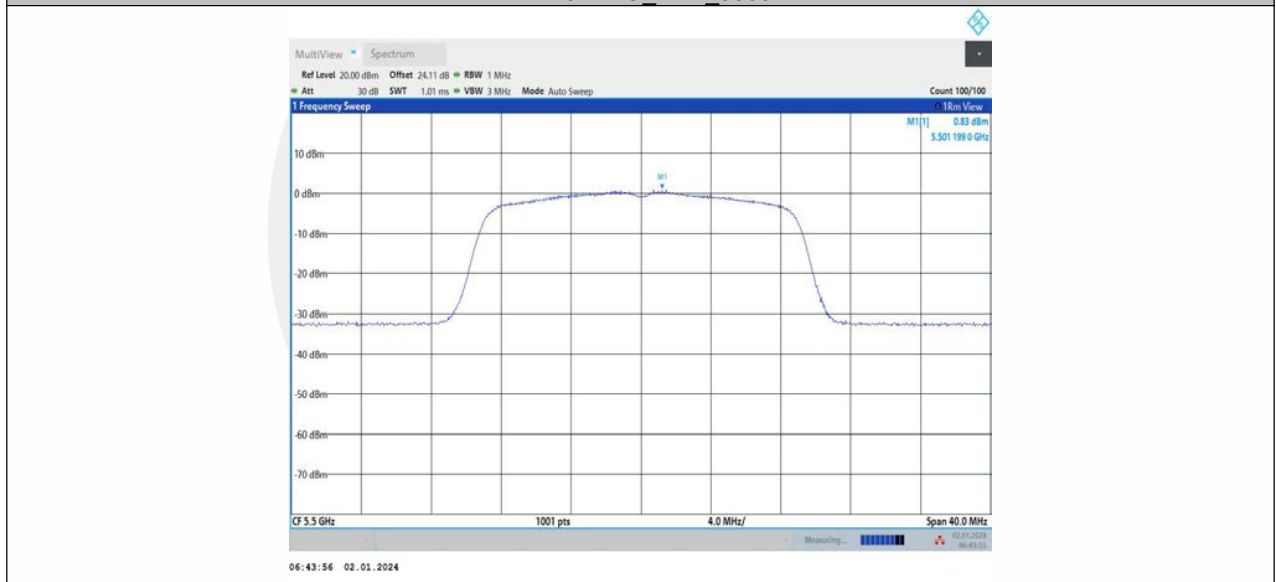
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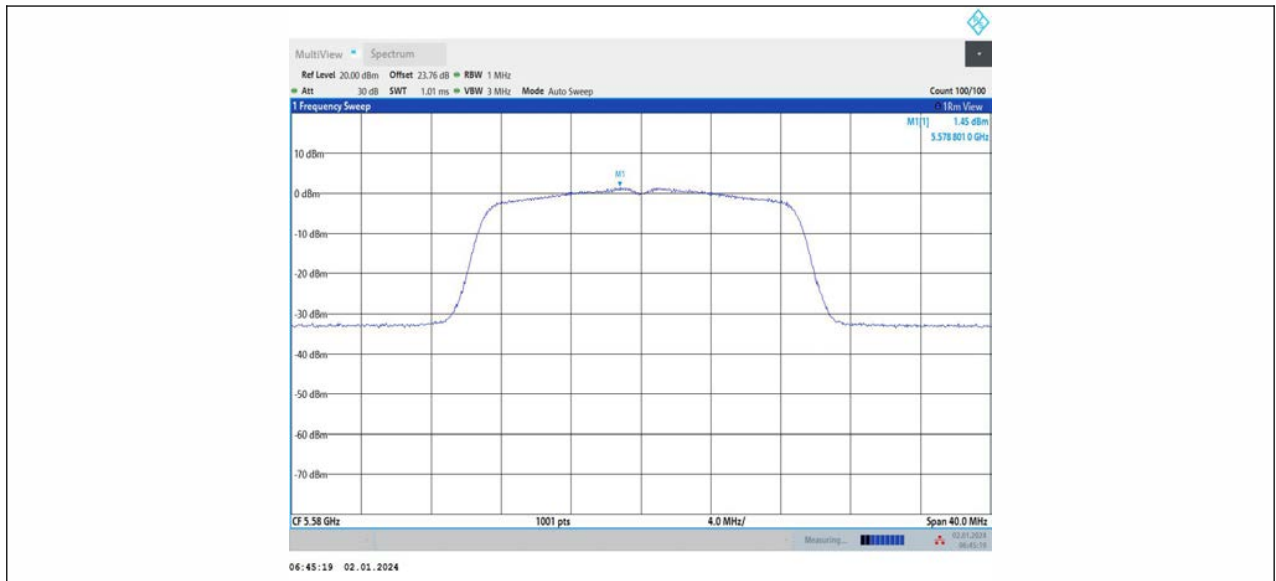
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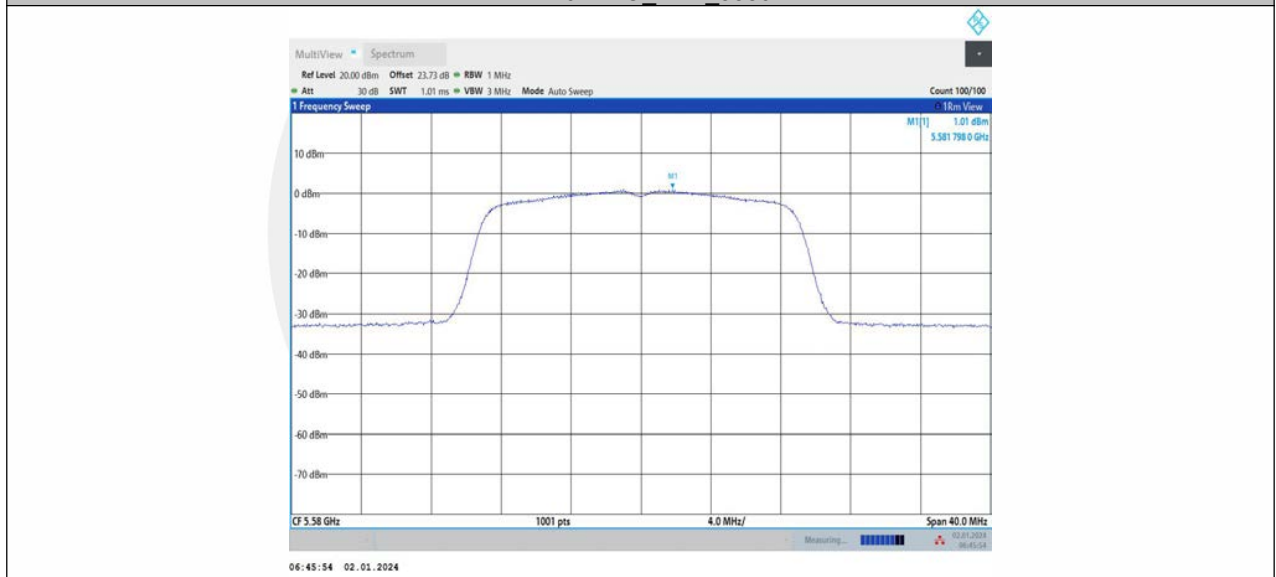
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11N20MIMO\_Ant1\_5580

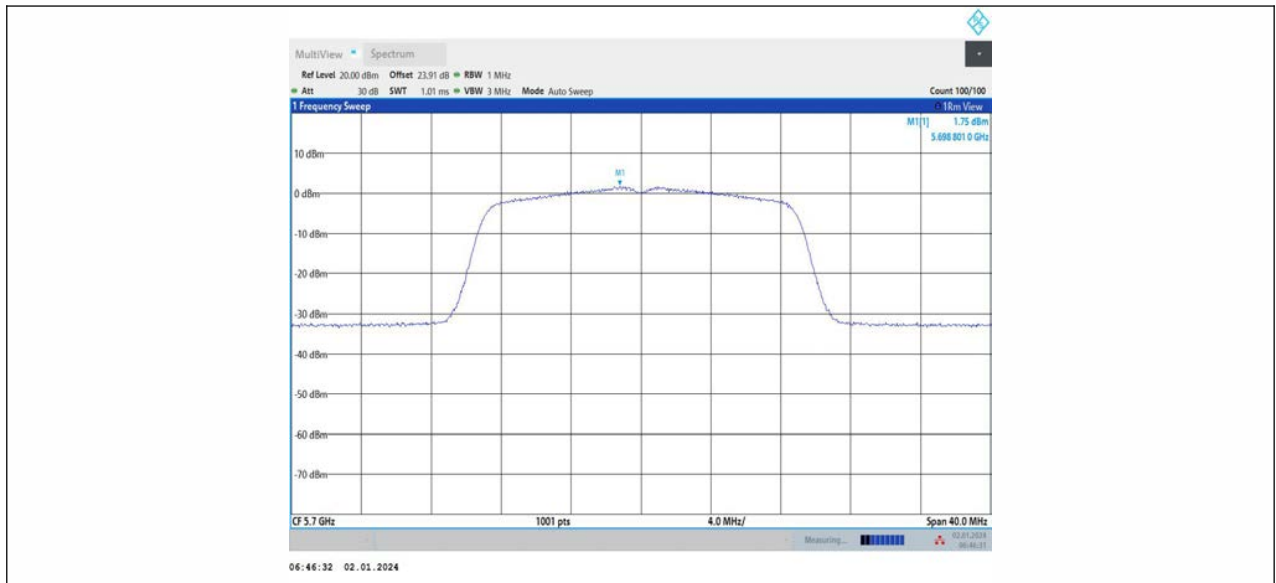


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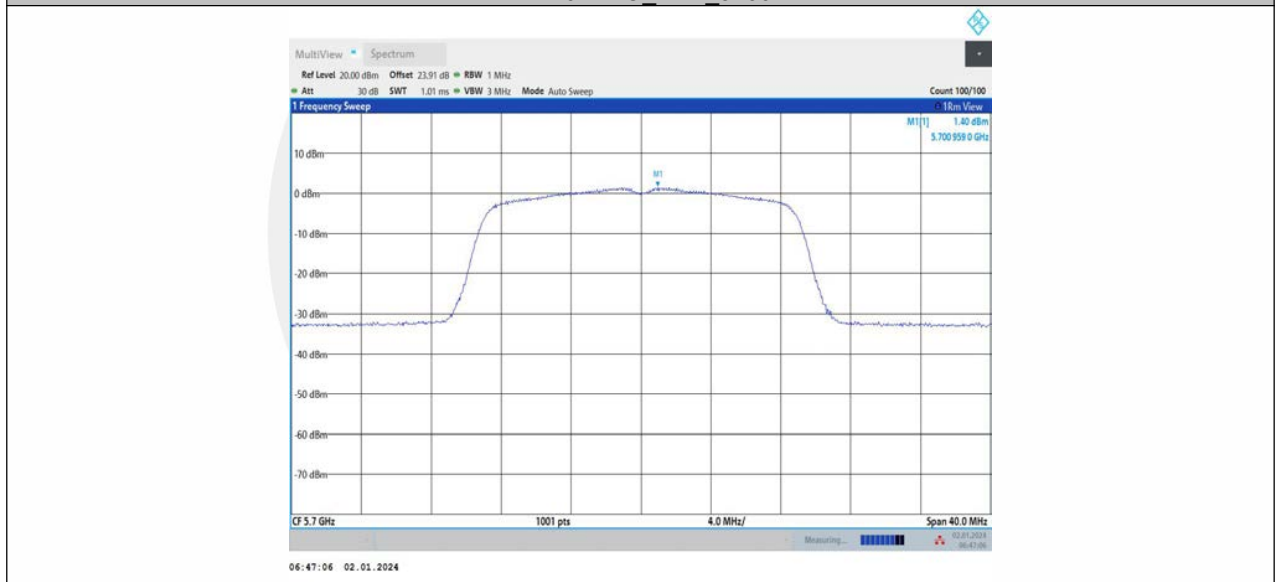


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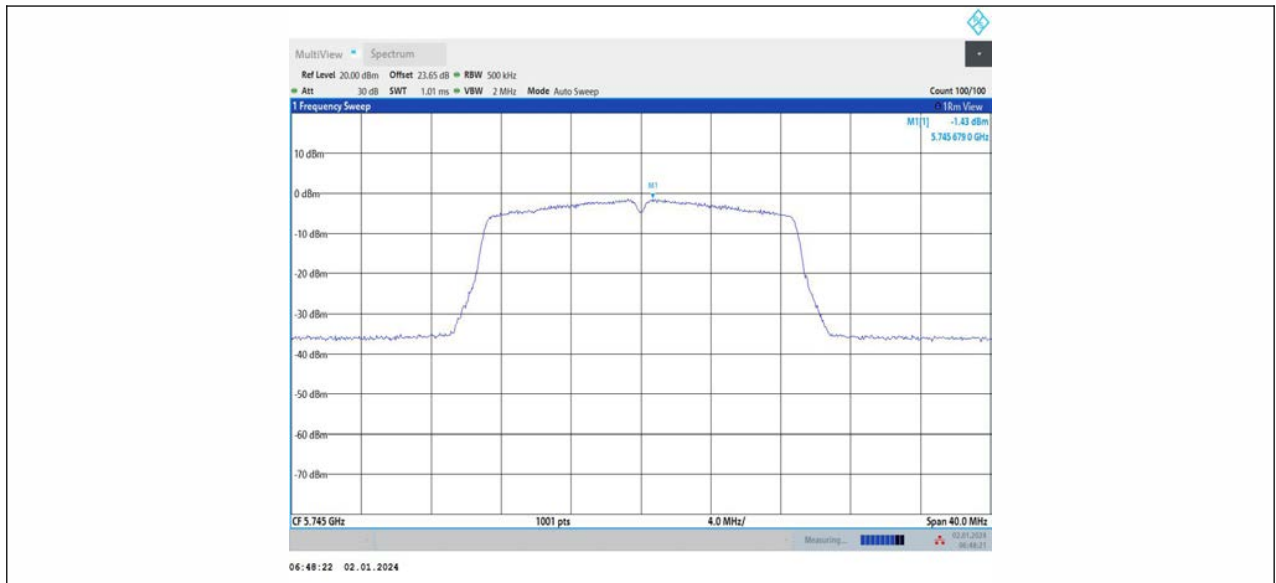




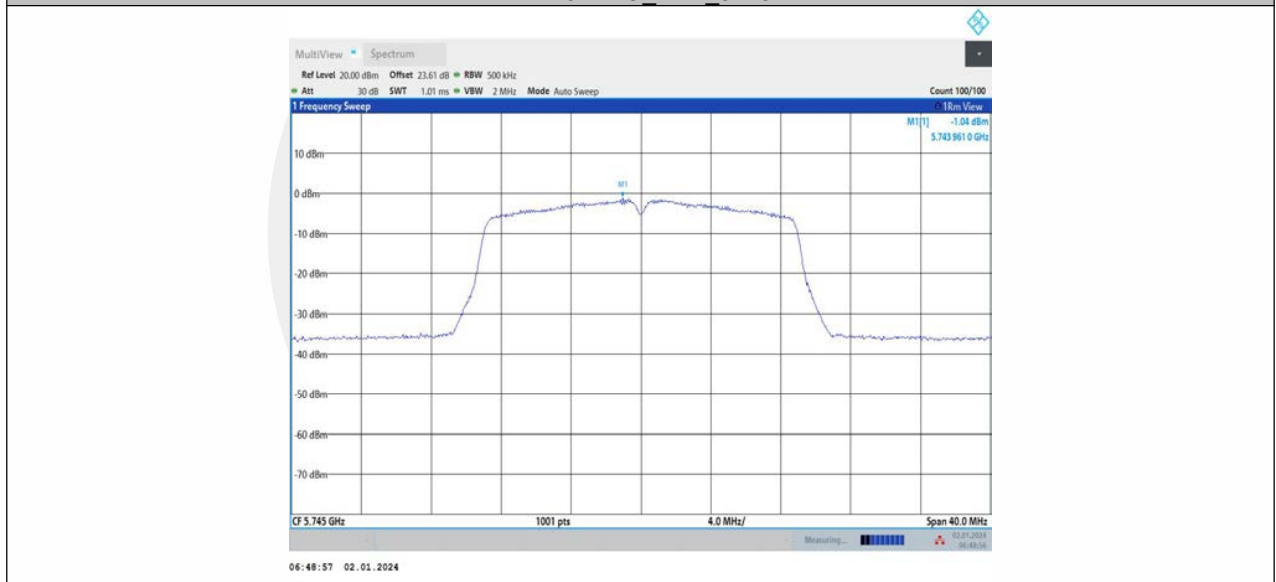
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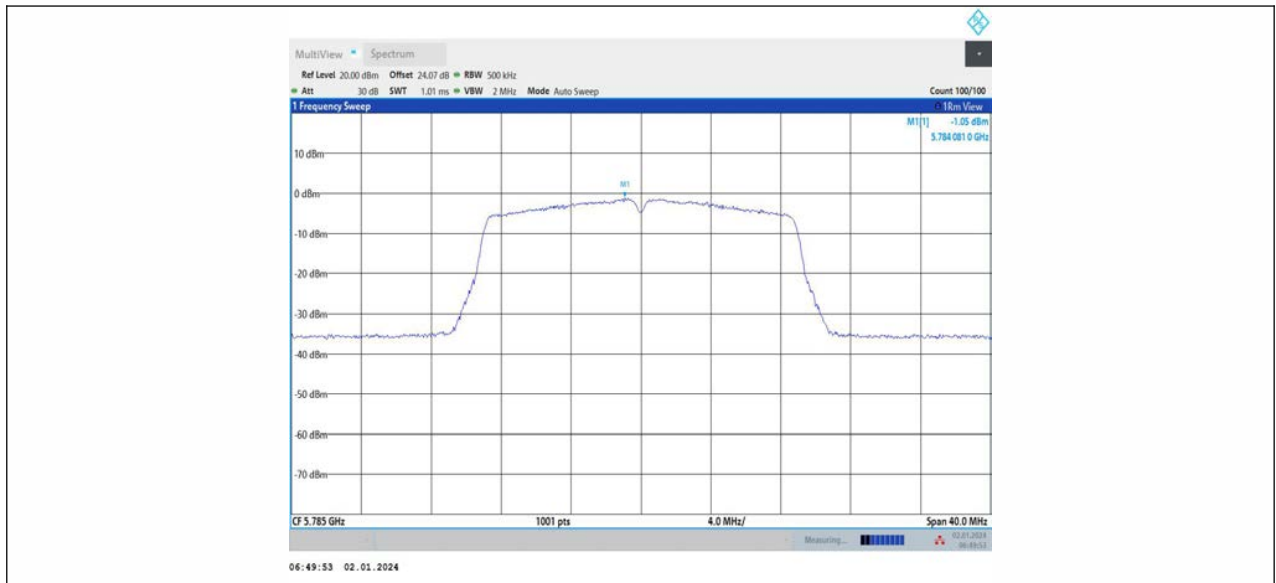
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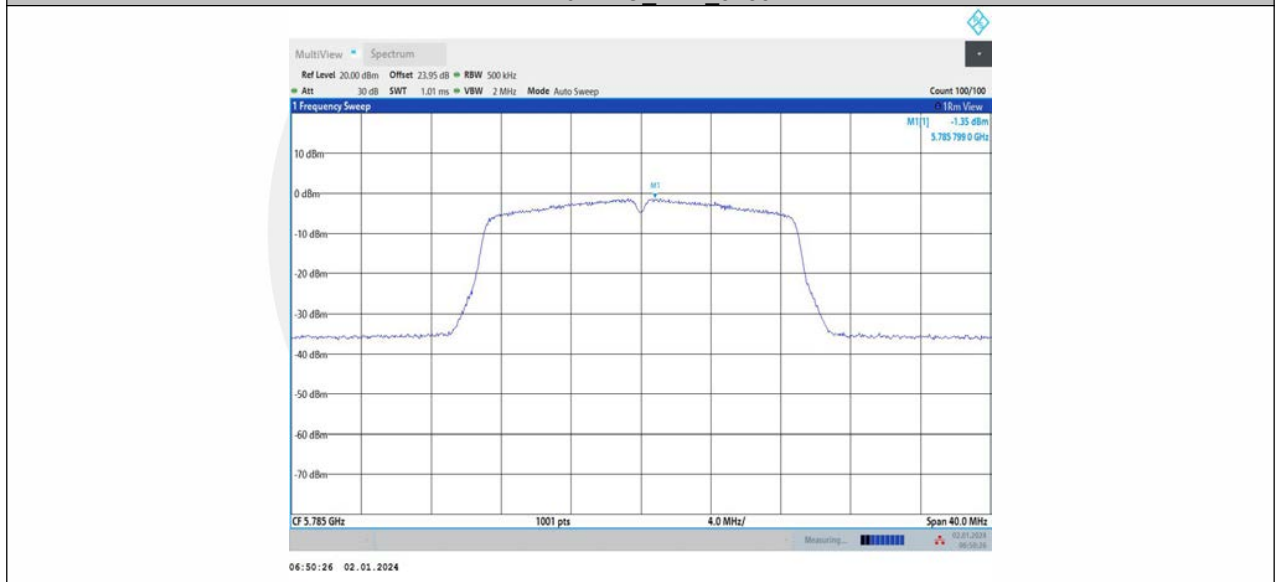
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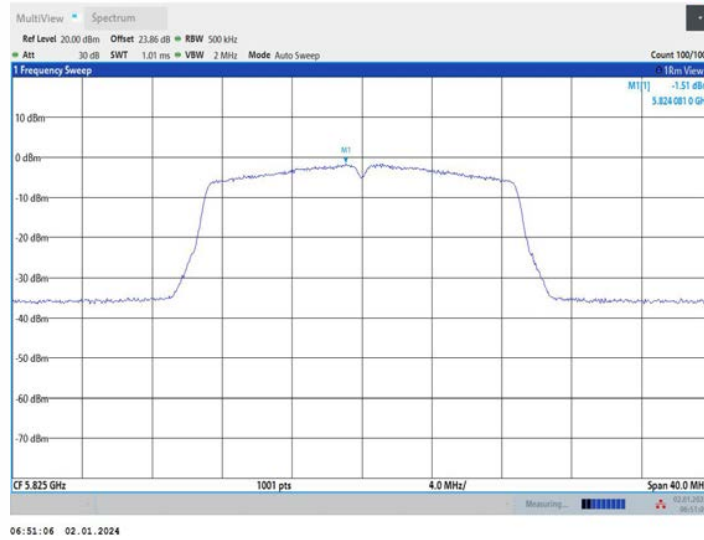
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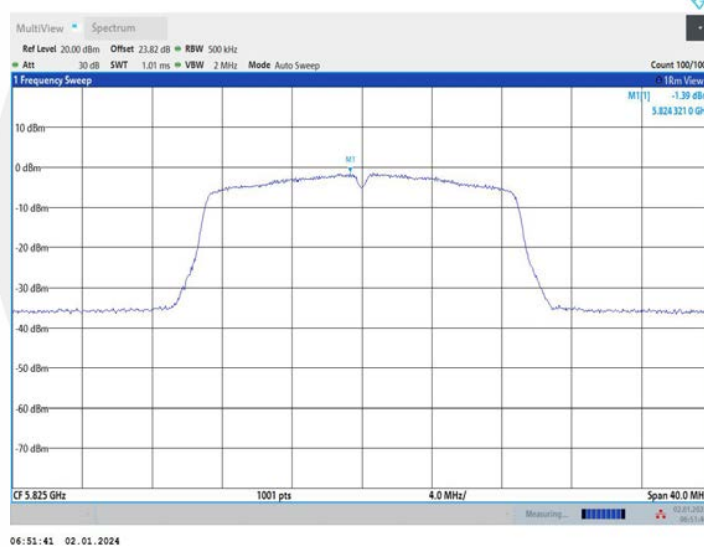
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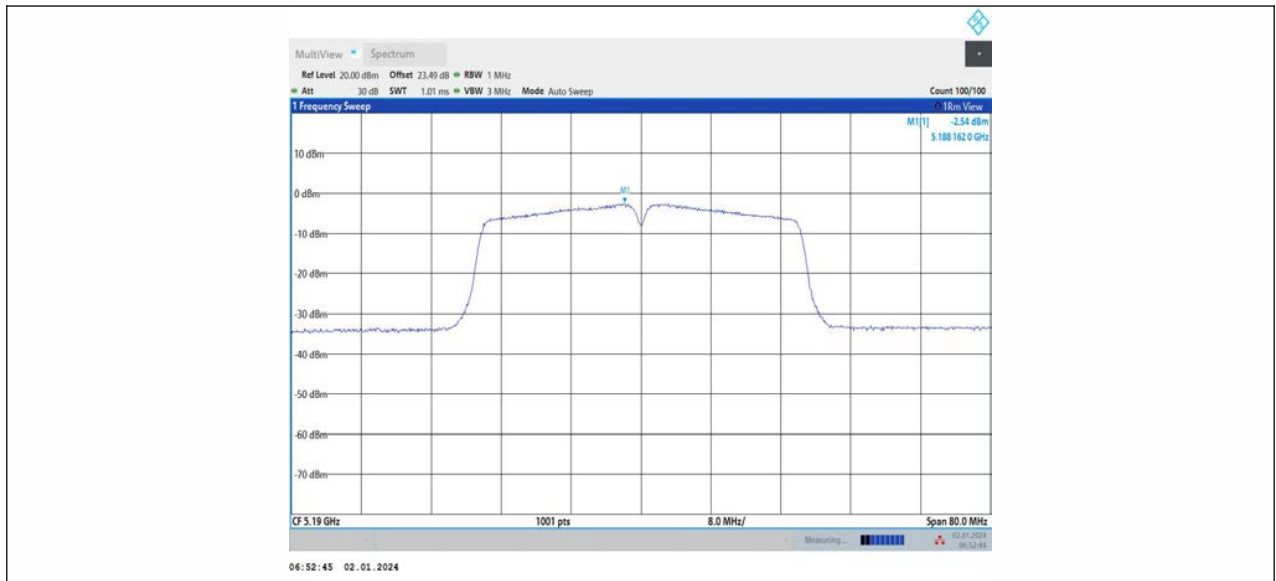
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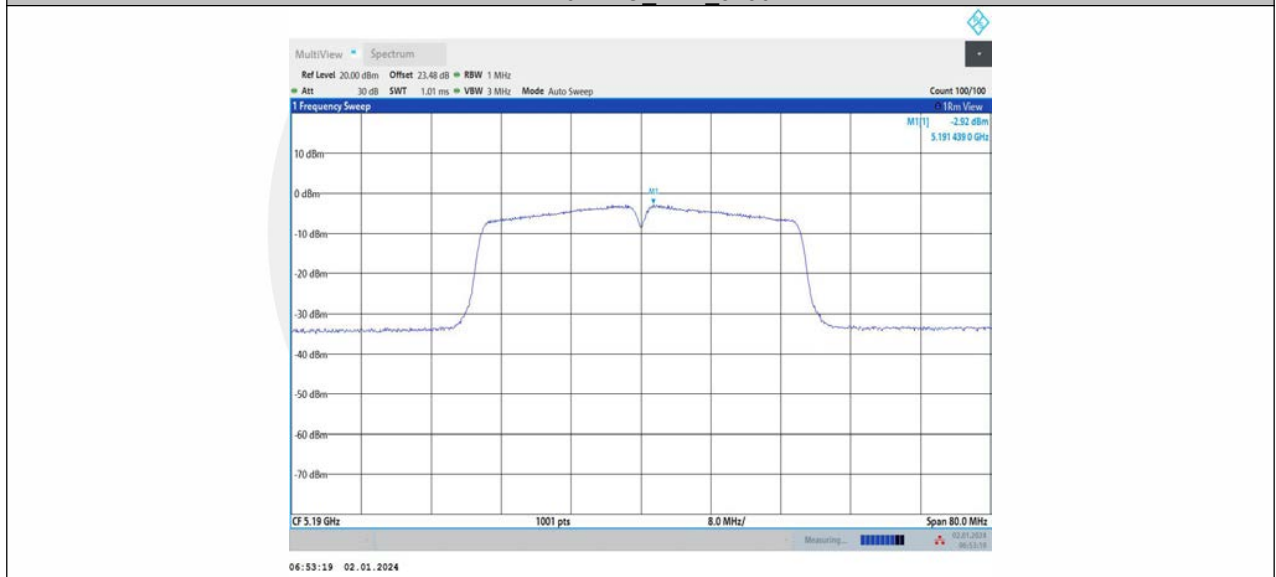
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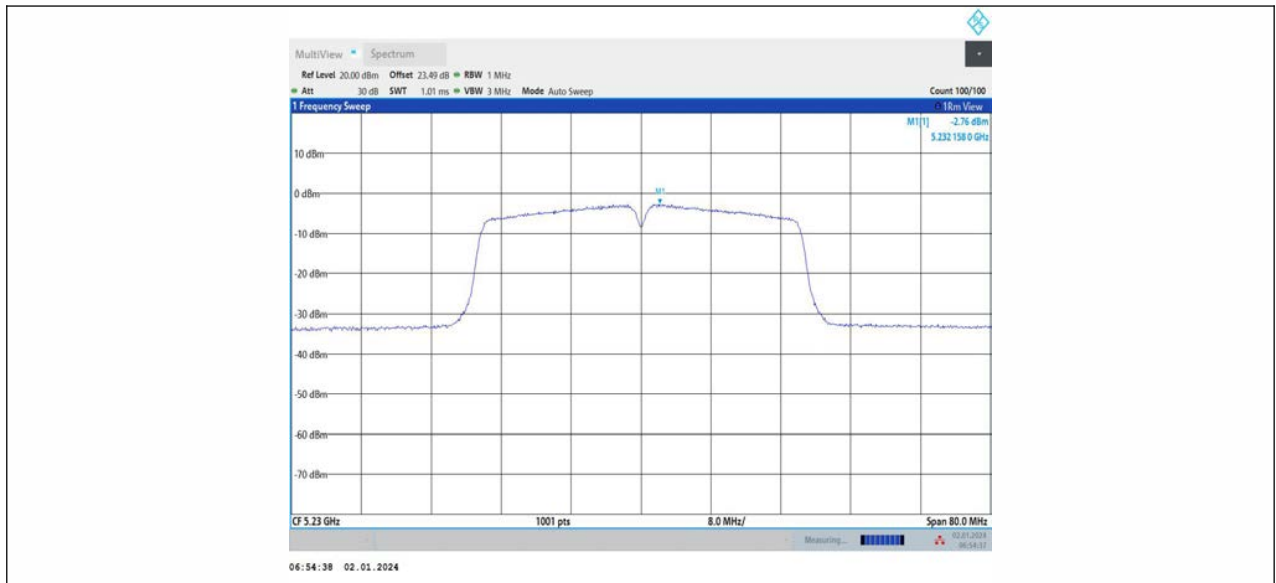
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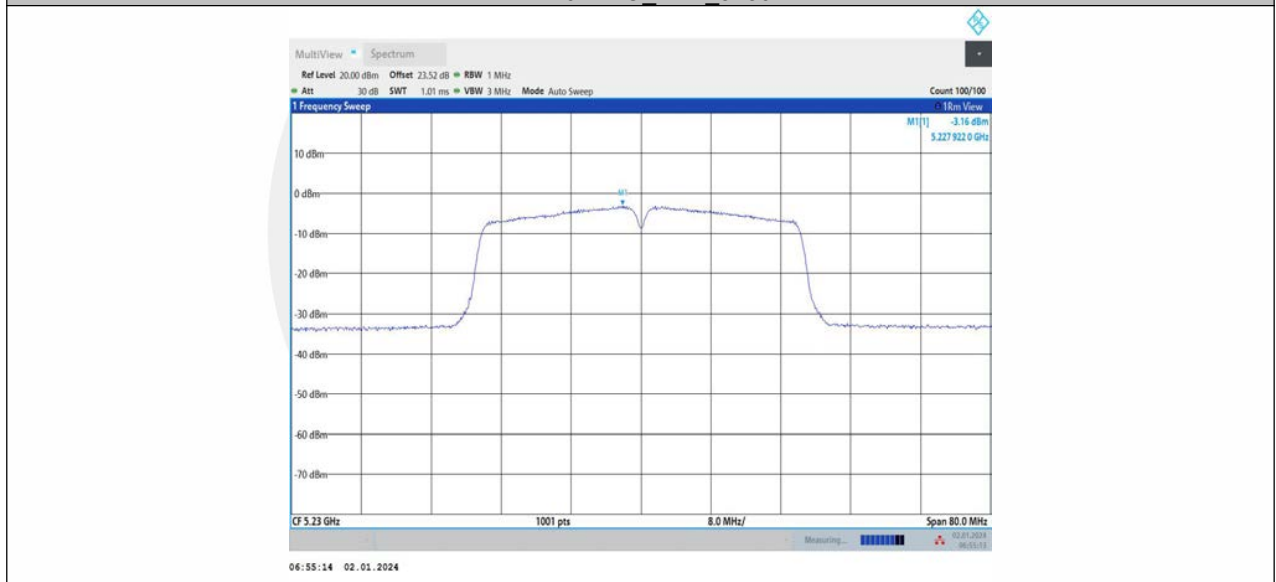
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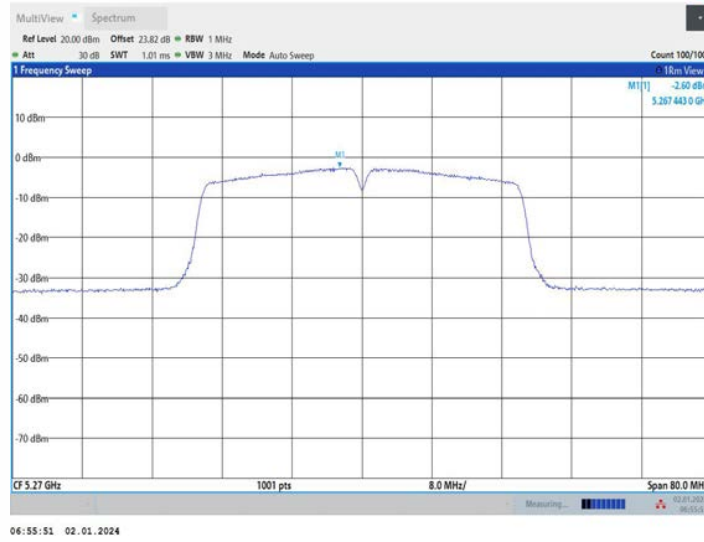
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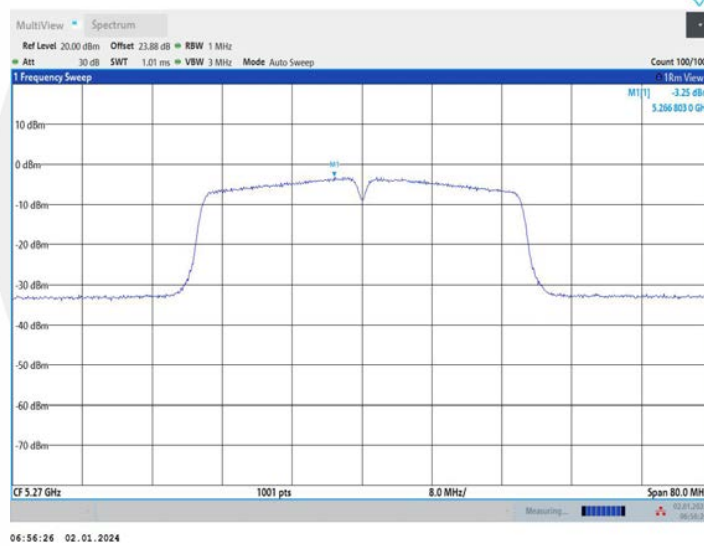
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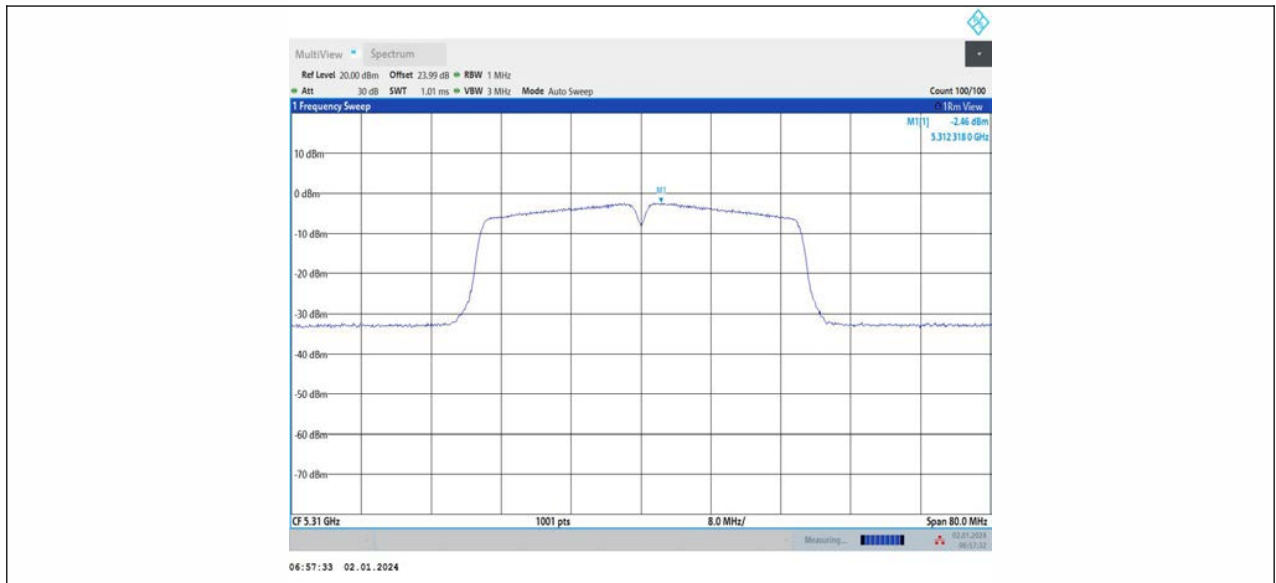
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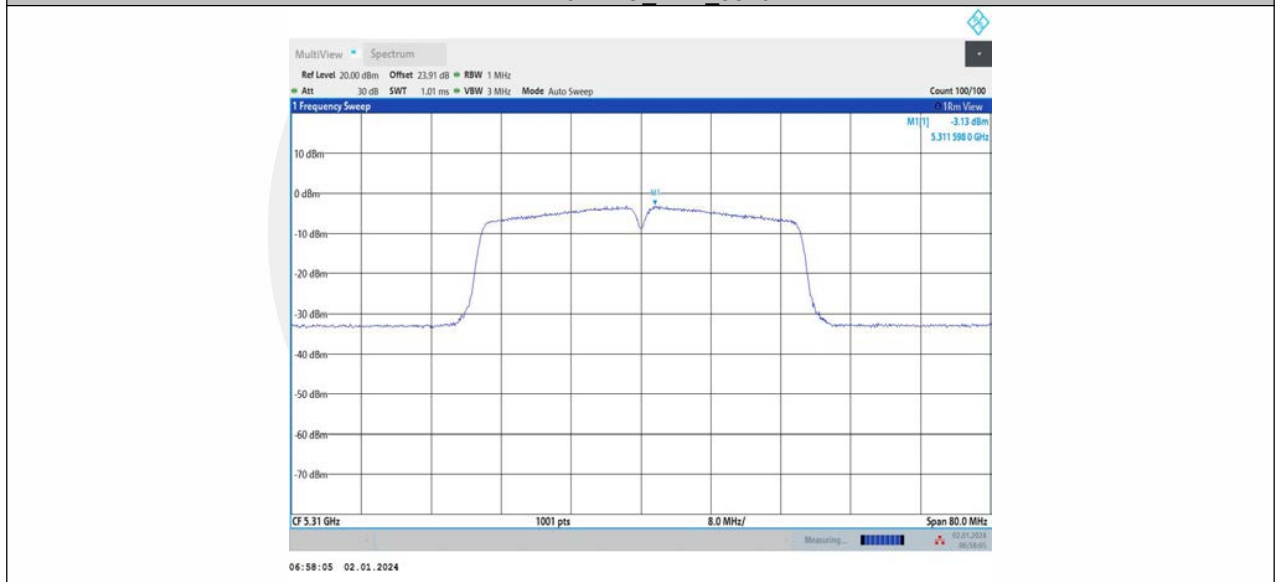
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11N40MIMO\_Ant1\_5310

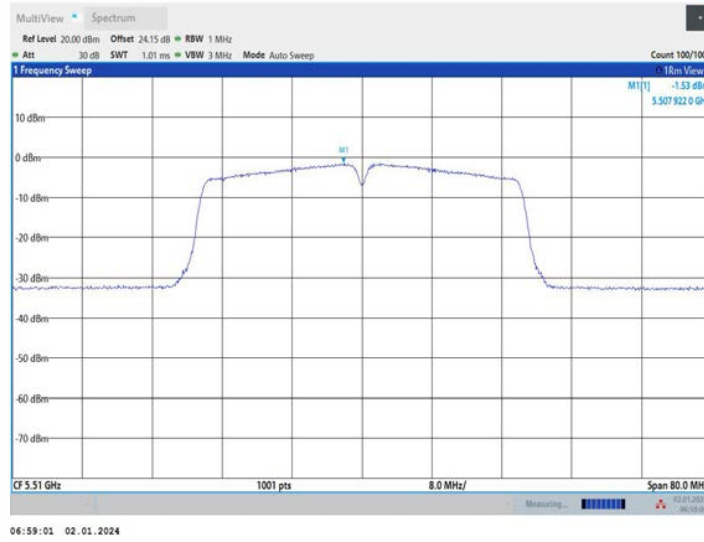


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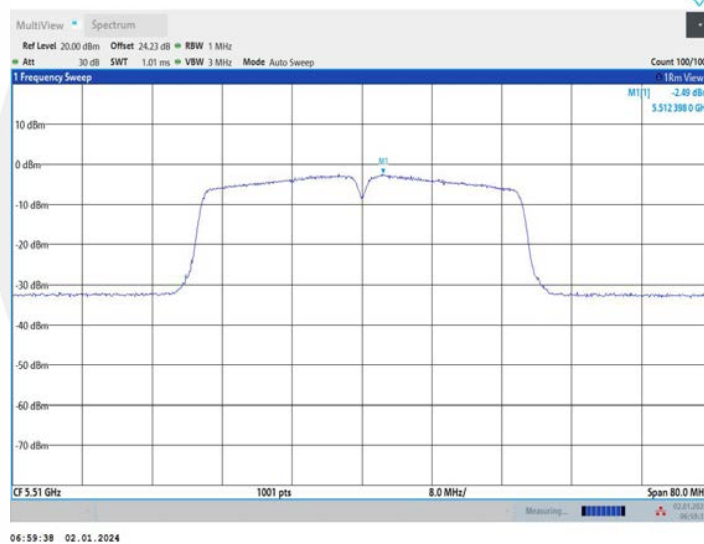


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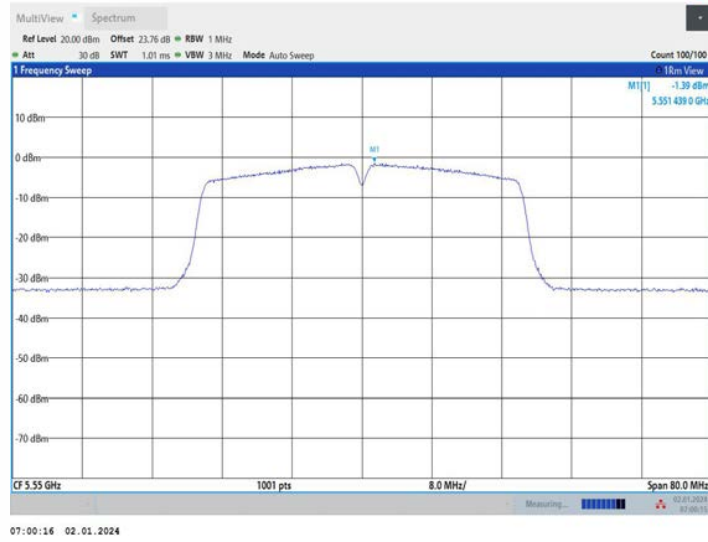




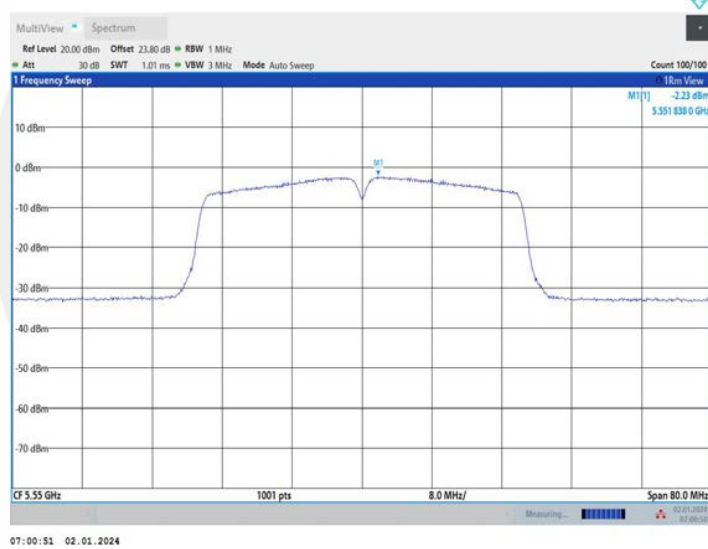
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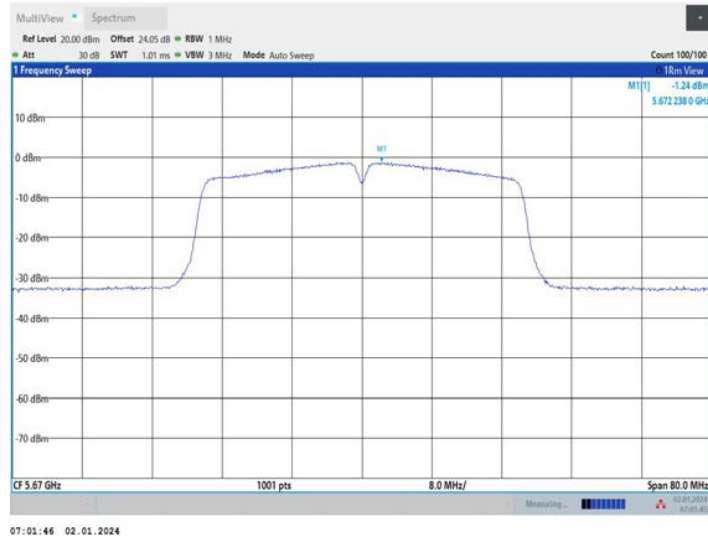
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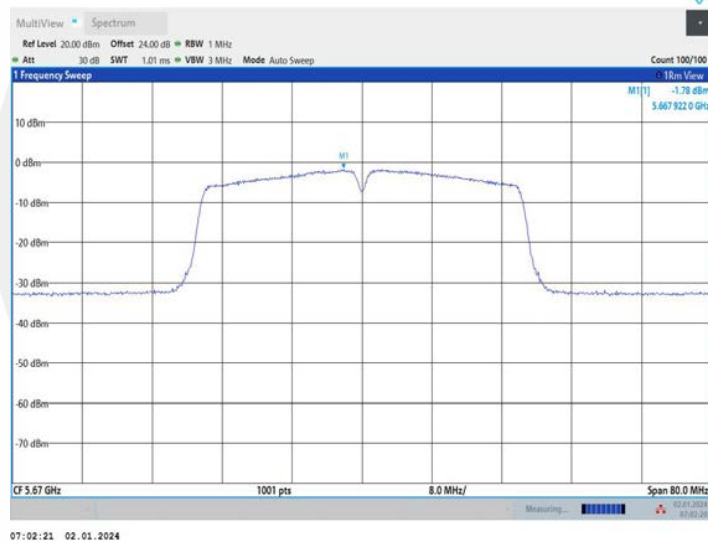
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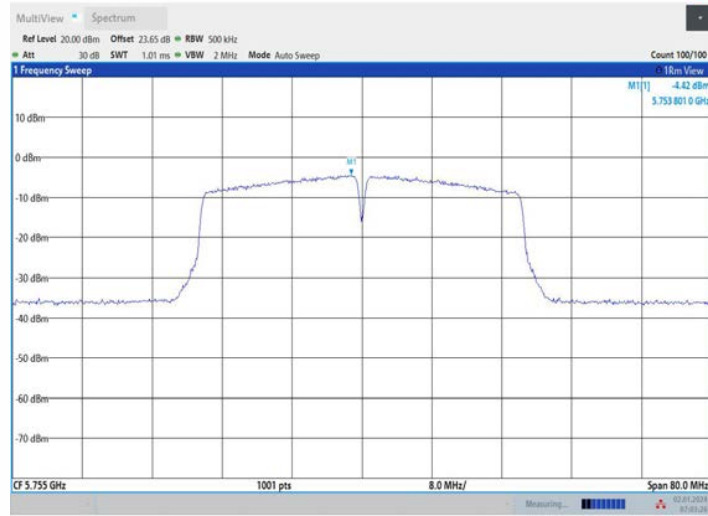
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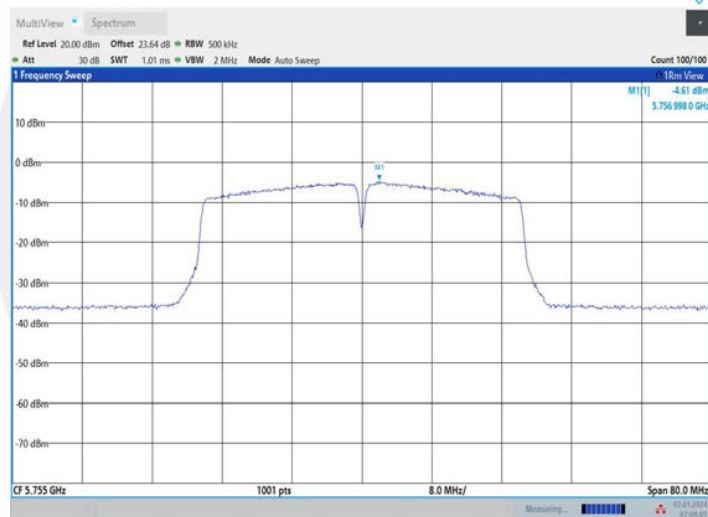
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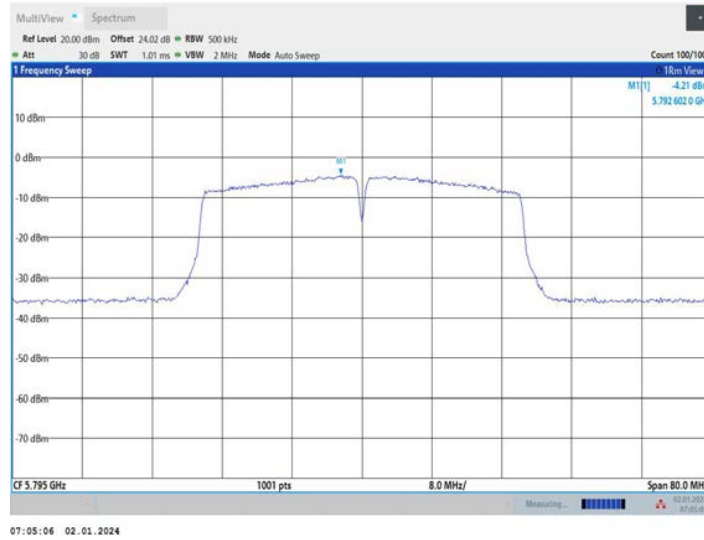
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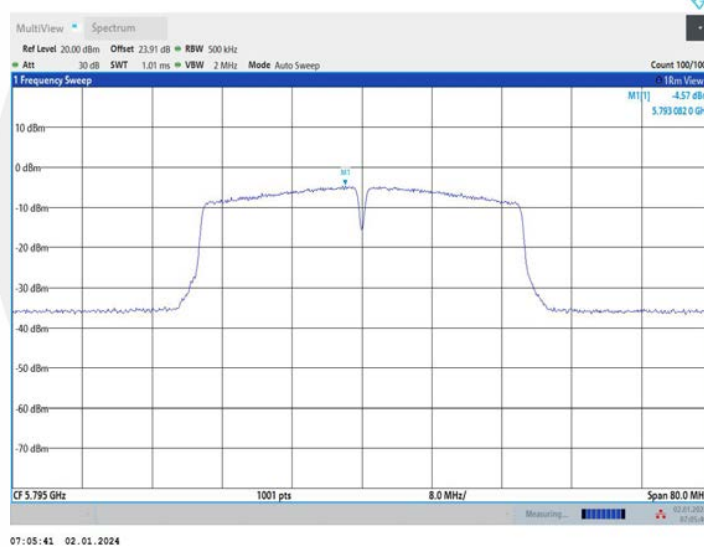
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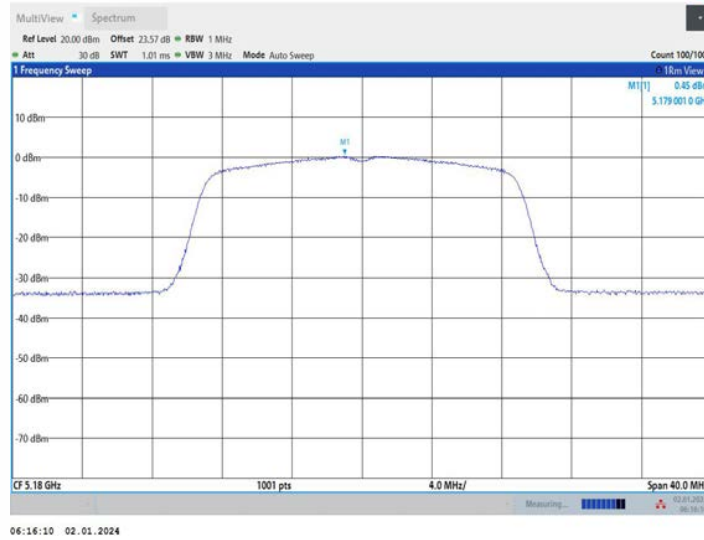
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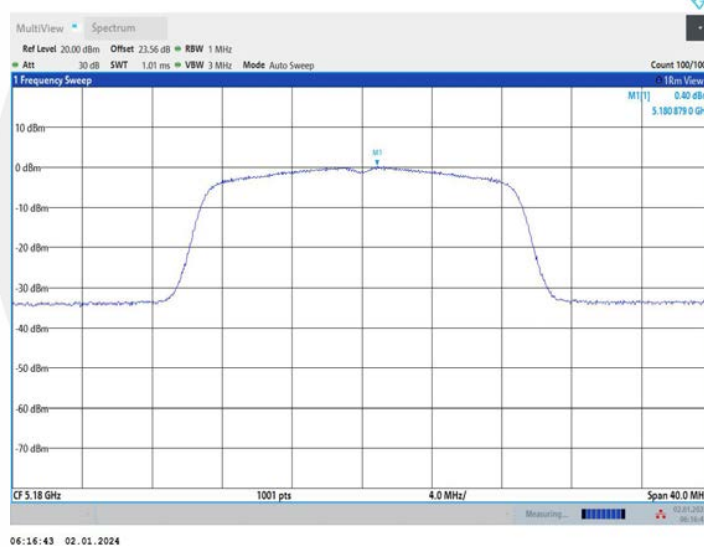
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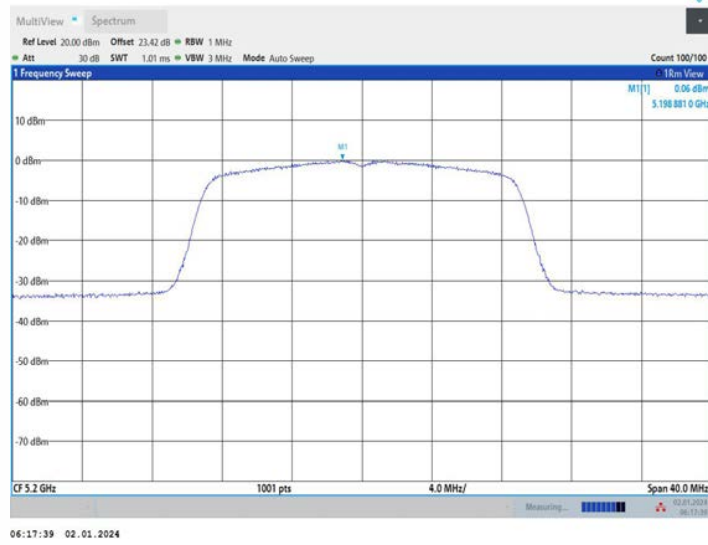
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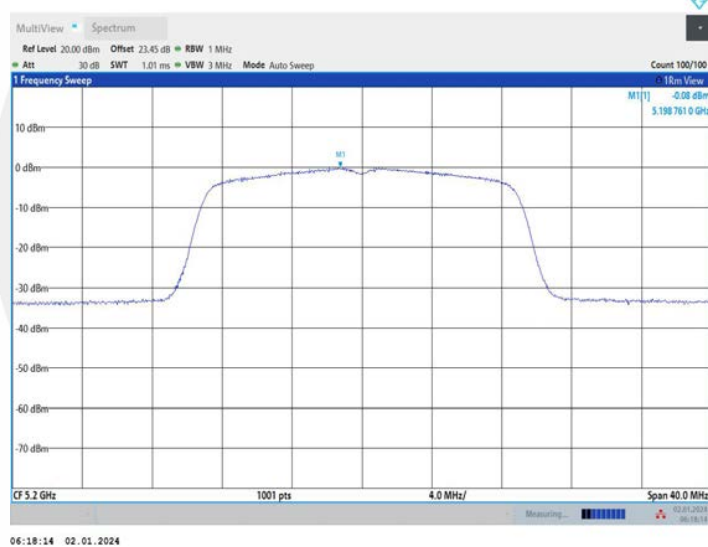
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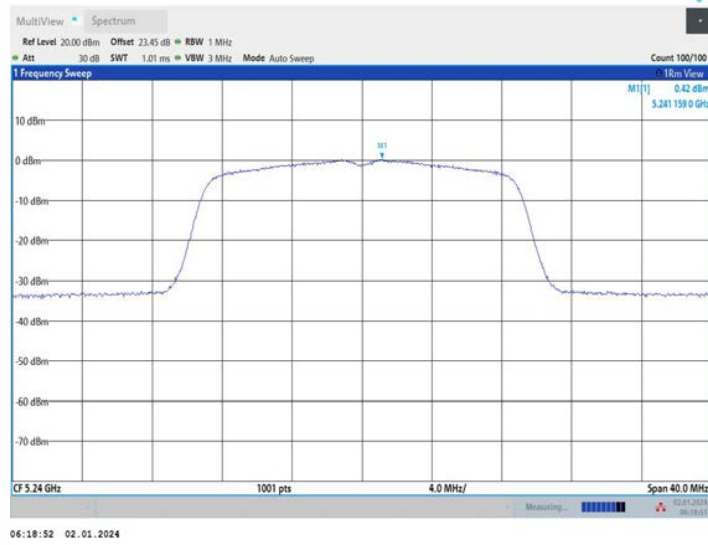
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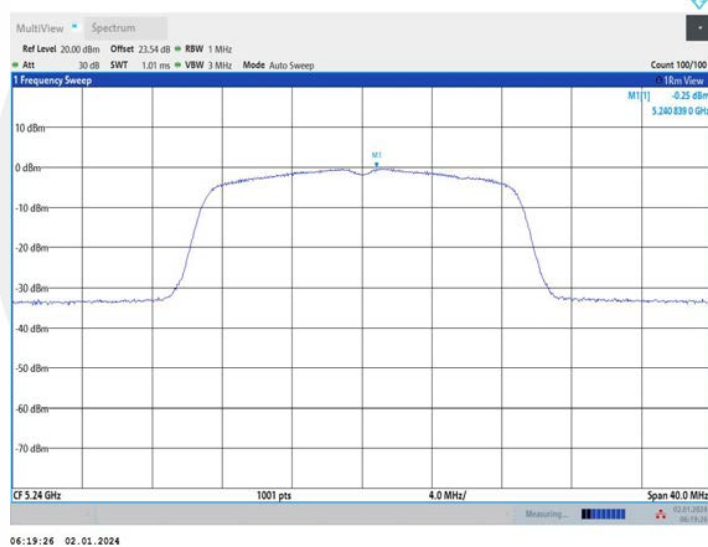
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11AC20MIMO\_Ant1\_5240



11AC20MIMO\_Ant2\_5240



11AC20MIMO\_Ant1\_5260