

TEST REPORT

Product Name : WIFI 6E Module
Model Number : WF8221-U1
FCC ID : 2AOKI-WF8221U1

Prepared for : Sichuan AI-Link Technology Co.,Ltd.
Address : Anzhou Industrial Park, Mianyang, Sichuan, P.R.C

Prepared by : EMTEK (SHENZHEN) CO., LTD.
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Report Number : ENS2601190219W00104R
Date(s) of Tests : January 19, 2026 to March 6, 2026
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Modified Information

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2601190219W00104R	/	Original Report

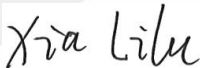
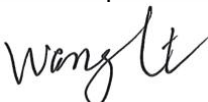
1 TEST RESULT CERTIFICATION

Applicant : Sichuan AI-Link Technology Co.,Ltd.
Address : Anzhou Industrial Park, Mianyang, Sichuan, P.R.C
Manufacturer : Sichuan AI-Link Technology Co.,Ltd.
Address : Anzhou Industrial Park, Mianyang, Sichuan, P.R.C
EUT : WIFI 6E Module
Model Name : WF8221-U1
Trademark : AI-LINK

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2020/Cor 1-2021 and the energy emitted by the sample EUT tested as described in this report is in compliance with the above table standards requirement.
The test results of this report relate only to the tested sample identified in this report.

Date of Test : January 19, 2026 to March 6, 2026
Prepared by : 
Yu Xiaolan/Editor
Reviewer : 
Xia Lili/Supervisor
Approved & Authorized Signer : 
Wang Li/Manager



2 EUT TECHNICAL DESCRIPTION

Product Name:	WIFI 6E Module
Model Number:	WF8221-U1
WIFI Type:	UNII-1: 5150MHz-5250MHz Band UNII-2A: 5250MHz-5350MHz Band UNII-2C: 5470MHz-5725MHz Band UNII-3: 5725MHz-5850MHz Band
WLAN Supported:	IEEE 802.11a IEEE 802.11n(20MHz channel bandwidth) IEEE 802.11n(40MHz channel bandwidth) IEEE 802.11ac(20MHz channel bandwidth) IEEE 802.11ac(40MHz channel bandwidth) IEEE 802.11ac(80MHz channel bandwidth) IEEE 802.11ax(20MHz channel bandwidth) IEEE 802.11ax(40MHz channel bandwidth) IEEE 802.11ax(80MHz channel bandwidth)
Frequency Range:	5150MHz-5250MHz Band: 5180-5240MHz for 802.11a 5180-5240MHz for 802.11n(20) 5190-5230MHz for 802.11n(40) 5180-5240MHz for 802.11ac(20) 5190-5230MHz for 802.11ac(40) 5210MHz for 802.11ac(80) 5180-5240MHz for 802.11ax(20) 5190-5230MHz for 802.11ax(40) 5210MHz for 802.11ax(80)
	5250MHz-5350MHz Band: 5260-5320MHz for 802.11a 5260-5320MHz for 802.11n(20) 5270-5310MHz for 802.11n(40) 5260-5320MHz for 802.11ac(20) 5270-5310MHz for 802.11ac(40) 5290MHz for 802.11ac(80) 5260-5320MHz for 802.11ax(20) 5270-5310MHz for 802.11ax(40) 5290MHz for 802.11ax(80)
	5470MHz-5725MHz Band: 5500-5700MHz for 802.11a 5500-5700MHz for 802.11n(20) 5510-5670MHz for 802.11n(40) 5500-5700MHz for 802.11ac(20) 5510-5670MHz for 802.11ac(40) 5530-5610MHz for 802.11ac(80) 5500-5700MHz for 802.11ax(20) 5510-5670MHz for 802.11ax(40) 5530-5610MHz for 802.11ax(80)

	5725MHz-5850MHz Band: 5745-5825MHz for 802.11a 5745-5825MHz for 802.11n(20) 5755-5795MHz for 802.11n(40) 5745-5825MHz for 802.11ac(20) 5755-5795MHz for 802.11ac(40) 5775MHz for 802.11ac(80) 5745-5825MHz for 802.11ax(20) 5755-5795MHz for 802.11ax(40) 5775MHz for 802.11ax(80)
Modulation:	OFDM, OFDMA
TPC Function:	Not Support
Beamforming:	Not Support
DFS Function:	Slave
Smart System:	MIMO
Power Supply:	DC 5V
Temperature Range:	-10℃~70℃

2.1 FEATURE OF EUT

a) Antenna information

Specification	Antenna	Brand	Model	Antenna Type	Gain
BT	1	/	/	PCB Antenna	-0.87dBi
BLE	1	/	/	PCB Antenna	-0.87dBi
2.4G WIFI	1	/	/	PCB Antenna	1.45dBi
2.4G WIFI	2	/	/	PCB Antenna	0.94dBi
5G WIFI	1	/	/	PCB Antenna	4.54dBi
5G WIFI	2	/	/	PCB Antenna	5.32dBi
WiFi 6E	1	/	/	PCB Antenna	3.07dBi
WiFi 6E	2	/	/	PCB Antenna	2.62dBi

Note: The antenna information provided by the manufacturer will have a certain impact on the test results.

b) Modification Record

There were no modifications required for compliance.

c) For more details, please refer to the user's manual of the EUT.

3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.407 (a) 15.407 (e)	99% , 6dB and 26dB Bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (a)	Peak Power Spectral Density	PASS	
15.407 (b)	Radiated Spurious Emission	PASS	
15.407 (b)(6) 15.207	Power Line Conducted Emission	N/A	
15.407(a) 15.203	Antenna Application	PASS	
NOTE 1: N/A is an abbreviation for not applicable. NOTE 2: The results of this report do not take into account the uncertainty. NOTE 3: According to FCC OET KDB 789033 D2 General UNII Test Procedures New Rules v02r01, In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.			

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is filing to comply with the above table standards requirement.

4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:
 FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart E
 FCC KDB 789033 D2 General UNII Test Procedures New Rules v02r01

4.2 MEASUREMENT EQUIPMENT USED

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Pre-Amplifier	Bonn	BLMA 011001N	2213967A	2025/10/16	1Year
EMI Test Receiver	Rohde & Schwarz	ESR7	102551	2025/10/16	1Year
Bilog Antenna	Schwarzbeck	VULB9163	9163142	2024/7/8	2Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1198	2025/5/13	2Year
Pre-Amplifier	Bonn	BLMA 0118-5G	2213967B-01	2025/10/16	1Year
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101290	2025/10/16	1Year
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2025/5/13	2Year
Pre-Amplifier	Lunar EM	LNA18G26-40	J1012131010001	2025/5/9	1Year
Pre-Amplifier	Lunar EM	LNA26G40-40	J1013131028001	2025/5/9	1Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2025/5/13	2Year
Wideband Radio Communication Tester	R&S	CMW500	171168	2025/9/9	1Year
Coaxial Cable	TIMES	NmNm-7-C15702	N/A	2025/5/22	1Year
Coaxial Cable	TIMES	HF290-NMSM-6.5M	N/A	2025/5/22	1Year
Coaxial Cable	TIMES	LMR-240 N-N	N/A	2025/5/22	1Year

For Other Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Wideband Radio Communication Tester	R&S	CMW500	171168	2025/9/9	1Year
Frequency Extender	R&S	CMW-Z800A	100430	2025/9/9	1Year
Spectrum Analyzer	R&S	FSV3044	101289	2025/12/16	1Year
Analog Signal Generator	R&S	SMB100A	183237	2025/9/9	1Year
Vector Signal Generator	R&S	SMM100A	101808	2025/9/9	1Year
RF Control Unit(Power Meter)	Tonscend	JS0806-2	22C8060567	2025/9/9	1Year
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2025/5/10	1 Year
DC Power Supply	KEYSIGHT	E3642A	MY53030016	2025/9/9	1 Year

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Wifi 5G with 5150-5250MHz

Frequency and Channels list for 802.11a/n(20)/ac(20)/ax(20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-
40	5200	48	5240	-	-

Frequency and Channels list for 802.11n (40)/ac(40)/ax(40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-
46	5230	-	-	-	-

Frequency and Channel list for 802.11ac(80)/ax(80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	-	-	-	-

Test Frequency and Channels for 802.11a/n(20)/ac(20)/ax(20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	48	5240

Test Frequency and channels for 802.11n (40)/ac(40)/ax(40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	46	5230

Test Frequency and channels for 802.11ac(80)/ax(80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	-	-	-	-

WIFI 5G with 5250-5350MHz

Frequency and Channels list for 802.11a/n(20)/ac(20)/ax(20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300	-	-
56	5280	64	5320	-	-

Frequency and Channels list for 802.11n (40)/ac(40)/ax(40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	-	-	-	-
62	5310	-	-	-	-

Frequency and Channels list for 802.11ac(80)/ax(80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290	-	-	-	-

Test Frequency and Channels for 802.11a/n(20)/ac(20)/ax(20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	56	5280	64	5320

Test Frequency and channels for 802.11n (40)/ac(40)/ax(40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	-	-	62	5310

Test Frequency and channels for 802.11ac(80)/ax(80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290	-	-	-	-

WIFI 5G with 5470-5725MHz

Frequency and Channels list for 802.11a/n(20)/ac(20)/ax(20):

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

Frequency and Channels list for 802.11n(40)/ac(40)/ax(40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	118	5590	134	5670
110	5550	126	5630	-	-

Frequency and Channels list for 802.11ac(80)/ax(80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610	-	-

Test Frequency and Channels for 802.11a/n(20)/ac(20)/ax(20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	140	5700

Test Frequency and channels for 802.11n (40)/ac(40)/ax(40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	-	-	134	5670

Test Frequency and channels for 802.11ac(80)/ax(80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610	-	-

Wifi 5G with 5725MHz-5850MHz

Frequency and Channels list for 802.11a/n(20)/802.11ac(20)/ax(20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825
153	5765	161	5805	-	-

Frequency and Channels list for 802.11n(40)/ac(40)/ax(40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	-	-	-	-
159	5795	-	-	-	-

Frequency and Channels list for 802.11ac(80)/ax(80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775	-	-	-	-

Test Frequency and Channels for 802.11a/n(20)/ac(20)/ax(20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825

Test Frequency and channels for 802.11n(40)/ac(40)/ax(40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	-	-	159	5795

Test Frequency and channels for 802.11ac(80)/ax(80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775	-	-	-	-

Multi-antenna correlation:

☒	Transmit Signals are Correlated
	Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2 / N_{ANT}]$ dBi
☐	All Transmit Signals are Completely Uncorrelated
	Directional gain = $10 \log[(10^{G^1/10} + 10^{G^2/10} + \dots + 10^{G^N/10}) / N_{ANT}]$ dBi

Ant1: 4.54dBi, Ant2: 5.32dBi, Directional gain = 7.95dBi

5 FACILITIES AND ACCREDITATIONS

5.1 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged wave guide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wide band preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods".

5.2 DESCRIPTION OF TEST FACILITY

Site Description

EMC Lab.

: **Accredited by CNAS**

The Certificate Registration Number is L2291

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by A2LA

The Certificate Number is 4321.01

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0008

Name of Firm

: EMTEK (SHENZHEN) CO., LTD.

Site Location

: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

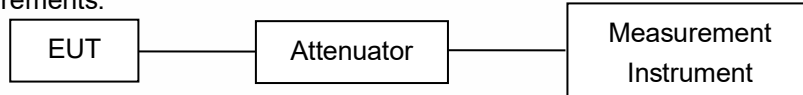
Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Power Density	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 3\%$

Measurement Uncertainty for a level of Confidence of 95%.

7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020/Cor 1-2021. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020/Cor 1-2021 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

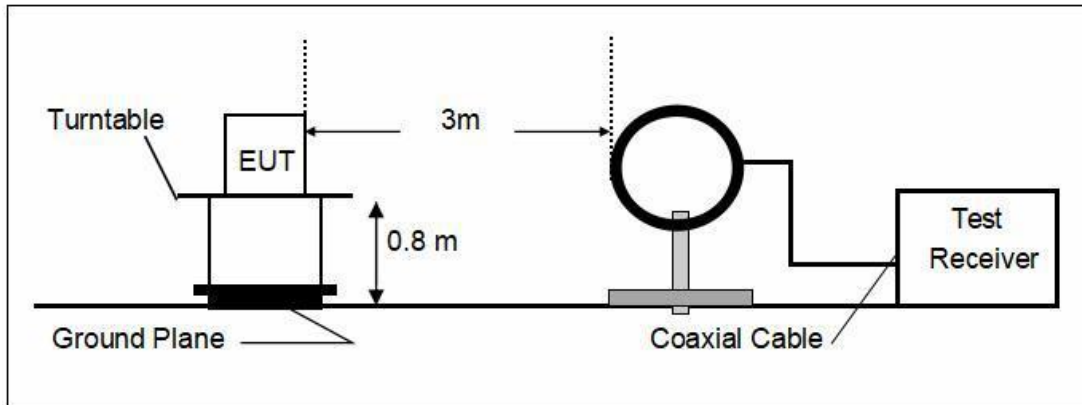
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

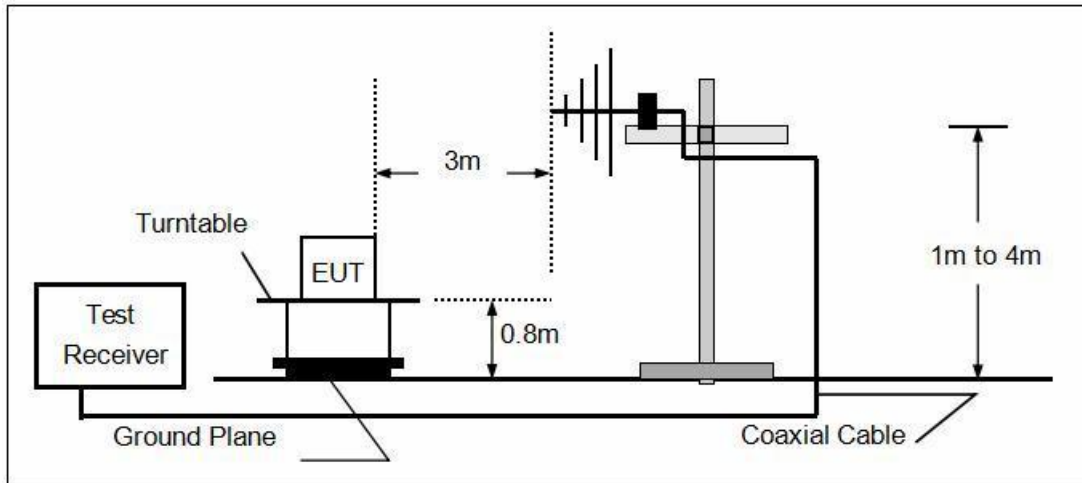
(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.)

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

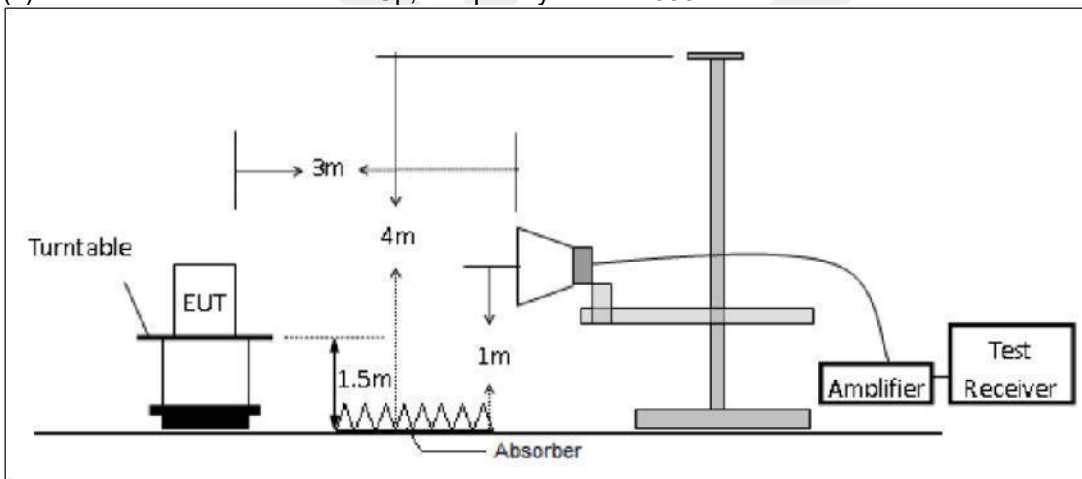
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



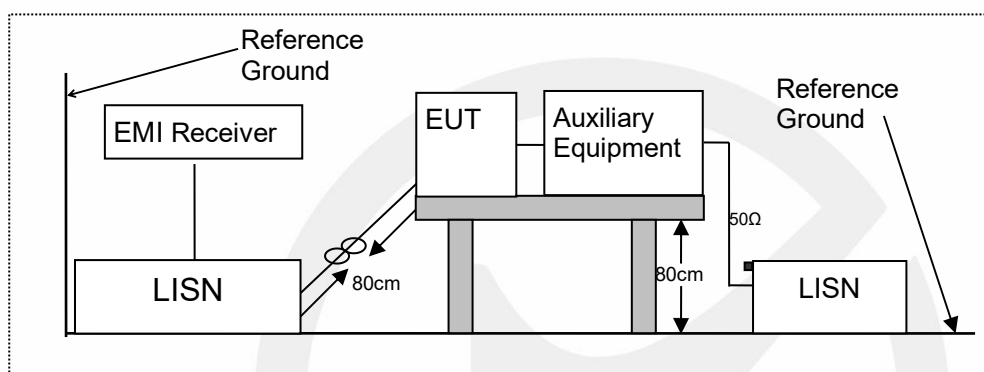
7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

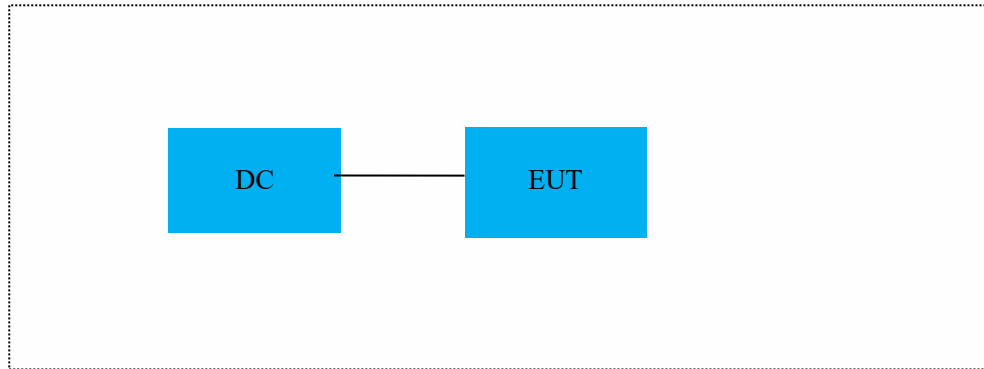
Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020/Cor 1-2021

Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

N/A

Notes:

- 1.All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2.Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

8 TEST REQUIREMENTS

8.1 BANDWIDTH MEASUREMENT

8.1.1 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 FCC Part 15.407(e) for UNII Band III
According to 789033 D02 Section II(C)
According to 789033 D02 Section II(D)

8.1.2 Conformance Limit

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

8.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup.

8.1.4 Test Procedure

According to 789033 D02 v02r01 section C&D, the following is the measurement procedure.

1. Emission Bandwidth (EBW)

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

D. 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to 789033 D02 v01r02 General UNII Test Procedures New Rules v01 define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

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

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW.
4. Set VBW $\geq 3 \times \text{RBW}$.
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

8.1.5 Test Results

Temperature : 24.1℃
Humidity : 50 %

ATM Pressure:: 1011 mbar
Test Engineer: LHJ

Emission Bandwidth (26dB)

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	25.44	5166.88	5192.32	---	---
11A	Ant2	5180	29.12	5165.20	5194.32	---	---
11A	Ant1	5200	27.56	5186.36	5213.92	---	---
11A	Ant2	5200	31.64	5182.76	5214.40	---	---
11A	Ant1	5240	20.32	5229.88	5250.20	---	---
11A	Ant2	5240	19.92	5229.96	5249.88	---	---
11A	Ant1	5260	27.76	5246.04	5273.80	---	---
11A	Ant2	5260	28.20	5245.80	5274.00	---	---
11A	Ant1	5280	27.76	5266.12	5293.88	---	---
11A	Ant2	5280	26.36	5266.88	5293.24	---	---
11A	Ant1	5320	26.60	5306.80	5333.40	---	---
11A	Ant2	5320	27.32	5306.28	5333.60	---	---
11A	Ant1	5500	26.92	5486.52	5513.44	---	---
11A	Ant2	5500	27.68	5485.80	5513.48	---	---
11A	Ant1	5580	27.16	5566.68	5593.84	---	---
11A	Ant2	5580	27.32	5566.16	5593.48	---	---
11A	Ant1	5700	29.16	5684.92	5714.08	---	---
11A	Ant2	5700	27.08	5686.60	5713.68	---	---
11A	Ant1	5745	26.92	5731.16	5758.08	---	---
11A	Ant2	5745	27.16	5731.36	5758.52	---	---
11A	Ant1	5785	27.08	5771.36	5798.44	---	---
11A	Ant2	5785	26.88	5771.44	5798.32	---	---
11A	Ant1	5825	27.72	5811.28	5839.00	---	---
11A	Ant2	5825	27.16	5811.08	5838.24	---	---
11N20MIMO	Ant1	5180	27.96	5166.24	5194.20	---	---
11N20MIMO	Ant2	5180	26.24	5167.04	5193.28	---	---
11N20MIMO	Ant1	5200	28.88	5186.16	5215.04	---	---
11N20MIMO	Ant2	5200	30.00	5186.36	5216.36	---	---
11N20MIMO	Ant1	5240	20.60	5229.68	5250.28	---	---
11N20MIMO	Ant2	5240	20.24	5229.84	5250.08	---	---
11N20MIMO	Ant1	5260	28.08	5246.08	5274.16	---	---
11N20MIMO	Ant2	5260	25.40	5247.28	5272.68	---	---
11N20MIMO	Ant1	5280	28.76	5265.68	5294.44	---	---
11N20MIMO	Ant2	5280	25.36	5267.72	5293.08	---	---
11N20MIMO	Ant1	5320	29.72	5306.28	5336.00	---	---
11N20MIMO	Ant2	5320	27.52	5305.72	5333.24	---	---
11N20MIMO	Ant1	5500	30.40	5485.60	5516.00	---	---
11N20MIMO	Ant2	5500	28.08	5485.60	5513.68	---	---
11N20MIMO	Ant1	5580	28.80	5565.32	5594.12	---	---
11N20MIMO	Ant2	5580	26.36	5566.88	5593.24	---	---
11N20MIMO	Ant1	5700	32.20	5683.84	5716.04	---	---
11N20MIMO	Ant2	5700	31.04	5682.88	5713.92	---	---
11N20MIMO	Ant1	5745	27.92	5731.32	5759.24	---	---
11N20MIMO	Ant2	5745	25.92	5732.12	5758.04	---	---
11N20MIMO	Ant1	5785	29.48	5770.40	5799.88	---	---

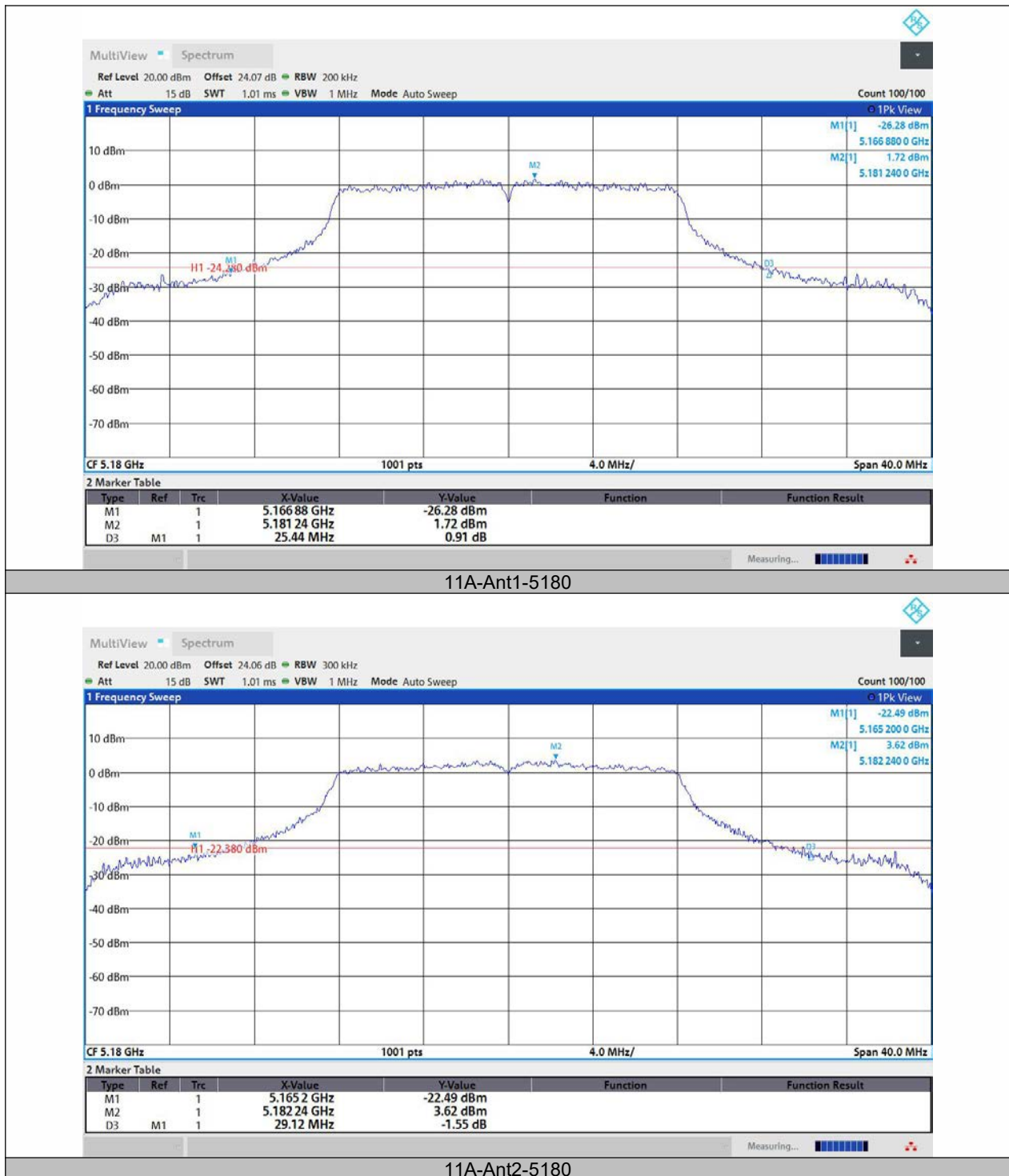
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11N40MIMO	Ant1	5190	40.56	5169.76	5210.32	---	---
11N40MIMO	Ant2	5190	40.32	5169.92	5210.24	---	---
11N40MIMO	Ant1	5230	40.88	5209.44	5250.32	---	---
11N40MIMO	Ant2	5230	39.84	5210.16	5250.00	---	---
11N40MIMO	Ant1	5270	41.12	5249.44	5290.56	---	---
11N40MIMO	Ant2	5270	40.40	5249.76	5290.16	---	---
11N40MIMO	Ant1	5310	40.96	5289.60	5330.56	---	---
11N40MIMO	Ant2	5310	40.48	5289.68	5330.16	---	---
11N40MIMO	Ant1	5510	40.80	5489.60	5530.40	---	---
11N40MIMO	Ant2	5510	40.08	5489.92	5530.00	---	---
11N40MIMO	Ant1	5550	40.64	5529.68	5570.32	---	---
11N40MIMO	Ant2	5550	40.16	5530.00	5570.16	---	---
11N40MIMO	Ant1	5670	40.72	5649.68	5690.40	---	---
11N40MIMO	Ant2	5670	40.32	5649.84	5690.16	---	---
11N40MIMO	Ant1	5755	40.88	5734.52	5775.40	---	---
11N40MIMO	Ant2	5755	40.08	5734.84	5774.92	---	---
11N40MIMO	Ant1	5795	40.96	5774.52	5815.48	---	---
11N40MIMO	Ant2	5795	40.24	5774.68	5814.92	---	---
11AC20MIMO	Ant1	5180	27.96	5166.04	5194.00	---	---
11AC20MIMO	Ant2	5180	27.76	5165.52	5193.28	---	---
11AC20MIMO	Ant1	5200	30.00	5186.04	5216.04	---	---
11AC20MIMO	Ant2	5200	31.52	5182.96	5214.48	---	---
11AC20MIMO	Ant1	5240	20.52	5229.68	5250.20	---	---
11AC20MIMO	Ant2	5240	20.28	5229.80	5250.08	---	---
11AC20MIMO	Ant1	5260	24.36	5247.80	5272.16	---	---
11AC20MIMO	Ant2	5260	25.44	5247.24	5272.68	---	---
11AC20MIMO	Ant1	5280	24.44	5267.84	5292.28	---	---
11AC20MIMO	Ant2	5280	25.32	5267.16	5292.48	---	---
11AC20MIMO	Ant1	5320	28.64	5305.44	5334.08	---	---
11AC20MIMO	Ant2	5320	26.72	5306.44	5333.16	---	---
11AC20MIMO	Ant1	5500	32.04	5482.84	5514.88	---	---
11AC20MIMO	Ant2	5500	25.88	5486.52	5512.40	---	---
11AC20MIMO	Ant1	5580	27.76	5566.24	5594.00	---	---
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11AC20MIMO	Ant1	5700	30.96	5682.64	5713.60	---	---
11AC20MIMO	Ant2	5700	27.52	5687.00	5714.52	---	---
11AC20MIMO	Ant1	5745	28.04	5731.08	5759.12	---	---
11AC20MIMO	Ant2	5745	25.52	5732.48	5758.00	---	---
11AC20MIMO	Ant1	5785	28.80	5770.92	5799.72	---	---
11AC20MIMO	Ant2	5785	26.60	5771.44	5798.04	---	---
11AC20MIMO	Ant1	5825	27.84	5811.56	5839.40	---	---
11AC20MIMO	Ant2	5825	25.48	5812.24	5837.72	---	---
11AC40MIMO	Ant1	5190	40.64	5169.68	5210.32	---	---
11AC40MIMO	Ant2	5190	40.08	5170.08	5210.16	---	---
11AC40MIMO	Ant1	5230	40.64	5209.92	5250.56	---	---
11AC40MIMO	Ant2	5230	40.24	5209.92	5250.16	---	---
11AC40MIMO	Ant1	5270	40.80	5249.60	5290.40	---	---
11AC40MIMO	Ant2	5270	40.16	5250.00	5290.16	---	---
11AC40MIMO	Ant1	5310	40.96	5289.44	5330.40	---	---
11AC40MIMO	Ant2	5310	40.16	5289.92	5330.08	---	---
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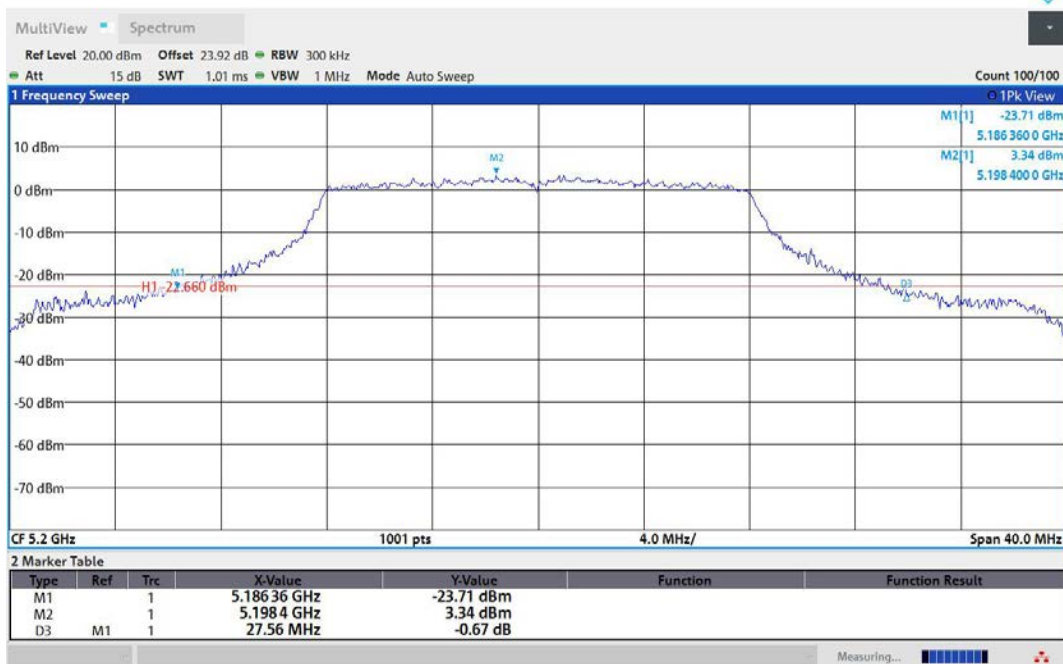
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11AC40MIMO	Ant1	5755	40.88	5734.36	5775.24	---	---
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11AC40MIMO	Ant1	5795	40.72	5774.68	5815.40	---	---
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11AC80MIMO	Ant1	5210	80.00	5170.00	5250.00	---	---
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11AC80MIMO	Ant1	5290	80.32	5249.84	5330.16	---	---
11AC80MIMO	Ant2	5290	80.00	5250.16	5330.16	---	---
11AC80MIMO	Ant1	5530	80.48	5489.84	5570.32	---	---
11AC80MIMO	Ant2	5530	80.16	5490.00	5570.16	---	---
11AC80MIMO	Ant1	5610	80.16	5569.84	5650.00	---	---
11AC80MIMO	Ant2	5610	80.16	5569.84	5650.00	---	---
11AC80MIMO	Ant1	5775	80.32	5734.84	5815.16	---	---
11AC80MIMO	Ant2	5775	80.00	5735.00	5815.00	---	---
11AX20MIMO	Ant1	5180	34.44	5163.00	5197.44	---	---
11AX20MIMO	Ant2	5180	26.76	5167.44	5194.20	---	---
11AX20MIMO	Ant1	5200	29.20	5183.56	5212.76	---	---
11AX20MIMO	Ant2	5200	26.36	5186.40	5212.76	---	---
11AX20MIMO	Ant1	5240	20.08	5229.92	5250.00	---	---
11AX20MIMO	Ant2	5240	20.08	5229.92	5250.00	---	---
11AX20MIMO	Ant1	5260	33.88	5241.76	5275.64	---	---
11AX20MIMO	Ant2	5260	24.00	5248.12	5272.12	---	---
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11AX20MIMO	Ant2	5280	25.88	5267.40	5293.28	---	---
11AX20MIMO	Ant1	5320	28.20	5305.88	5334.08	---	---
11AX20MIMO	Ant2	5320	29.04	5305.28	5334.32	---	---
11AX20MIMO	Ant1	5500	28.16	5485.04	5513.20	---	---
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11AX20MIMO	Ant1	5745	30.56	5731.36	5761.92	---	---
11AX20MIMO	Ant2	5745	27.72	5731.36	5759.08	---	---
11AX20MIMO	Ant1	5785	28.08	5770.64	5798.72	---	---
11AX20MIMO	Ant2	5785	28.40	5769.64	5798.04	---	---
11AX20MIMO	Ant1	5825	31.56	5809.80	5841.36	---	---
11AX20MIMO	Ant2	5825	26.32	5812.24	5838.56	---	---
11AX40MIMO	Ant1	5190	39.92	5170.00	5209.92	---	---
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11AX40MIMO	Ant1	5230	39.84	5210.08	5249.92	---	---
11AX40MIMO	Ant2	5230	39.68	5210.16	5249.84	---	---
11AX40MIMO	Ant1	5270	39.76	5250.08	5289.84	---	---
11AX40MIMO	Ant2	5270	39.84	5250.08	5289.92	---	---
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11AX40MIMO	Ant1	5550	39.84	5530.16	5570.00	---	---
11AX40MIMO	Ant2	5550	39.68	5530.16	5569.84	---	---
11AX40MIMO	Ant1	5670	39.84	5650.08	5689.92	---	---

11AX40MIMO	Ant2	5670	39.84	5650.08	5689.92	---	---
11AX40MIMO	Ant1	5755	39.76	5735.08	5774.84	---	---
11AX40MIMO	Ant2	5755	39.84	5735.00	5774.84	---	---
11AX40MIMO	Ant1	5795	39.76	5775.08	5814.84	---	---
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11AX80MIMO	Ant1	5210	80.64	5169.68	5250.32	---	---
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11AX80MIMO	Ant1	5290	80.80	5249.52	5330.32	---	---
11AX80MIMO	Ant2	5290	80.48	5249.84	5330.32	---	---
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11AX80MIMO	Ant2	5610	80.64	5569.68	5650.32	---	---
11AX80MIMO	Ant1	5775	80.48	5734.68	5815.16	---	---
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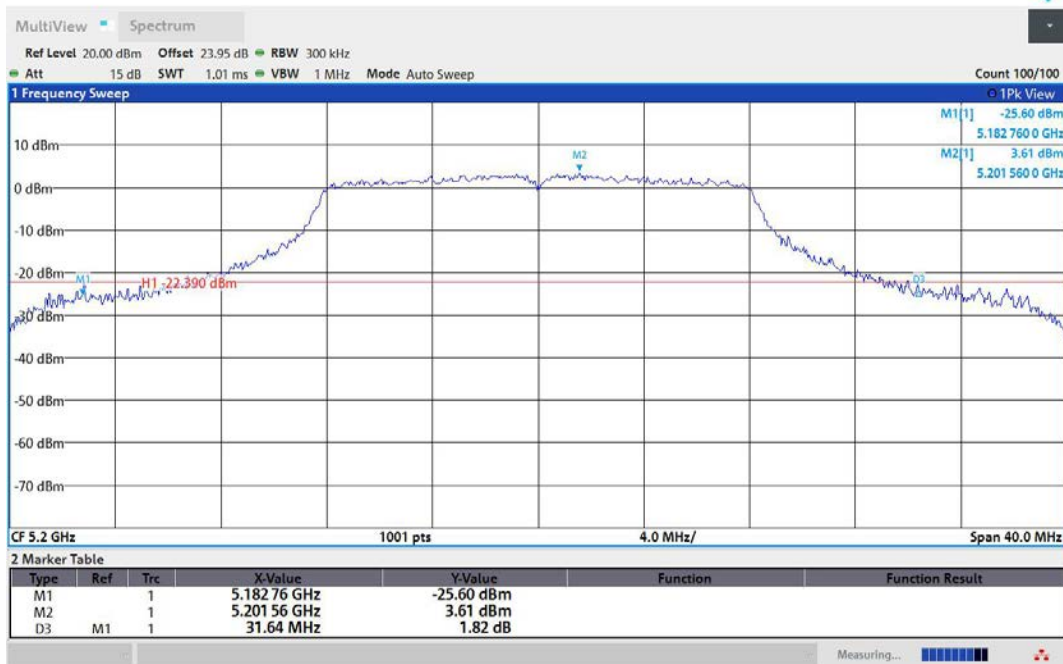


Emission Bandwidth (26dB) Test Graphs

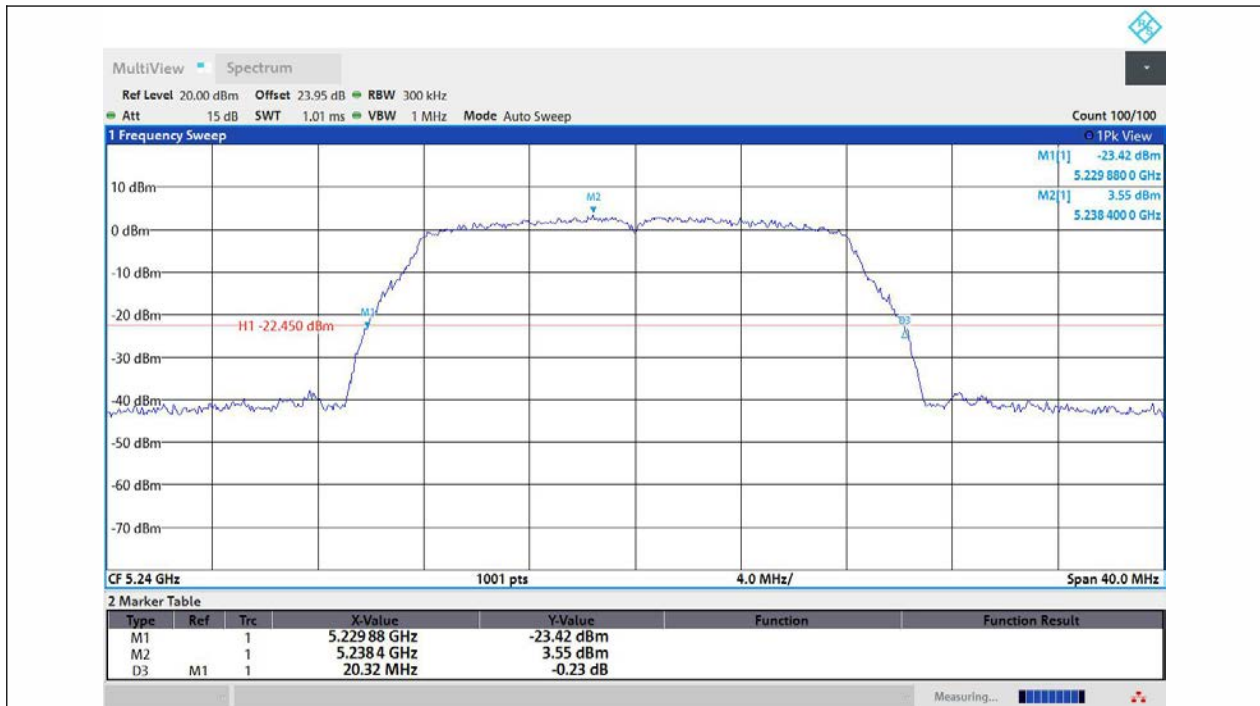




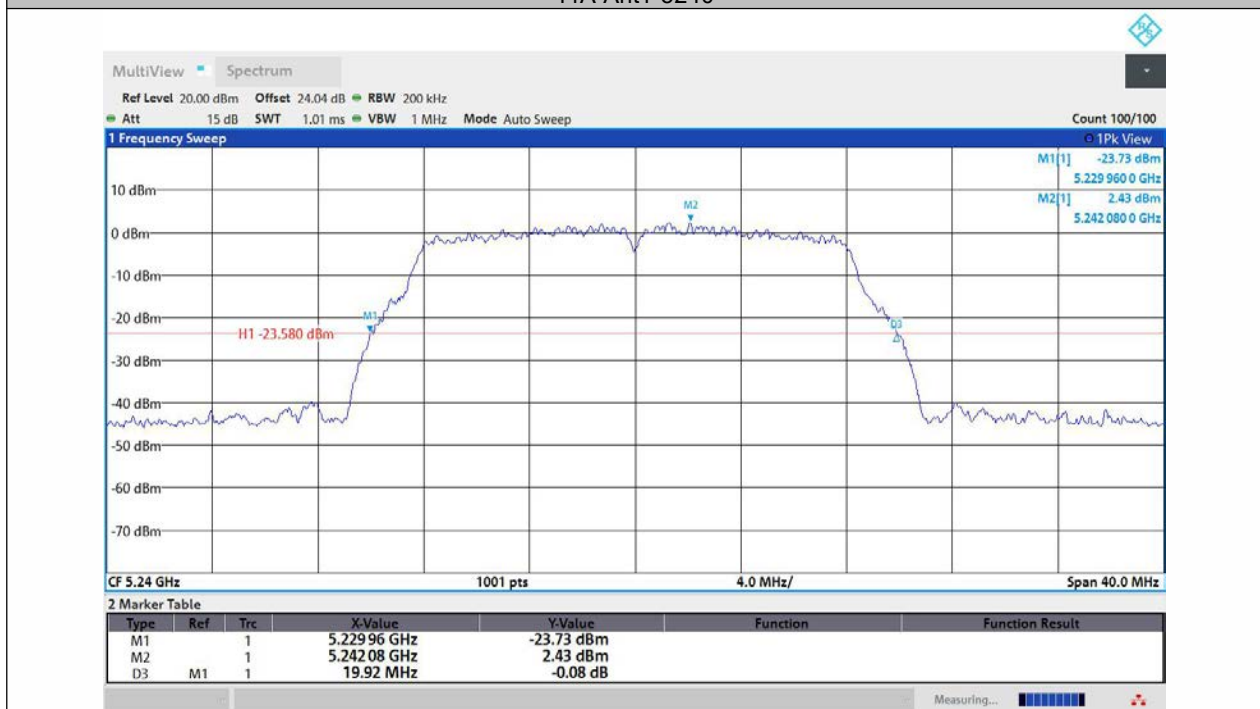
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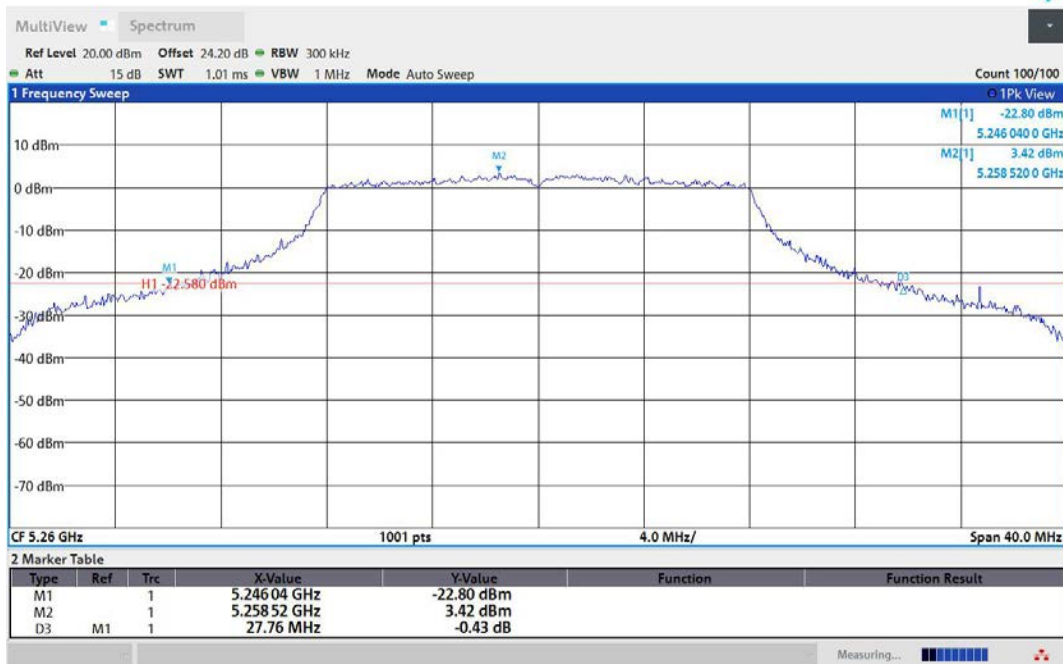
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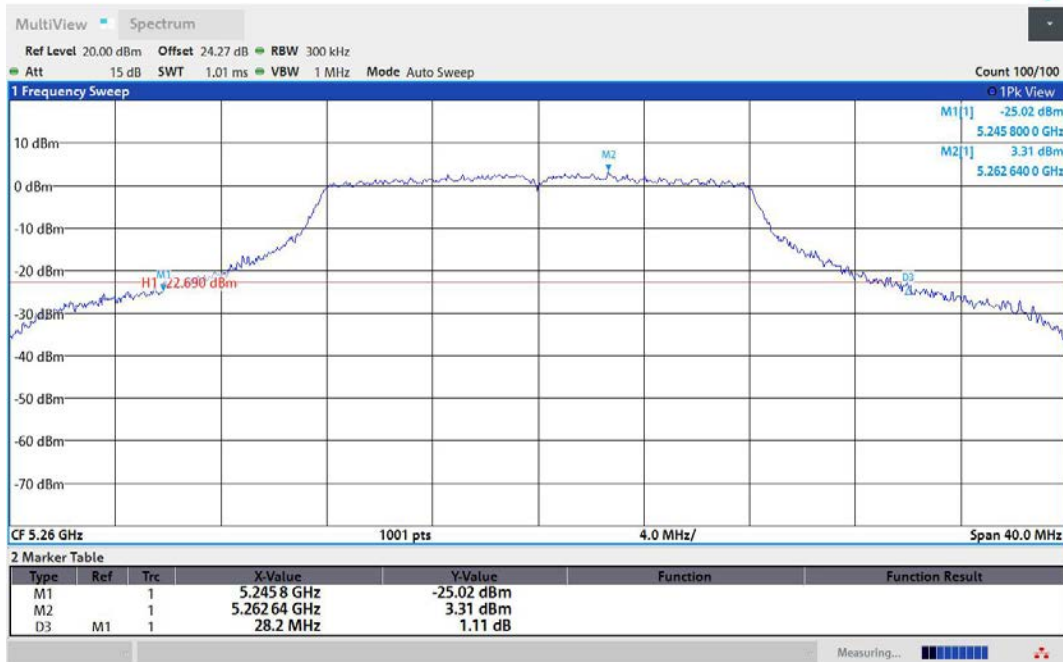
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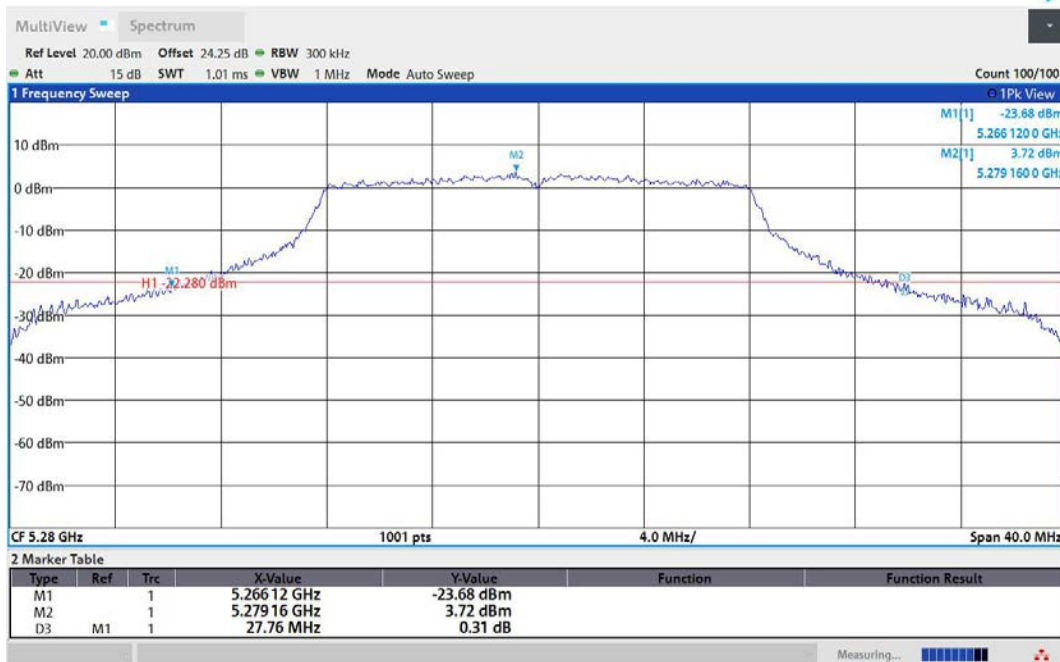
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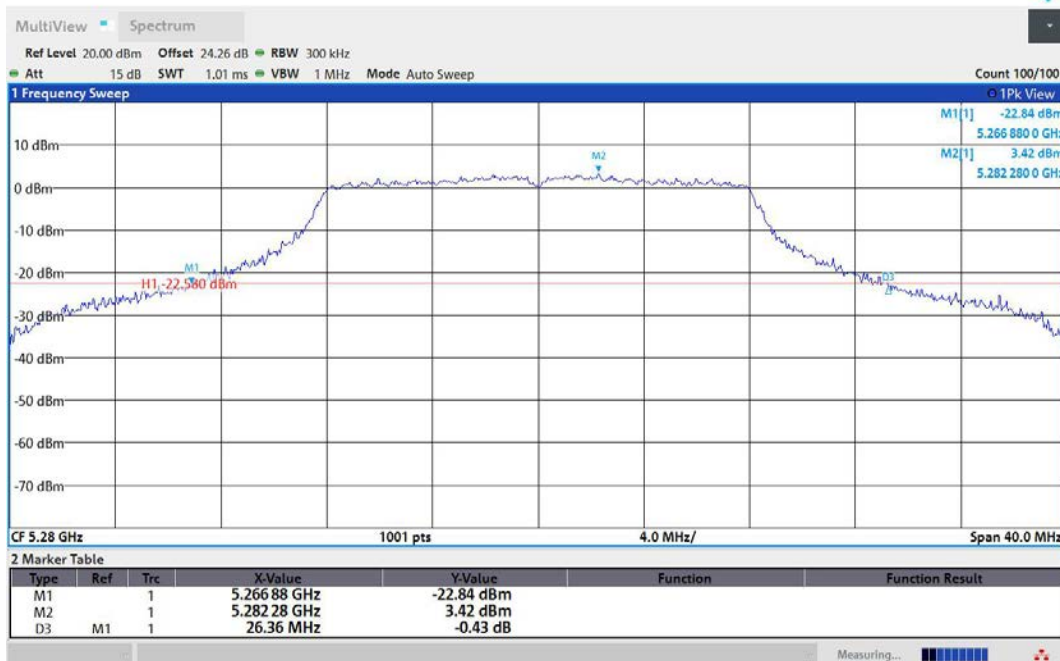
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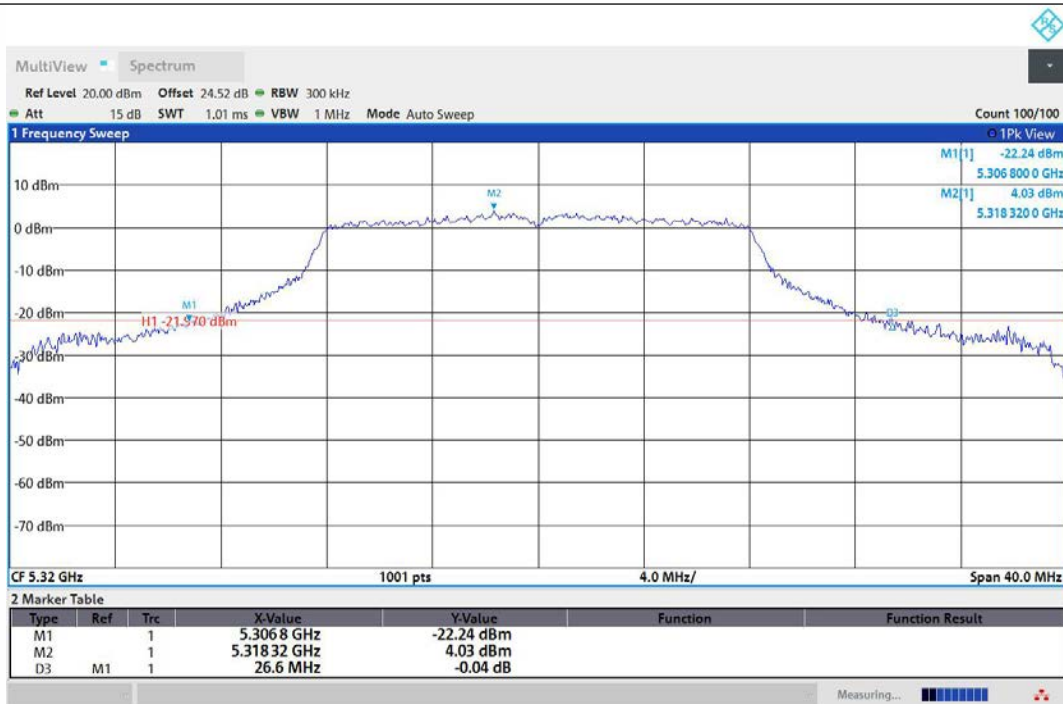
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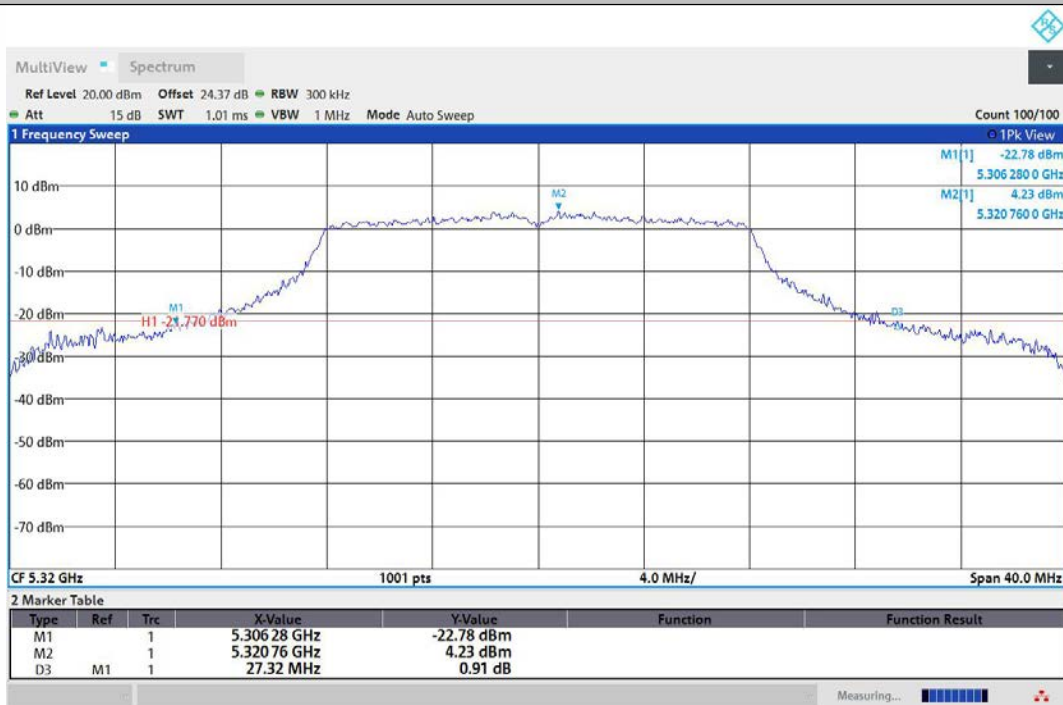
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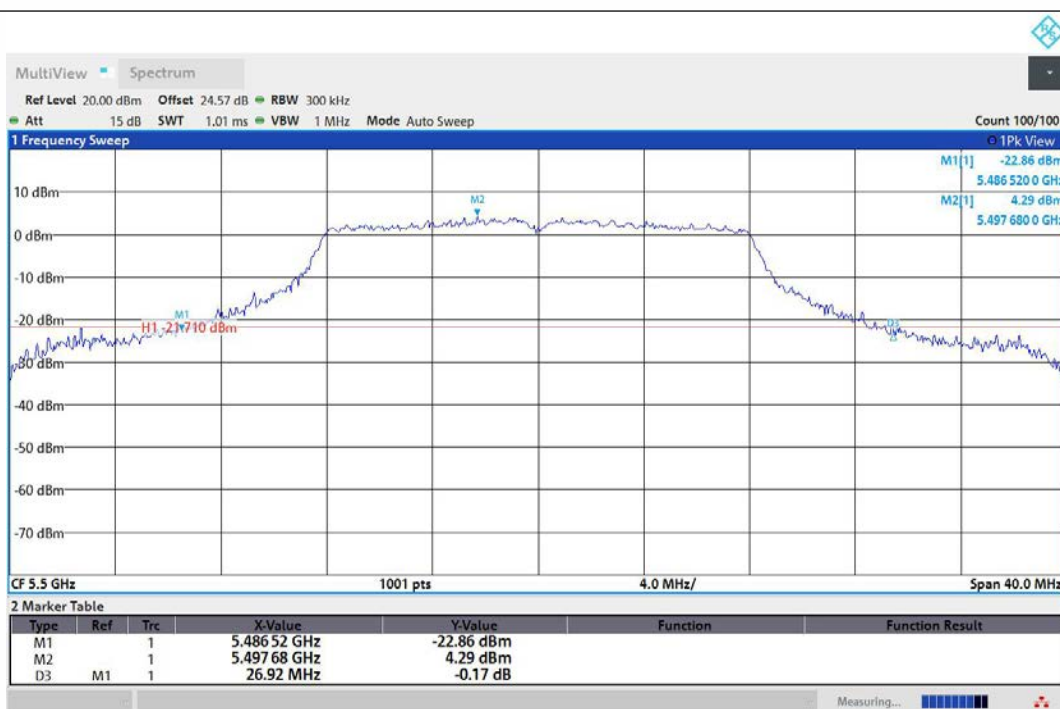
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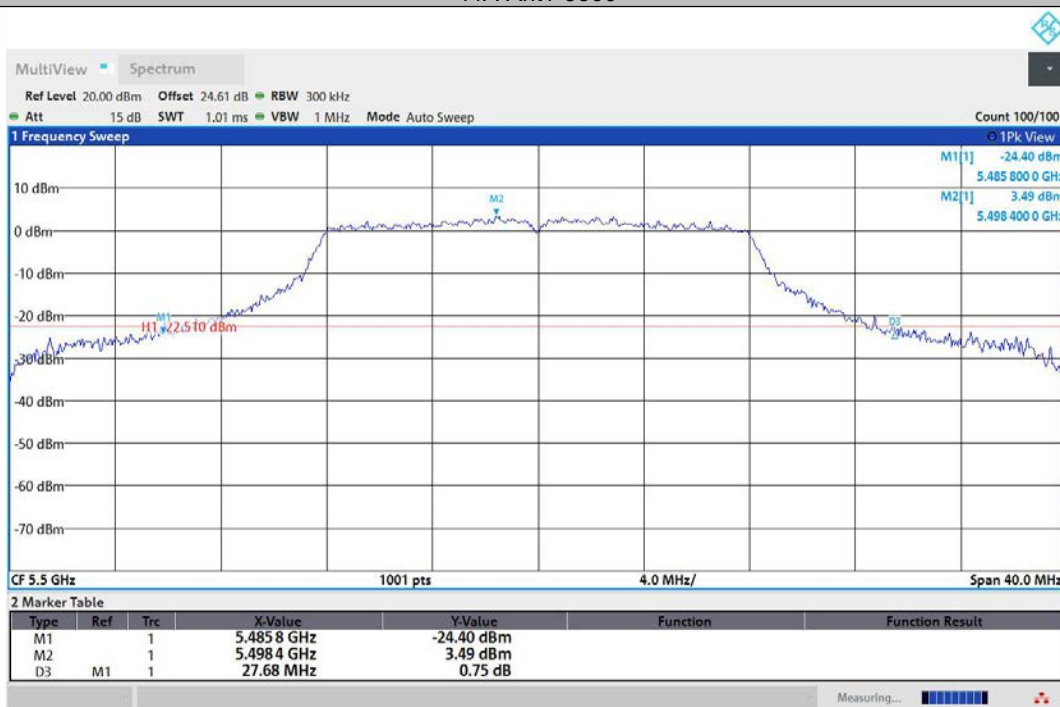
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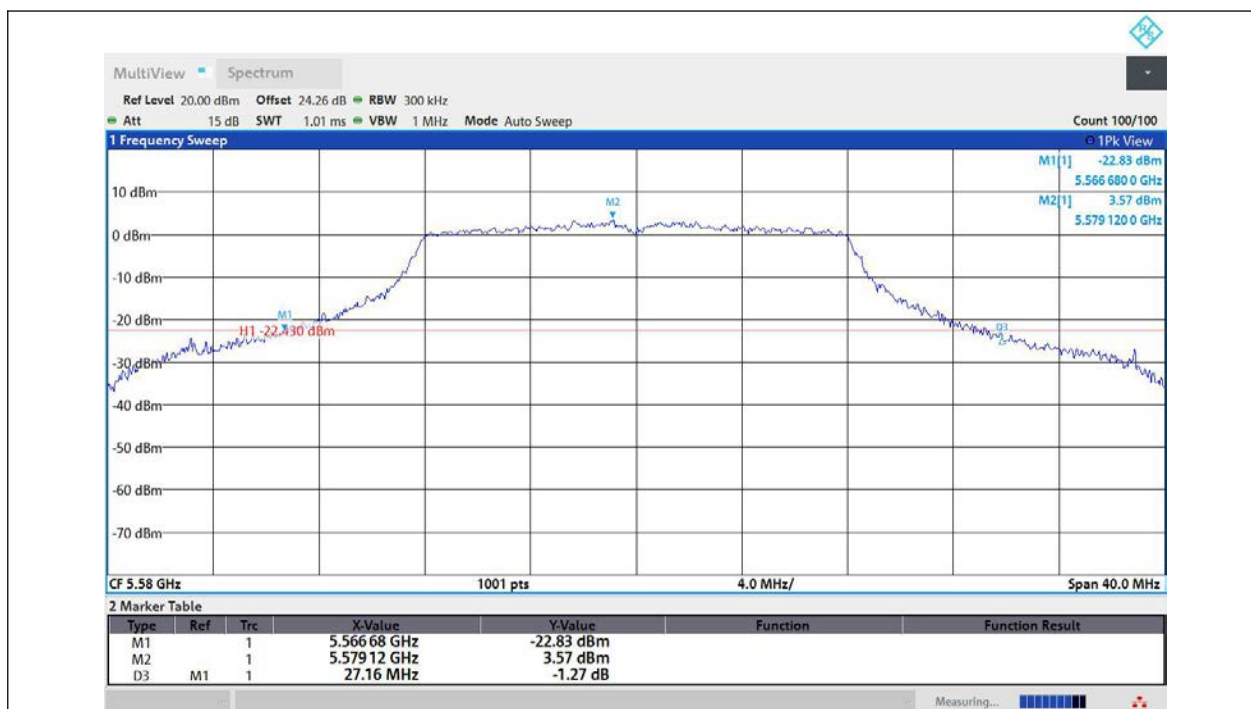
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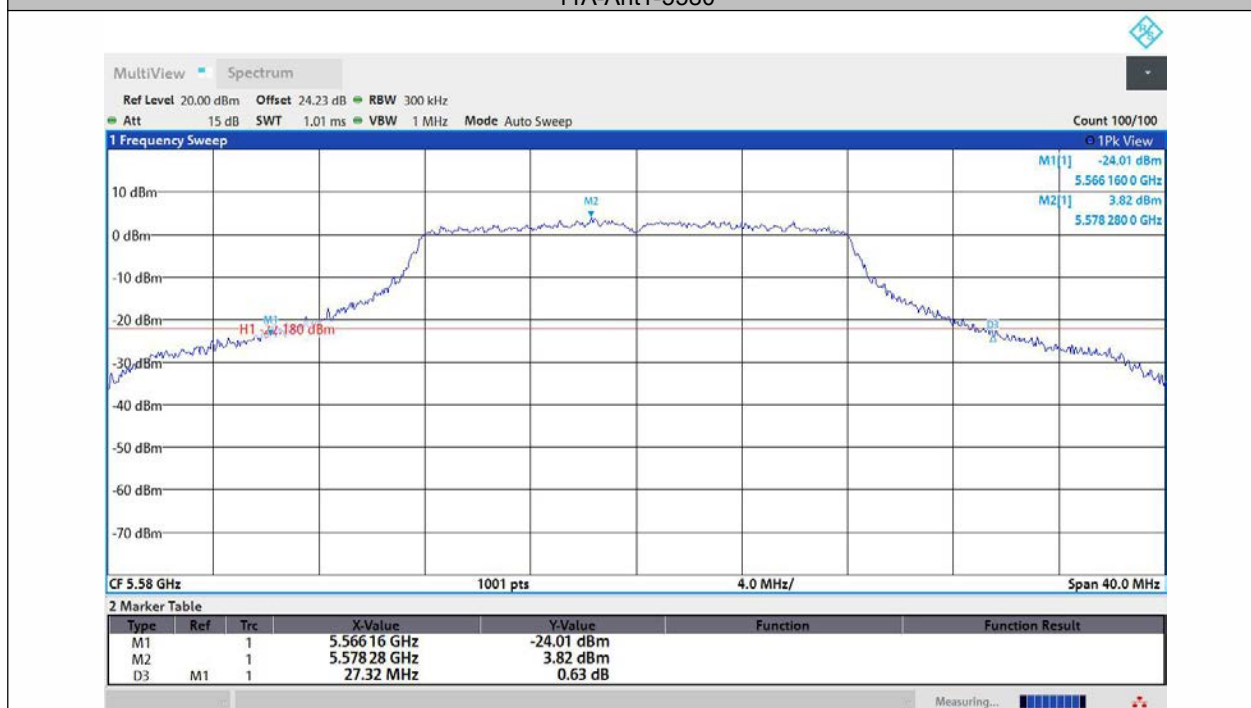
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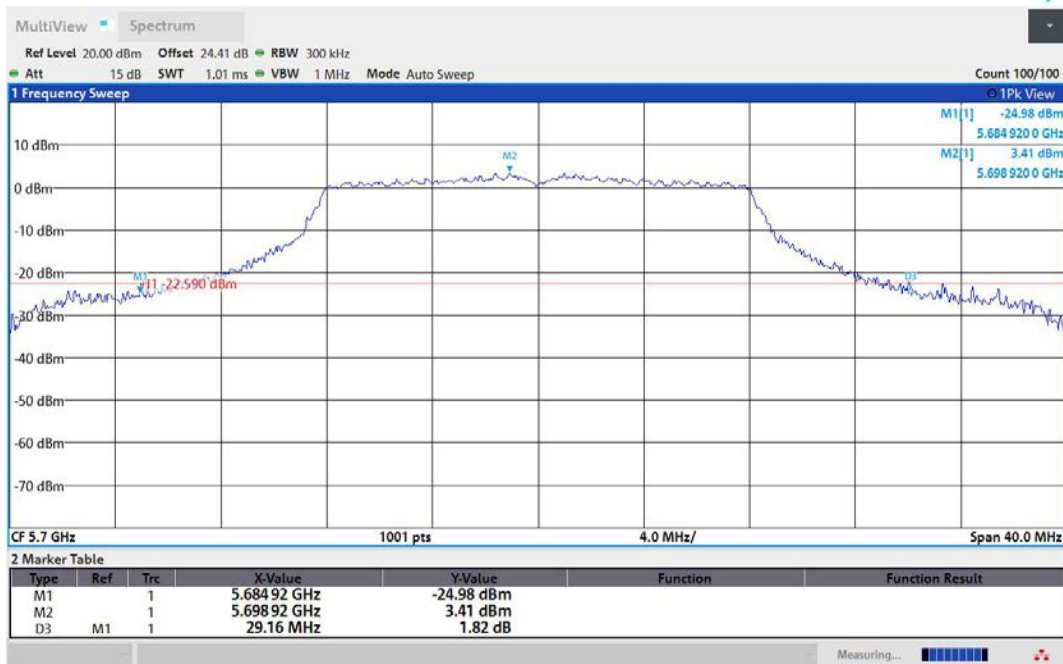
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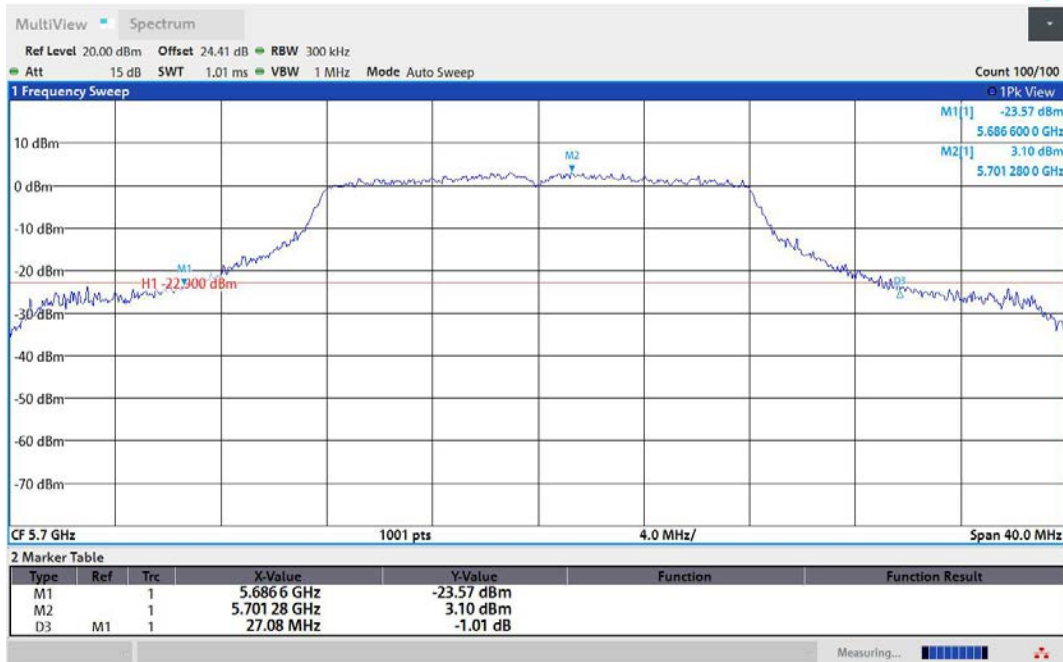
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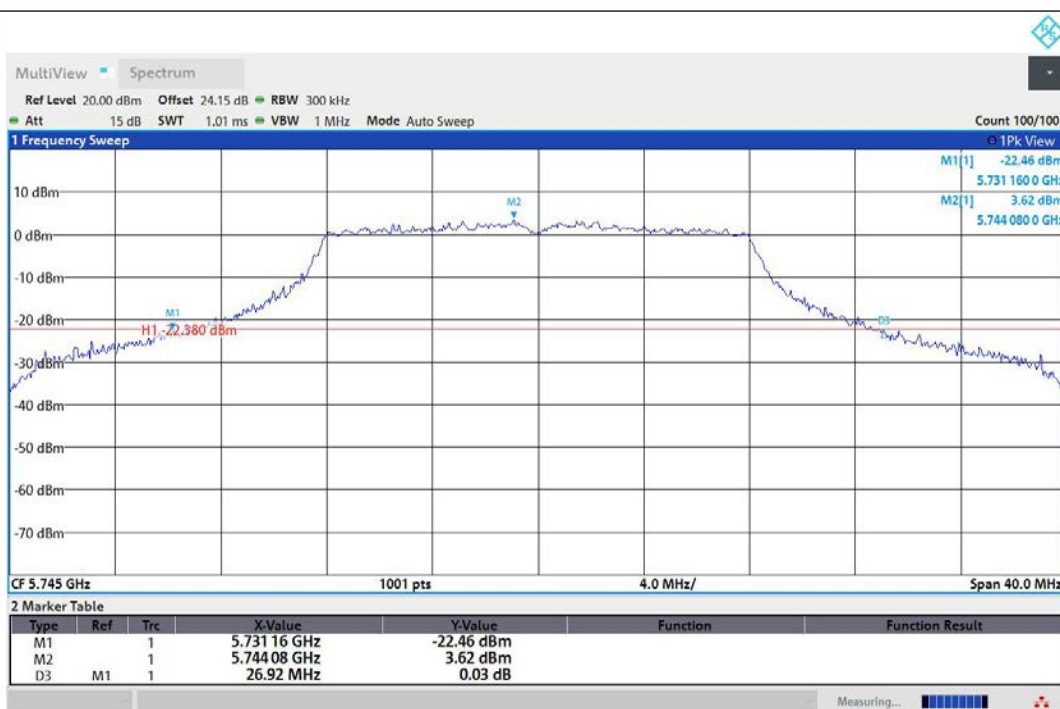
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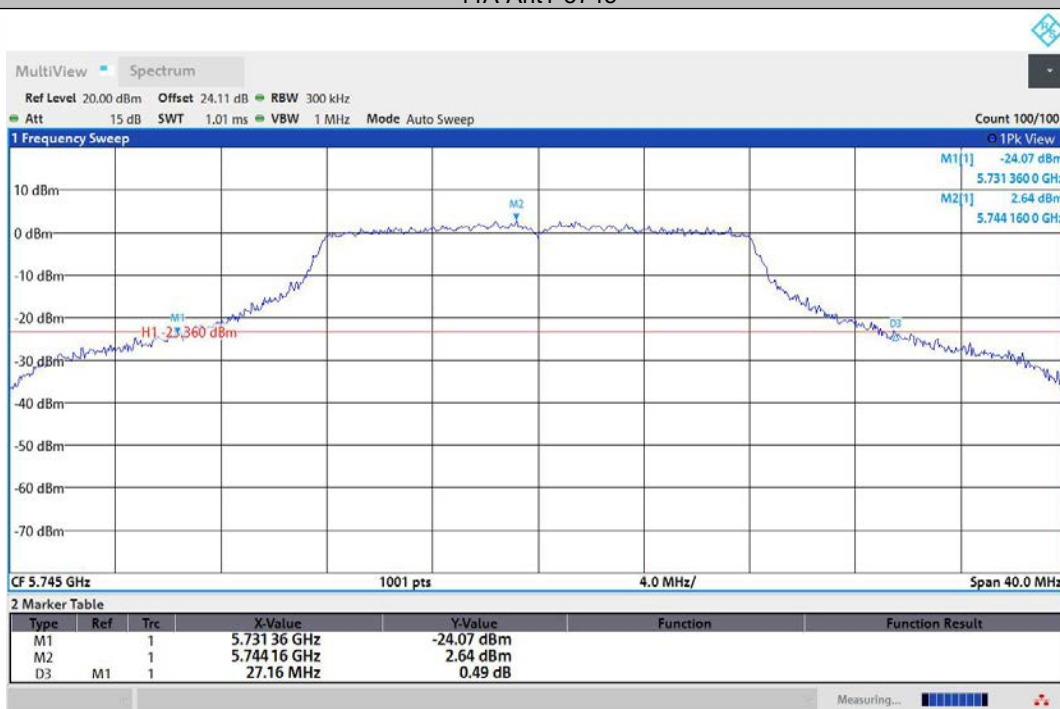
11A-Ant1-5700



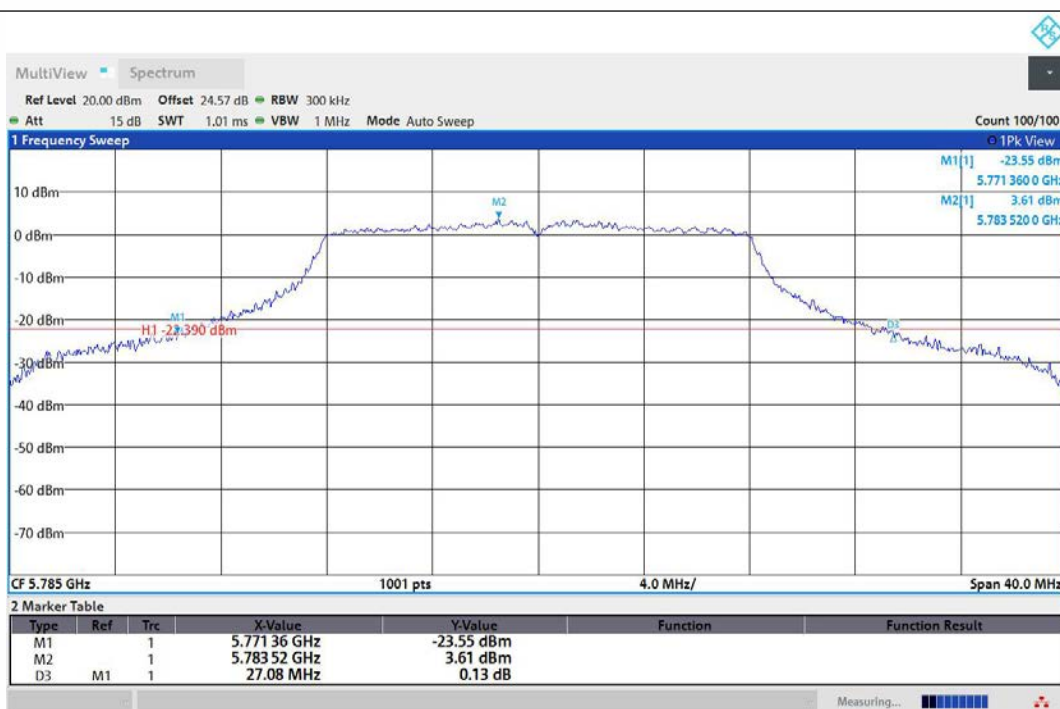
11A-Ant2-5700



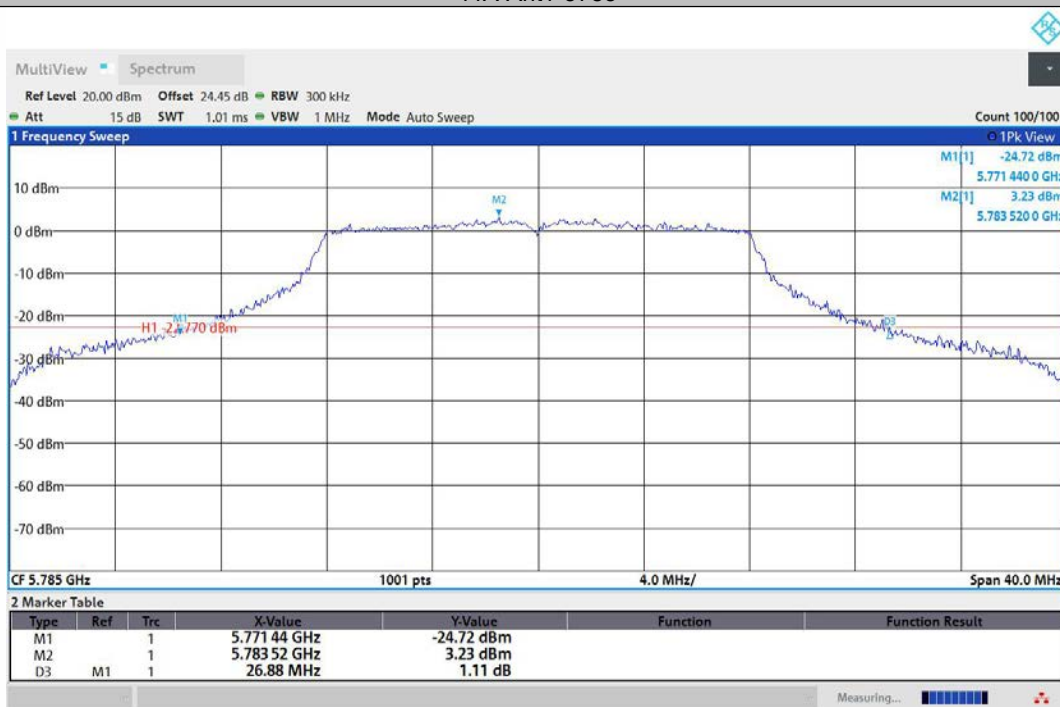
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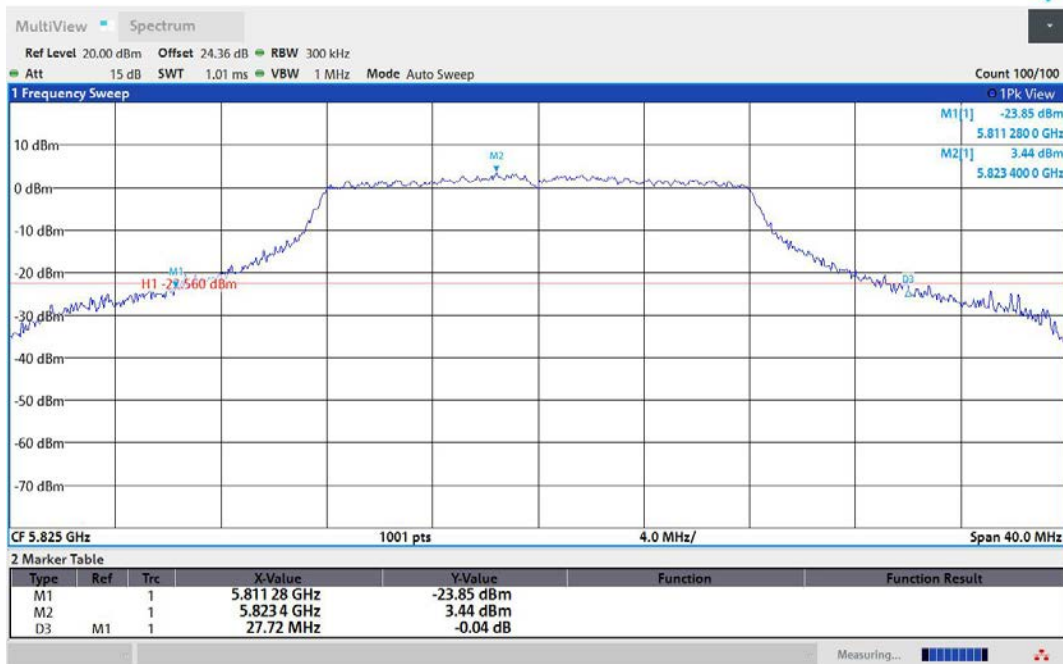
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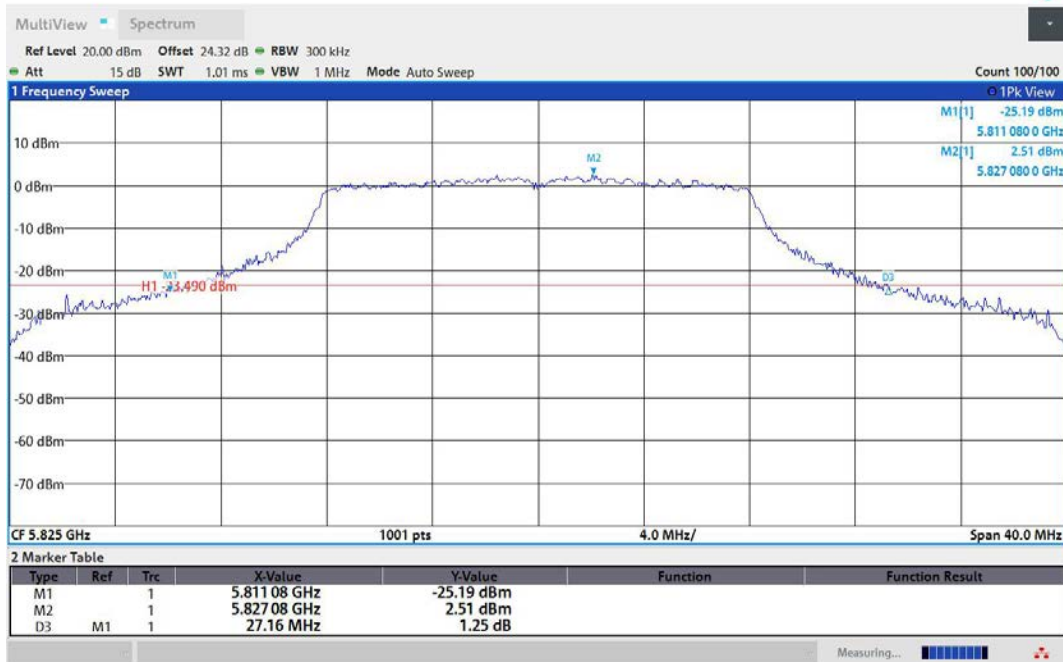
11A-Ant1-5785



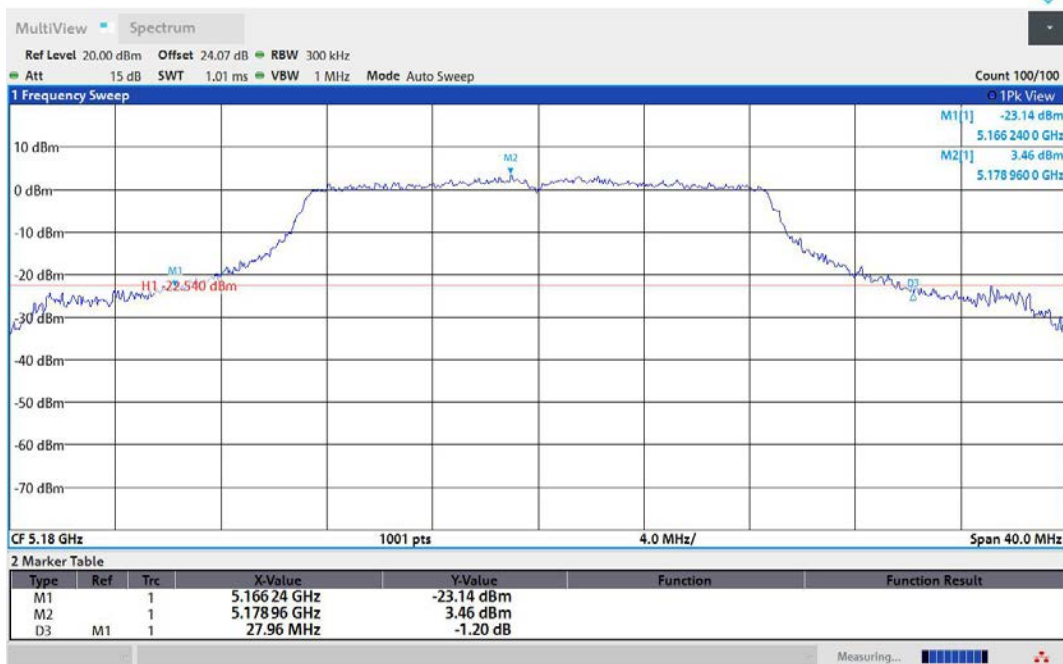
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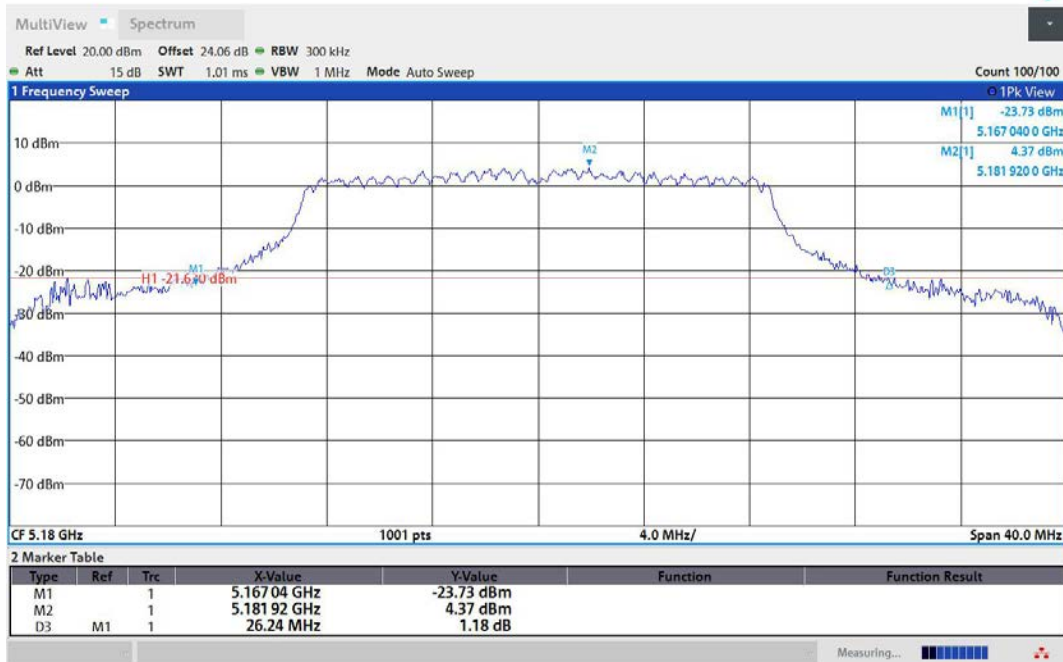
11A-Ant1-5825



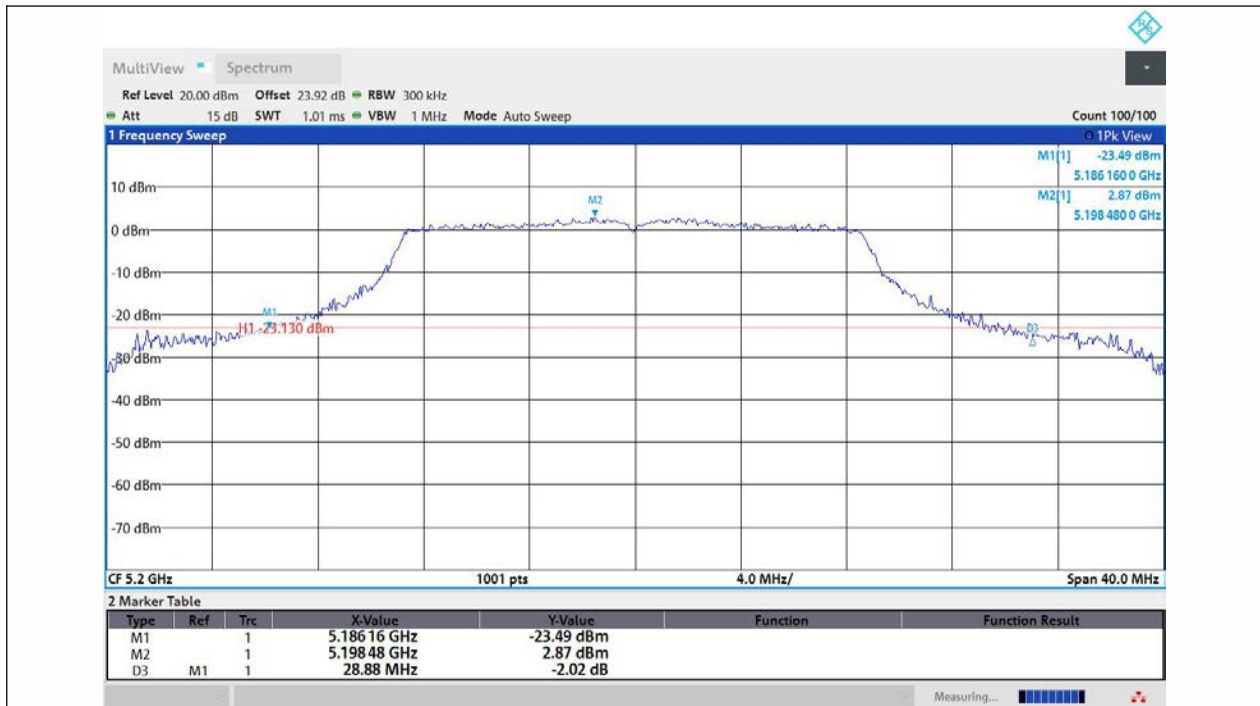
11A-Ant2-5825



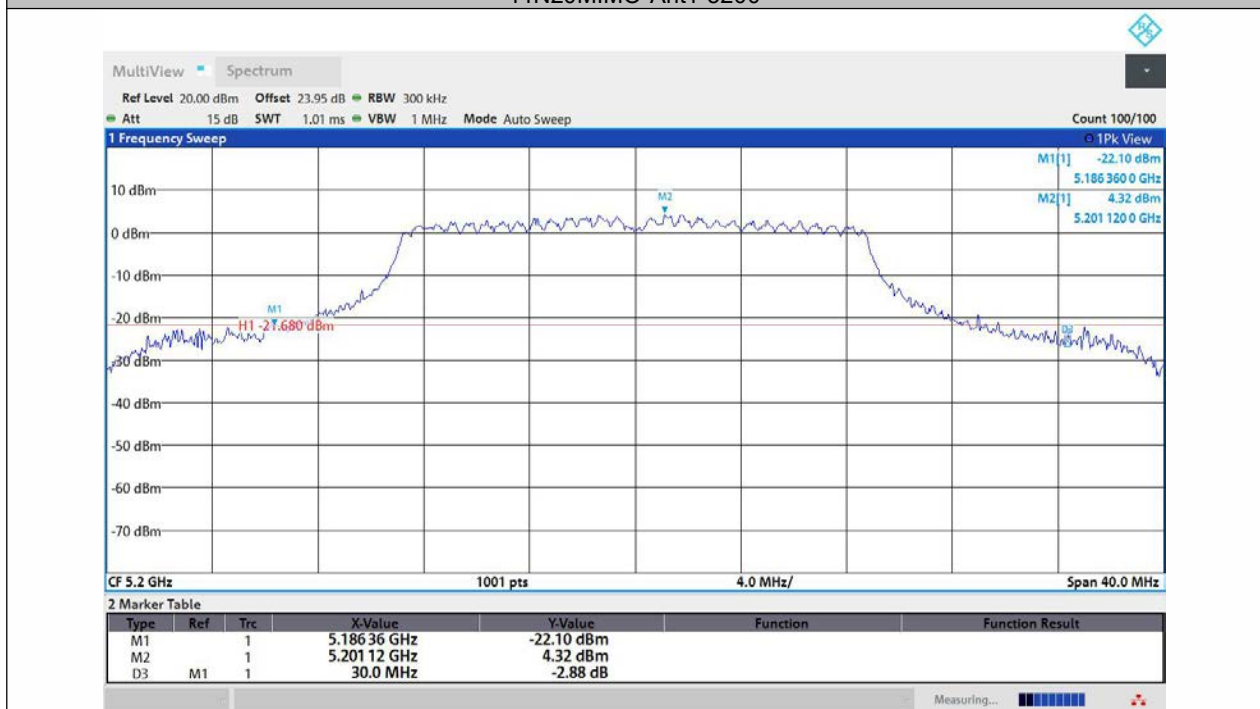
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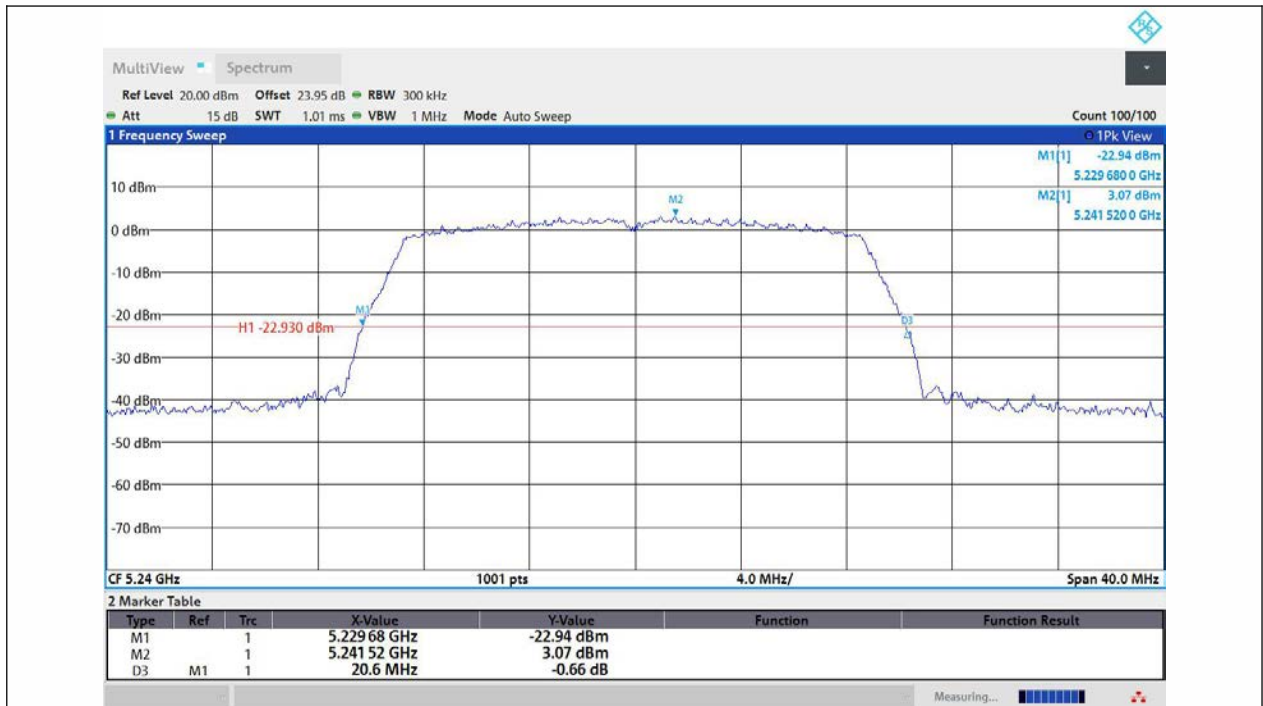
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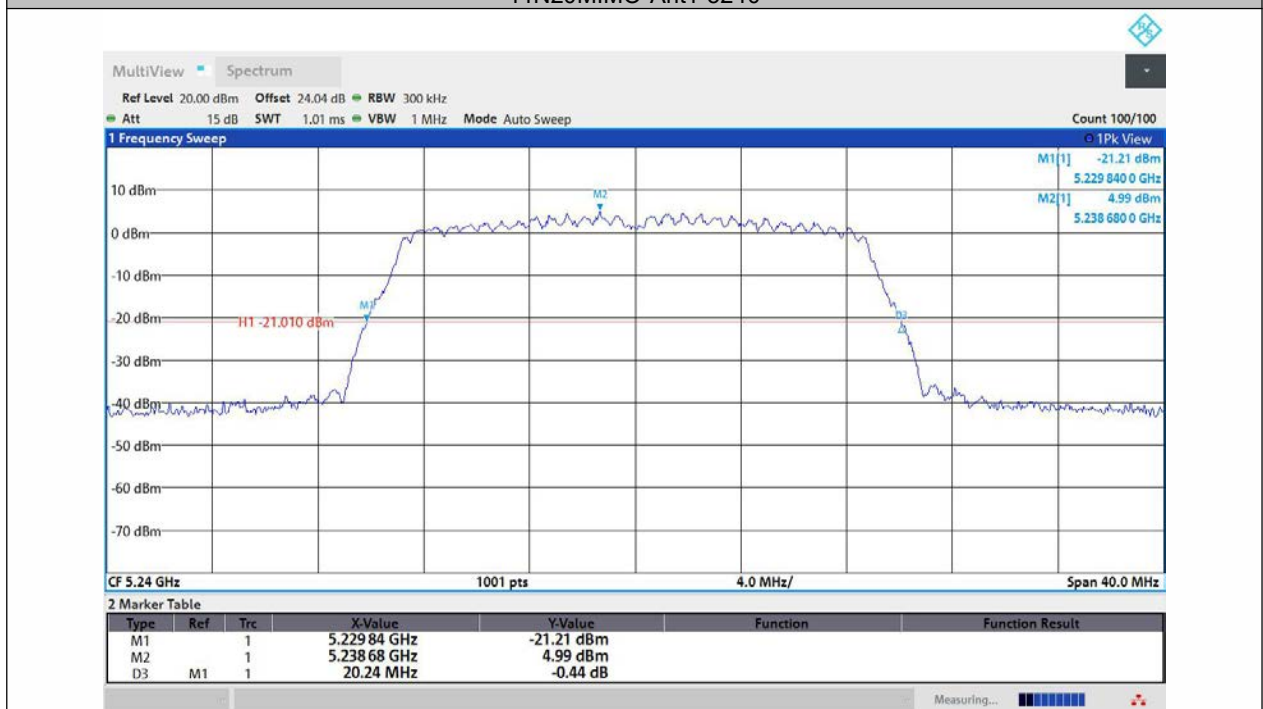
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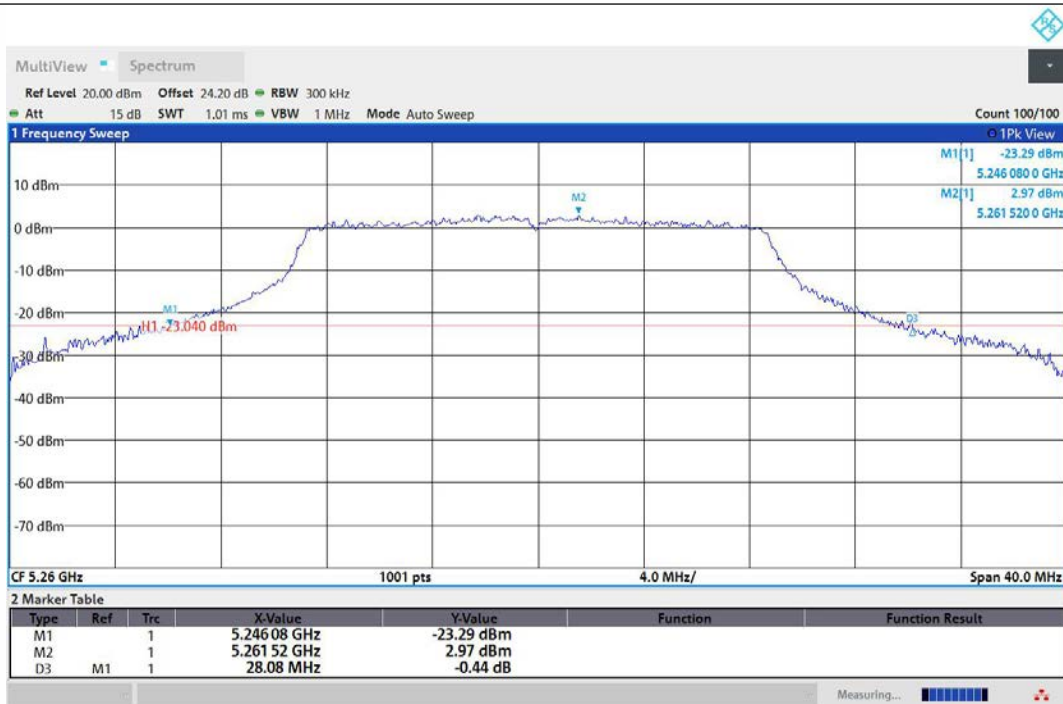
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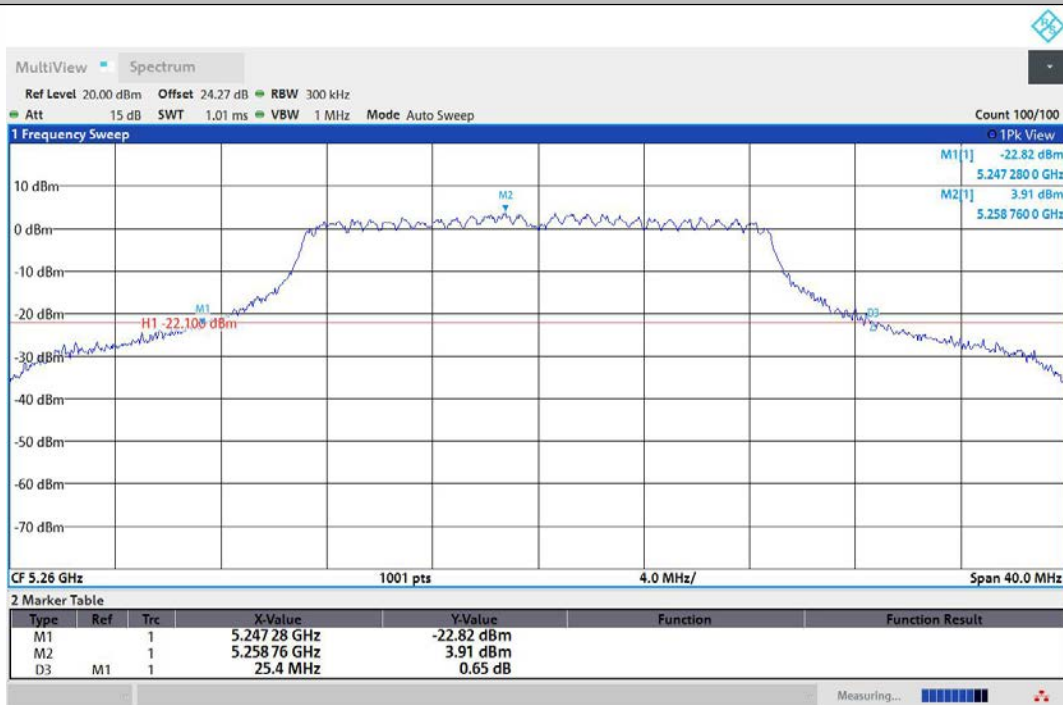
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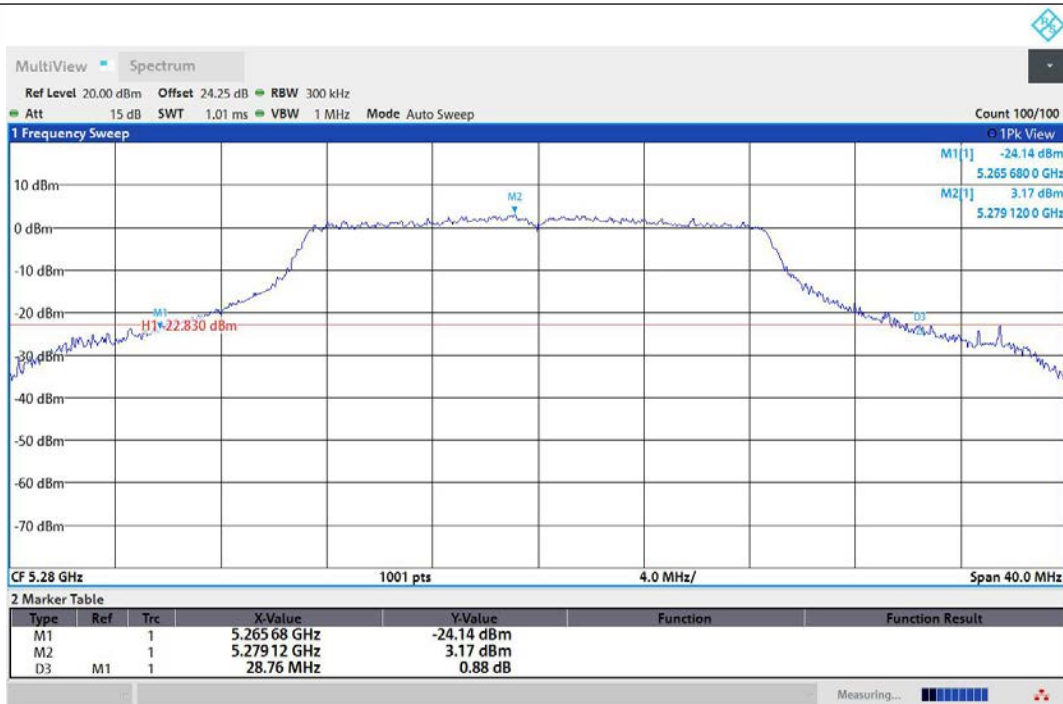
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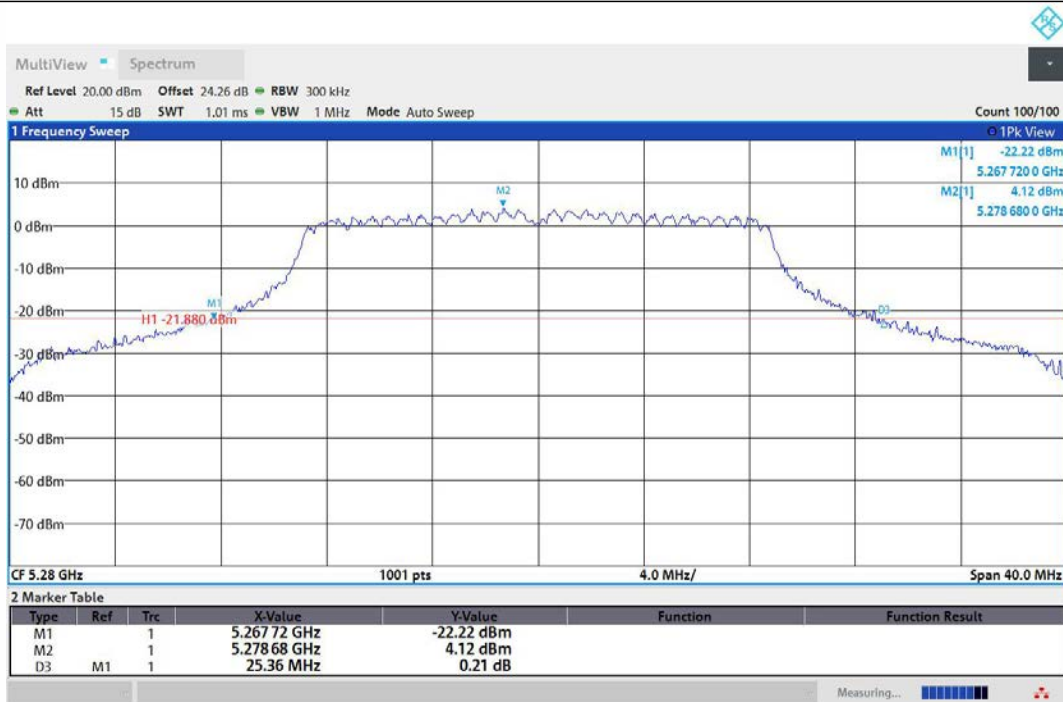
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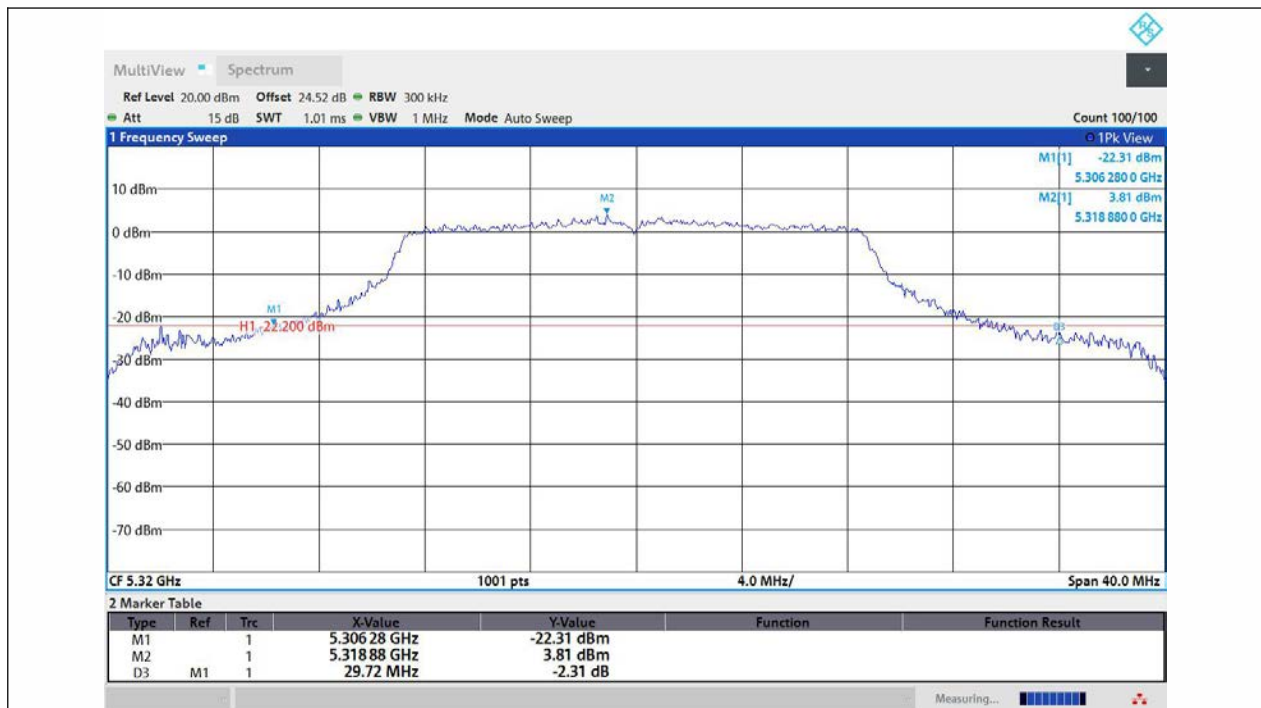
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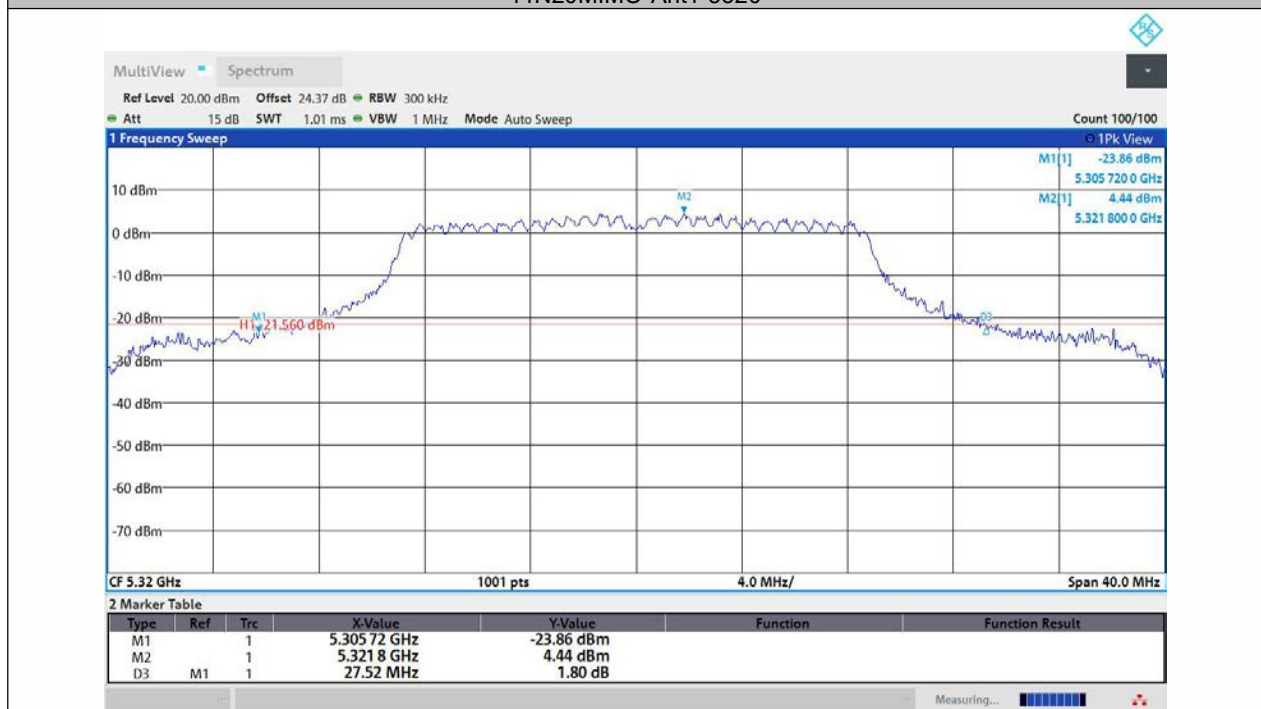
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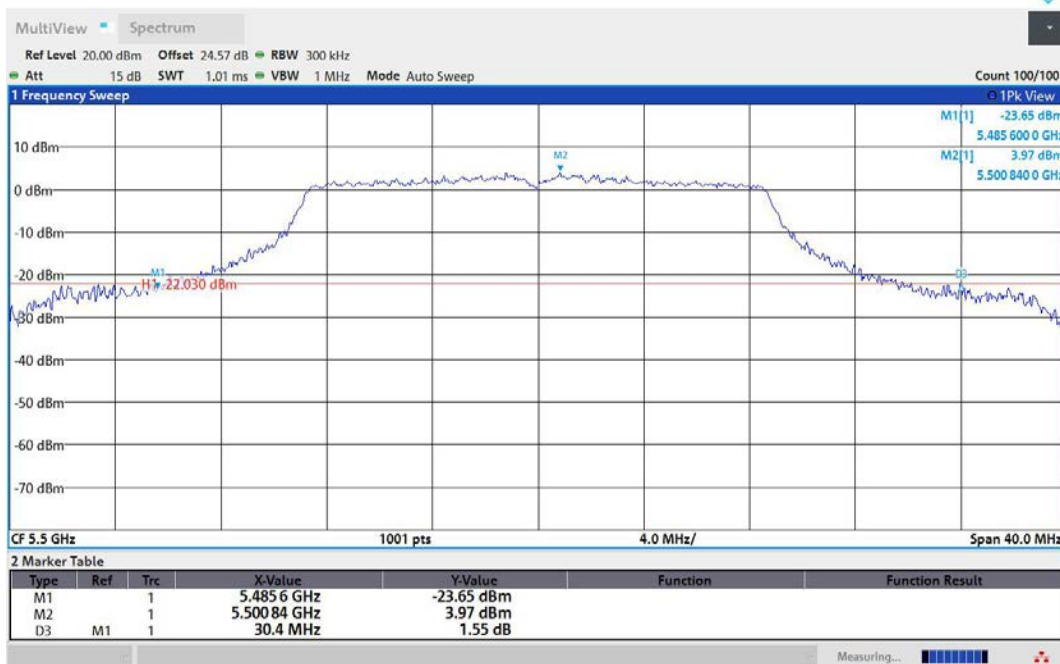
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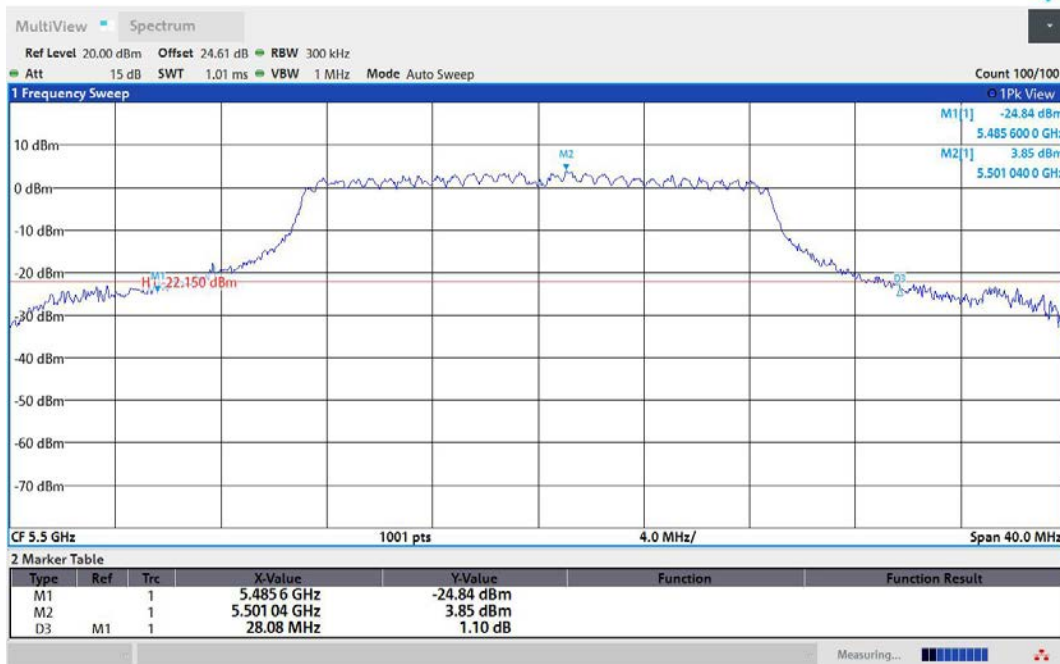
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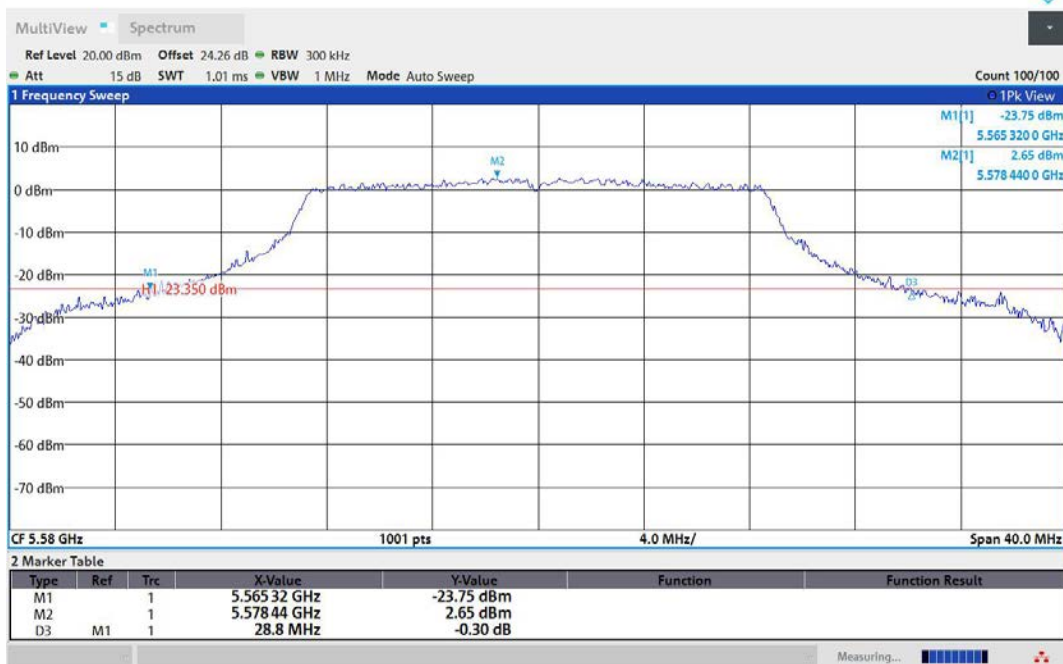
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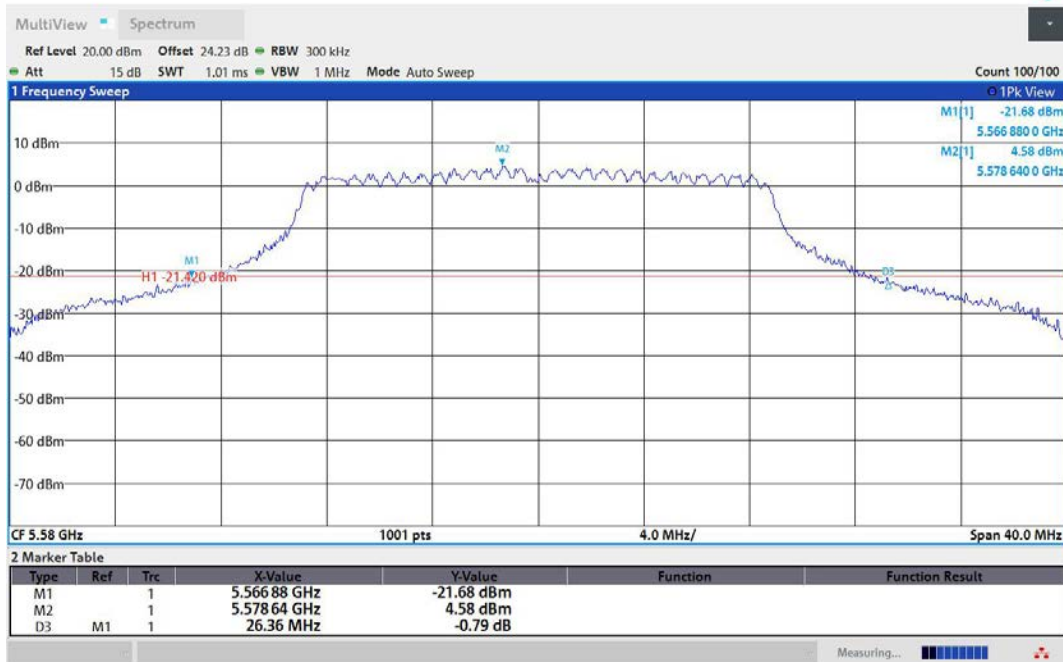
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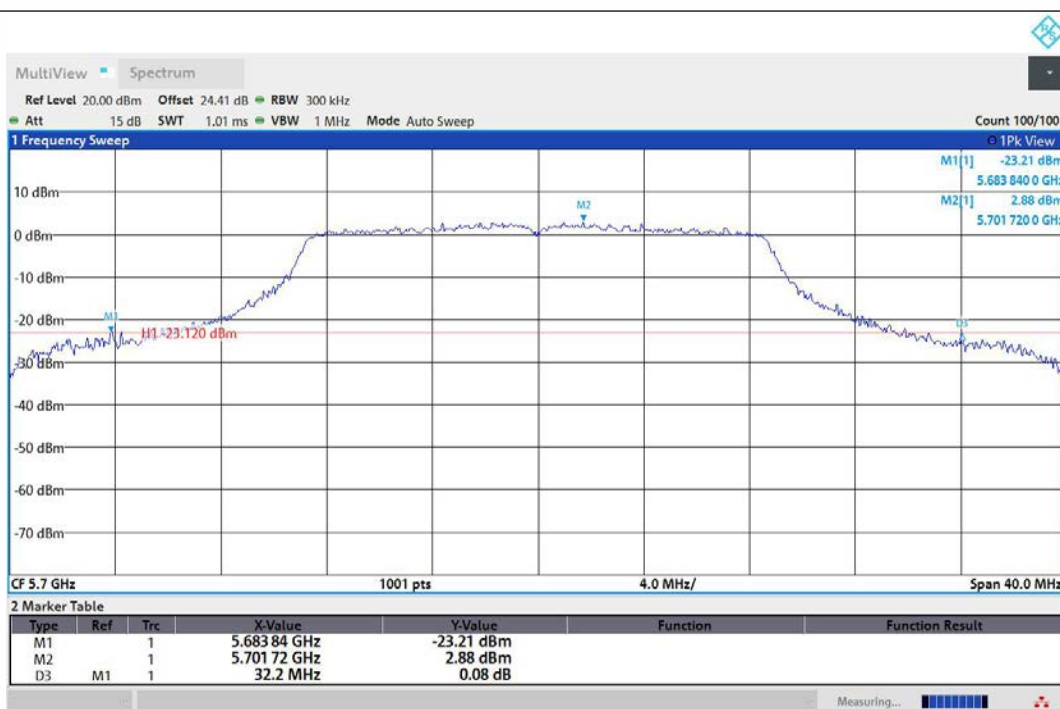
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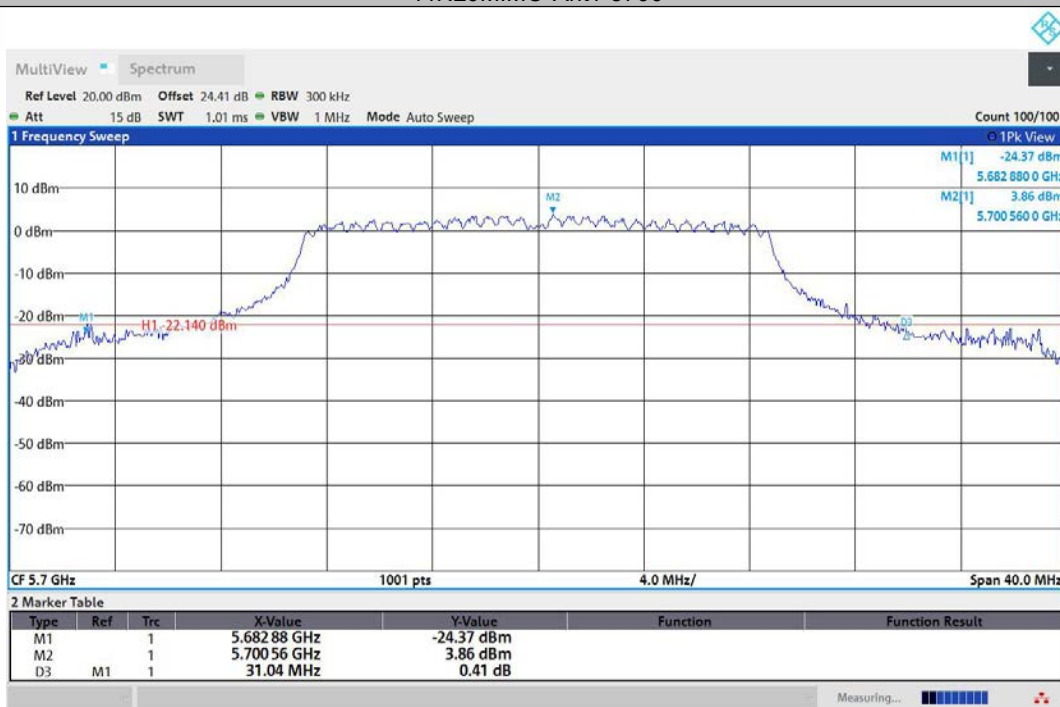
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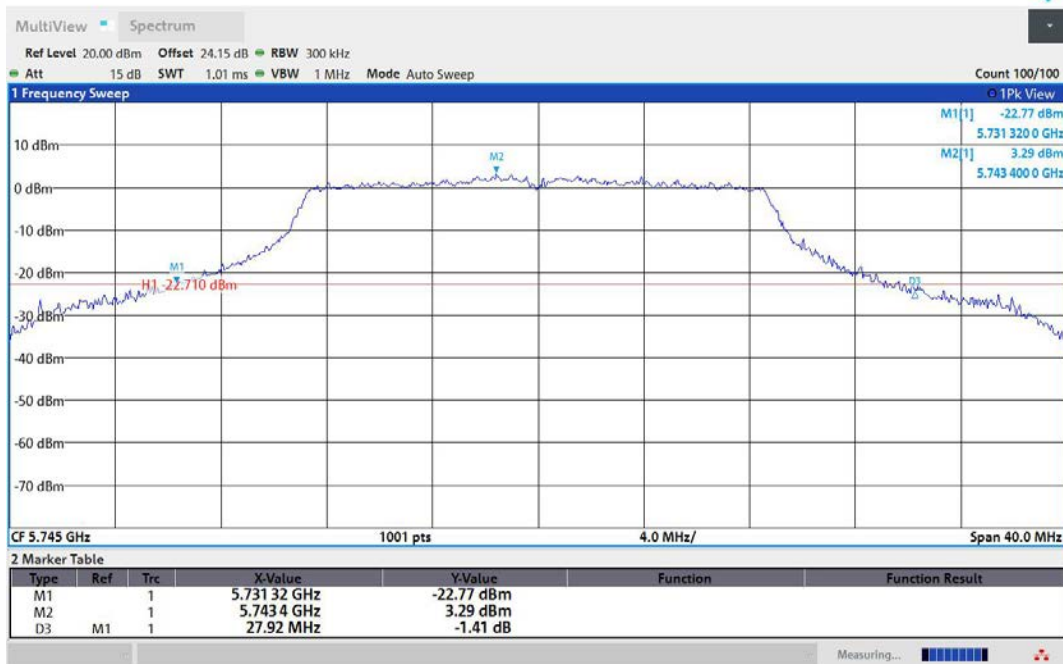
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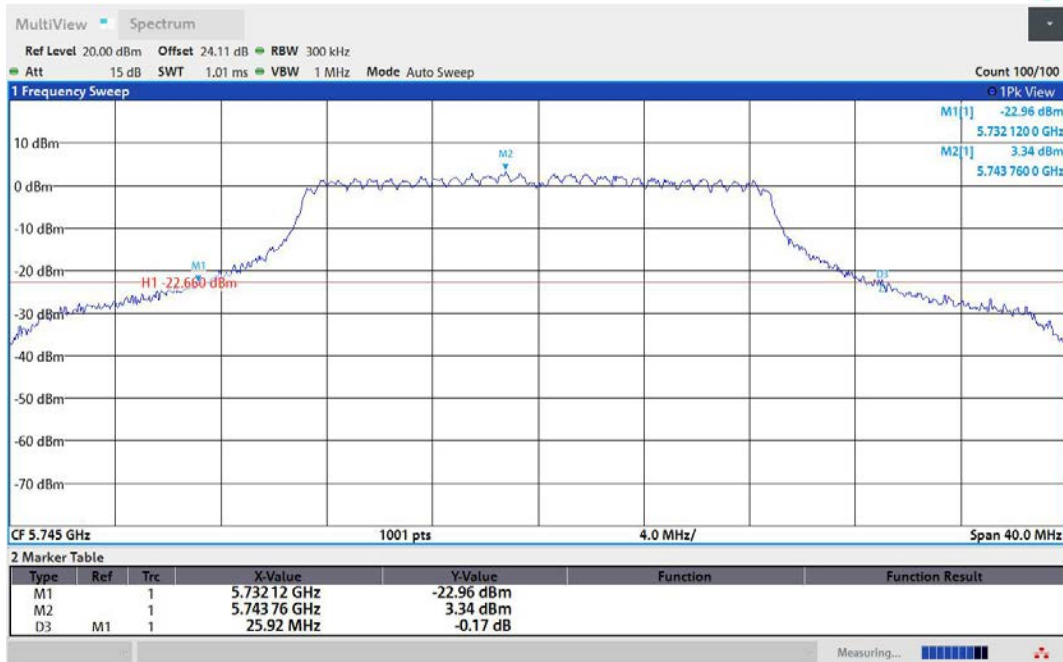
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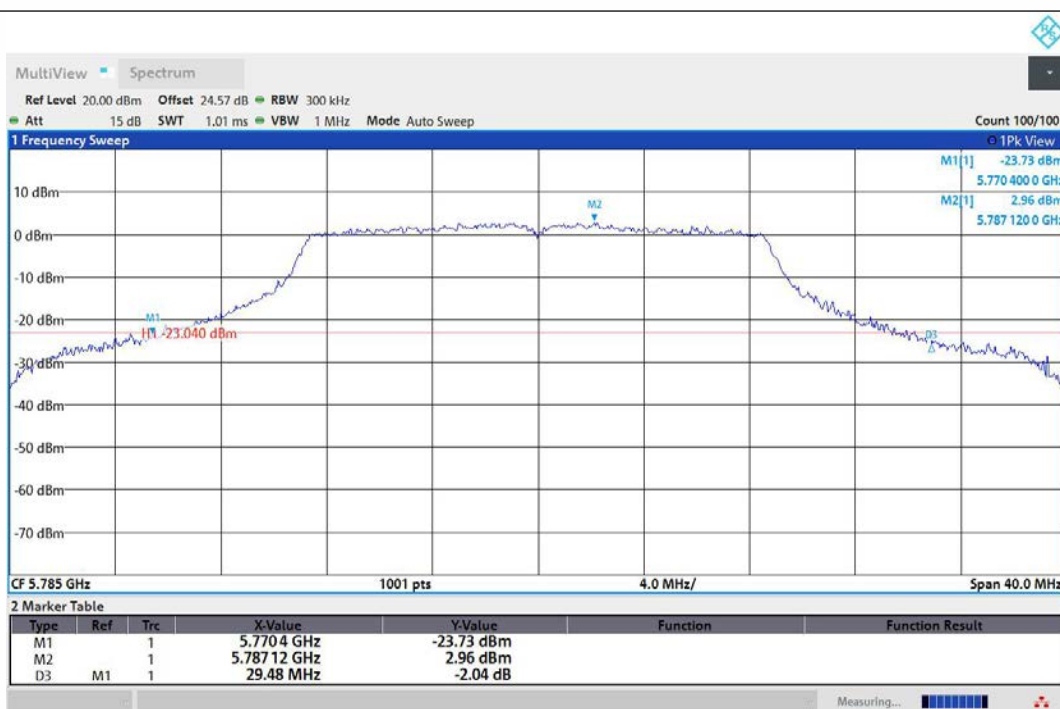
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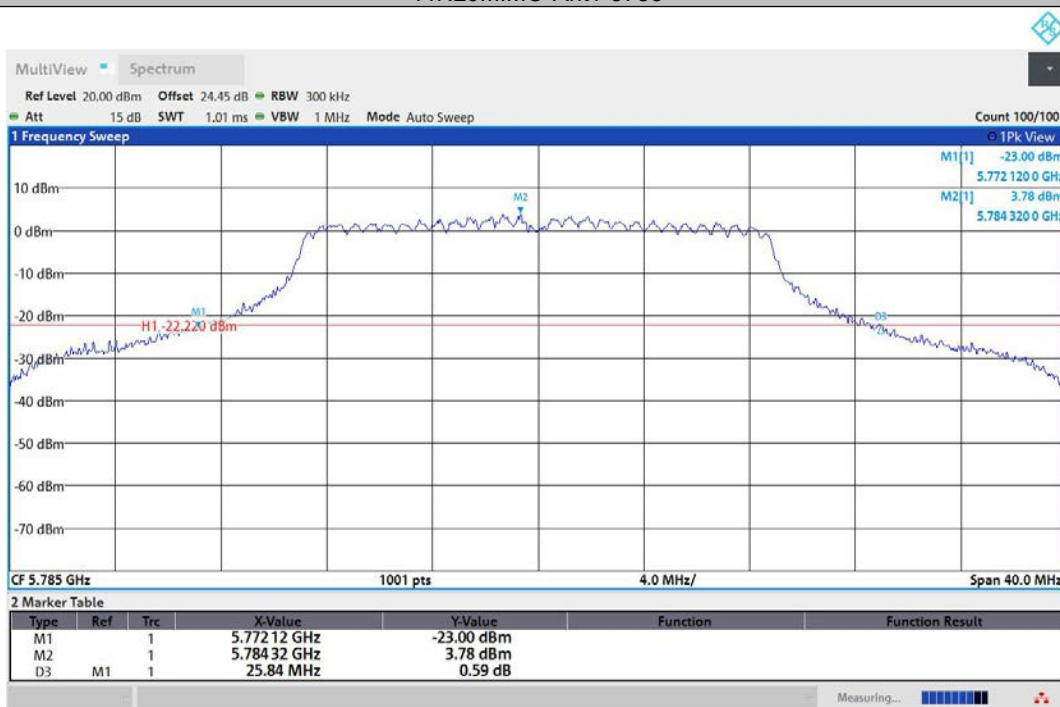
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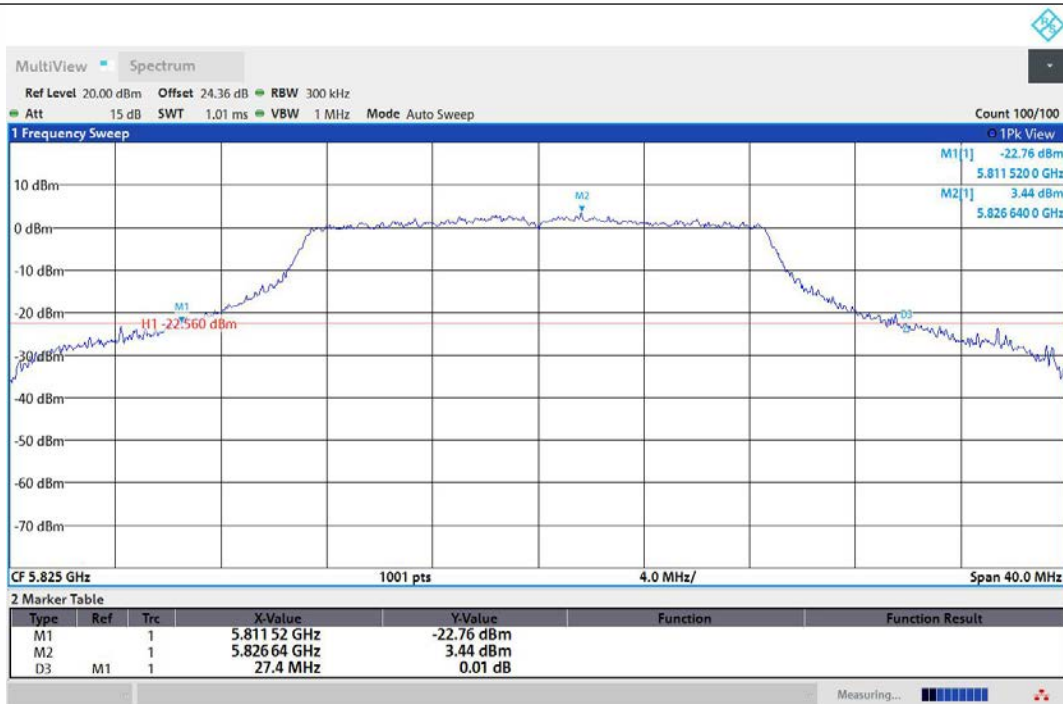
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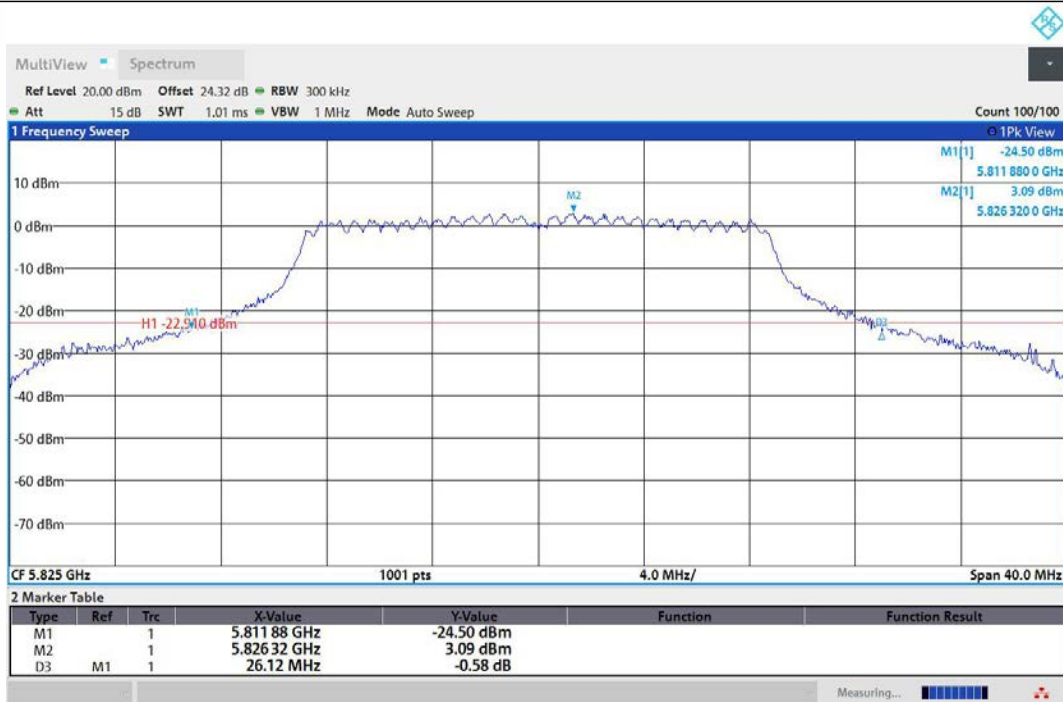
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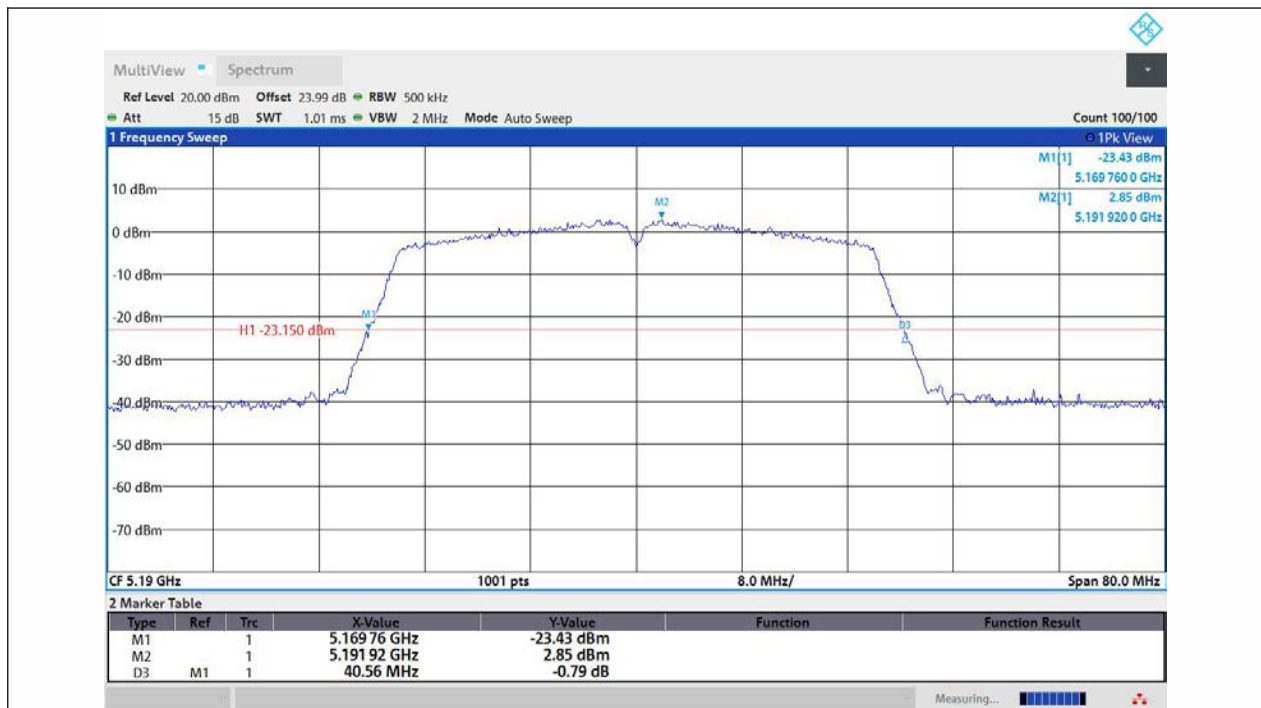
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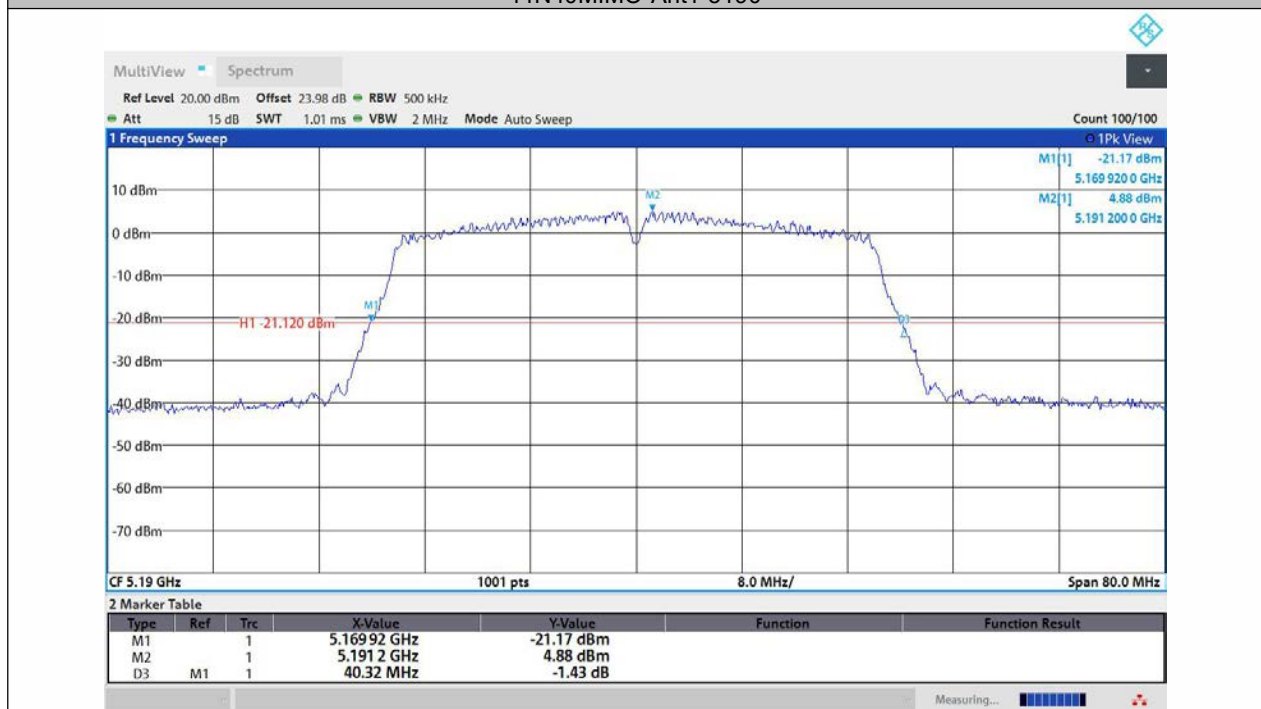
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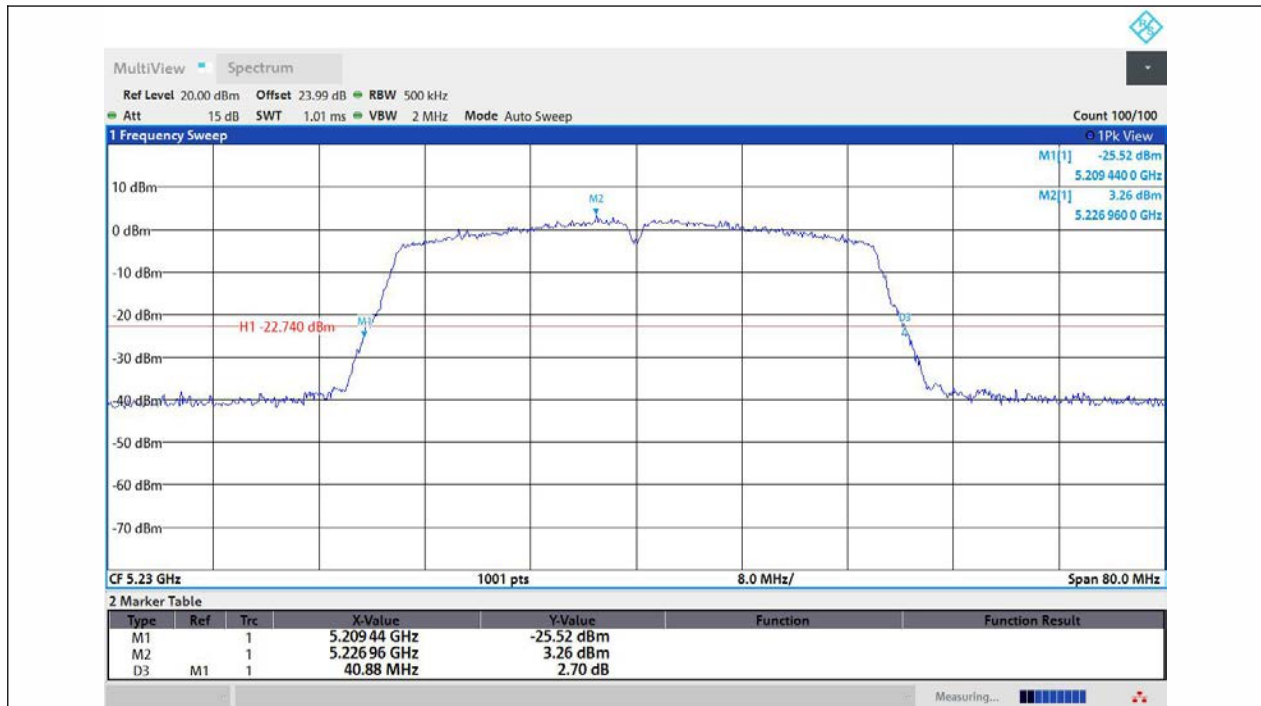
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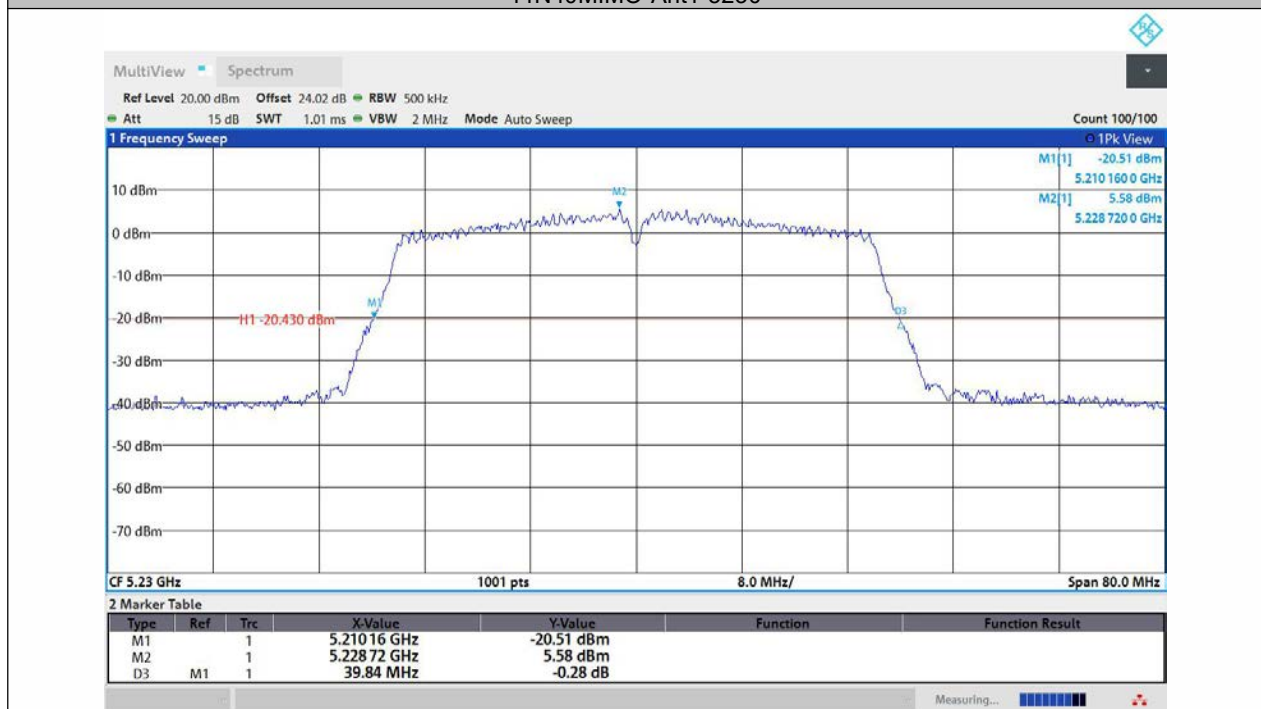
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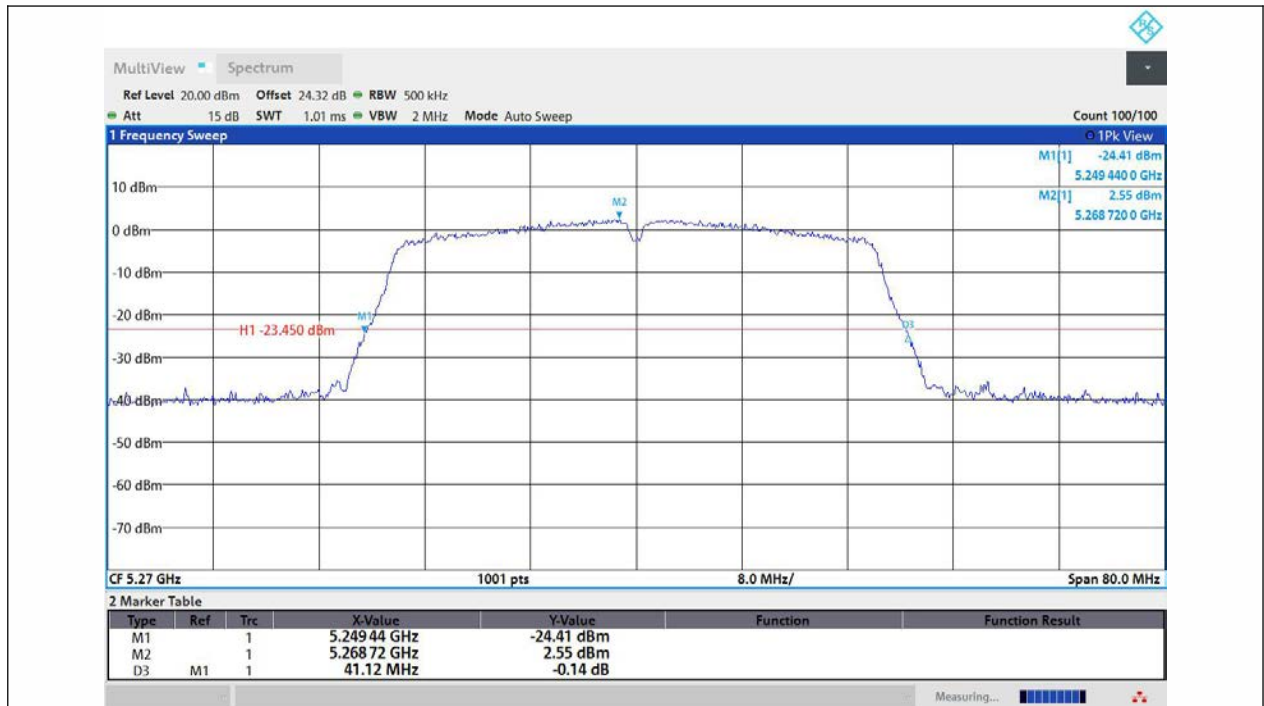
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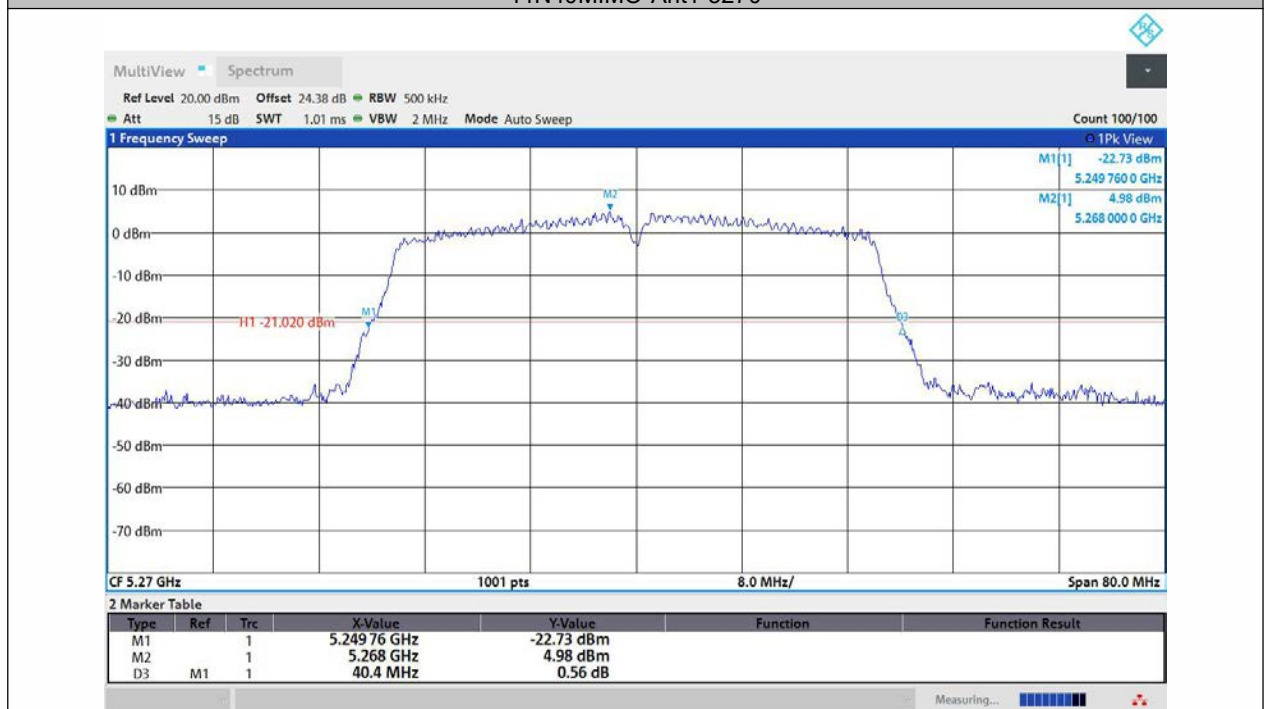
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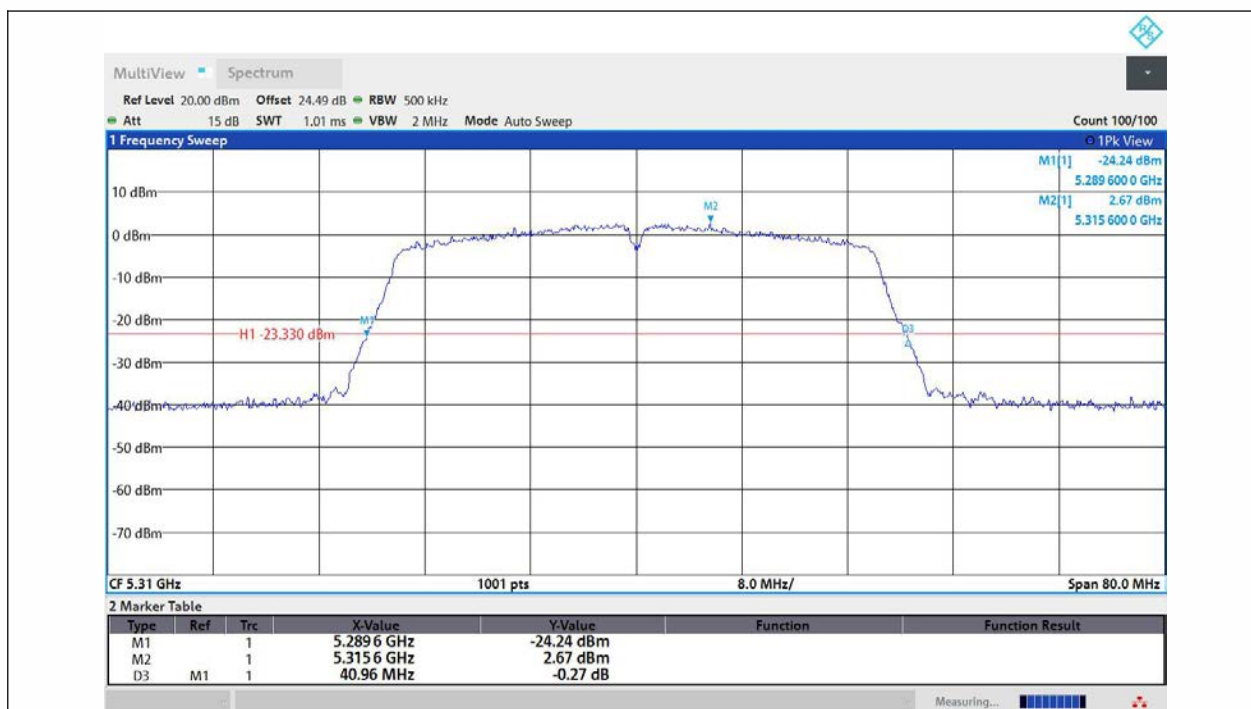
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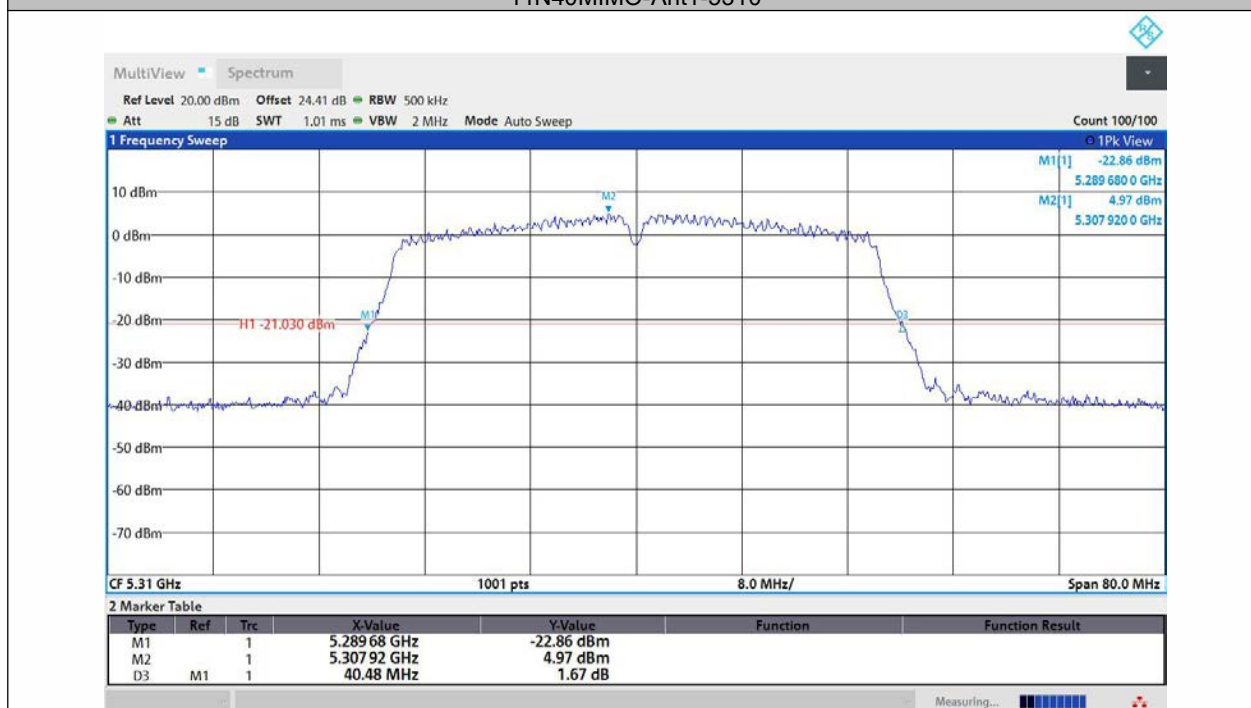
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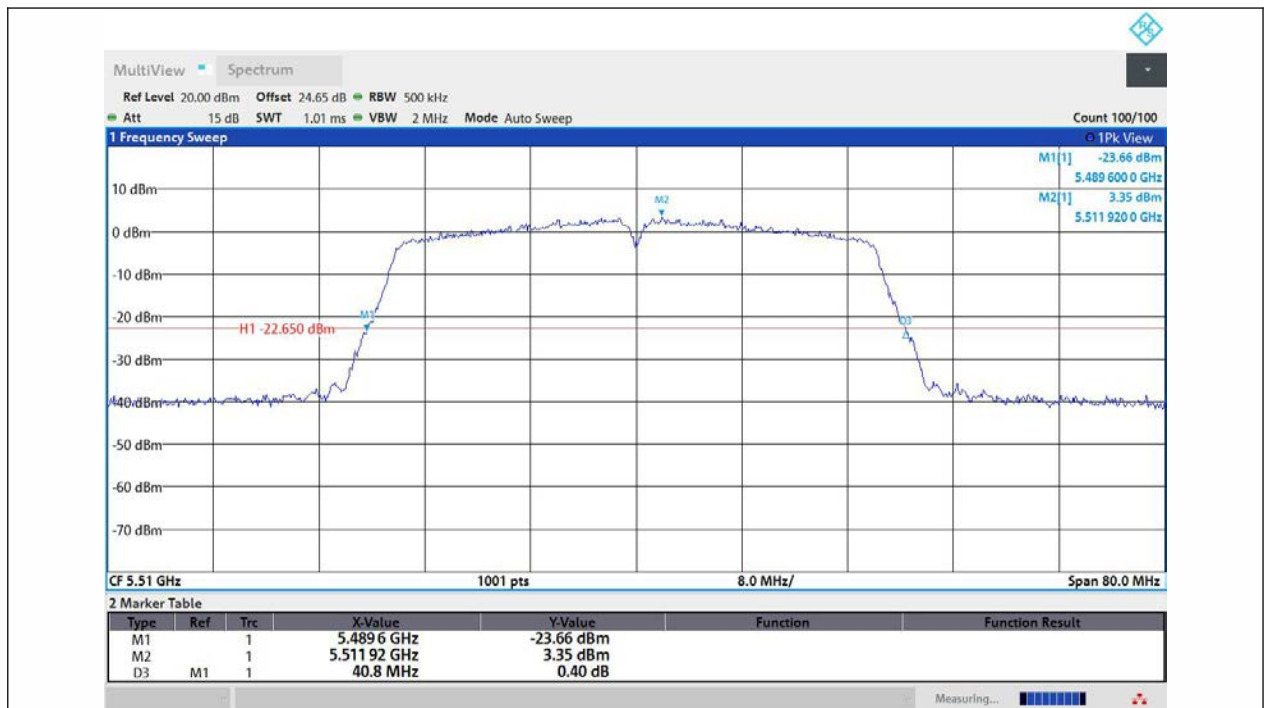
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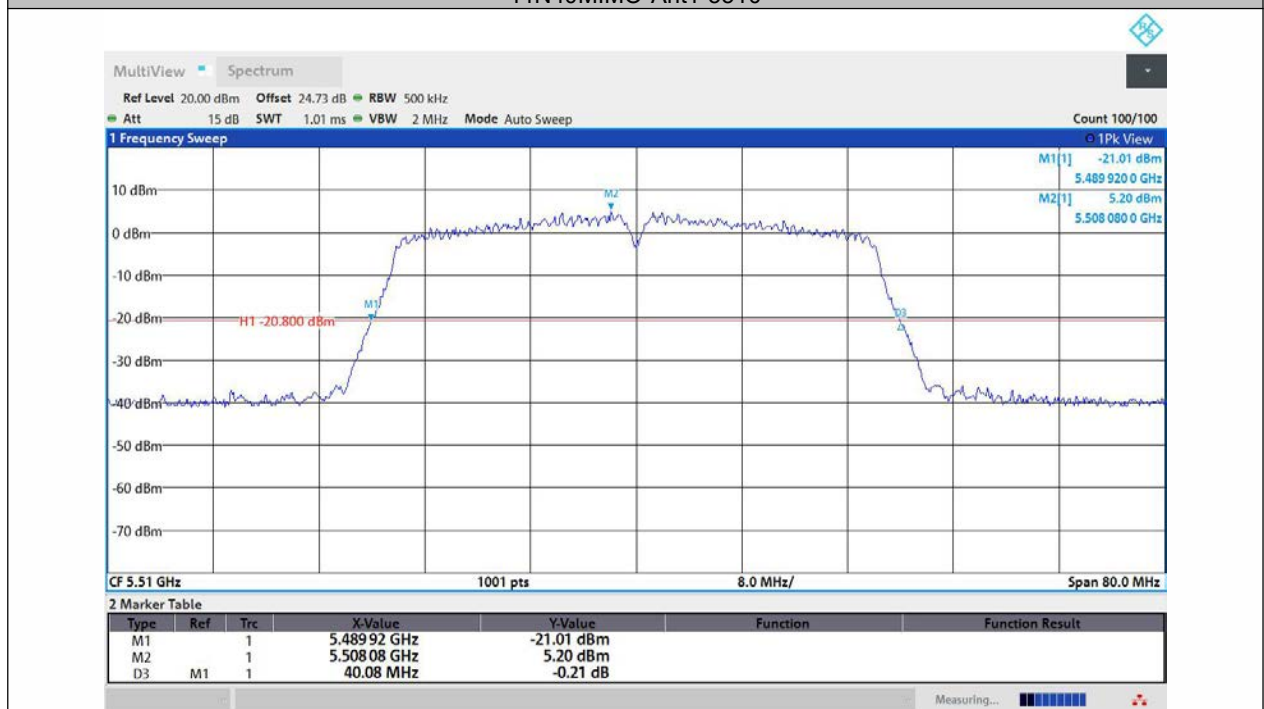
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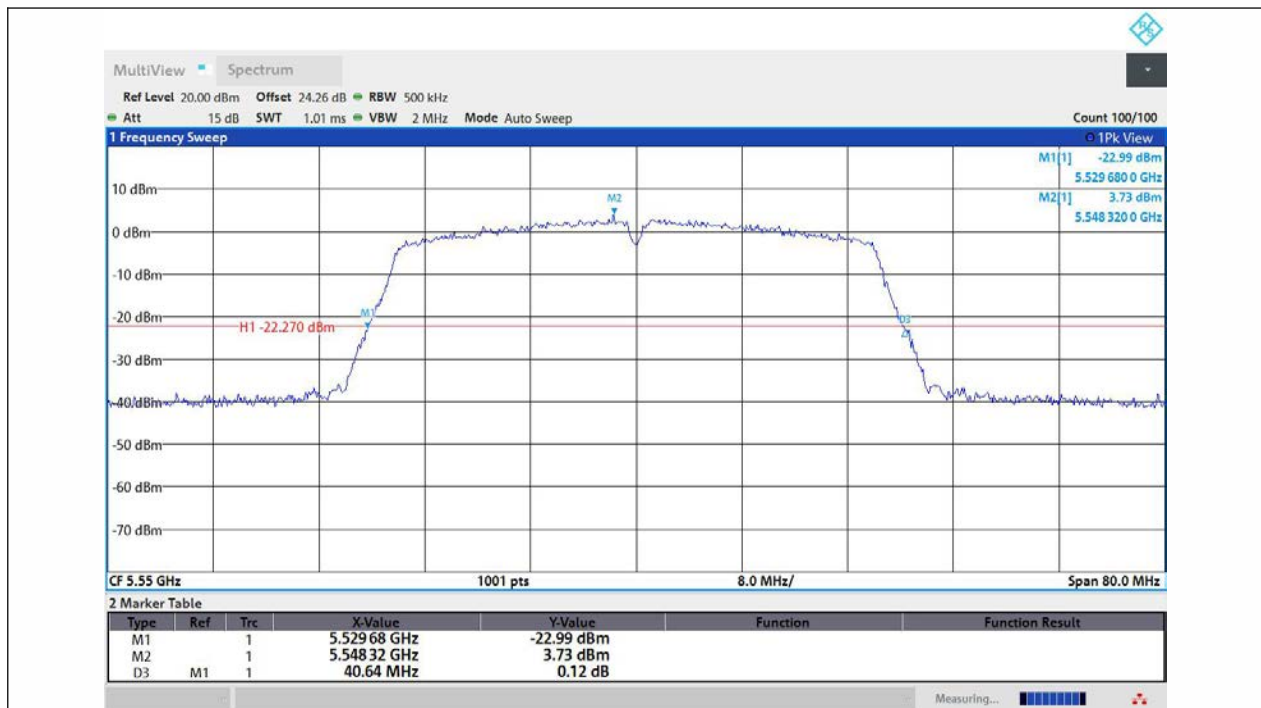
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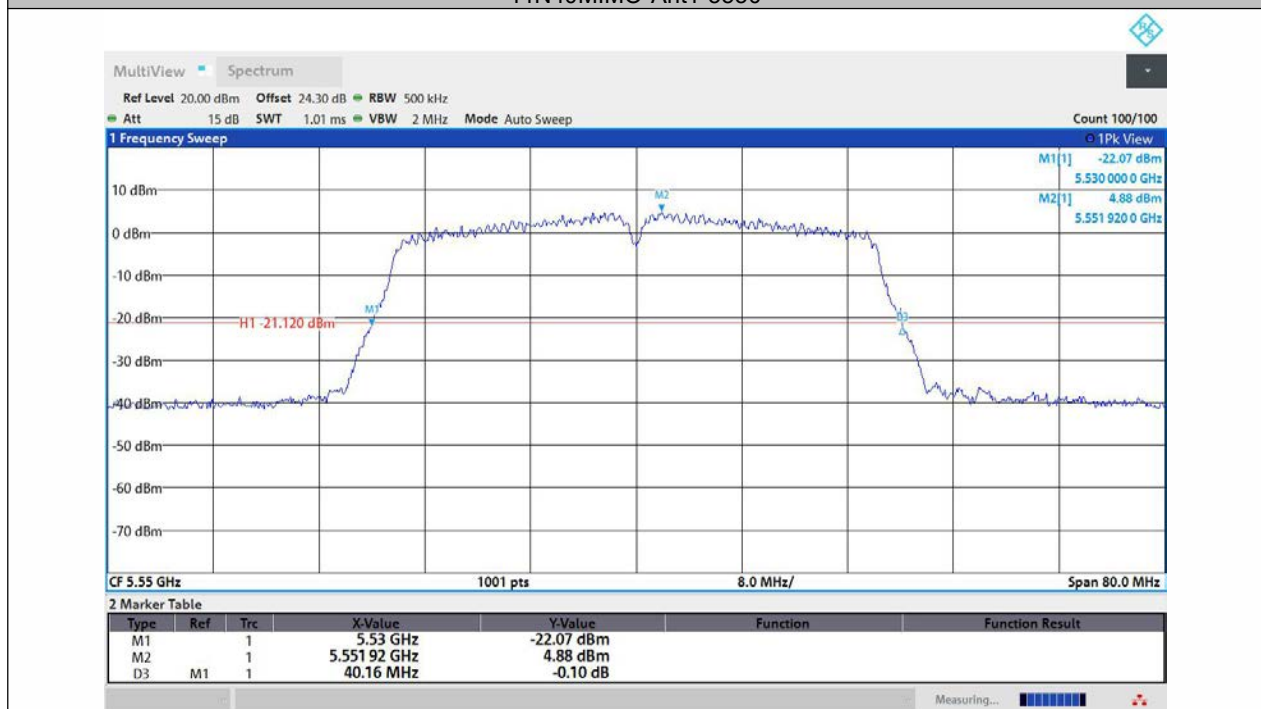
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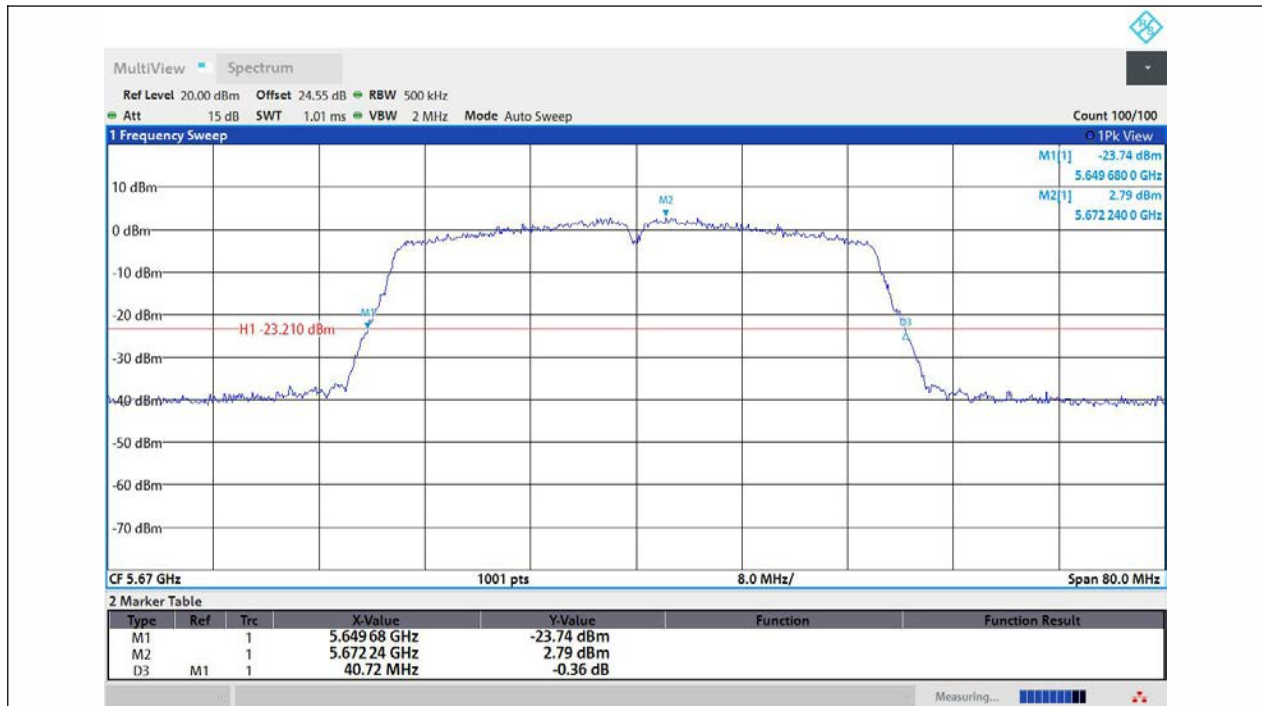
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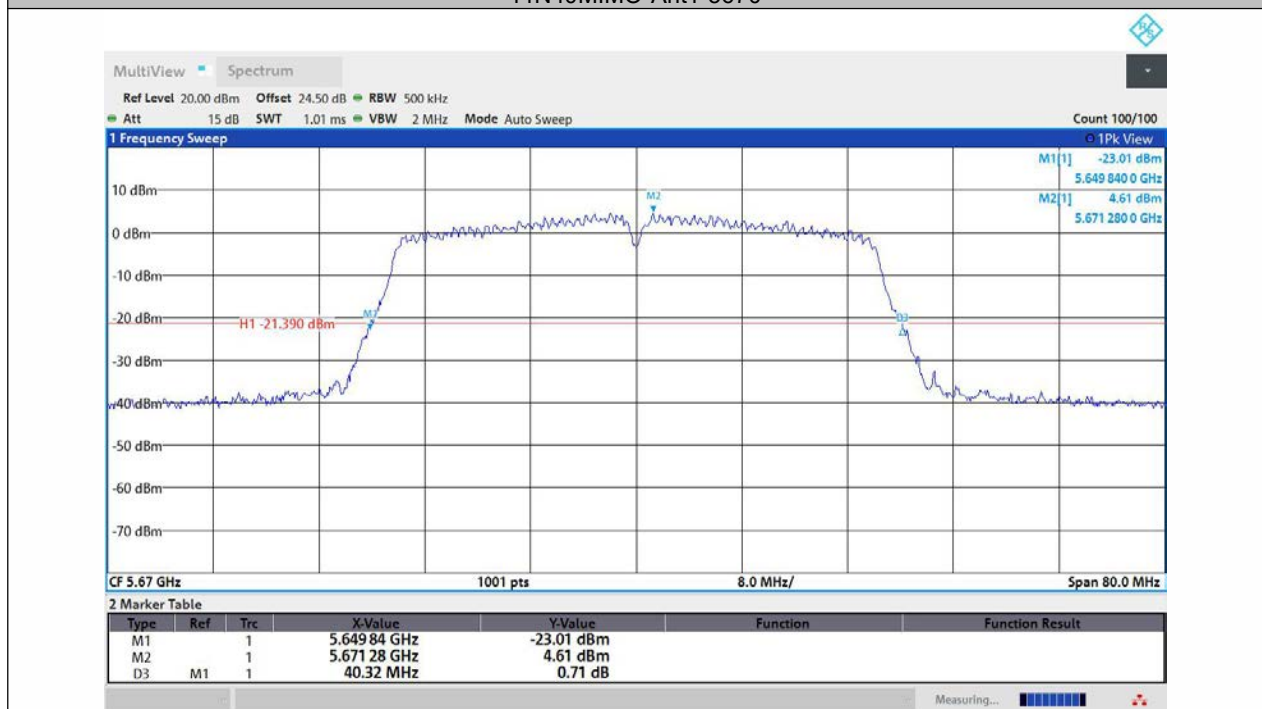
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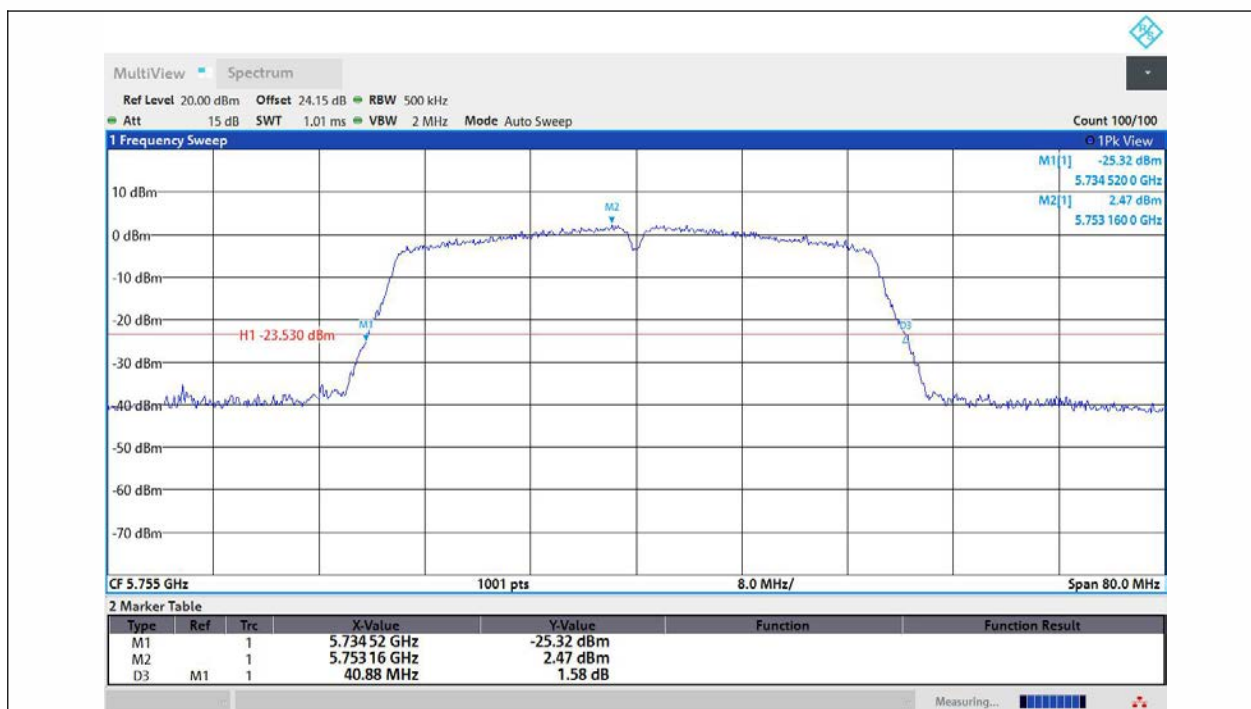
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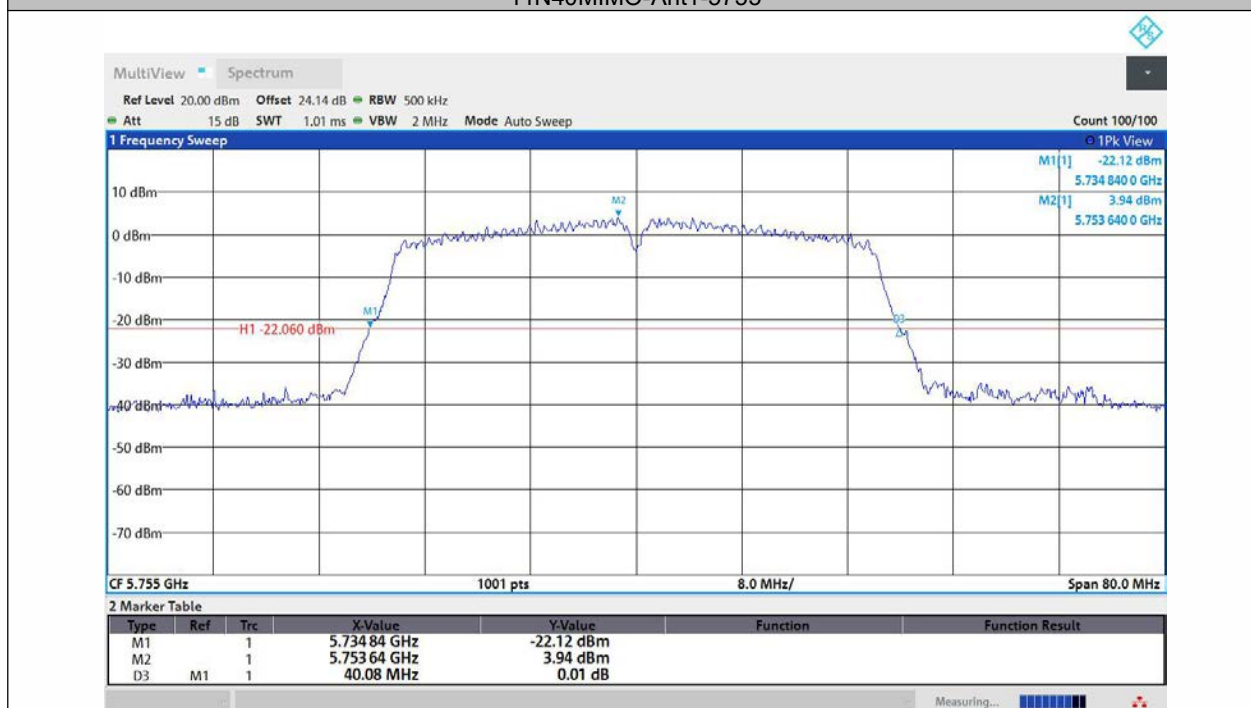
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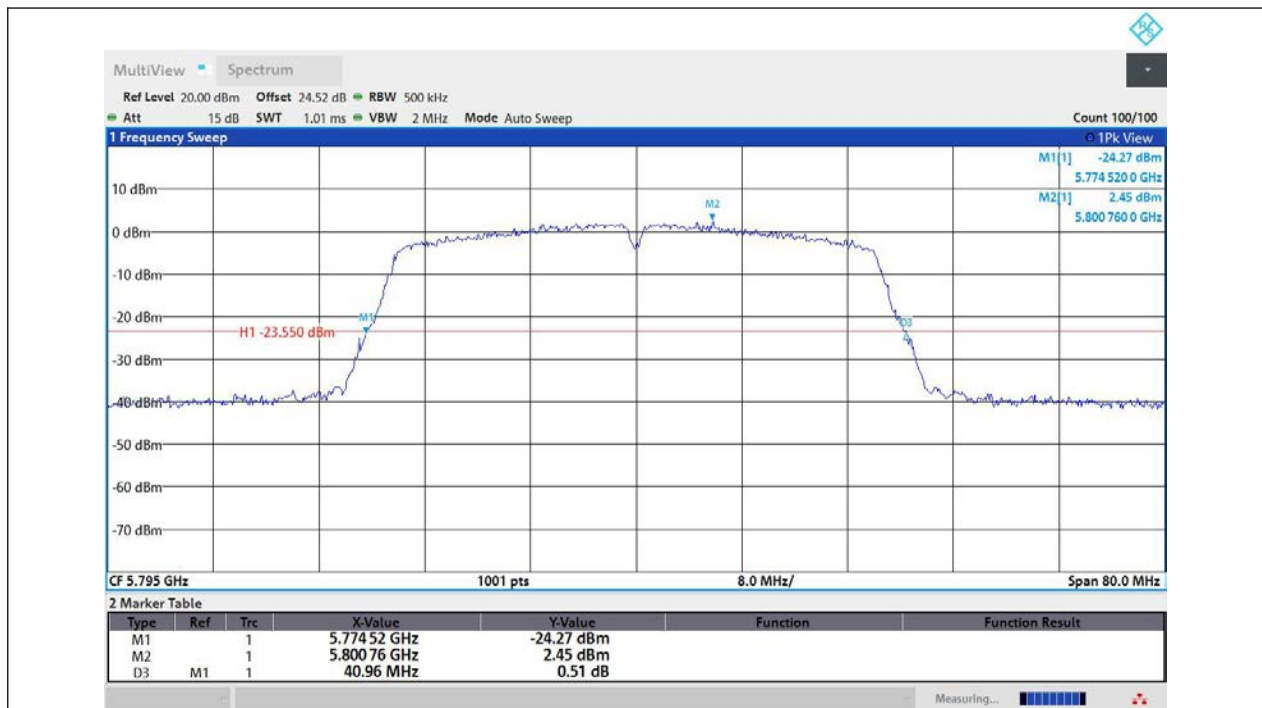
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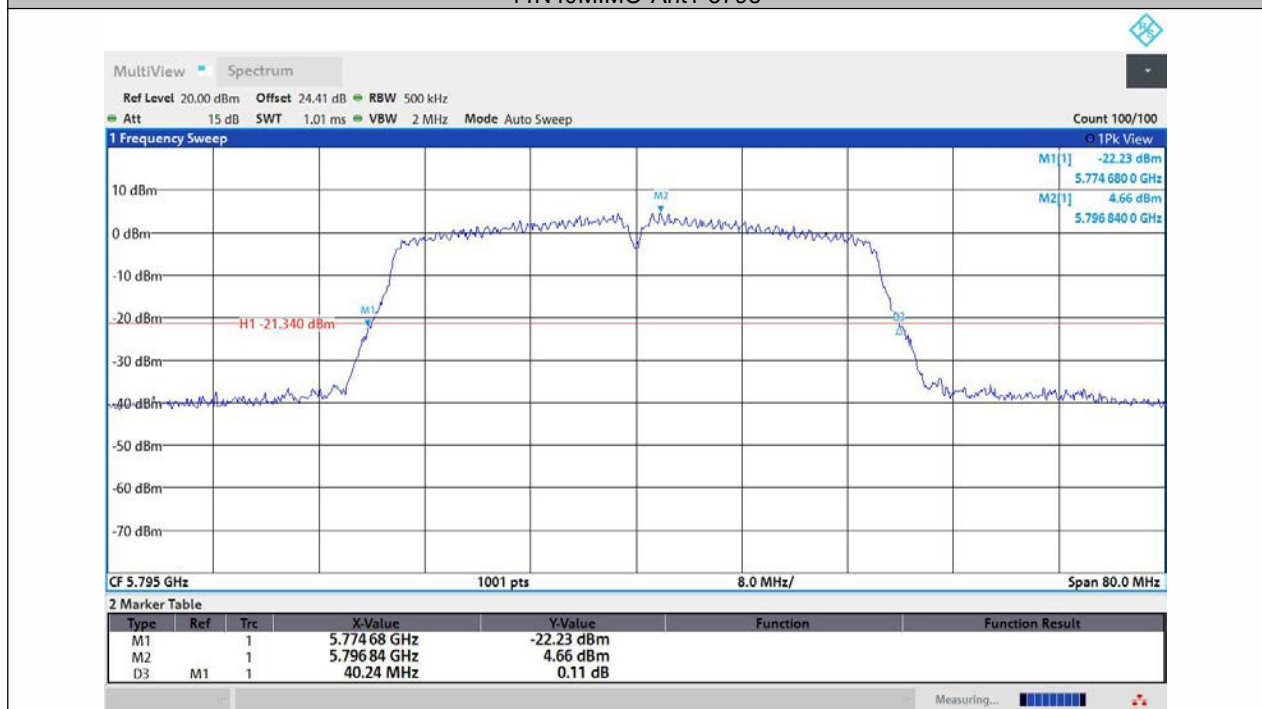
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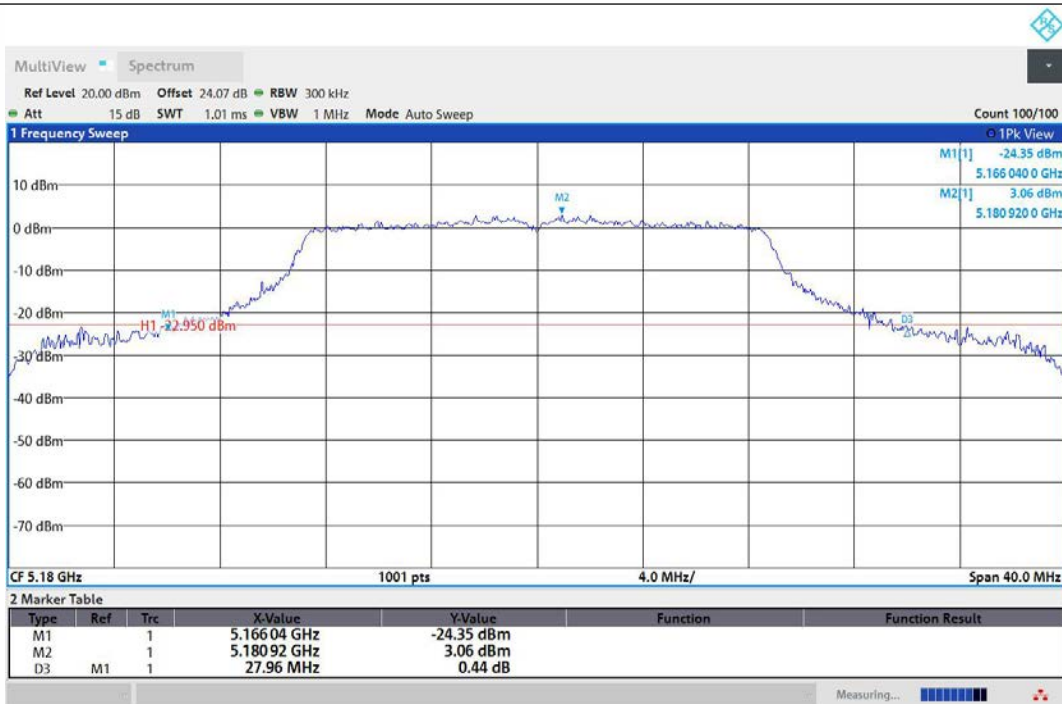
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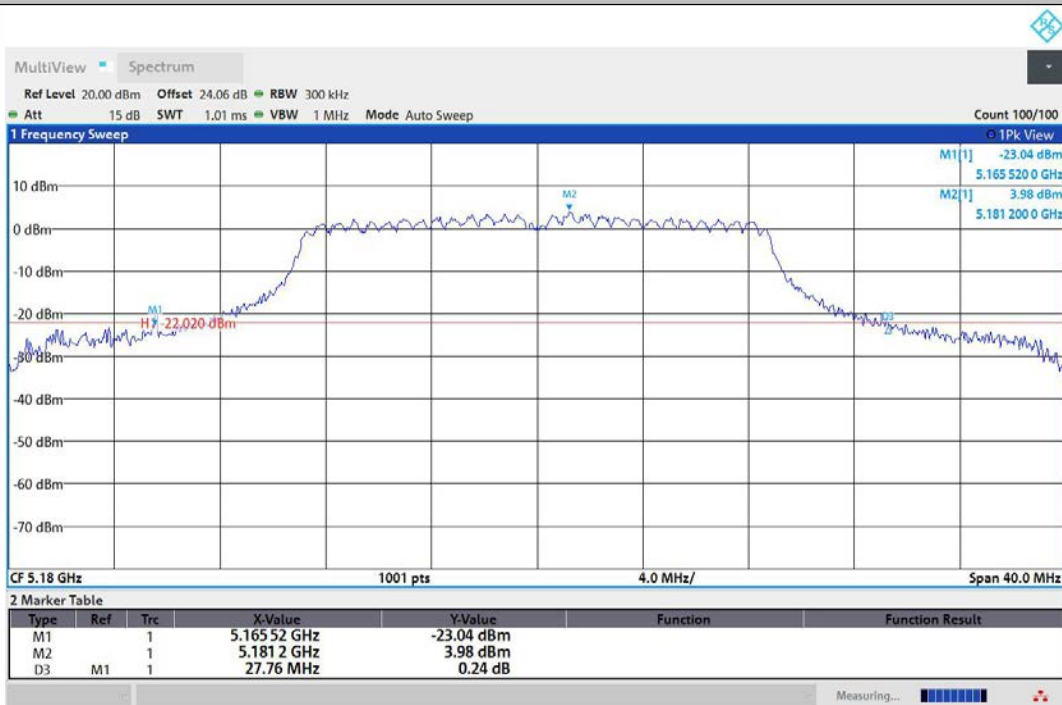
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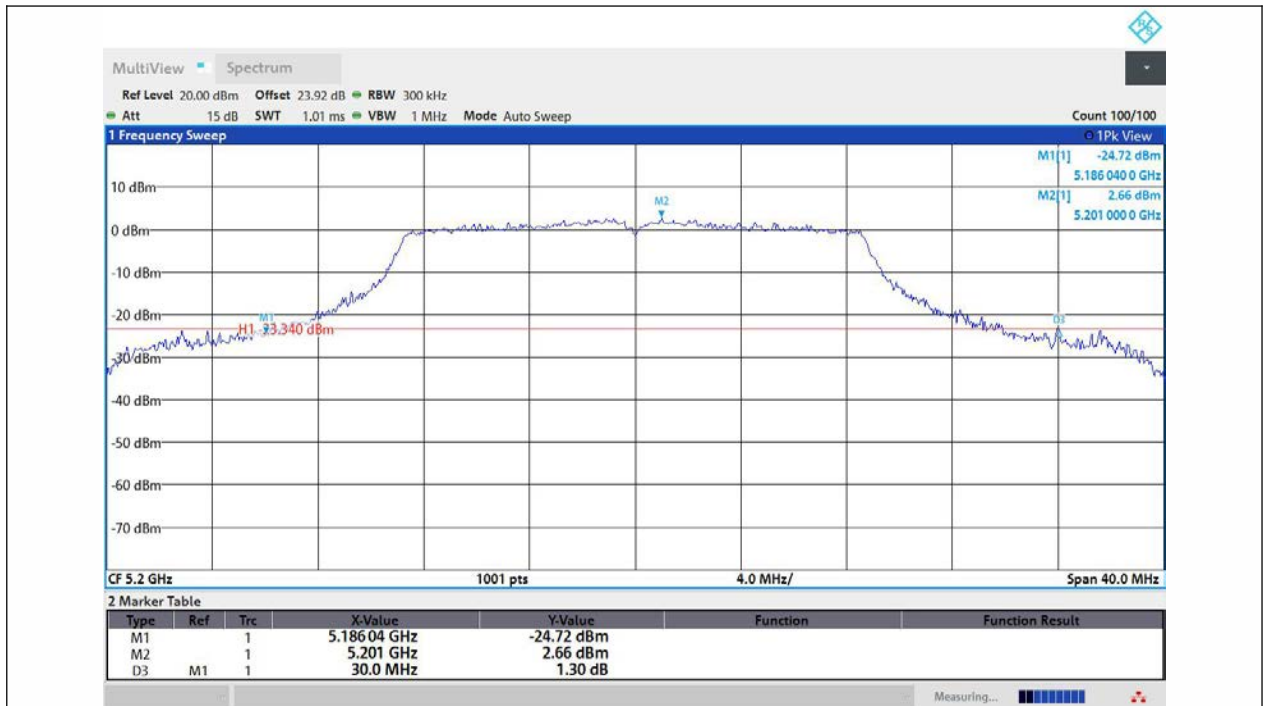
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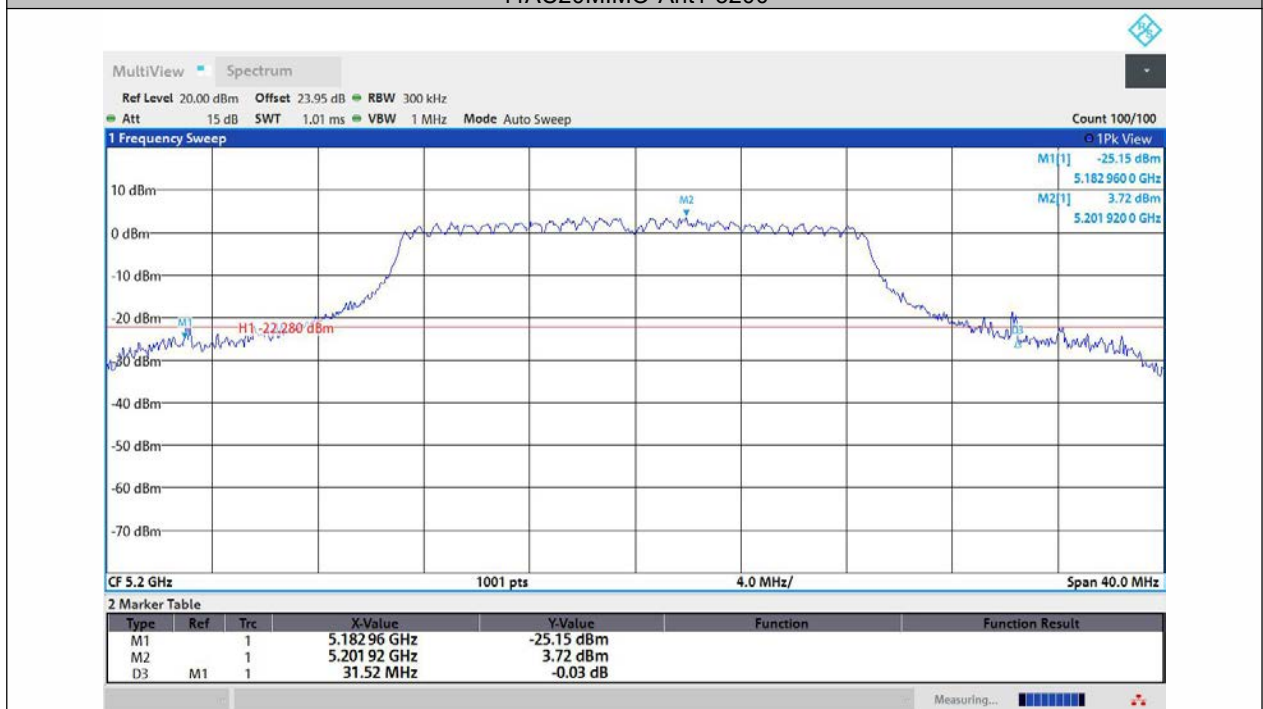
11AC20MIMO-Ant1-5180



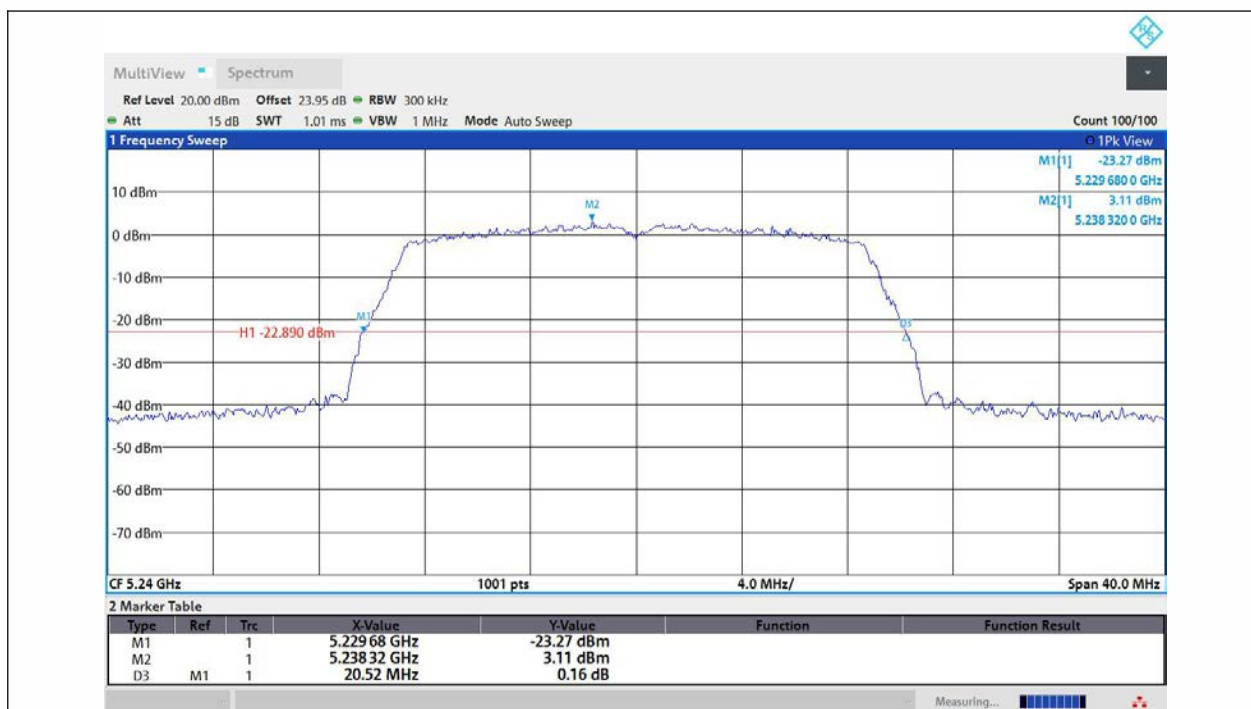
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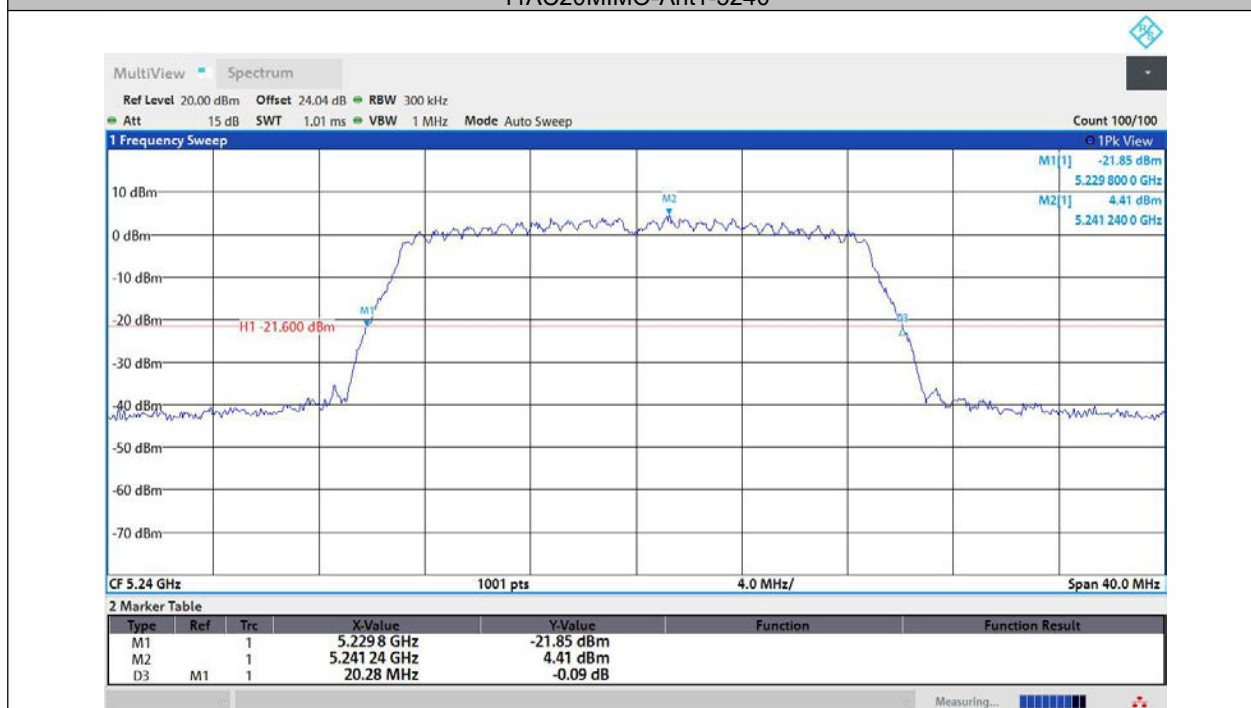
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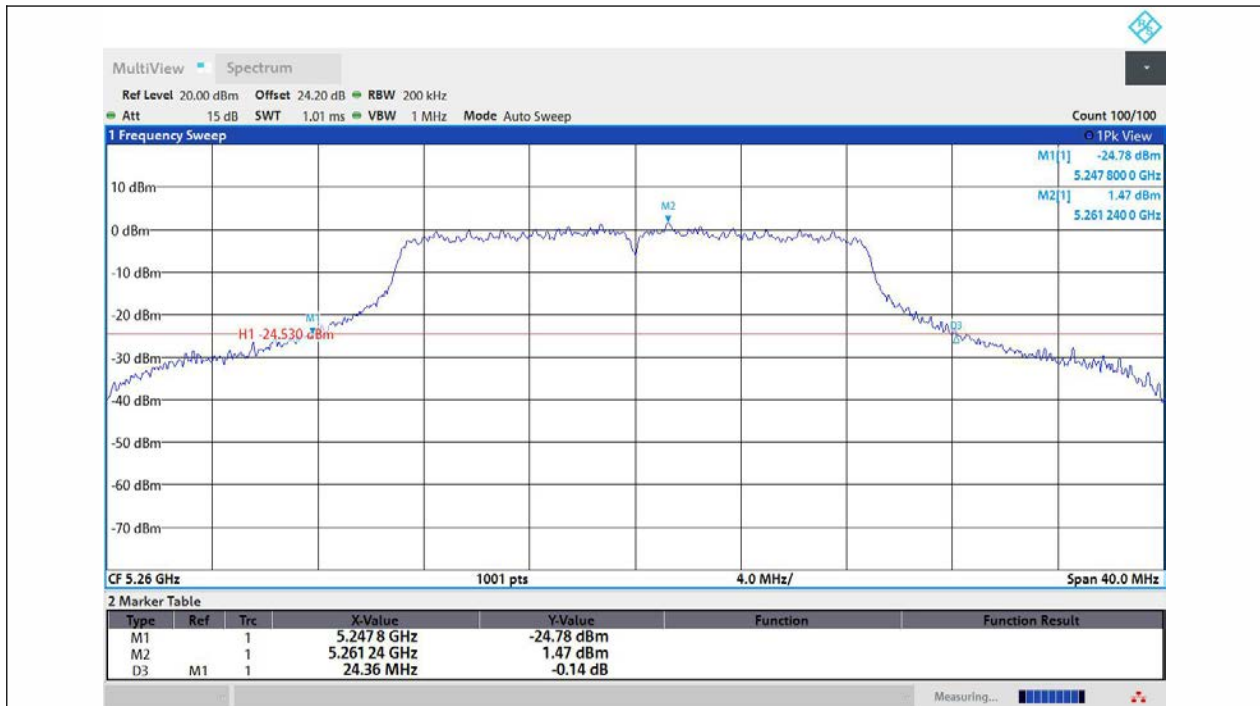
11AC20MIMO-Ant2-5200



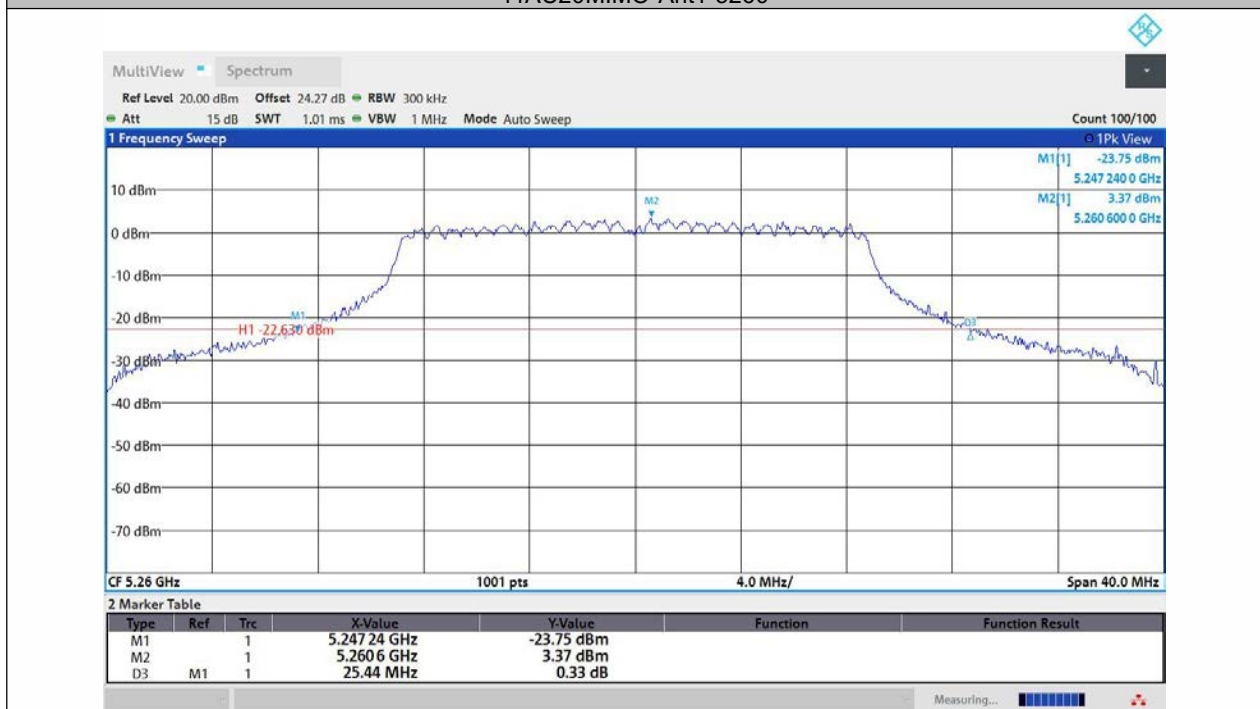
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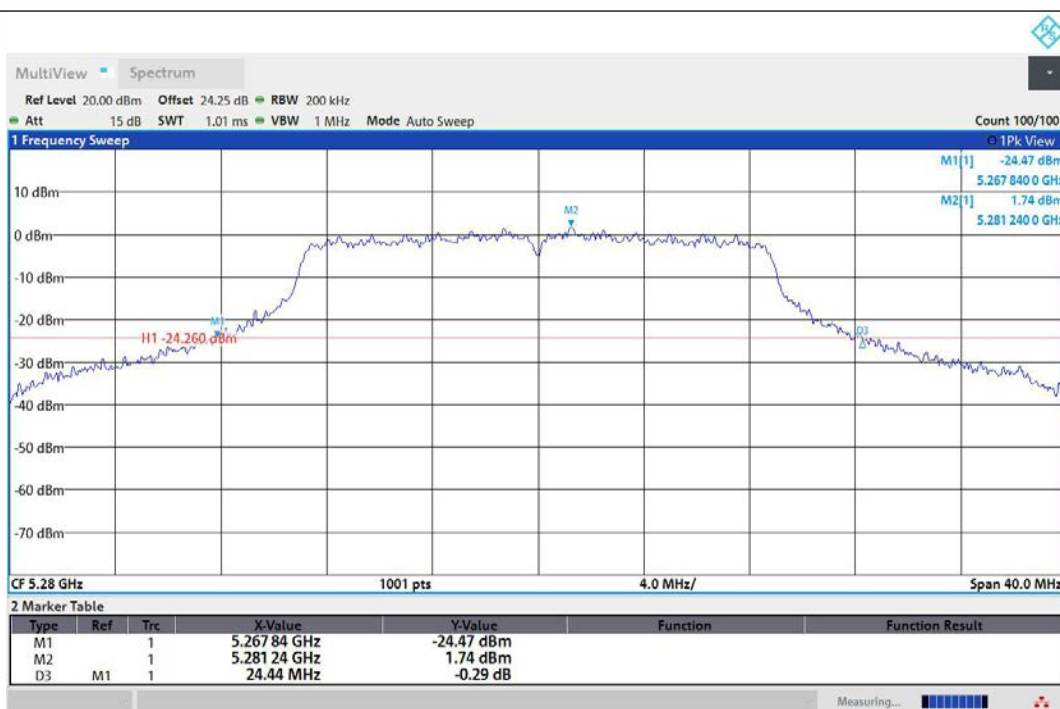
11AC20MIMO-Ant2-5240



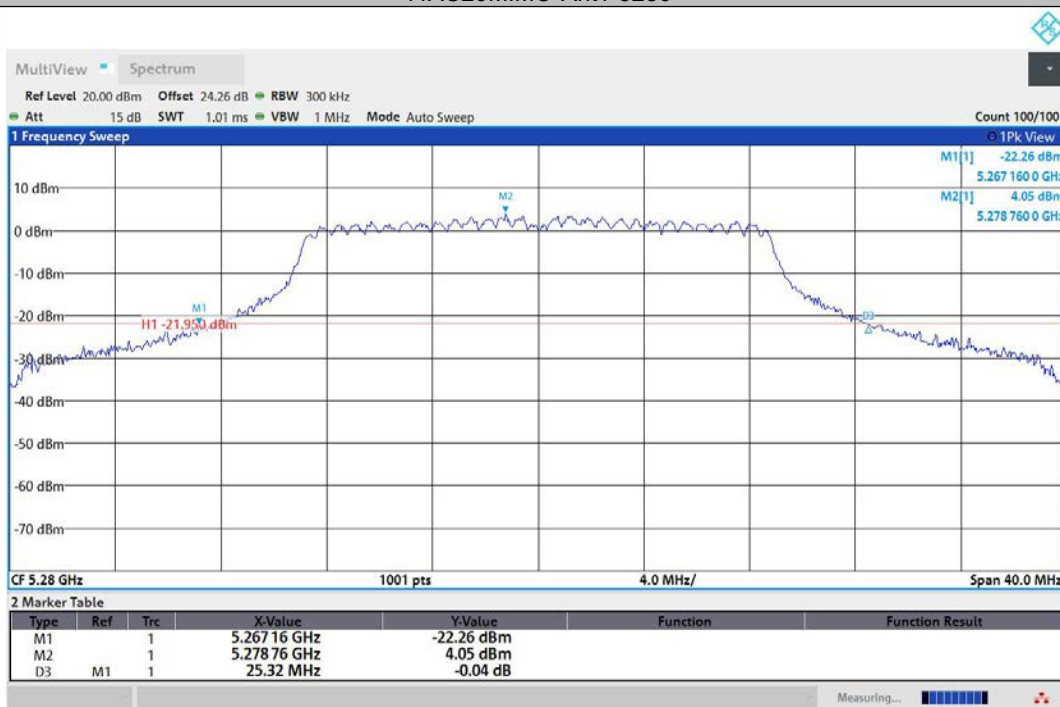
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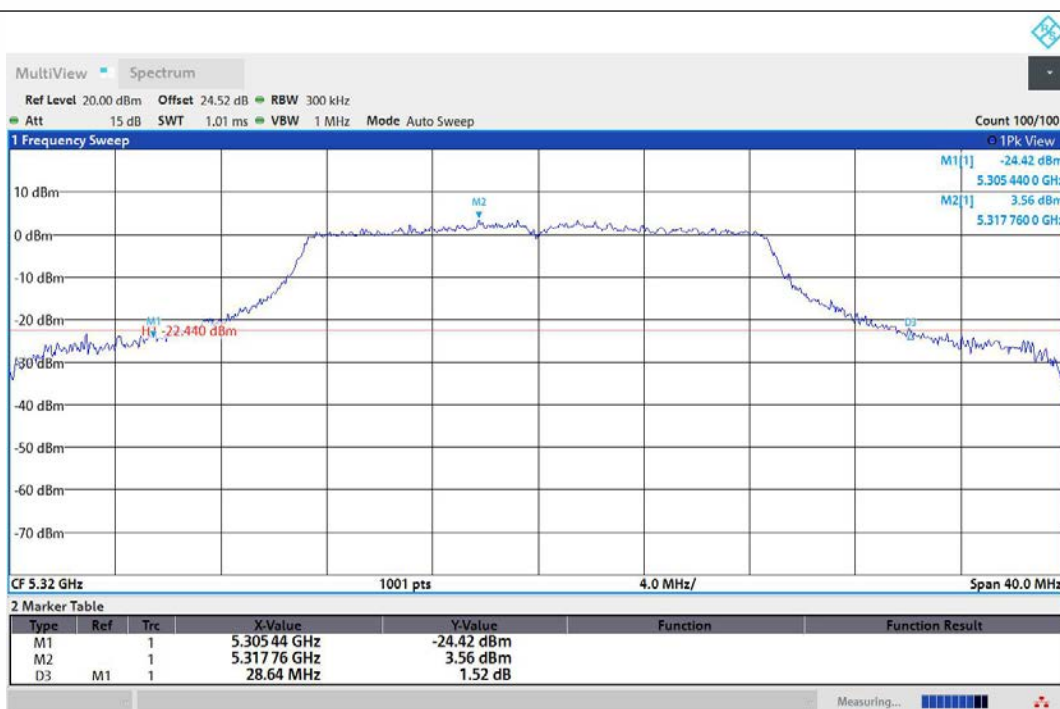
11AC20MIMO-Ant2-5260



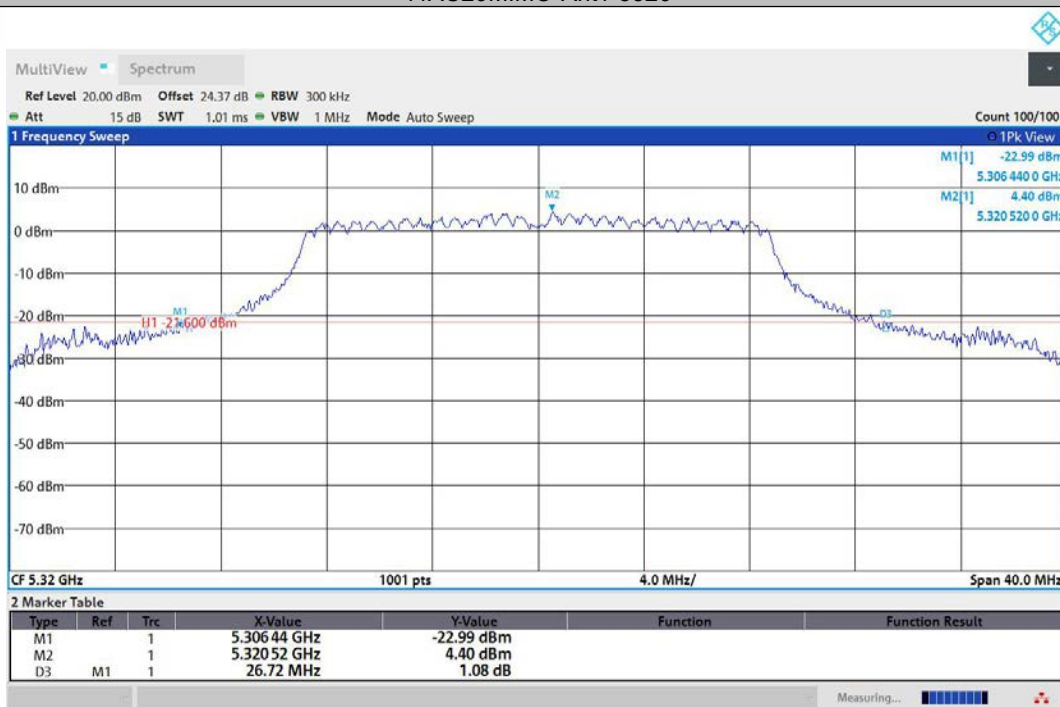
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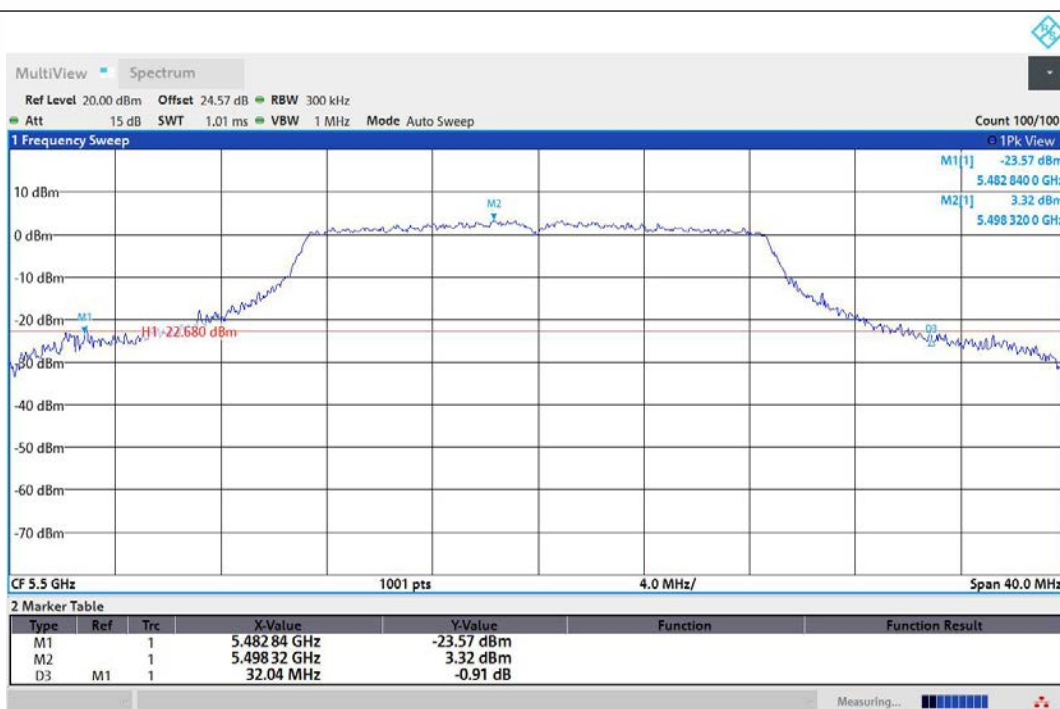
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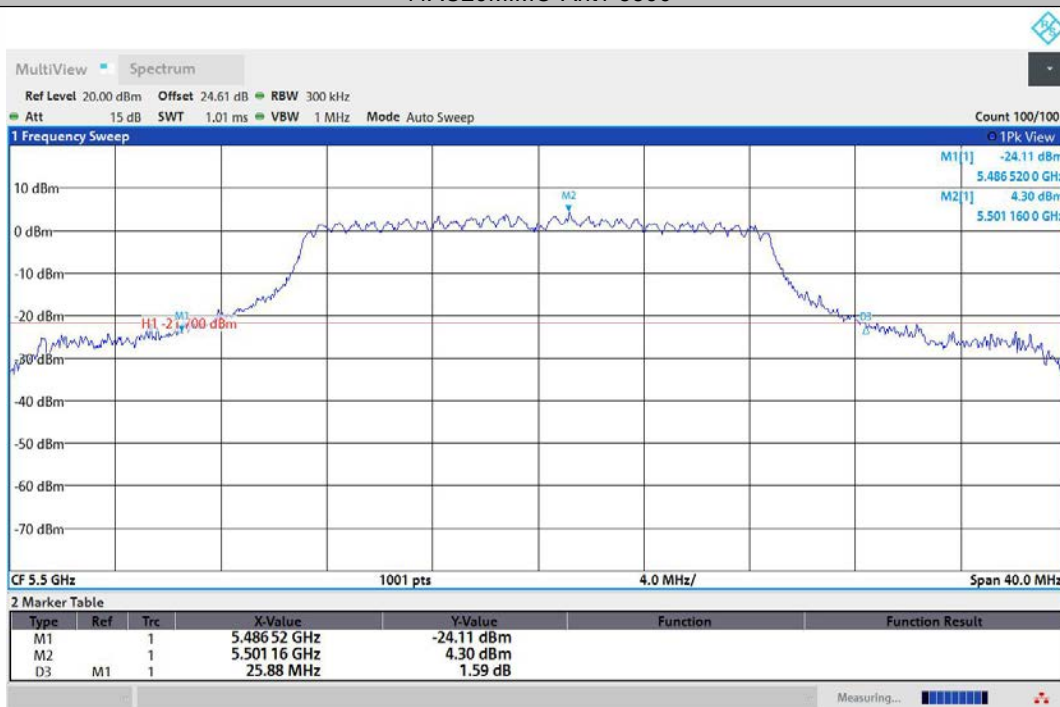
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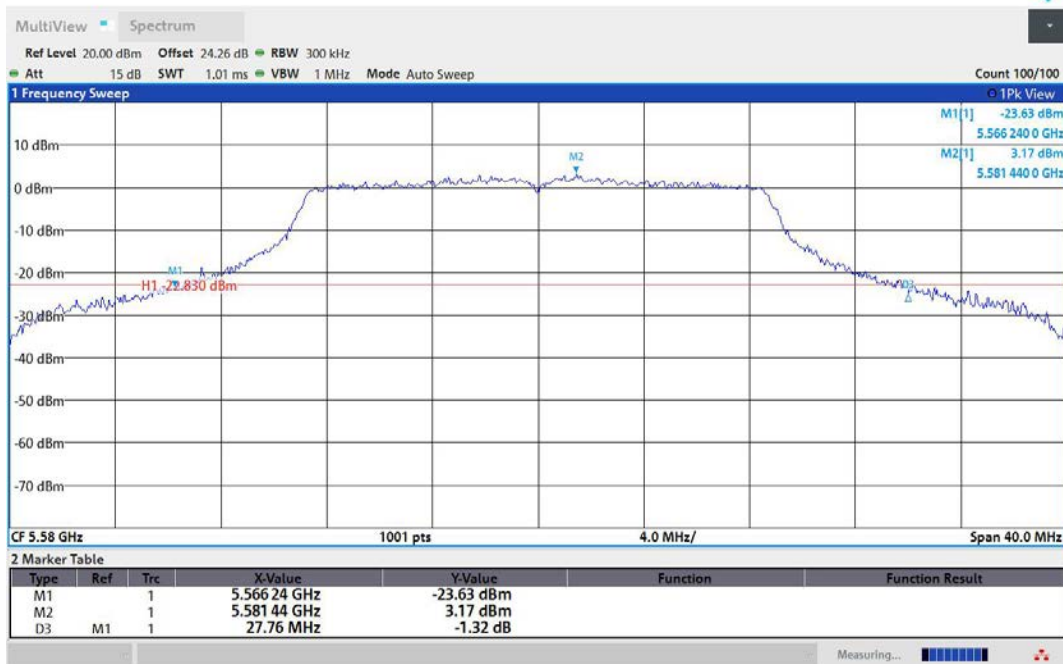
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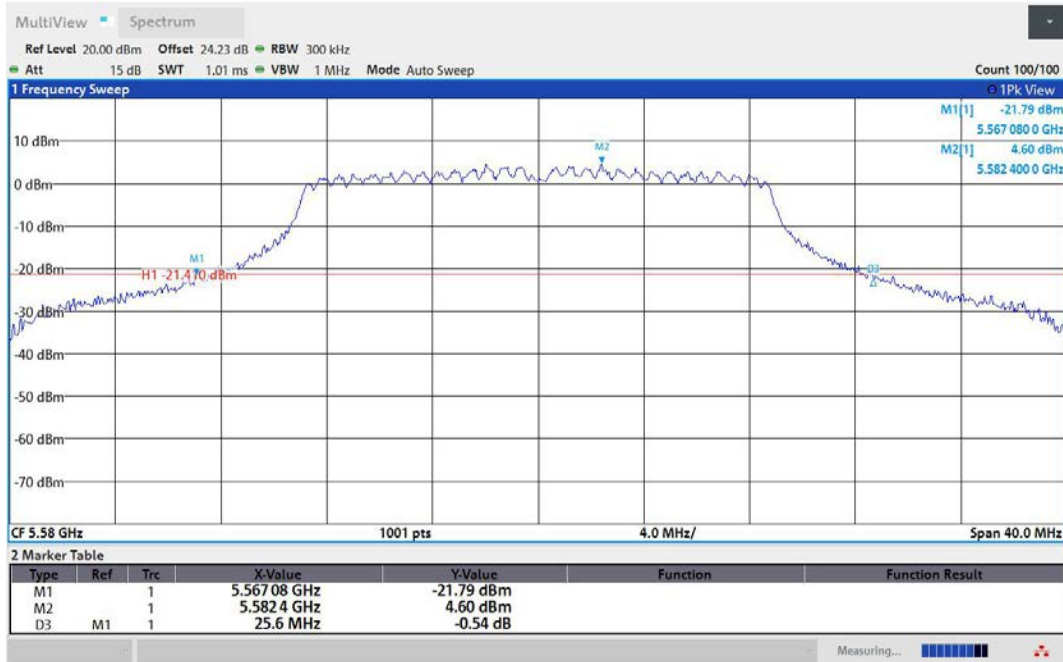
11AC20MIMO-Ant1-5500



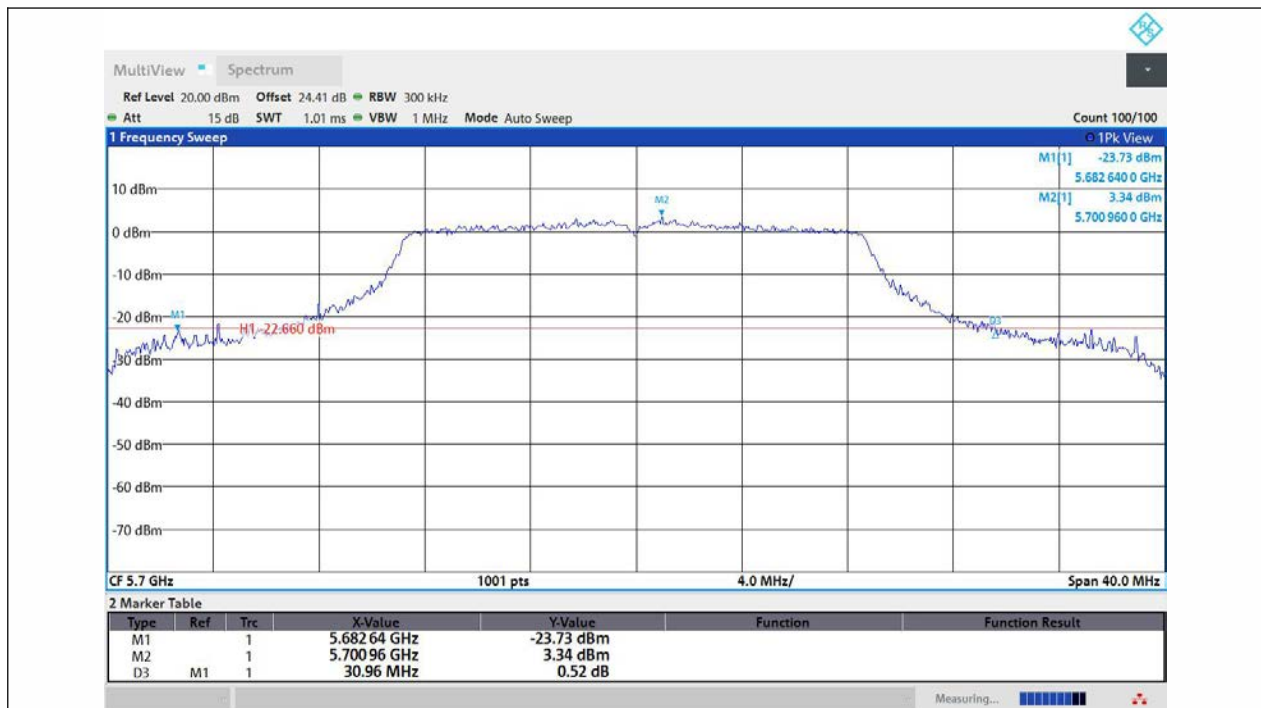
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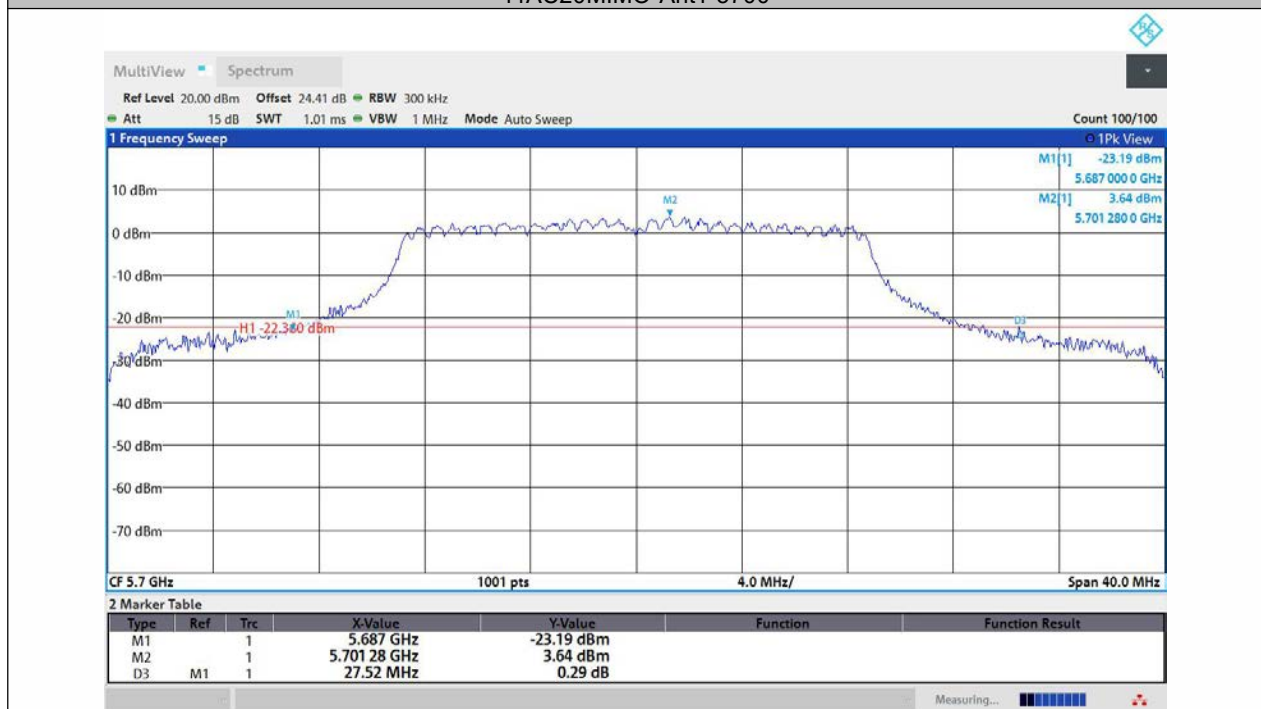
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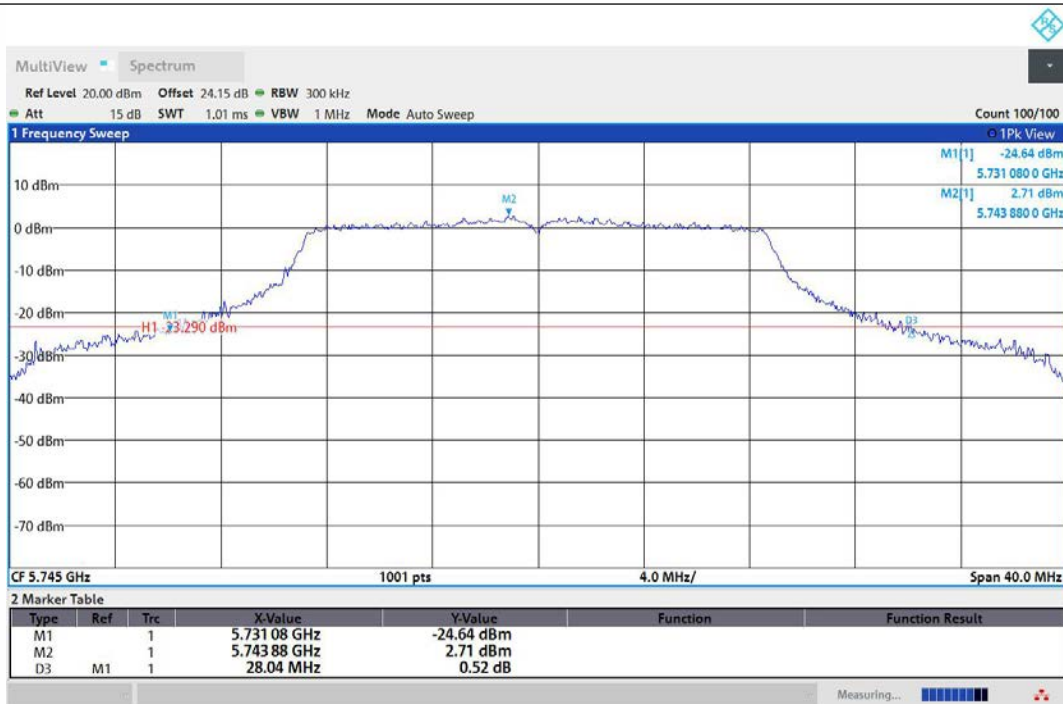
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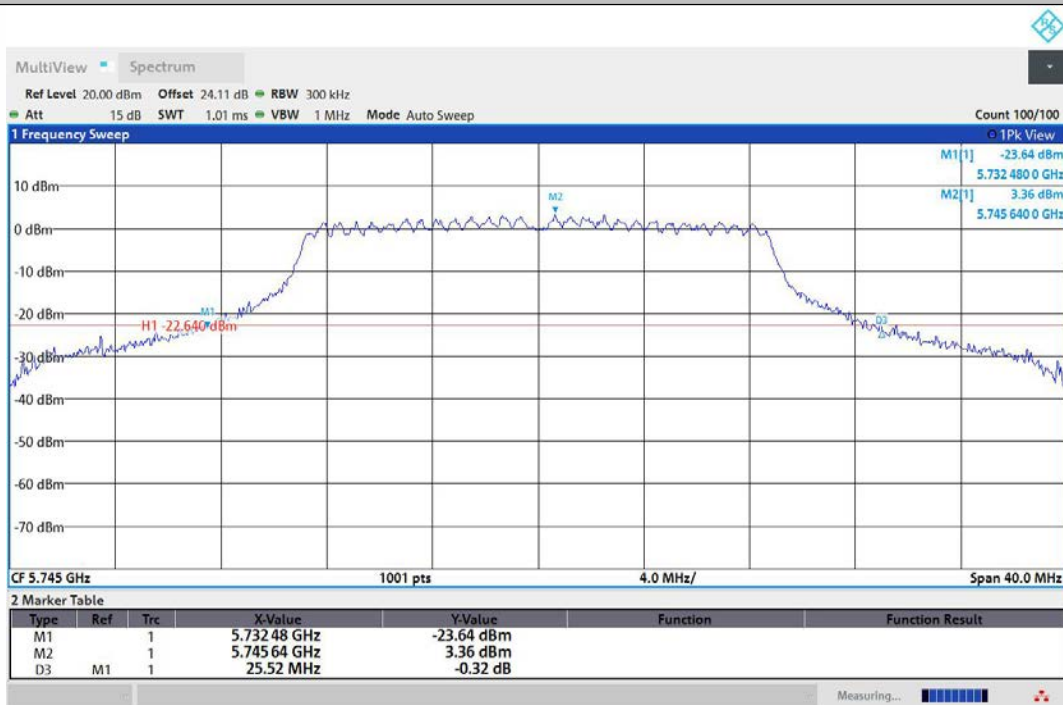
11AC20MIMO-Ant1-5700



11AC20MIMO-Ant2-5700



11AC20MIMO-Ant1-5745



11AC20MIMO-Ant2-5745