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ETSI EN 301 893 V2.2.1 (2024-11)

TEST REPORT

For

SHENZHEN TENDA TECHNOLOGY CO., LTD.

6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Tested Model: AX12 Pro

Report Type: Amended Report	Product Name: AX3000 Dual Band Gigabit Wi-Fi 6 Router
Report Number:	<u>RSZA251230001-01CM1</u>
Report Date:	<u>2026-04-22</u>
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REPORT REVISION

Version	Report Number	Release Date	Contents
R1V1	RSZA251230001-01C	2026-02-06	Original Report Invalidated
R1V2	RSZA251230001-01CM1	2026-04-22	1. Update note 2 on page 12

Note: The amended report (Report No.: RSZA251230001-01CM1) supersedes and replaces the previous issued report (Report No.: RSZA251230001-01C). Please discard or destroy the previous issued report and dispose of it accordingly.

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	SHENZHEN TENDA TECHNOLOGY CO., LTD.
Product Name:	AX3000 Dual Band Gigabit Wi-Fi 6 Router
Tested Model:	AX12 Pro
Power Supply:	DC 12V from adapter
RF Function:	5G Wi-Fi
Operating Band/Frequency:	Sub-band 1: 5150~5250 MHz Sub-band 2: 5250~5350 MHz
Maximum EIRP:	SISO Sub-band 1: 802.11a: 18.89 dBm Sub-band 2: 802.11a: 18.98 dBm MIMO: Sub-band 1: 802.11ac-VHT20: 18.42 dBm 802.11ac-VHT40: 18.08 dBm 802.11ac-VHT80: 18.75 dBm 802.11ax-HE20: 18.36 dBm 802.11ax-HE40: 18.60 dBm 802.11ax-HE80: 18.35 dBm Sub-band 2: 802.11ac-VHT20: 18.50 dBm 802.11ac-VHT40: 18.69 dBm 802.11ac-VHT80: 18.88 dBm 802.11ax-HE20: 18.71 dBm 802.11ax-HE40: 18.52 dBm 802.11ax-HE80: 18.64 dBm 802.11ac-VHT160: 18.47 dBm 802.11ax-HE160: 18.03 dBm Beamforming: Sub-band 1: 802.11ac-VHT20: 19.09 dBm 802.11ac-VHT40: 18.35 dBm 802.11ac-VHT80: 18.94 dBm 802.11ax-HE20: 18.64 dBm 802.11ax-HE40: 17.42 dBm 802.11ax-HE80: 18.84 dBm Sub-band 2: 802.11ac-VHT20: 19.37 dBm 802.11ac-VHT40: 18.91 dBm 802.11ac-VHT80: 19.27 dBm 802.11ax-HE20: 18.72 dBm 802.11ax-HE40: 17.42 dBm 802.11ax-HE80: 18.53 dBm 802.11ac-VHT160: 18.63 dBm 802.11ax-HE160: 18.35 dBm
Channel Number:	B1:7, B2:7
Channel Separation:	802.11a/n-HT20/ac-VHT20/ax-HE20: 20 MHz, 802.11ac-VHT40/n-HT40/ax-HE40: 40 MHz, 802.11ac-VHT80/ax-HE80: 80 MHz 802.11ac-VHT160/ax-HE160: 160 MHz
Modulation Type:	OFDM, OFDMA
★Maximum Antenna Gain:	Antenna Gain: 7.06 dBi Beamforming: 3.0 dB

*Adapter information**Model: BW0121201000WE**Input: 100-240V, 50/60Hz, 0.5A**Output: 12.0V, 1.0A 12.0W**Note: The maximum antenna gain was provided by the applicant.**All measurement and test data in this report was gathered from production sample serial number: RSZA251230001-1(Assigned by BACL (Kunshan). The EUT was received on 2025-12-30).***Objective**

This report is prepared for *SHENZHEN TENDA TECHNOLOGY CO., LTD.* in accordance with ETSI EN 301 893 V2.2.1 (2024-11), 5 GHz RLAN; Harmonised Standard for accsee to radio spectrum

The objective is to determine the compliance of EUT with ETSI EN 301 893 V2.2.1 (2024-11).

Test Methodology

All measurements contained in this report were conducted with ETSI EN 301 893 V2.2.1 (2024-11).

Measurement Uncertainty

Item	Uncertainty
RF Output Power with Power meter	0.5dB
Power Spectral Density, conducted	0.5dB
Unwanted Emissions, conducted	2.34dB
Radiated Spurious Emissions	5.44dB
Occupied Bandwidth	0.5kHz
Temperature	1.0°C
Humidity	5%
Time	5%
Supply voltages	0.4%

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the Building 2 & 6, No.248, Chenghu Road, Development Zone, Yushan, Kunshan, Suzhou, Jiangsu, China.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 5150~5250 MHz band, test channel list is as below:

For 802.11a/ ac-VHT20 /ax-HE20 bandwidth system, channel 36 and 48 was tested.

For 802.11ac-VHT40 / ax-HE40 bandwidth system, channel 38 and 46 was tested.

For 802.11ac-VHT80 / ax-HE80 bandwidth system, channel 42 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 5250~5350 MHz band, test channel list is as below:

For 802.11ac-VHT20/ ax-HE20 bandwidth system, channel 52 and 64 was tested.

For 802.11ac-VHT40 /ax-HE40 bandwidth system, channel 54 and 62 was tested.

For 802.11ac-VHT80 /ax-HE80bandwidth system, channel 58 was tested.

For 802.11ac-VHT160 / ax-HE160 bandwidth system, channel 51 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
51	5250	62	5310
52	5260	64	5320
54	5270	/	/
56	5280	/	/
58	5290	/	/
60	5300	/	/

The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power and PSD across all data rates, bandwidths and modulations.

Equipment Modifications

No modifications were made to the EUT.

EUT Exercise Software

RF test tool: engineering mode

The worst condition was performed under:

For band 1 & band 2:
MIMO

Mode	Data Rate	Frequency(MHz)	★ Power Level Setting	
			Chain 0	Chain 1
802.11a	6 Mbps	5180	20	14
		5240	20	16
		5260	20	16
		5320	20	16
802.11ac-VHT20	MCS0	5180	28	28
		5240	28	28
		5260	28	28
		5320	28	28
802.11ac-VHT40	MCS0	5190	28	28
		5230	28	28
		5270	28	28
		5310	28	28
802.11ac-VHT80	MCS0	5210	28	28
		5290	28	28
802.11ac-VHT160	MCS0	5250	28	28
802.11ax-HE20	MCS0	5180	28	28
		5240	28	28
		5260	28	28
		5320	28	28
802.11ax-HE40	MCS0	5190	28	28
		5230	28	28
		5270	28	28
		5310	28	28
802.11ax-HE80	MCS0	5210	28	28
		5290	30	30
802.11ax-VHT160	MCS0	5250	26	26

Note: The power level setting was declared by the applicant.

Beamforming

Mode	Data Rate	Frequency(MHz)	★ Power Level Setting	
			Chain 0	Chain 1
802.11a	6 Mbps	5180	26	20
		5240	26	22
		5260	26	22
		5320	26	22
802.11ac-VHT20	MCS0	5180	34	34
		5240	34	34
		5260	34	34
		5320	34	34
802.11ac-VHT40	MCS0	5190	34	34
		5230	34	34
		5270	34	34
		5310	34	34
802.11ac-VHT80	MCS0	5210	34	34
		5290	34	34
802.11ac-VHT160	MCS0	5250	34	34
802.11ax-HE20	MCS0	5180	34	34
		5240	34	34
		5260	34	34
		5320	34	34
802.11ax-HE40	MCS0	5190	34	34
		5230	34	34
		5270	34	34
		5310	34	34
802.11ax-HE80	MCS0	5210	34	34
		5290	36	36
802.11ax-VHT160	MCS0	5250	32	32

Note: The power level setting was declared by the applicant.

Support Equipment List and Details

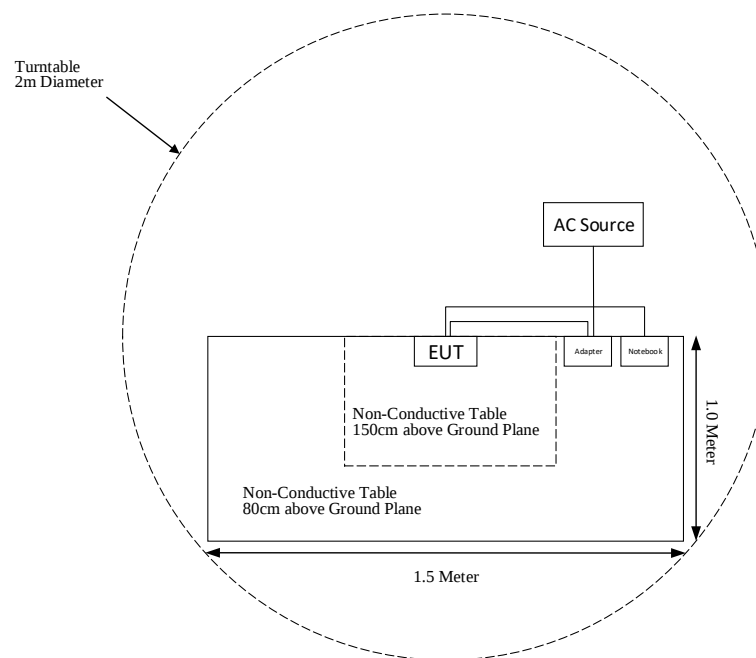
Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	Y700P	PF2B7PL5

External I/O Cable

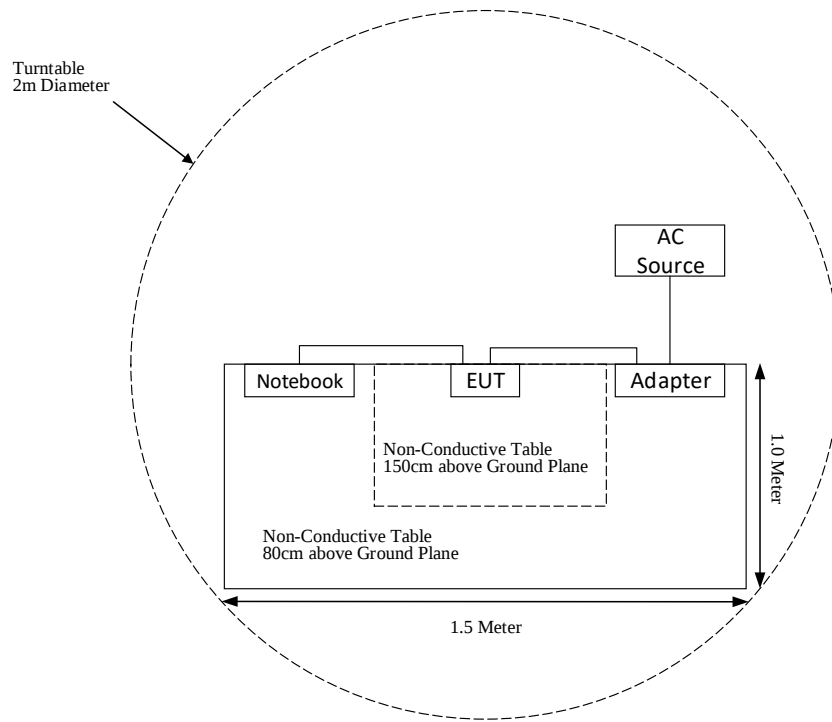
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	EUT	Adapter
Power Cable 2	1.0	Adapter	AC Source
Power Cable 3	1.0	EUT	Notebook

Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz & Above 1 GHz):



For Radiated Emissions (Above 1 GHz):



SUMMARY OF TEST RESULTS

ETSI EN 301 893 V2.2.1 (2024-11)	Description of Test	Test Result
Clause 4.2.1/B.2.2.1	Nominal Centre frequencies	Compliant
Clause 4.2.2/ B.2.2.2	Nominal Channel Bandwidth and Occupied Channel Bandwidth	Compliant
Clause 4.2.3/ B.2.2.3	RF output power	Compliant
Clause 4.2.3/ B.2.2.3	Transmit Power Control (TPC)	Not Applicable (See Note1)
Clause 4.2.3/ B.2.2.3	Power Spectral Density (PSD)	Compliant
Clause 4.2.4.1/ B.2.2.4.1	Transmitter unwanted emissions outside the transmitter's operating bands	Compliant
Clause 4.2.4.2/ B.2.2.4.2	Transmitter unwanted emissions within the transmitter's operating bands	Compliant
Clause 4.2.5/ B.2.2.5	Receiver spurious emissions	Compliant
Clause 4.2.6	Dynamic Frequency Selection (DFS)	Compliant (See Note2)
Clause 4.2.7/ B.2.2.7	Adaptivity (Channel Access Mechanism)	Compliant
Clause 4.2.8/ B.2.2.8	Receiver Blocking	Compliant
Clause 4.2.9/ B.2.2.9	Adjacent channel selectivity	Compliant
Clause 4.2.10/ B.2.2.10	User Access Restrictions (UAR)	Compliant (See Note3)
B.2.2.11	Country determination capability	Not Applicable (See Note 4)

Note:

1. The EUT doesn't support the TPC function.
2. Test data refer to report No.: RSZA251230001-01DM1.
3. Please refer to the user manual.
4. The EIRP $\leq$ 25 mW.
5. Manufacturer provided a temporary antenna connectors for test.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2025-04-09	2026-04-08
Aglient	Signal Generator	N5183A	MY51040755	2025-04-08	2026-04-07
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Sunol Sciences	Hybrid Antenna	JB3	A090314-2	2024-10-29	2027-10-28
Sonoma Instrument	Pre-amplifier	310N	171205	2025-04-09	2026-04-08
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-7	007	2025-04-08	2026-04-07
Radiated Emission Test (Chamber #2)					
Aglient	Signal Generator	N5183A	MY51040755	2025-04-08	2026-04-07
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2024-11-03	2027-11-02
ETS-LINDGREN	Horn Antenna	3115	6229	2025-01-06	2026-01-05
ETS-LINDGREN	Horn Antenna	3116	84159	2024-12-08	2025-12-07
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
SELECTOR	Amplifier	EM18G40G	060726	2025-04-09	2026-04-08
A.H.Systems,inc	Pre-amplifier	PAM-0118P	512	2025-04-09	2026-04-08
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
RF Conducted Test					
Tonscend Corporation	RF Control Unit	JS0806-2	JS0806001	2025-04-09	2026-04-08
Tonscend Corporation	RF Test System	JS1120-3	N/A	N/A	N/A
Rohde & Schwarz	SMBV100A Vector Signal Generator	SMBV100A	261558	2025-04-08	2026-04-07
Rohde & Schwarz	SMB 100A Signal Generator	SMB100A	110390	2025-04-09	2026-04-08
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2025-04-09	2026-04-08
BACL	Temperature & Humidity Chamber	BTH-150	30023	2025-04-09	2026-04-08
R & S	Wideband Radio Communication Tester	CMW500	104478	2025-04-09	2026-04-08
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each Time	N/A

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

ETSI EN 301 893 V2.2.1 (2024-11) Clause 4.2.1/B.2.2.1 - NOMINAL CENTRE FREQUENCIES

Definition

The *Nominal Centre Frequency* is the centre of the *Channel*.

Limits

The nominal centre frequencies (f_c) for channels whose nominal channel bandwidth falls partly or completely within sub-band 1, sub-band 2 or sub-band 3 shall be defined by equation (1).

$$f_c = 5160 + (g \times 20 \text{ MHz}) \pm f_{c_offset}, \text{ with } g \text{ integer and } 0 \leq g \leq 9 \text{ or } 16 \leq g \leq 28. \quad (1)$$

Operation on the channel with $g = 28$ is only permitted where operation in sub-band 4 by RLAN devices is allowed by national frequency usage conditions.

An offset (f_{c_offset}) is permitted for each nominal centre frequency. The offset may be different for each nominal centre frequency, but it shall not be greater than 200 kHz. Where an offset is applied, the nominal centre frequencies used by the equipment shall be noted in the test report (see clause 5.4.1, item a)).

The nominal centre frequency for any given channel shall be maintained within the range of $f_c \pm 0,002 \%$.

Equipment may have simultaneous transmissions on more than one channel.

BAND 4

The nominal centre frequencies (f_c) for channels whose nominal channel bandwidth falls partly or completely within sub-band 4 shall be defined by equation (B.1).

$$f_c = f_g \pm f_{c_offset}, \text{ with } g \text{ an integer index and } 28 \leq g \leq 33 \quad (B.1)$$

Frequency values for f_g are given in table B.2.

Table B.2: Centre frequencies in sub-band 4

Channel index g	Centre frequency f_g (MHz)
28 (see note)	5 720
29	5 745
30	5 765
31	5 785
32	5 805
33	5 825
NOTE: Channel 28 is a channel defined in clause 4.2.1 for sub-band 3	

Operation on the channel with $g = 28$ is only permitted where operation in both sub-band 3 and sub-band 4 by RLAN devices is allowed by national frequency usage conditions.

An offset (fc_offset) is permitted for each nominal centre frequency. The offset may be different for each nominal centre frequency, but it shall not be greater than 200 kHz. Where an offset is applied, the nominal centre frequencies used by the equipment shall be noted in the test report (see clause B.3.4.1, item a)).

The nominal centre frequency for any given channel shall be maintained within the range of $fc \pm 0,002 \%$.

Equipment may have simultaneous transmissions on more than one channel.

Test Procedure

Test conditions

These measurements shall be performed under both normal and extreme test conditions (see clause 5.1.2 and clause 5.1.3).

The UUT shall be configured to operate at normal RF output power. In addition, the UUT shall be configured to operate on a single channel.

For a UUT with antenna connector(s) and using dedicated external antenna(s), or for a UUT with integral antenna(s) but with one or more temporary antenna connectors provided, conducted measurements shall be used.

In case of conducted measurements on smart antenna systems (devices with multiple transmit chains) the measurements shall be performed on only one of the active transmit chains.

For a UUT with integral antenna(s) and without temporary antenna connectors, radiated measurements shall be used.

In the case of equipment intended for use with an integral antenna and where no external (temporary) antenna connectors are provided, a test fixture as described in clause E.4 may be used to perform relative measurements at the lower and upper extreme temperatures.

Test method

Conducted measurement

1. Equipment operating without modulation

This test method requires that the UUT can be operated in an unmodulated test mode.

The UUT shall be connected to a suitable frequency measuring device (e.g. a frequency counter or a spectrum analyser) and operated in an unmodulated mode.

The result shall be recorded.

2. Equipment operating with modulation

This method is an alternative to the method in clause 5.4.2.2.1.1 in case the UUT cannot be operated in an unmodulated mode.

The UUT shall be connected to a spectrum analyser.

The trace mode Max Hold shall be selected and the centre frequency shall be adjusted to that of the channel at which the transmission to be investigated occurs.

The peak value of the power envelope shall be measured and noted. The frequency span shall be reduced and the marker moved in a positive frequency increment until the upper, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f1.

The marker shall then be moved in a negative frequency increment until the lower, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f2.

The nominal centre frequency is calculated as $(f1 + f2) / 2$.

Radiated measurement

The test setup as described in annex E shall be used with a spectrum analyser attached to the test antenna.

The test procedure is as described under clause 5.4.2.2.1/ B.3.4.2.

Test Data: See Appendix

ETSI EN 301 893 V2.2.1 (2024-11) Clause 4.2.2/ B.2.2.2 - NOMINAL CHANNEL BANDWIDTH AND OCCUPIED CHANNEL BANDWIDTH

Definition

The *Nominal Channel Bandwidth* is the widest band of frequencies, inclusive of guard bands, assigned to a channel.

The occupied bandwidth is the bandwidth within the nominal channel bandwidth containing 99 % of the power of the signal.

When RLAN devices have simultaneous transmissions in adjacent channels, these transmissions are considered as one signal with a total bandwidth (N) of n times the nominal channel bandwidth of an individual channel where n is the number of adjacent channels. When equipment has simultaneous transmissions in non-adjacent channels, each power envelope is considered separately.

Limits

The *Nominal Channel Bandwidth* for a single *Channel* shall be 20 MHz.

Alternatively, equipment may implement a lower nominal channel bandwidth with a minimum of 5 MHz, providing it still conforms to the limits defined for nominal centre frequencies (20 MHz raster).

For channels whose nominal channel bandwidth falls partly or completely within sub-band 2 or sub-band 3, the occupied bandwidth shall not be less than 80 % of the nominal channel bandwidth. During a Channel Occupancy Time (COT), equipment may operate temporarily with an occupied bandwidth of less than 80 % of its nominal channel bandwidth. The occupied bandwidth shall not be less than 2 MHz.

For channels whose nominal channel bandwidth falls completely outside sub-band 2 and sub-band 3, the occupied bandwidth shall be equal or less than the nominal channel bandwidth.

In case of smart antenna systems (devices with multiple transmit chains) each of the transmit chains shall meet the requirements specified in this clause.

The occupied bandwidth might change with time/payload.

Test Procedure

Test conditions

These measurements shall be performed only under normal operating conditions (see clause 5.1.2).

The measurements shall be performed using normal operation of the equipment with the test signal applied (see clause 5.3.1.1).

The UUT shall be configured to operate at a typical RF power output level used for normal operation. For equipment capable of multi-channel operation (see clause 4.2.7.3.1.3 or clause 4.2.7.3.2.3) using adjacent channels, the equipment shall be configured to have transmissions in all the channels. These transmissions may be considered as one signal with a total bandwidth of n times the nominal channel bandwidth of an individual channel where n is the number of adjacent channels.

When equipment has simultaneous transmissions in non-adjacent channels, each power envelope shall be considered separately.

For a UUT with antenna connector(s) and using dedicated external antenna(s), or for a UUT with integral antenna(s) but with one or more temporary antenna connectors provided, conducted measurements shall be used.

In case of conducted measurements on smart antenna systems (devices with multiple transmit chains) measurements need only to be performed on one of the active transmit chains (antenna outputs).

For a UUT with integral antenna(s) and without temporary antenna connectors, radiated measurements shall be used.

In case of conducted measurements on smart antenna systems (devices with multiple transmit chains) measurements need only to be performed on one of the active transmit chains (antenna outputs).

For a UUT with integral antenna(s) and without a temporary antenna connector(s), radiated measurements shall be used.

Test method

Conducted measurement

The measurement procedure shall be as follows:

Step 1:

Connect the UUT to the spectrum analyser and use the following settings:

Centre Frequency: The centre frequency of the channel under test

Resolution BW: 100 kHz

Video BW: 300 kHz

Frequency Span: 2 x Nominal Bandwidth (e.g. 40 MHz for a 20 MHz channel)

Sweep time: > 1 s; for larger Nominal Bandwidths, the sweep time may be increased until a value where the sweep time has no impact on the RMS value of the signal

Detector Mode: RMS

Trace Mode: Max Hold

Step 2:

Wait for the trace to stabilize.

Step 3:

Ensure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

Use the 99 % bandwidth function of the spectrum analyser to measure the occupied bandwidth of the UUT. This value shall be recorded.

The measurement described in step 1 to step 3 shall be repeated in case of simultaneous transmissions in non-adjacent channels.

Radiated measurement

The test set up as described in annex B and the applicable measurement procedures described in annex C shall be used. The test procedure is as described under clause 5.4.3.2.1/ B.3.4.3.

Test Data: See Appendix

ETSI EN 301 893 V2.2.1 (2024-11) Clause 4.2.3/ B.2.2.3 - RF OUTPUT POWER, TRANSMIT POWER CONTROL (TPC) AND POWER DENSITY

Definition

RF Output Power:

The *RF Output Power* is the mean equivalent isotropically radiated power (e.i.r.p.) during a transmission burst.

Transmit Power Control (TPC):

Transmit Power Control (TPC) is a mechanism to ensure a mitigation factor of at least 3 dB on the aggregate power from a large number of devices, which implies a TPC range of at least 6 dB. The RF output power limit and the PSD limit might depend on whether an RLAN device operates with or without TPC.

Power Spectral Density (PSD)

The Power Spectral Density (PSD) is the mean EIRP density during a transmission burst.

Limits

Sub-band 1 & Sub-band 2 & Sub-band 3

The maximum RF output power $P_{H, sb}$ and the PSD in sub-band sb shall not exceed the limits given in table 2 for that sub-band. If the device uses TPC, $P_{H, sb}$ is the RF output power in sub-band sb at the highest power level of the TPC range in sub-band sb. In case of multiple (adjacent or non-adjacent) channels, the limits for the maximum RF output power and the PSD apply per sub-band.

NOTE: According to ECC/DEC/(04)08 [i.6] as well as Commission Implementing Decision (EU) 2022/179 [i.7] amended by Commission Implementing Decision (EU) 2022/2307 [i.8], for certain installations, the RF output power limit and the PSD limit might be lower than given in table 2.

Table 2: RF output power and PSD limits

Sub-band	RF output power limit (dBm)		PSD limit (dBm/MHz)	
	with TPC (see note 3)	without TPC	with TPC	without TPC
Sub-band 1	23	23	10	10
Sub-band 2	23	20	10	7
Sub-band 3 (see note 2)	30 (see note 1)	27 (see note 1)	17 (see note 1)	14 (see note 1)
NOTE 1: Secondary devices without radar detection operating in sub-band 3 shall conform to the limits for sub-band 2.				
NOTE 2: National frequency usage conditions may allow devices to operate in sub-band 3 on a channel with a nominal channel bandwidth that extends into sub-band 4.				
NOTE 3: If TPC is used, the RF output power in sub-band sb at the lowest power level of the TPC range in sub-band sb ($P_{L, sb}$) shall be at least 6 dB less than the applicable RF output power limit with TPC.				

Sub-band 4

General requirements

The limits in clause B.2.2.3.2.2 are applicable to the device as a whole and in any possible configuration. This means that the antenna gain of the integral or dedicated antenna shall be taken into account as well as the additional (beamforming) gain in case of smart antenna systems (devices with multiple transmit chains).

Limits for RF output power and PSD

The maximum RF output power $P_{H,4}$ and the PSD in sub-band 4 shall not exceed the limits given in table B.3 for that sub-band. If the device uses TPC, $P_{H,4}$ is the RF output power in sub-band 4 at the highest power level of the TPC range in sub-band 4. In case of multiple (adjacent or non-adjacent) channels, the limits for the maximum RF output power and the PSD apply per sub-band.

Table B.3: RF output power and PSD limits

Sub-band	RF output power limit (dBm)		PSD limit (dBm/MHz)	
	with TPC (see note)	without TPC	with TPC	without TPC
Sub-band 4	23	20	10	7
NOTE: If TPC is used, the RF output power in sub-band 4 at the lowest power level of the TPC range in sub-band 4 ($P_{L,4}$) shall be at least 6 dB less than the applicable RF output power limit with TPC.				

Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) Clause 5.4.4/ B.3.4.4

Test Data: See Appendix

ETSI EN 301 893 V2.2.1 (2024-11) Clause 4.2.4.1/ B.2.2.4.1 - TRANSMITTER UNWANTED EMISSIONS OUTSIDE THE 5 GHZ RLAN BANDS

Definition

Transmitter unwanted emissions outside the transmitter's operating bands are radio frequency emissions outside the subbands of the 5 GHz RLAN band.

Limits

The level of transmitter unwanted emissions outside the transmitter's operating bands shall not exceed the limits given in table 3.

In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or emissions radiated by integral antenna equipment (without antenna connectors), these limits are ERP for emissions up to 1 GHz and EIRP for emissions above 1 GHz.

Table 3: Transmitter unwanted emission limits outside the transmitter's operating bands

Frequency range	Maximum power	Measurement bandwidth
$30 \text{ MHz} \leq f < 87,5 \text{ MHz}$	-36 dBm	100 kHz
$87,5 \text{ MHz} \leq f \leq 118 \text{ MHz}$	-54 dBm	100 kHz
$118 \text{ MHz} < f < 174 \text{ MHz}$	-36 dBm	100 kHz
$174 \text{ MHz} \leq f \leq 230 \text{ MHz}$	-54 dBm	100 kHz
$230 \text{ MHz} < f < 470 \text{ MHz}$	-36 dBm	100 kHz
$470 \text{ MHz} \leq f \leq 694 \text{ MHz}$	-54 dBm	100 kHz
$694 \text{ MHz} < f \leq 1 \text{ GHz}$	-36 dBm	100 kHz
$1 \text{ GHz} < f \leq 26 \text{ GHz}$	-30 dBm	1 MHz
NOTE: Information in this table is based on ERC Recommendation 74-01 [i.13], Annex 2, Table 6.		

Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) Clause 5.4.5/ B.3.4.5

Test Data: See Appendix

ETSI EN 301 893 V2.2.1 (2024-11) Clause 4.2.4.2/ B.2.2.4.2 - TRANSMITTER UNWANTED EMISSIONS WITHIN THE 5 GHZ RLAN BANDS

Definition

Transmitter unwanted emissions within the transmitter's operating bands are radio frequency emissions within the sub-bands of the 5 GHz RLAN band, excluding emissions within the nominal channel bandwidth of channels used for transmission.

Limits

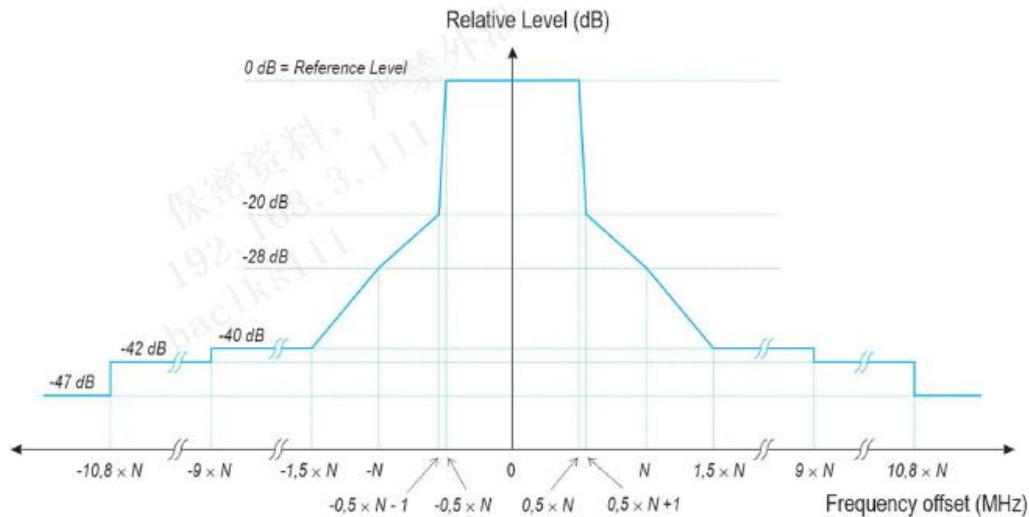


Figure 1: Transmit spectral power mask

The mean PSD of the transmitter unwanted emissions within the transmitter's operating bands shall not exceed the limits of the mask provided in figure 1 or an absolute level of -30 dBm/MHz, whichever is greater. The limits in figure 1 are relative to the maximum PSD transmitted by the RLAN device when measured with a reference bandwidth of 1 MHz.

The mask is only applicable within the band(s) of operation. Beyond the band edges, the requirements for transmitter unwanted emissions outside the transmitter's operating bands (see clause 4.2.4.1) apply. In case of smart antenna systems (devices with multiple transmit chains) each of the transmit chains shall meet the limits for transmitter unwanted emissions within the transmitter's operating bands.

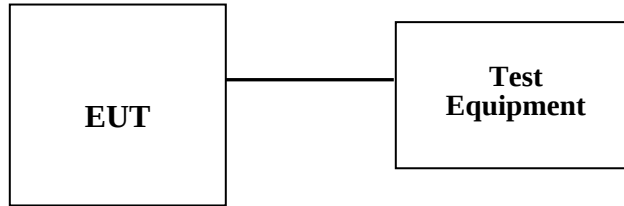
In case of multi-channel operation in adjacent or non-adjacent channels, clause 4.2.4.2.2.2 and clause 4.2.4.2.2.3 describe how the overall transmit spectral power mask to be applied shall be constructed. The transmitter unwanted emissions within the transmitter's operating bands shall not exceed the limits of this overall transmit spectral power mask or an absolute level of -30 dBm/MHz based on ERC Recommendation 74-01 [i.13], whichever is greater.

The channel edge masks for multi-channel operation in adjacent and/or non-adjacent channels which are supported by the equipment shall be noted in the test report (see clause 5.4.1).

Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) Clause5.4.6/ B.3.4.6

Test Set up Block diagram



Test Data: See Appendix

ETSI EN 301 893 V2.2.1 (2024-11) Clause 4.2.5/ B.2.2.5– RECEIVER SPURIOUS EMISSIONS

Definition

Receiver spurious emissions are emissions at any frequency when the equipment is in receive mode.

Limits

The receiver spurious emissions shall not exceed the limits given in table 4.

In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or emissions radiated by integral antenna equipment (without antenna connectors), these limits are ERP for emissions up to 1 GHz and EIRP for emissions above 1 GHz.

Table 4: Spurious radiated emission limits

Frequency range	Maximum power	Measurement bandwidth
$30 \text{ MHz} \leq f \leq 1 \text{ GHz}$	-57 dBm	100 kHz
$1 \text{ GHz} < f \leq 26 \text{ GHz}$	-47 dBm	1 MHz
NOTE: Information in this table is based on ERC Recommendation 74-01 [i.13], Annex 2, Table 6.		

Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) Clause 5.4.7/ B.3.4.7

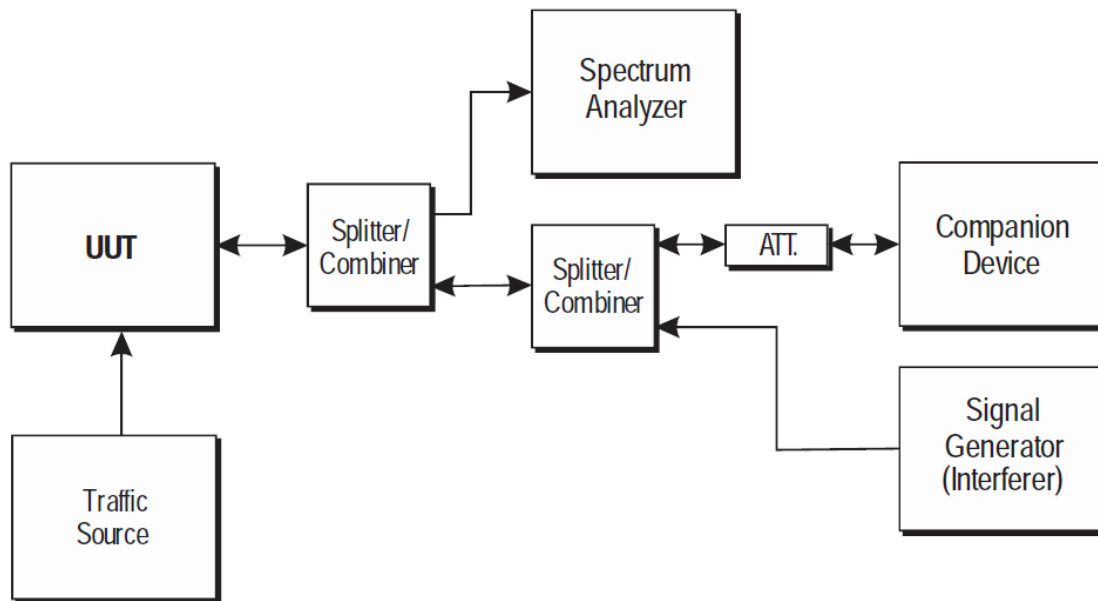
Test Data: See Appendix

ETSI EN 301 893 V2.2.1 (2024-11) Clause 4.2.7/ B.2.2.7 – ADAPTIVITY (CHANNEL ACCESS MECHANISM)

Applicable Standard

LBE implements a Listen Before Talk (LBT) based channel access mechanism to detect the presence of other transmissions on an operating channel.

Measurement Procedure



Step 1:

- The UUT shall connect to a companion device during the test. The signal generator, the spectrum analyser, the UUT, the traffic source and the companion device shall be connected using a setup equivalent to the example given by figure 19 although the interference source shall be switched off at this point in time. The spectrum analyser is used to monitor the transmissions of the UUT in response to the interference signal.

- The received signal level (wanted signal from the companion device) at the UUT shall be sufficient to maintain a reliable link for the duration of the test. A typical value for the received signal level which can be used in most cases is -50 dBm/MHz.

- The analyser shall be set as follows:

- RBW: $\geq$ Occupied Bandwidth (if the analyser does not support this setting, the highest available setting shall be used)
- VBW: $3 \times$ RBW (if the analyser does not support this setting, the highest available setting shall be used)
- Detector Mode: RMS
- Centre Frequency: nominal centre frequency of the channel being investigated

- Span: 0 Hz
- Sweep time: $> 2 \times$ Channel Occupancy Time
- Trace Mode: Clear/Write
- Trigger Mode: Video or RF/IF power

Step 2:

- The traffic source shall be configured so that it exceeds the UUT's theoretical radio performance. The traffic source shall fill the UUT's buffers to a level causing the UUT to always have transmissions queued (full buffer condition) towards the companion device.
- To avoid adverse effects on the measurement results, a unidirectional traffic source should be used. An example of such a unidirectional traffic source not triggering reverse traffic on higher layer protocols is UDP.

5.4.9.3.2.2 Procedure to verify the capability to detect other RLAN transmissions on the Operating Channel when operating on a single channel.

Step 1: Initialization

- See clause 5.4.9.3.2.1, step 1.

Step 2: Setting up the traffic source

- See clause 5.4.9.3.2.1, step 2.

Step 3: Setting up the communications link

- The UUT shall be configured to operate on a single Operating Channel.

Step 4: Adding the interference signal.

- One of the three interference signals as defined in clause E.7 shall be injected on the current operating channel of the UUT. The bandwidth of this signal shall be such that it covers the current operating channel. The level of this interference signal measured at the interface between the UUT and its antenna assembly shall be equal to the applicable Energy Detection Threshold (EDT) defined in clause 4.2.7.3.2.5.

Step 5: Verification of reaction to the interference signal.

- The spectrum analyser shall be used to monitor the transmissions of the UUT on the selected operating channel after the interference signal was injected. This may require the spectrum analyser sweep to be triggered by the start of the interfering signal.
- Using the procedure defined in clause 5.4.9.3.3, it shall be verified that:

i) The UUT stops transmissions on the current Operating Channel.

The UUT is expected to stop transmissions within a period equal to the maximum COT that corresponds to the priority class being tested (see table 6 and table 7). The UUT is allowed to have Short Control Signalling

(SCS) transmissions on the current operating channel (see ii) and iii)).

ii) Apart from SCS transmissions, there are no subsequent transmissions while the interfering signal is present.

iii) The SCS transmissions conform to the limits defined in clause 4.2.7.3.3.

The verification of the SCS transmissions may require the analyser settings to be changed (e.g. sweep time).

- To verify that the UUT is not resuming normal transmissions as long as the interference signal is present, the monitoring time may need to be 60 s or more, in which case a segmented measurement may need to be performed in order to achieve the required resolution.

- Once the test is completed and the interference signal is removed, the UUT may start transmissions again on this channel; however this is not a requirement and therefore does not require testing.

Step 6:

- Step 4 and step 5 shall be repeated for each of the interference signals defined in clause E.7.

Test Data: See Appendix

ETSI EN 301 893 V2.2.1 (2024-11) Clause 4.2.8/ B.2.2.8 – RECEIVER BLOCKING

Definition

Receiver blocking is a measure of the capability of the equipment to receive a wanted signal on its usable channels without exceeding a given degradation due to the presence of an unwanted input signal (blocking signal) on frequencies other than those of the operating bands.

Performance criteria

For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.

Limits

While maintaining the minimum performance criteria as defined in clause 4.2.8.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined in table 8.

Table 8: Receiver blocking parameters

Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power		Type of blocking signal
		Primary device or secondary device with radar detection (see note 2 in table D.2) (dBm)	Secondary device without radar detection (see note 2 in table D.2) (dBm)	
$P_{\min} + 6 \text{ dB}$	5 100	-53	-59	Continuous wave
$P_{\min} + 6 \text{ dB}$	4 900 5 000 5 975	-47	-53	Continuous wave
NOTE: $P_{\min}$ is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.2.8.3 in the absence of any blocking signal.				

Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.10/B.3.4.10.

Test Setup Block diagram

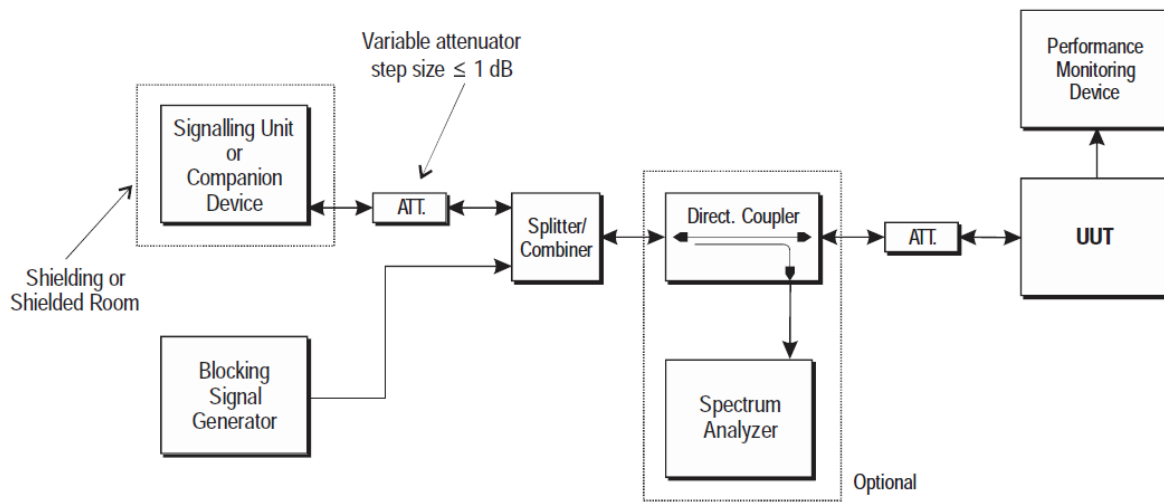


Figure 18: Test Set-up for receiver blocking

Test Data: See Appendix

ETSI EN 301 893 V2.2.1 (2024-11) Clause 4.2.9/ B.2.2.9 –ADJACENT CHANNEL SELECTIVITY

Definition

Adjacent channel selectivity is a measure of the capability of the equipment to receive a wanted signal on its usable channels without exceeding a given degradation due to the presence of an interfering signal in an adjacent channel.

Performance criteria

For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.

Limits

The limits defined in this clause apply when the equipment receives the wanted signal on a single channel and the occupied bandwidth of the interfering signal falls completely within a channel adjacent to this channel. Both channels have a nominal channel bandwidth as defined in clause 4.2.2.

While maintaining the minimum performance criteria as defined in clause 4.2.9.3, the adjacent channel interferer level shall be equal to or greater than the limit given in table 9 corresponding to a frequency offset within the range specified in table 9.

Table 9: Adjacent channel selectivity parameters

Wanted signal mean power from companion device (dBm)	Interferer signal frequency offset range (MHz)	Interferer signal power (dBm) (see note 2)	Type of interferer signal
$P_{min} + 10$ dB	$20 \pm 0,2$	$P_{min} + 26$ dB	Same as the wanted signal with an equivalent occupied bandwidth
NOTE 1: P_{min} is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.2.9.3 in the absence of any interfering signal.			
NOTE 2: The level specified for the interferer signal applies at the lowest data rate.			

Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.11/ B.3.4.11.

Test Data: See Appendix

ETSI EN 301 893 V2.2.1 (2024-11) Clause 4.2.10/ B.2.2.10 –USER ACCESS RESTRICTIONS(UAR)

Definition

As certain parameters are deemed to be critical in the mitigation of interference to other radio services, these parameters are subject to User Access Restrictions (UAR).

UAR are intended to ensure that the defined value or range of values, settings and functions for the identified parameters cannot be altered by any software or hardware element in the field by the user to any value that falls outside the range of values detailed in the appropriate clauses within the present document.

NOTE: The user should be understood as to include the end user, the operator or any person not responsible for the conformity of the equipment against the requirements in the present document.

In addition, any hardware element that can be activated by the user to change the identified parameters is also subject to the requirements of the clause.

Requirements

The equipment shall be so constructed that settings (hardware and/or software) are not accessible to the user if changing those settings result in the equipment no longer being conformant to the following:

- The DFS requirements as specified in clause 4.2.6.
- The adaptivity requirements as specified in clause 4.2.7, in particular the thresholds as defined or referred to in clause 4.2.7.3.1.4 and in clause 4.2.7.3.2.5.

EXAMPLE: The equipment does not allow the user to change the country of operation and/or the operating frequency band if that results in the equipment no longer being conformant to the DFS and/or the adaptivity requirements.

Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.12/ B.3.4.12.

Test Result: Compliant.

ETSI EN 301 893 V2.2.1 (2024-11) B.2.2.11 –COUNTRY DETERMINATION CAPABILITY

Definition

Country determination capability is a feature of an RLAN device which enables the device to be configured automatically according to the regulatory requirements applicable at the location where the device operates.

This includes implementations where the country determination capability is present in the RLAN device itself or in external equipment associated with the device.

Details of which CEPT countries permit use of WAS/RLAN in sub-band 4 or parts thereof are found in ECO Report 06 [i.15].

Applicability

Requirements in clause B.2.2.11 shall apply to RLAN devices that are capable of applying an RF output power of greater than 25 mW EIRP in sub-band 4.

Requirements

Before the RLAN device starts transmitting in sub-band 4 with an RF output power of greater than 25 mW EIRP, the RLAN device shall use the country determination capability to identify the country where it is located. The RLAN device shall not transmit in sub-band 4 with an RF output power of greater than 25 mW EIRP, if any of the following applies:

- The RLAN device is in a country where regulatory requirements prohibit transmitting in sub-band 4 with an RF output power of greater than 25 mW EIRP.
- The RLAN device cannot identify the country where the RLAN device is located.

Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §B.3.4.13.

Test Result: N/A. Only required for RLAN devices that are capable of applying an RF output power of greater than 25 mW EIRP in sub-band 4, the output power is less than 25 mW EIRP in sub-band 4

APPENDIX - TEST DATA

NOMINAL CENTRE FREQUENCIES

Environmental Conditions & Test Information

Test Date:	2026-01-28
Temperature:	19 °C
Relative Humidity:	50 %
ATM Pressure:	102.0 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.

Test Mode: MIMO/Beamforming

f_c (MHz)	Temperature °C	Voltage (V _{dc})	Measure Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)
5180	-20	3.87	5179.967675	-6.24	±20
	+25		5179.974000	-5.02	
	+40		5179.978033	-4.24	
5190	-20		5189.970547	-5.67	
	+25		5189.971000	-5.59	
	+40		5189.971121	-5.56	
5210	-20		5209.981470	-3.56	
	+25		5209.979000	-4.03	
	+40		5209.786599	-40.96	
5230	-20		5229.961277	-7.40	
	+25		5229.961000	-7.46	
	+40		5229.961035	-7.45	
5240	-20		5239.969135	-5.89	
	+25		5239.968000	-6.11	
	+40		5239.968675	-5.98	
5250	-20		5249.981360	-3.55	
	+25		5249.980000	-3.81	
	+40		5249.980524	-3.71	
5260	-20		5259.978336	-4.12	
	+25		5259.976000	-4.56	
	+40		5259.976325	-4.50	
5270	-20		5269.980126	-3.77	
	+25		5269.980000	-3.80	
	+40		5269.980205	-3.76	
5290	-20		5289.973663	-5.02	
	+25		5289.977000	-4.38	
	+40		5289.977142	-4.35	
5310	-20		5309.974611	-4.78	
	+25		5309.975000	-4.71	
	+40		5309.975104	-4.69	
5320	-20		5319.967322	-6.14	
	+25		5319.967000	-6.20	
	+40		5319.966935	-6.22	

NOMINAL CHANNEL BANDWIDTH AND OCCUPIED CHANNEL BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2026-01-28 to 2026-01-29
Temperature:	19-20 °C
Relative Humidity:	50-52 %
ATM Pressure:	102.0-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Mode: MIMO/Beamforming

Test Result: Compliant.

Chain 0

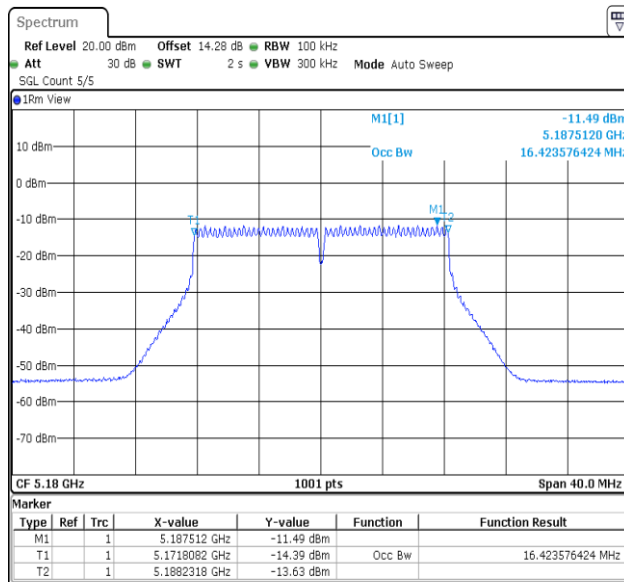
Mode	f _c (MHz)	Nominal Channel Bandwidth (MHz)	99% Occupied Channel Bandwidth (MHz)	Limit (MHz)
802.11a	5180	20	16.424	16~20
	5260	20	16.424	16~20
802.11ac-VHT20	5180	20	17.662	16~20
	5260	20	17.622	16~20
802.11ac-VHT40	5190	40	36.284	32~40
	5270	40	36.284	32~40
802.11ac-VHT80	5210	80	75.604	64~80
	5290	80	75.764	64~80
802.11ac-VHT160	5250	160	155.045	128~160
802.11ax-HE20	5180	20	18.901	16~20
	5260	20	18.941	16~20
802.11ax-HE40	5190	40	37.722	32~40
	5270	40	37.722	32~40
802.11ax-HE80	5210	80	77.203	64~80
	5290	80	77.363	64~80
802.11ax-HE160	5250	160	156.643	128~160

Chain 1

Mode	f_c (MHz)	Nominal Channel Bandwidth (MHz)	99% Occupied Channel Bandwidth (MHz)	Limit (MHz)
802.11a	5180	20	16.424	16~20
	5260	20	16.464	16~20
802.11ac-VHT20	5180	20	17.622	16~20
	5260	20	17.662	16~20
802.11ac-VHT40	5190	40	36.204	32~40
	5270	40	36.204	32~40
802.11ac-VHT80	5210	80	75.764	64~80
	5290	80	75.924	64~80
802.11ac-VHT160	5250	160	155.365	128~160
802.11ax-HE20	5180	20	18.901	16~20
	5260	20	18.941	16~20
802.11ax-HE40	5190	40	37.802	32~40
	5270	40	37.802	32~40
802.11ax-HE80	5210	80	77.363	64~80
	5290	80	77.203	64~80
802.11ax-HE160	5250	160	157.283	128~160

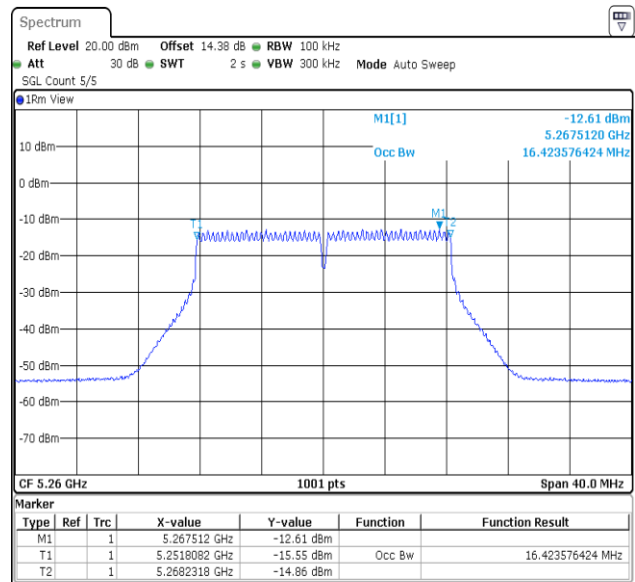
Chain 0

802.11a 5180MHz, 99% Occupied Channel Bandwidth



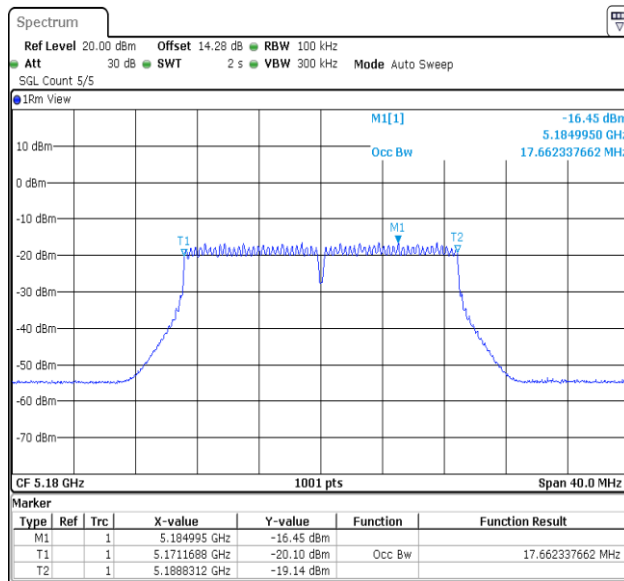
Date: 28 JAN 2026 10:16:51

802.11a 5260MHz, 99% Occupied Channel Bandwidth



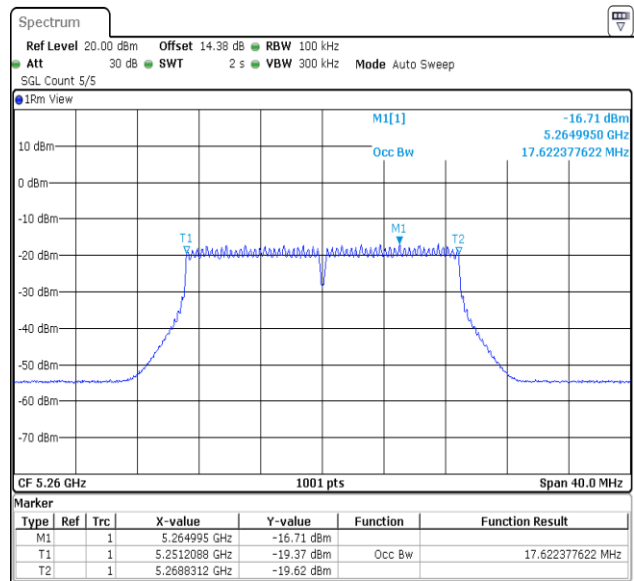
Date: 28 JAN 2026 10:31:11

802.11ac-VHT20 5180MHz, 99% Occupied Channel Bandwidth



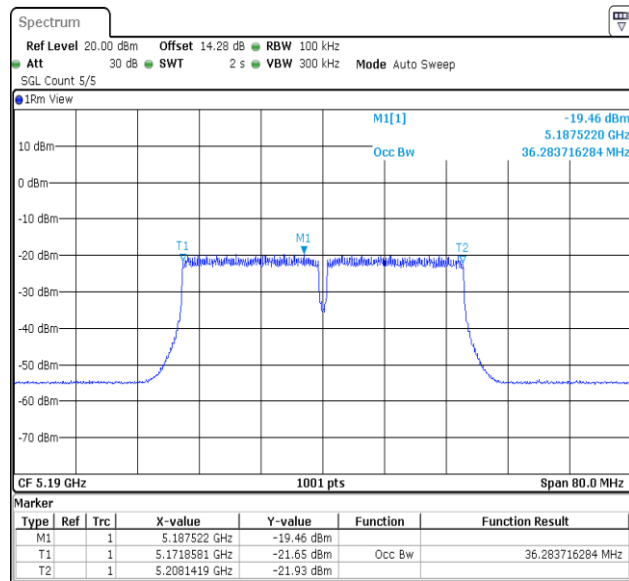
Date: 28 JAN 2026 13:41:05

802.11ac-VHT20 5260MHz, 99% Occupied Channel Bandwidth



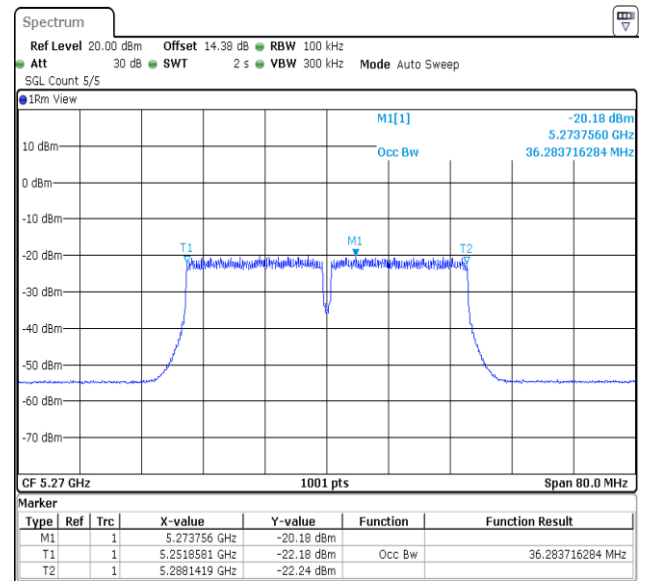
Date: 28 JAN 2026 13:59:25

802.11ac-VHT40 5190MHz, 99% Occupied Channel Bandwidth



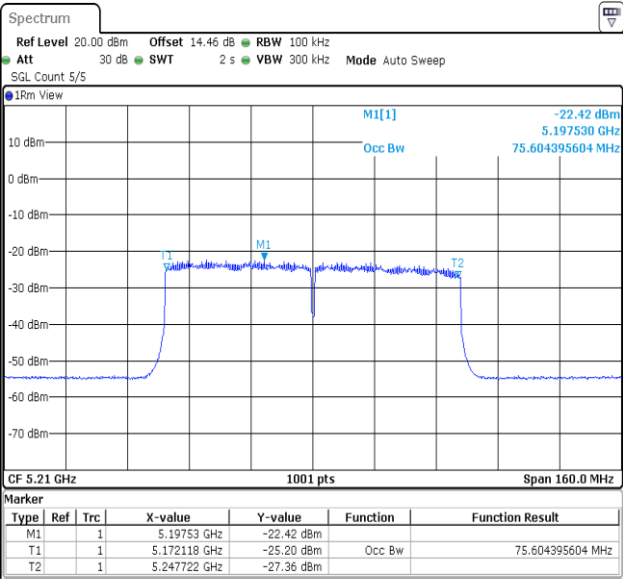
Date: 28 JAN 2026 15:23:03

802.11ac-VHT40 5270MHz, 99% Occupied Channel Bandwidth



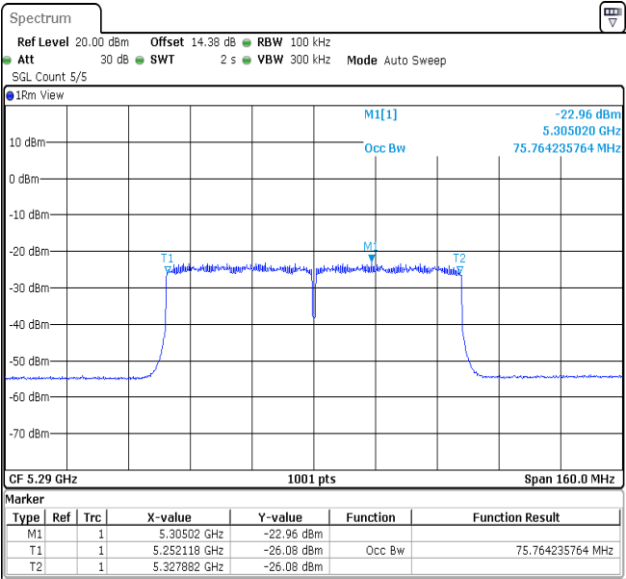
Date: 28 JAN 2026 15:41:32

802.11ac-VHT80 5210MHz, 99% Occupied Channel Bandwidth



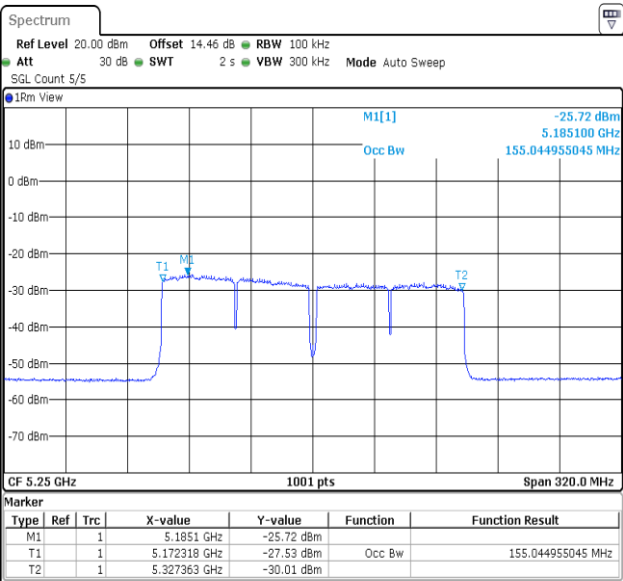
Date: 28 JAN 2026 16:56:42

802.11ac-VHT80 5290MHz, 99% Occupied Channel Bandwidth



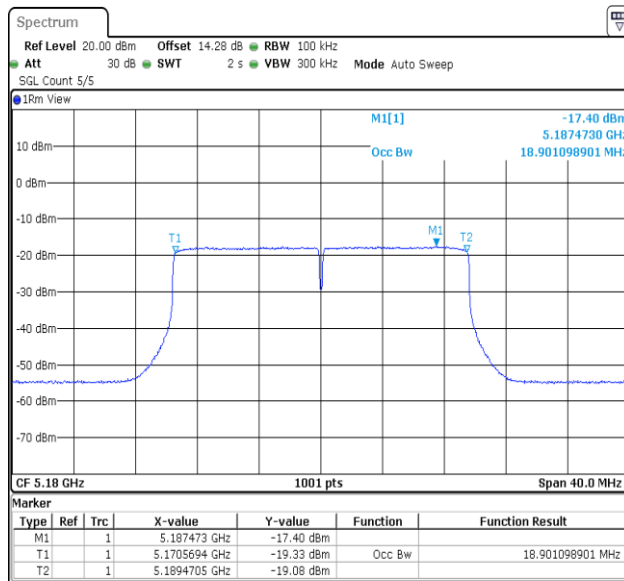
Date: 28 JAN 2026 17:07:15

802.11ac-VHT160 5250MHz, 99% Occupied Channel Bandwidth



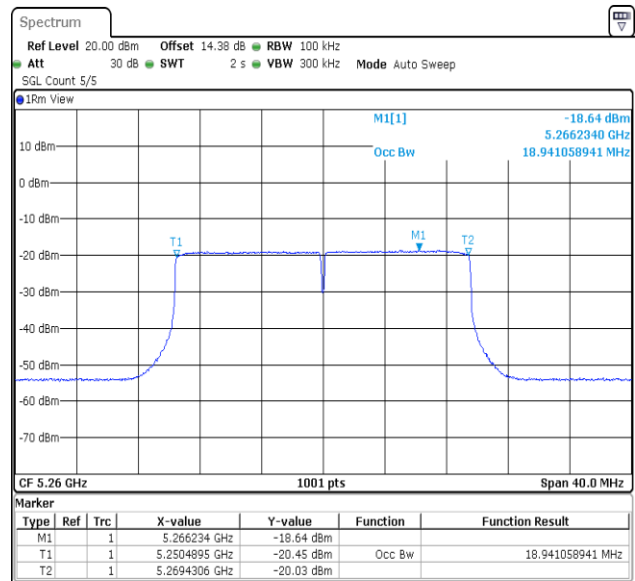
Date: 28 JAN 2026 19:09:26

802.11ax-VHT20 5180MHz, 99% Occupied Channel Bandwidth



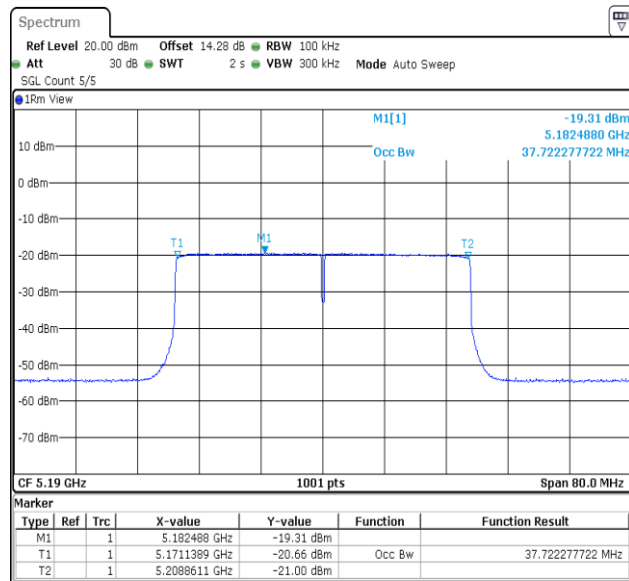
Date: 28 JAN 2026 19:37:01

802.11ax-VHT20 5260MHz, 99% Occupied Channel Bandwidth



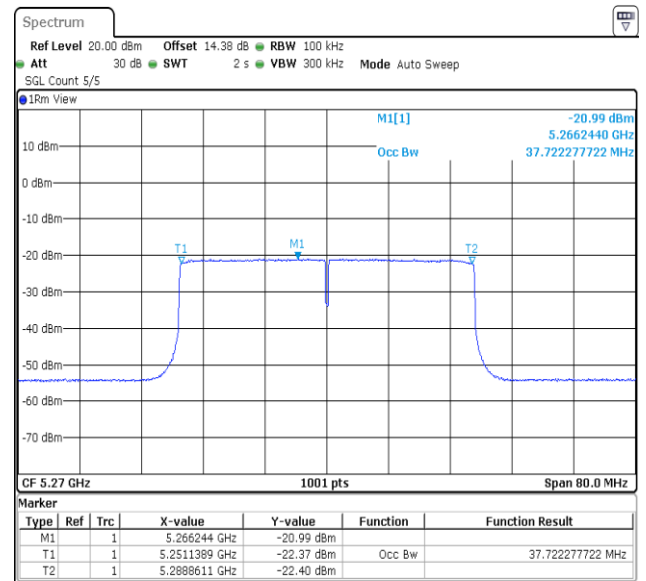
Date: 29 JAN 2026 09:27:46

802.11ax-VHT40 5190MHz, 99% Occupied Channel Bandwidth



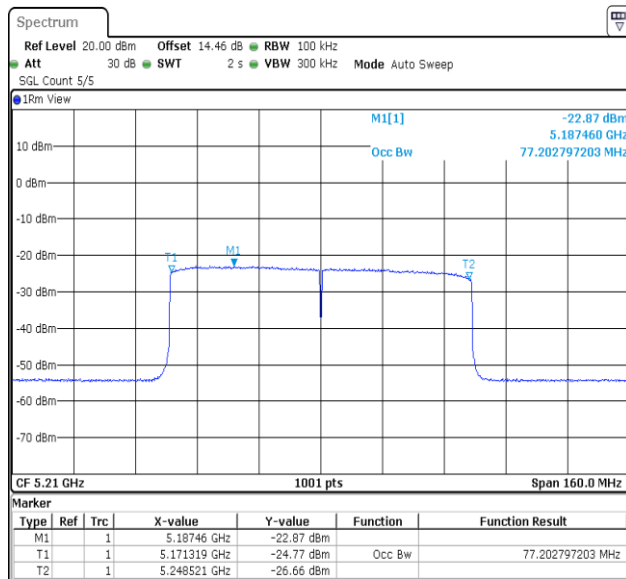
Date: 29 JAN 2026 10:40:39

802.11ax-VHT40 5270MHz, 99% Occupied Channel Bandwidth



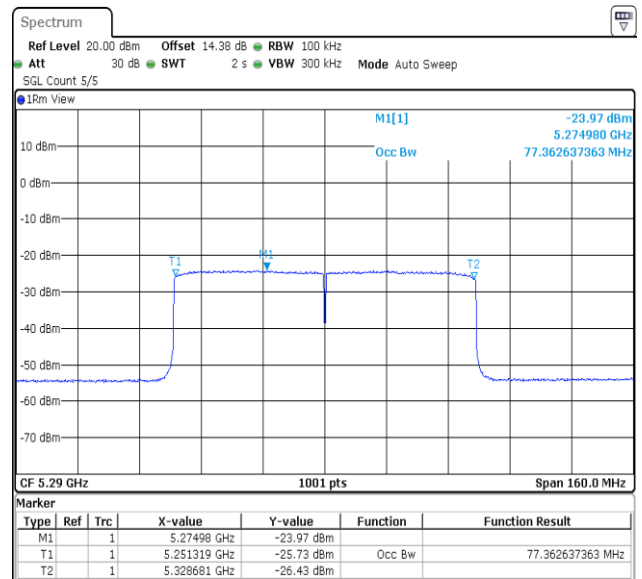
Date: 29 JAN 2026 10:59:39

802.11ax-VHT80 5210MHz, 99% Occupied Channel Bandwidth



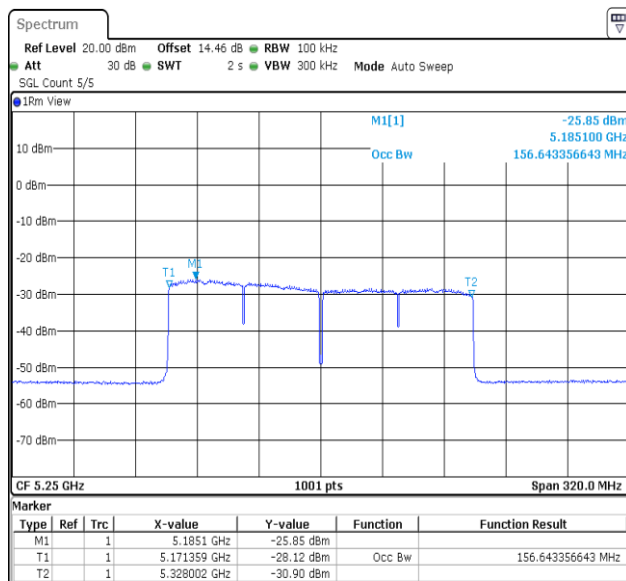
Date: 29 JAN 2026 11:59:33

802.11ax-VHT80 5290MHz, 99% Occupied Channel Bandwidth



Date: 29 JAN 2026 13:28:31

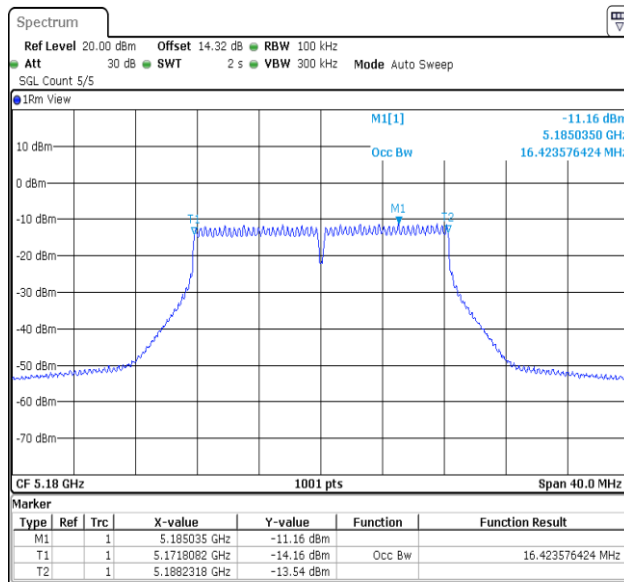
802.11ax-VHT160 5250MHz, 99% Occupied Channel Bandwidth



Date: 29 JAN 2026 13:49:13

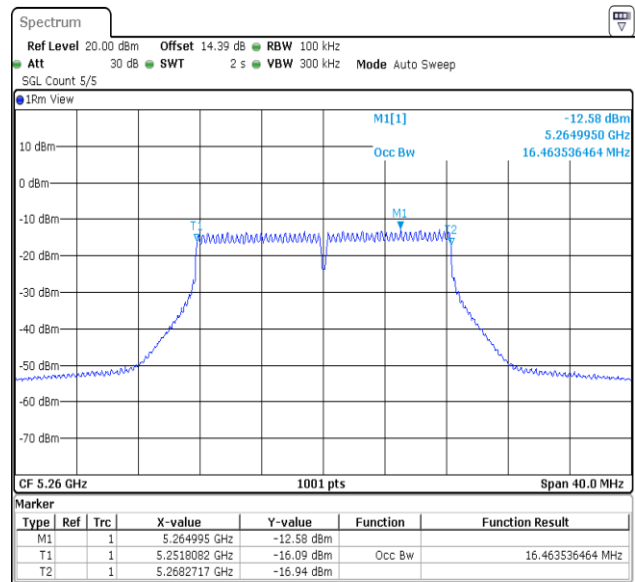
Chain 1

802.11a 5180MHz, 99% Occupied Channel Bandwidth



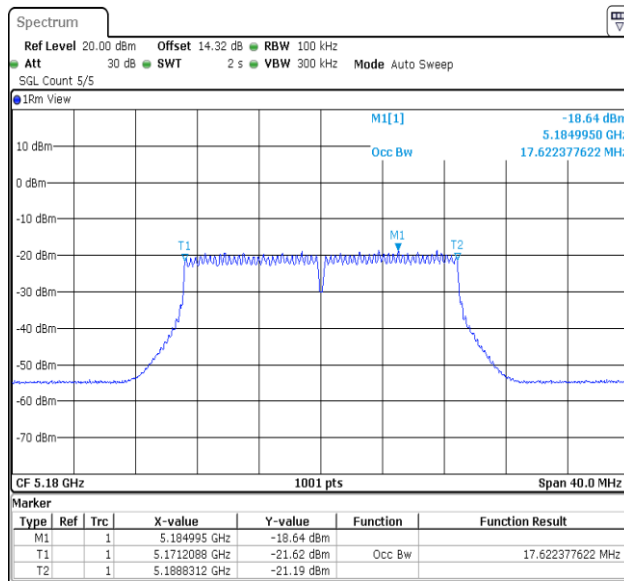
Date: 28 JAN 2026 11:09:58

802.11a 5260MHz, 99% Occupied Channel Bandwidth



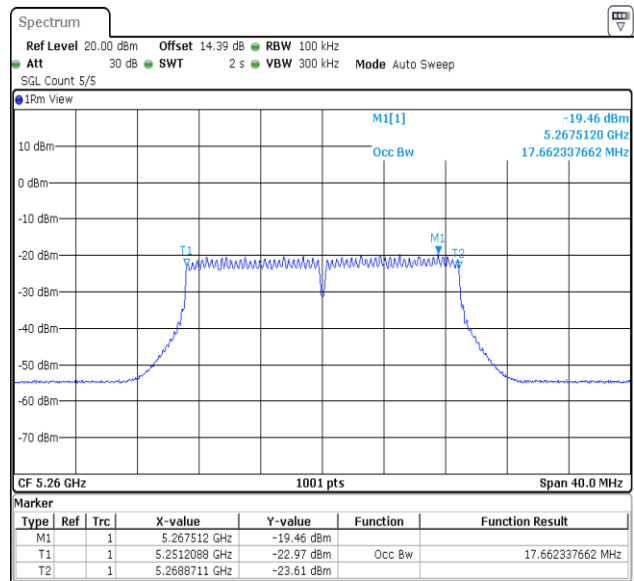
Date: 28 JAN 2026 11:43:37

802.11ac-VHT20 5180MHz, 99% Occupied Channel Bandwidth



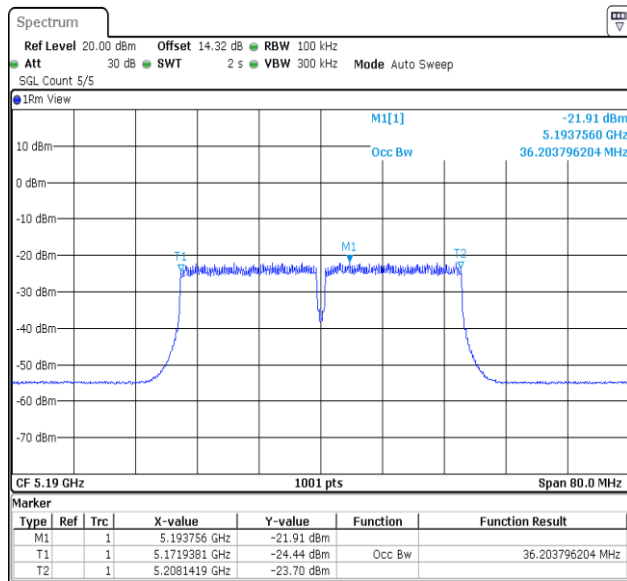
Date: 28 JAN 2026 13:42:05

802.11ac-VHT20 5260MHz, 99% Occupied Channel Bandwidth



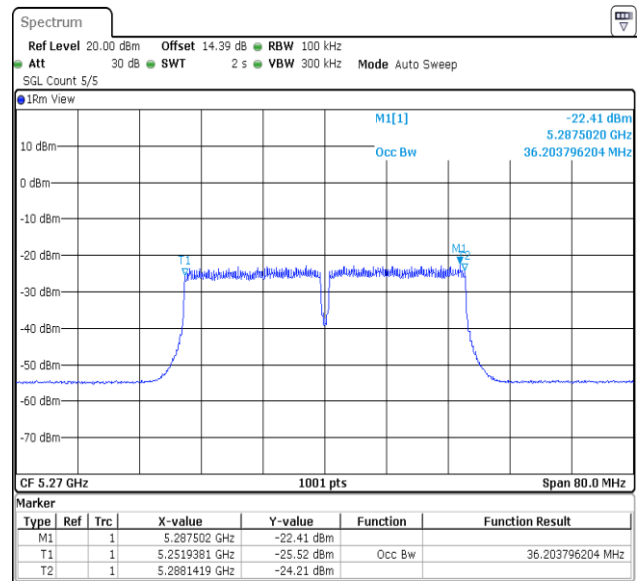
Date: 28 JAN 2026 14:00:25

802.11ac-VHT40 5190MHz, 99% Occupied Channel Bandwidth



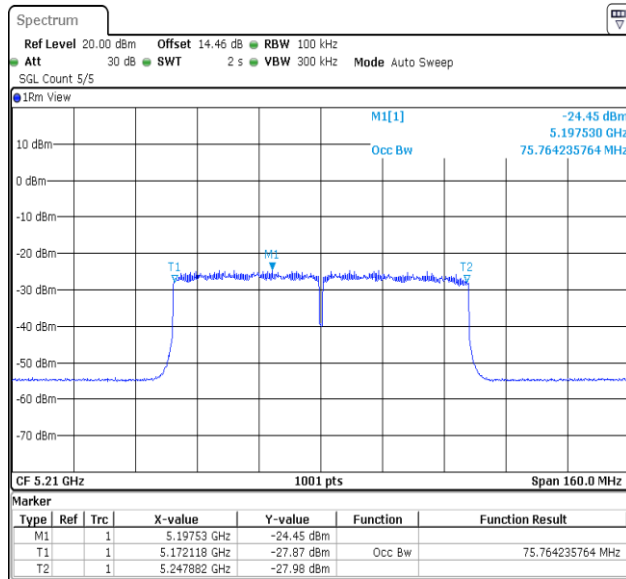
Date: 28 JAN 2026 15:24:03

802.11ac-VHT40 5270MHz, 99% Occupied Channel Bandwidth



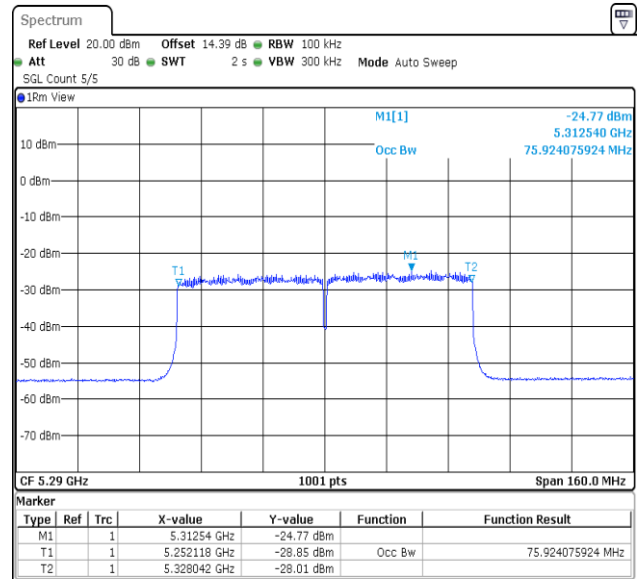
Date: 28 JAN 2026 15:42:33

802.11ac-VHT80 5210MHz, 99% Occupied Channel Bandwidth



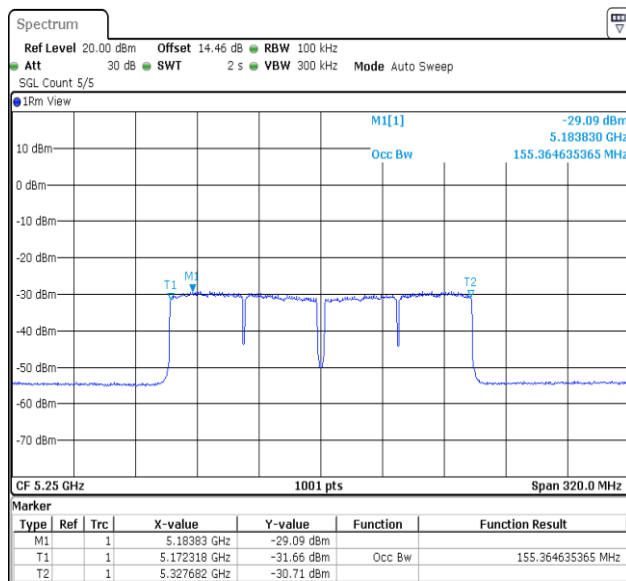
Date: 28 JAN 2026 16:57:33

802.11ac-VHT80 5290MHz, 99% Occupied Channel Bandwidth



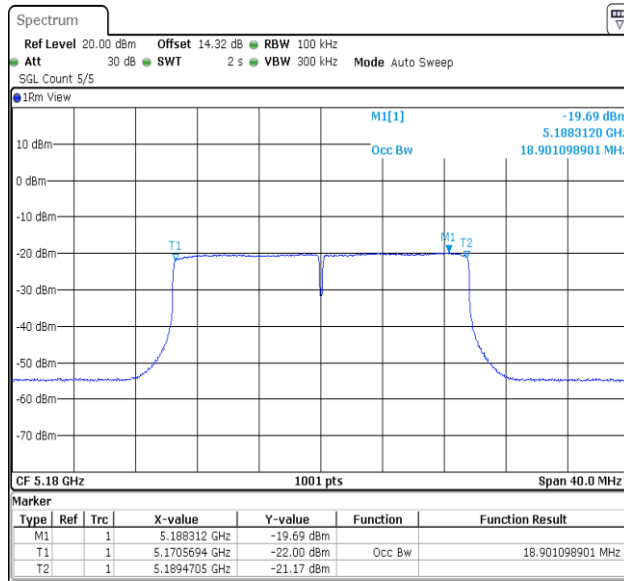
Date: 28 JAN 2026 17:08:06

802.11ac-VHT160 5250MHz, 99% Occupied Channel Bandwidth



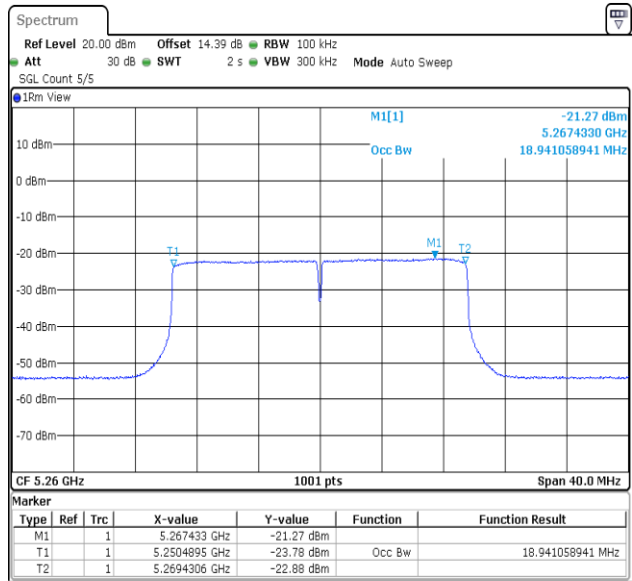
Date: 28 JAN 2026 19:10:11

802.11ax-VHT20 5180MHz, 99% Occupied Channel Bandwidth



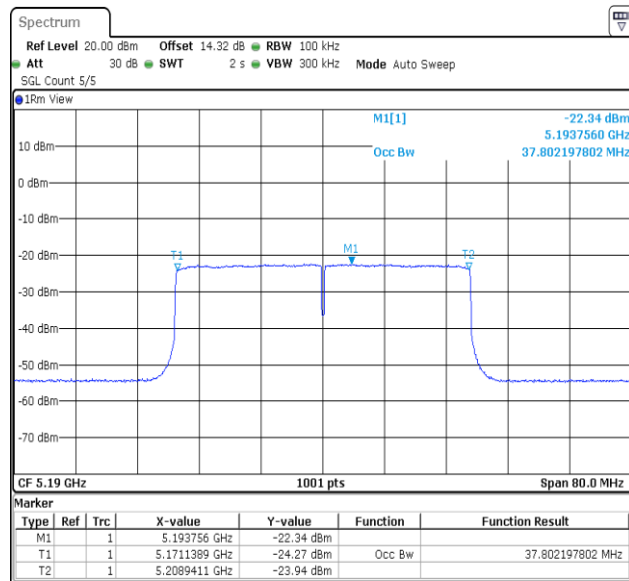
Date: 28 JAN 2026 19:38:01

802.11ax-VHT20 5260MHz, 99% Occupied Channel Bandwidth



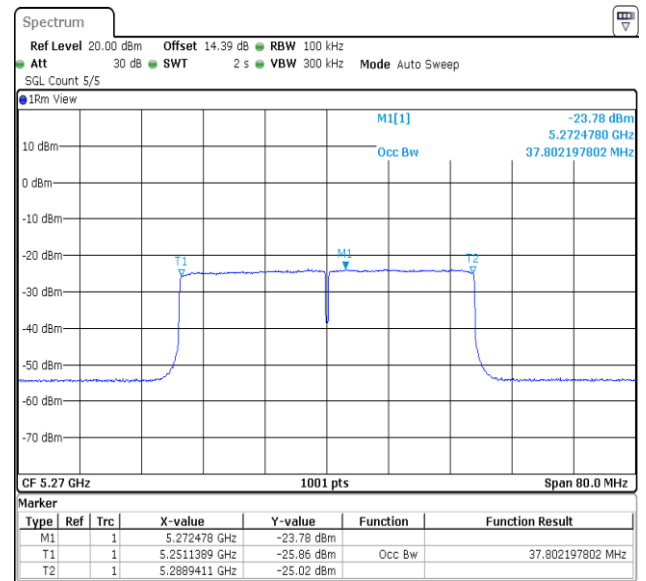
Date: 29 JAN 2026 09:28:46

802.11ax-VHT40 5190MHz, 99% Occupied Channel Bandwidth



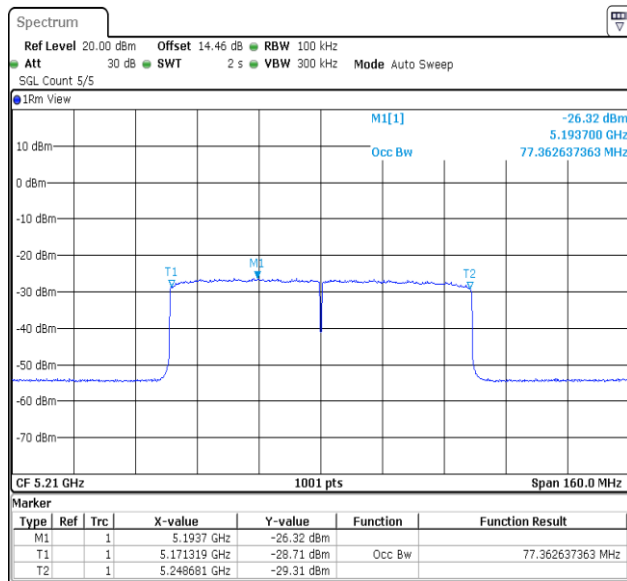
Date: 29 JAN 2026 10:41:40

802.11ax-VHT40 5270MHz, 99% Occupied Channel Bandwidth



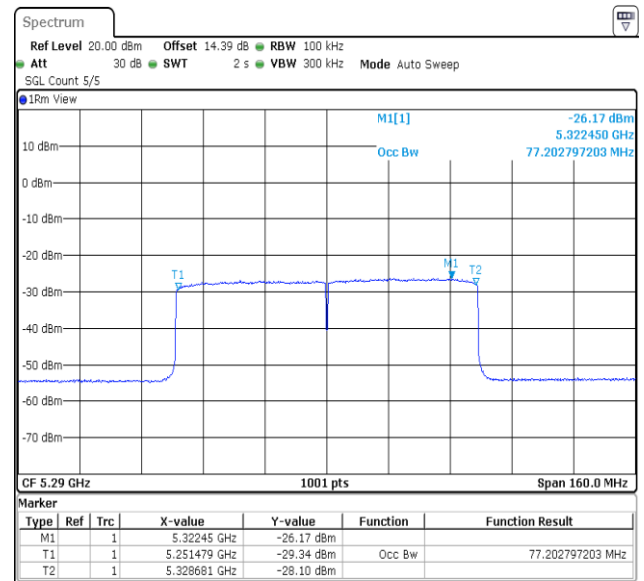
Date: 29 JAN 2026 11:00:40

802.11ax-VHT80 5210MHz, 99% Occupied Channel Bandwidth



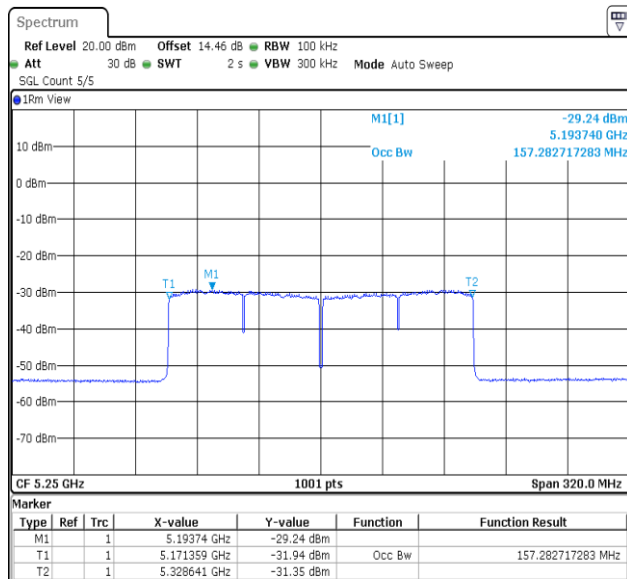
Date: 29 JAN 2026 12:00:24

802.11ax-VHT80 5290MHz, 99% Occupied Channel Bandwidth



Date: 29 JAN 2026 13:29:22

802.11ax-VHT160 5250MHz, 99% Occupied Channel Bandwidth



Date: 29 JAN 2026 13:49:58

RF OUTPUT POWER, TRANSMIT POWER CONTROL (TPC) AND POWER DENSITY**Environmental Conditions & Test Information**

Test Date:	2026-01-28 to 2026-01-29
Temperature:	19-20 °C
Relative Humidity:	50-52 %
ATM Pressure:	102.0-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.

RF output power:

Test Mode: MIMO/Beamforming

SISO

Mode	f _c (MHz)	Temperature (°C)	Voltage (V _{dc})	e.i.r.p (dBm)			Limit (dBm)
				Chain 0	Chain 1	Total	
802.11a	5180	0	3.87	18.47	18.89	/	≤ 23
		+25		18.44	18.83	/	
		+40		18.36	18.77	/	
	5240	0		18.25	18.61	/	
		+25		18.21	18.57	/	
		+40		18.14	18.55	/	
	5260	0		18.63	18.98	/	≤ 20
		+25		18.59	18.93	/	
		+40		18.55	18.86	/	
	5320	0		18.79	18.49	/	
		+25		18.73	18.45	/	
		+40		18.68	18.38	/	

MIMO

Mode	f _c (MHz)	Temperature (°C)	Voltage (V _{dc})	e.i.r.p (dBm)			Limit (dBm)
				Chain 0	Chain 1	Total	
802.11ac-VHT20	5180	-20	3.87	17.05	12.76	18.42	≤ 23
		+25		16.96	12.71	18.35	
		+40		16.92	12.65	18.3	
	5240	-20		16.39	13.44	18.17	
		+25		16.33	13.4	18.12	
		+40		16.28	13.25	18.03	
	5260	-20		16.57	13.59	18.34	≤ 20
		+25		16.52	13.54	18.29	
		+40		16.45	13.48	18.22	
	5320	-20		16.38	14.36	18.5	
		+25		16.32	14.28	18.43	
		+40		16.24	14.21	18.35	
802.11ac-VHT40	5190	-20	3.87	16.69	12.47	18.08	≤ 23
		+25		16.65	12.43	18.04	
		+40		16.61	12.36	18	
	5230	-20		16.23	13.15	17.97	
		+25		16.17	13.07	17.9	
		+40		16.12	12.96	17.83	
	5270	-20		16.24	15.03	18.69	≤ 20
		+25		16.14	14.94	18.59	
		+40		16.08	14.88	18.53	
	5310	-20		15.83	14.72	18.32	
		+25		15.78	14.65	18.26	
		+40		15.72	14.59	18.2	

Mode	f _c (MHz)	Temperature (°C)	Voltage (V _{dc})	e.i.r.p (dBm)			Limit (dBm)
				Chain 0	Chain 1	Total	
802.11ac- VHT80	5210	-20	3.87	17.11	13.72	18.75	≤ 23
		+25		17.06	13.64	18.69	
		+40		17.02	13.58	18.64	
	5290	-20		16.63	14.94	18.88	≤ 20
		+25		16.56	14.86	18.8	
		+40		16.51	14.81	18.75	
802.11ax-HE20	5180	-20		16.68	12.65	18.13	≤ 23
		+25		16.62	12.58	18.06	
		+40		16.54	12.52	17.99	
	5240	-20		16.57	13.64	18.36	
		+25		16.48	13.56	18.27	
		+40		16.42	13.51	18.21	
	5260	-20		16.23	13.39	18.05	≤ 20
		+25		16.18	13.32	17.99	
		+40		16.12	13.25	17.93	
	5320	-20		16.21	15.11	18.71	
		+25		16.17	15.04	18.65	
		+40		16.12	14.93	18.58	

Mode	f _c (MHz)	Temperature (°C)	Voltage (V _{dc})	e.i.r.p (dBm)			Limit (dBm)
				Chain 0	Chain 1	Total	
802.11ax-HE40	5190	-20	3.87	17.02	13.45	18.6	≤ 23
		+25		16.95	13.39	18.54	
		+40		16.86	13.31	18.45	
	5230	-20		16.54	13.58	18.32	
		+25		16.5	13.5	18.26	
		+40		16.47	13.42	18.22	
	5270	-20		16.67	13.93	18.52	≤ 20
		+25		16.61	13.85	18.46	
		+40		16.58	13.78	18.41	
	5310	-20		15.83	14.25	18.12	
		+25		15.77	14.18	18.06	
		+40		15.72	14.11	18	
802.11ax-HE80	5210	-20		16.63	13.49	18.35	≤ 23
		+25		16.58	13.44	18.3	
		+40		16.52	13.35	18.23	
	5290	-20		16.75	14.13	18.64	≤ 20
		+25		16.68	14.03	18.56	
		+40		16.62	13.95	18.5	
802.11ac-VHT160	5250	-20		16.75	13.63	18.47	≤ 20
		+25		16.68	13.56	18.4	
		+40		16.63	13.52	18.36	
802.11ax-HE160	5250	-20		16.36	13.07	18.03	≤ 20
		+25		16.28	12.99	17.95	
		+40		16.23	12.92	17.89	

Beamforming

Mode	f _c (MHz)	Temperature (°C)	Voltage (V _{dc})	e.i.r.p (dBm)			Limit (dBm)
				Chain 0	Chain 1	Total	
802.11ac-VHT20	5180	0	3.87	14.11	11.72	19.09	≤ 23
		+25		14.08	11.64	19.04	
		+40		14.02	11.59	18.98	
	5240	0		13.53	11.55	18.66	
		+25		13.5	11.51	18.63	
		+40		13.46	11.46	18.58	
	5260	0		14.65	11.53	19.37	≤ 20
		+25		14.6	11.48	19.32	
		+40		14.57	11.45	19.29	
	5320	0		14.03	12.23	19.23	
		+25		13.97	12.18	19.18	
		+40		13.92	12.14	19.13	

Mode	f _c (MHz)	Temperature (°C)	Voltage (V _{dc})	e.i.r.p (dBm)			Limit (dBm)
				Chain 0	Chain 1	Total	
802.11ac-VHT40	5190	0	3.87	13.47	10.82	18.35	≤ 23
		+25		13.42	10.77	18.3	
		+40		13.38	10.73	18.26	
	5230	0		13.11	11.21	18.27	
		+25		13.04	11.14	18.2	
		+40		12.99	11.09	18.15	
	5270	0		14.05	11.23	18.88	≤ 20
		+25		14.01	11.16	18.83	
		+40		13.97	11.12	18.79	
	5310	0		13.69	11.93	18.91	
		+25		13.64	11.86	18.85	
		+40		13.58	11.82	18.8	
802.11ac-VHT80	5210	0		13.99	11.53	18.94	≤ 23
		+25		13.94	11.47	18.89	
		+40		13.87	11.42	18.83	
	5290	0		14.53	11.45	19.27	≤ 20
		+25		14.48	11.38	19.21	
		+40		14.45	11.31	19.17	
802.11ac-VHT160	5250	0		13.91	10.79	18.63	≤ 20
		+25		13.85	10.74	18.58	
		+40		13.79	10.67	18.51	

Mode	f _c (MHz)	Temperature (°C)	Voltage (V _{dc})	e.i.r.p (dBm)			Limit (dBm)
				Chain 0	Chain 1	Total	
802.11ax-HE20	5180	0	3.87	13.79	11.03	18.64	≤ 23
		+25		13.74	10.96	18.58	
		+40		13.66	10.92	18.51	
	5240	0		13.21	11.38	18.4	
		+25		13.15	11.33	18.34	
		+40		13.13	11.26	18.31	
	5260	0		13.07	10.71	18.06	≤ 20
		+25		13.03	10.65	18.01	
		+40		12.98	10.59	17.96	
	5320	0		13.56	11.65	18.72	
		+25		13.52	11.61	18.68	
		+40		13.47	11.57	18.63	
802.11ax-HE40	5190	0	3.87	14.21	10.79	18.84	≤ 23
		+25		14.16	10.72	18.78	
		+40		14.13	10.66	18.74	
	5230	0		14.05	10.87	18.76	
		+25		13.98	10.84	18.7	
		+40		13.92	10.78	18.64	
	5270	0		13.93	10.43	18.53	≤ 20
		+25		13.87	10.39	18.48	
		+40		13.81	10.34	18.42	
	5310	0		13.25	10.86	18.23	
		+25		13.17	10.79	18.15	
		+40		13.12	10.72	18.09	

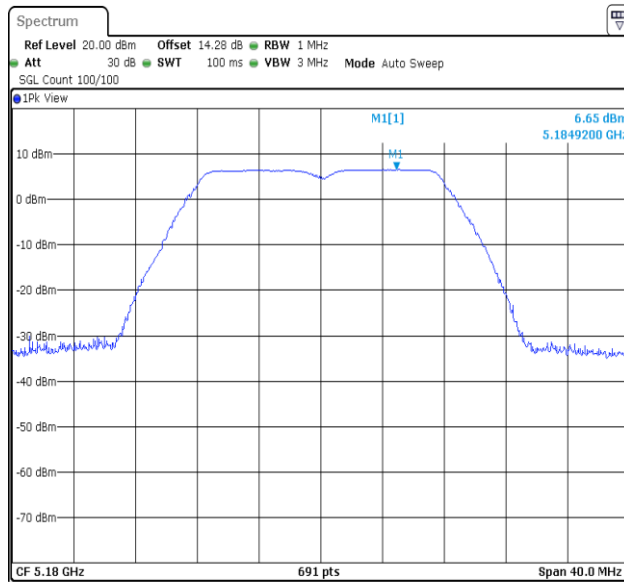
Mode	f _c (MHz)	Temperature (°C)	Voltage (V _{dc})	e.i.r.p (dBm)			Limit (dBm)
				Chain 0	Chain 1	Total	
802.11ax-HE80	5210	0	3.87	13.75	10.63	18.47	≤ 23
		+25		13.71	10.57	18.43	
		+40		13.66	10.55	18.39	
	5290	0		14.12	11.38	18.97	≤ 20
		+25		14.05	11.29	18.9	
		+40		14.01	11.24	18.85	
802.11ax-HE160	5250	0		13.46	10.83	18.35	≤ 20
		+25		13.42	10.76	18.3	
		+40		13.37	10.72	18.25	

Mode	fc	PD (dBm/MHz)			Gain (dBi)	Beamforming Gain (dB)	DC Factor	DC Factor	Power Density EIRP (dBm/MHz)			Limit (dBm/MHz)	Result
	(MHz)	Chain 0	Chain 1	total					Chain 0	Chain 1	total		
802.11a	5180	-3.13	-2.79	0.05	7.06	3.0	0.87	0.87	0.74	1.08	3.92	≤10	Pass
	5240	-3.89	-4.36	-1.11			0.87	0.76	-0.02	-0.6	2.71	≤10	Pass
	5260	-4.48	-4.47	-1.46			0.87	0.86	-0.61	-0.61	2.4	≤7	Pass
	5320	-3.73	-4.02	-0.86			0.89	0.88	0.16	-0.14	3.02	≤7	Pass
802.11ac-VHT20	5180	-8.25	-10.95	-6.38			0.91	0.88	-4.34	-7.07	-2.48	≤10	Pass
	5240	-9.31	-10.84	-7			0.98	0.89	-5.33	-6.95	-3.05	≤10	Pass
	5260	-8.79	-12.09	-7.12			0.89	0.88	-4.9	-8.21	-3.24	≤7	Pass
	5320	-8.89	-10.48	-6.6			0.88	0.88	-5.01	-6.6	-2.72	≤7	Pass
802.11ax-HE20	5180	-7.76	-9.94	-5.7			0.15	0.15	-4.61	-6.79	-2.55	≤10	Pass
	5240	-8.9	-10.82	-6.74			0.15	0.16	-5.75	-7.66	-3.59	≤10	Pass
	5260	-8.91	-11.64	-7.05			0.15	0.15	-5.76	-8.49	-3.9	≤7	Pass
	5320	-7.92	-9.99	-5.82			0.15	0.15	-4.77	-6.84	-2.67	≤7	Pass

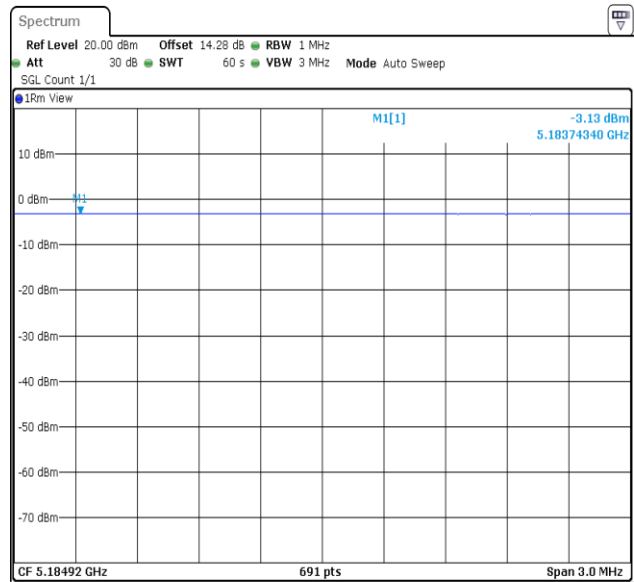
Note: The antenna gain is 7.06 dBi. Beamforming antenna gain is 3.0dB.

SISO
Chain 0

802.11a 5180MHz-Power density

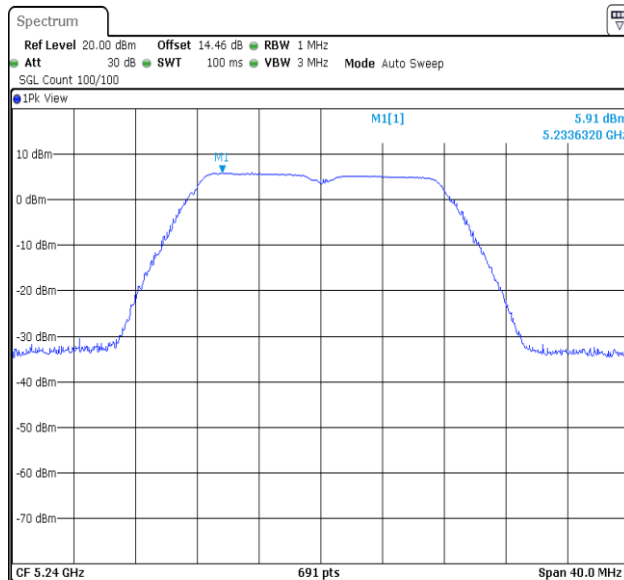


Date: 28 JAN 2026 10:15:30

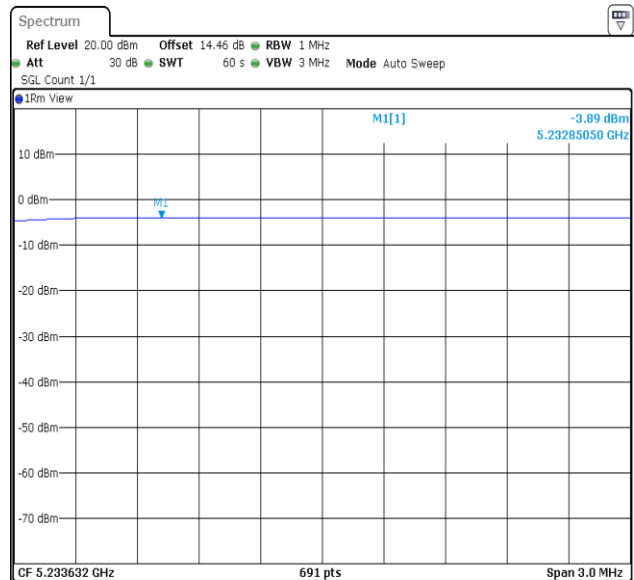


Date: 28 JAN 2026 10:16:34

802.11a 5240MHz-Power density

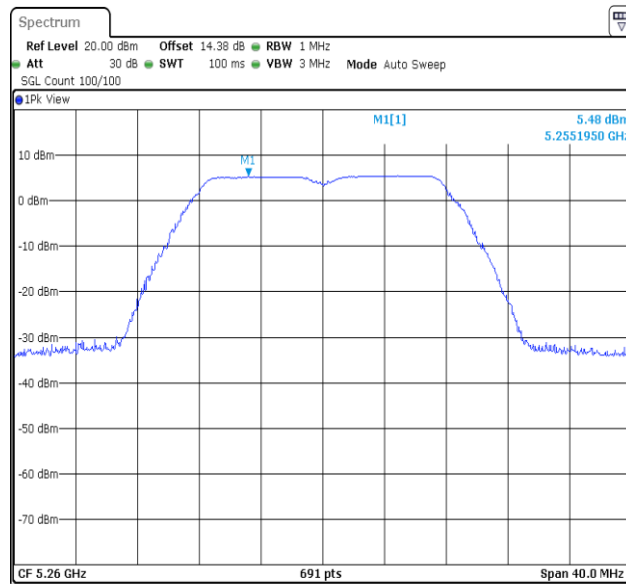


Date: 28 JAN 2026 10:23:59

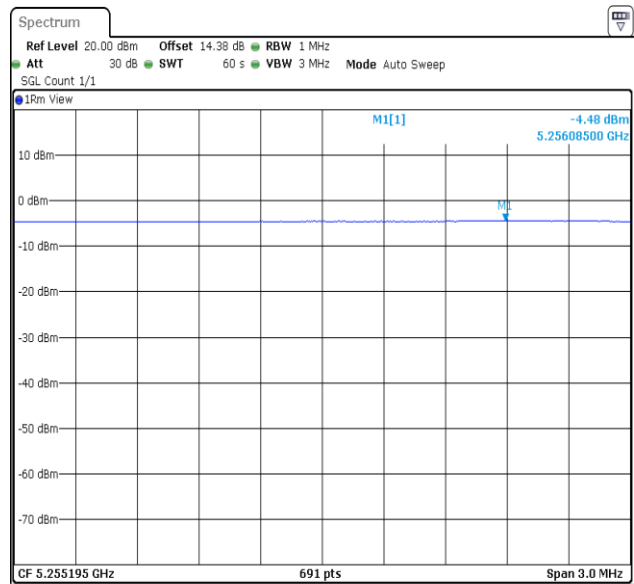


Date: 28 JAN 2026 10:25:02

802.11a 5260MHz-Power density

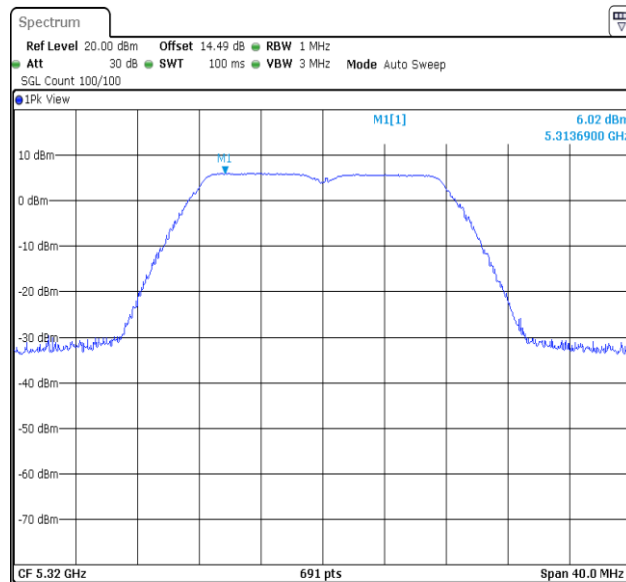


Date: 28 JAN 2026 10:29:50

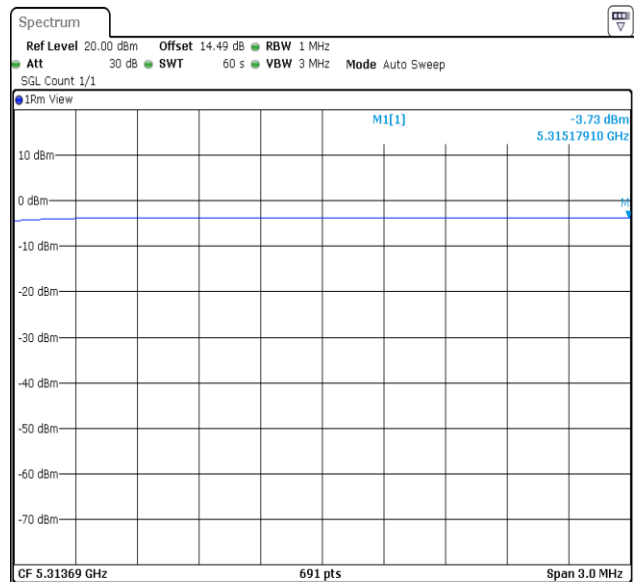


Date: 28 JAN 2026 10:30:54

802.11a 5320MHz-Power density



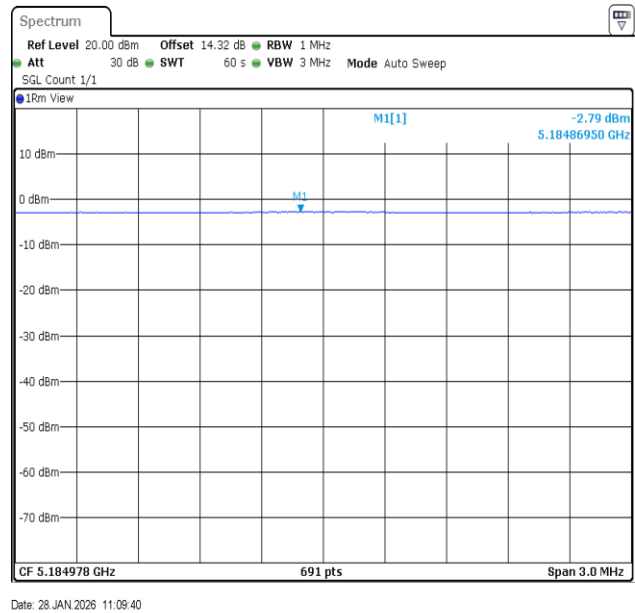
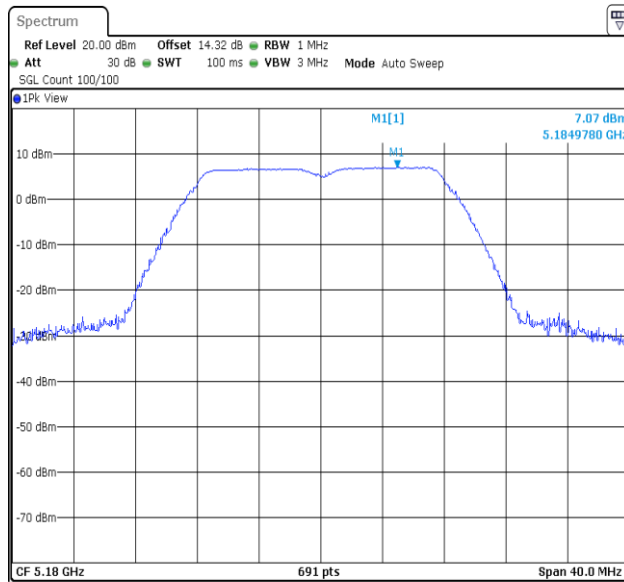
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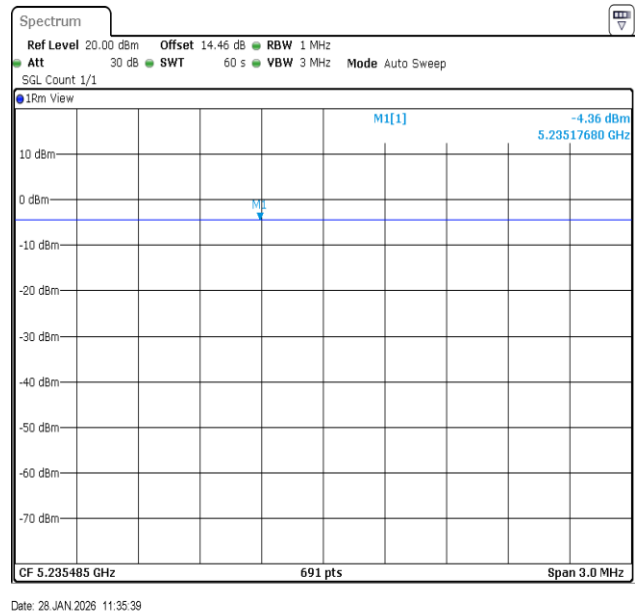
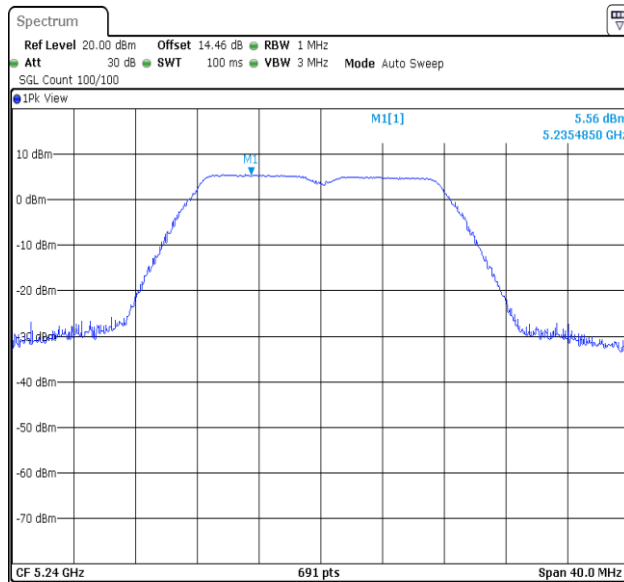
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Chain 1

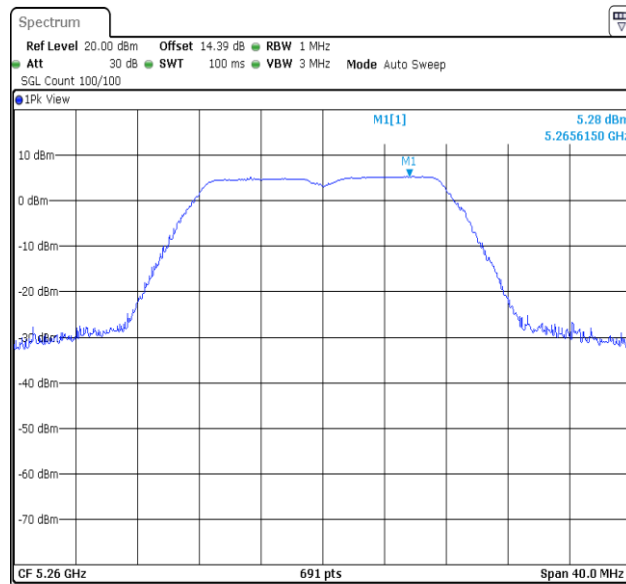
802.11a 5180MHz-Power density



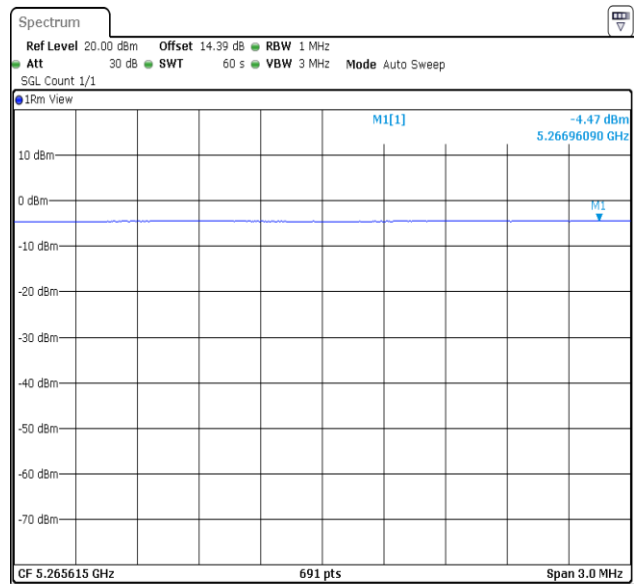
802.11a 5240MHz-Power density



802.11a 5260MHz-Power density

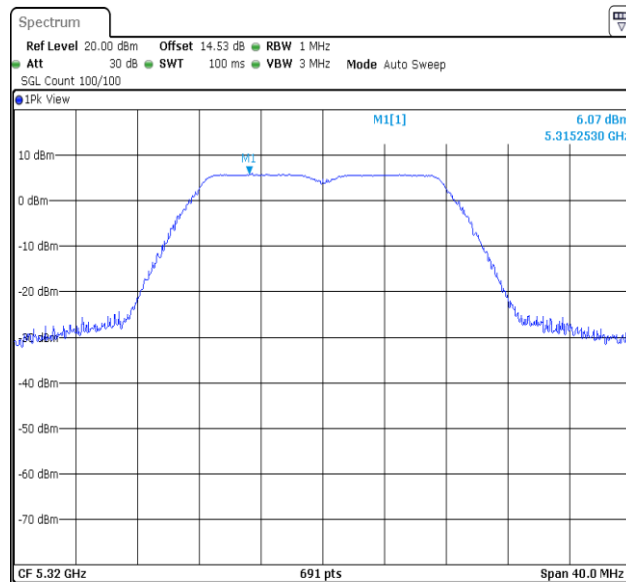


Date: 28 JAN 2026 11:42:15

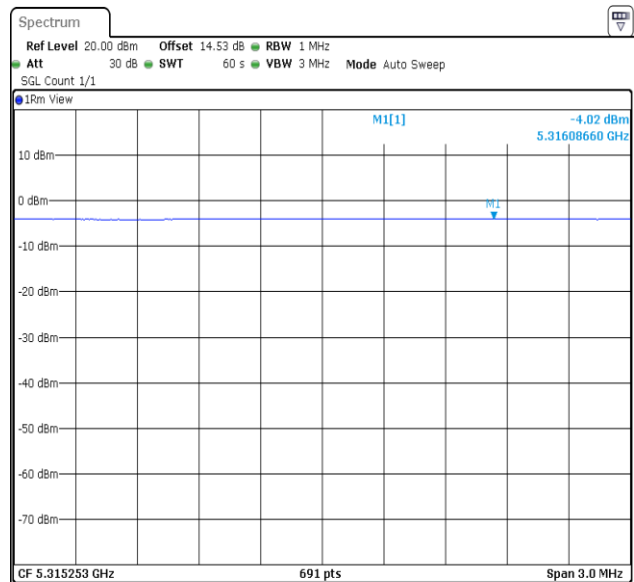


Date: 28 JAN 2026 11:43:20

802.11a 5320MHz-Power density



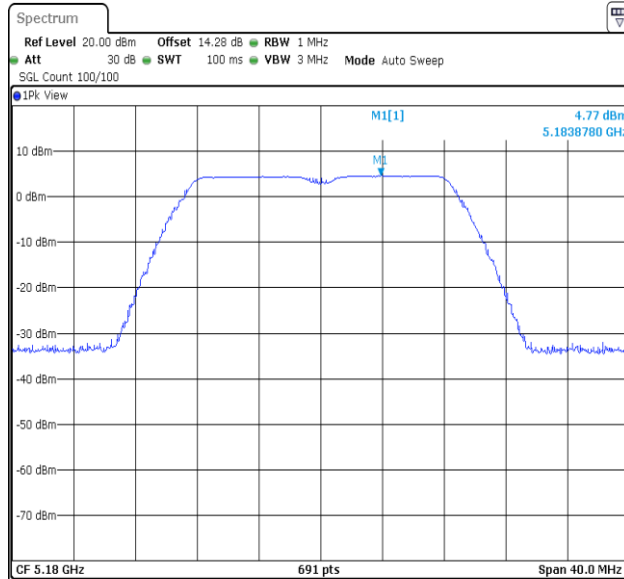
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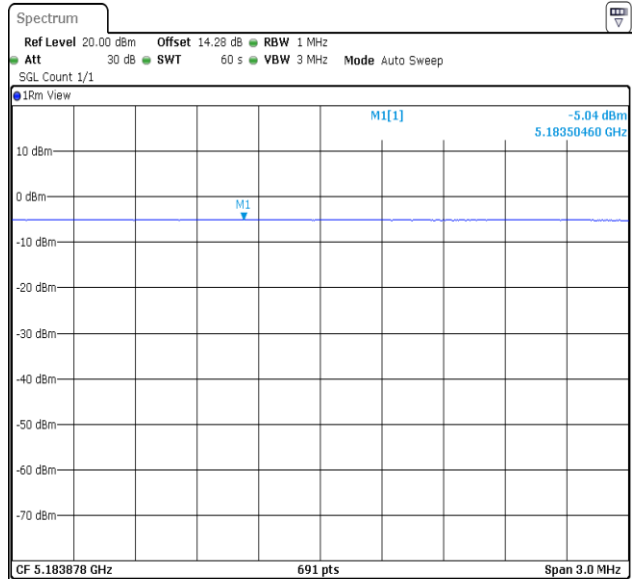
Date: 28 JAN 2026 11:50:19

MIMO
Chain 0

802.11ac-VHT20 5180MHz-Power density

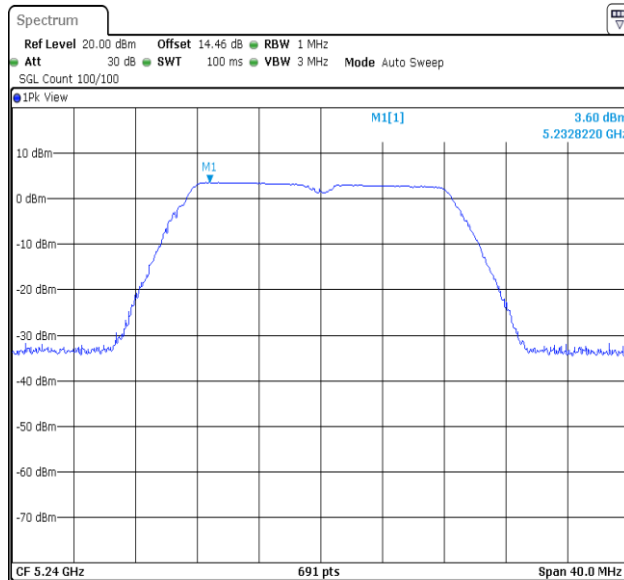


Date: 29 JAN 2026 13:54:50

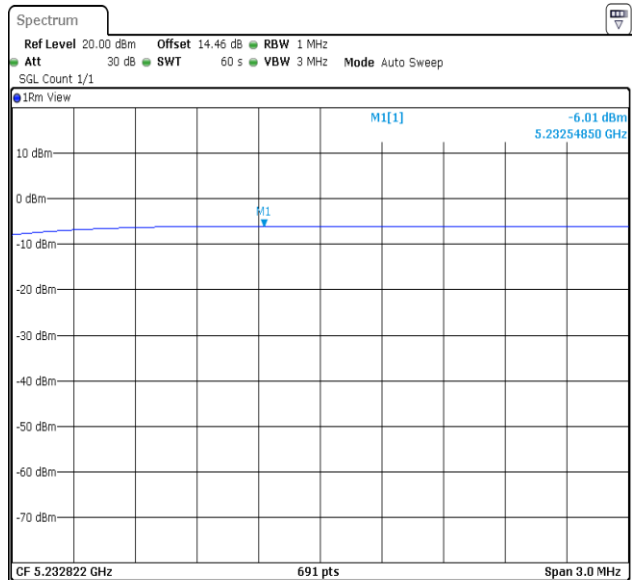


Date: 29 JAN 2026 13:55:54

802.11ac-VHT20 5240MHz-Power density

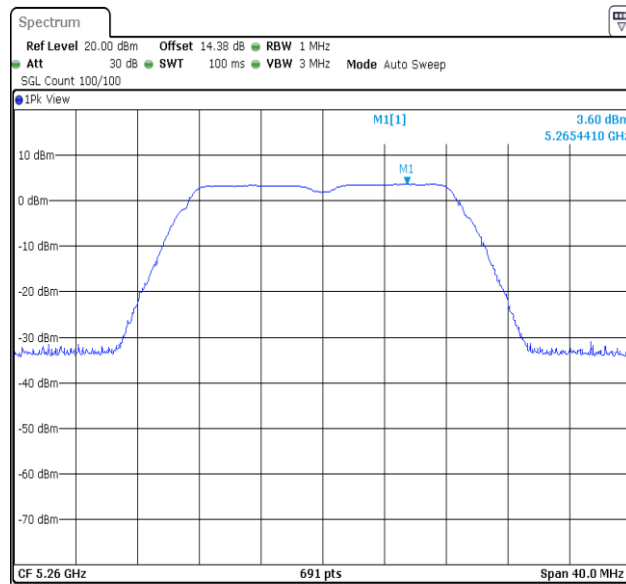


Date: 29 JAN 2026 14:05:22

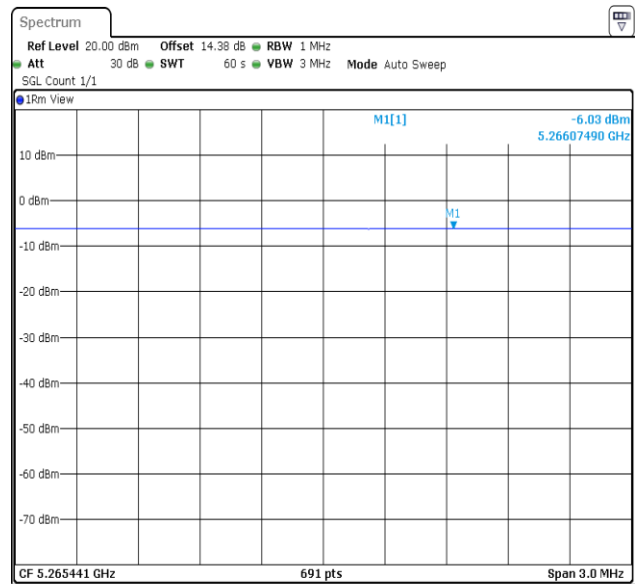


Date: 29 JAN 2026 14:06:26

802.11ac-VHT20 5260MHz-Power density

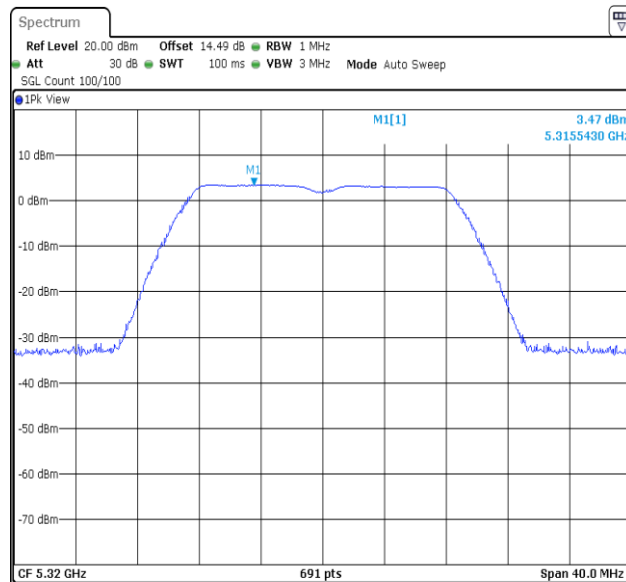


Date: 29 JAN 2026 14:14:12

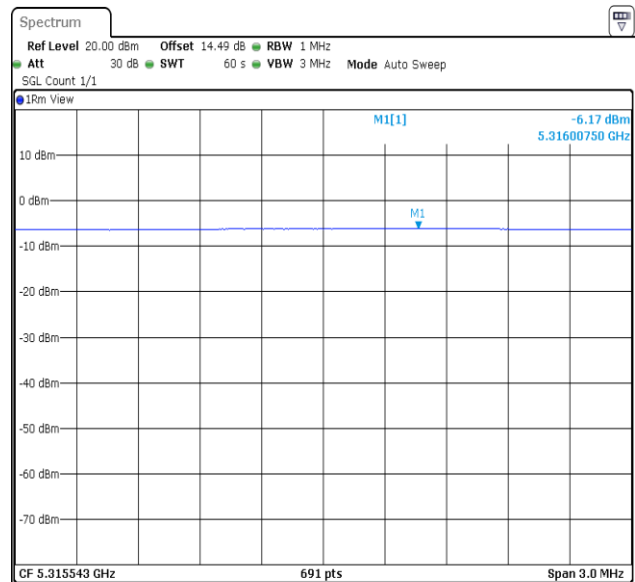


Date: 29 JAN 2026 14:15:16

802.11ac-VHT20 5320MHz-Power density

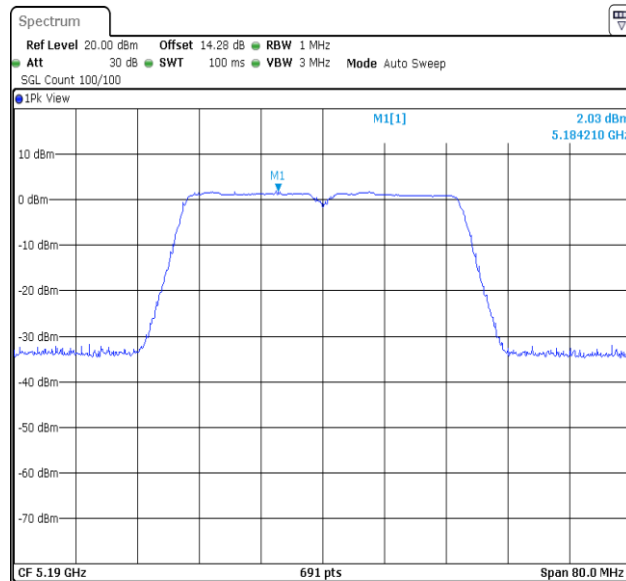


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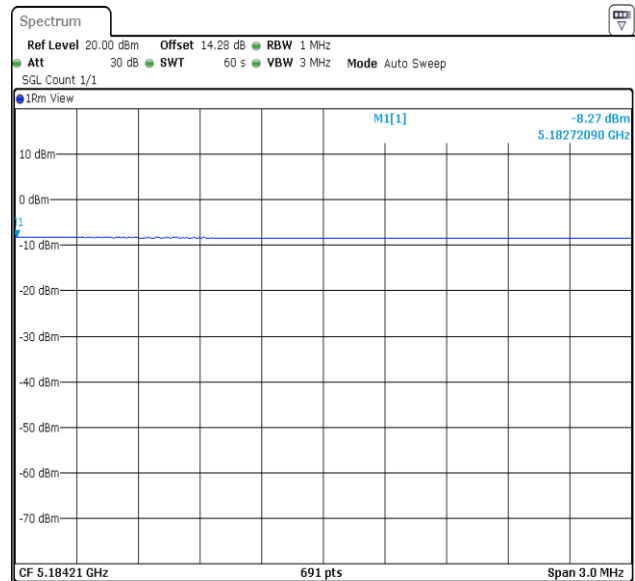


Date: 29 JAN 2026 14:19:43

802.11ac-VHT40 5190MHz-Power density

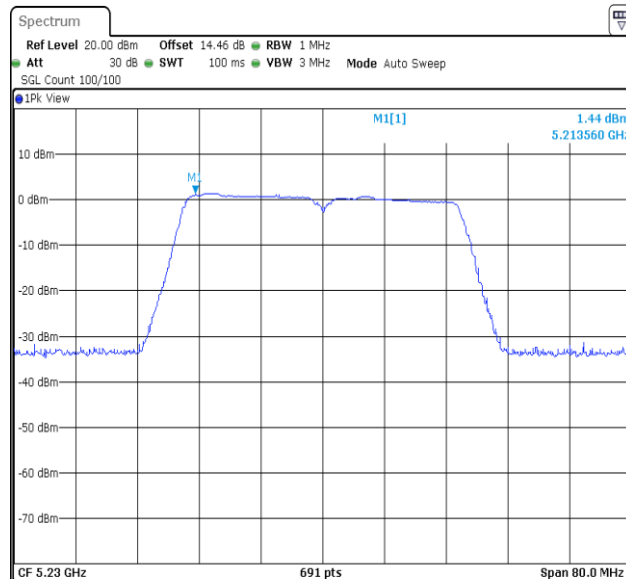


Date: 29 JAN 2026 14:23:23

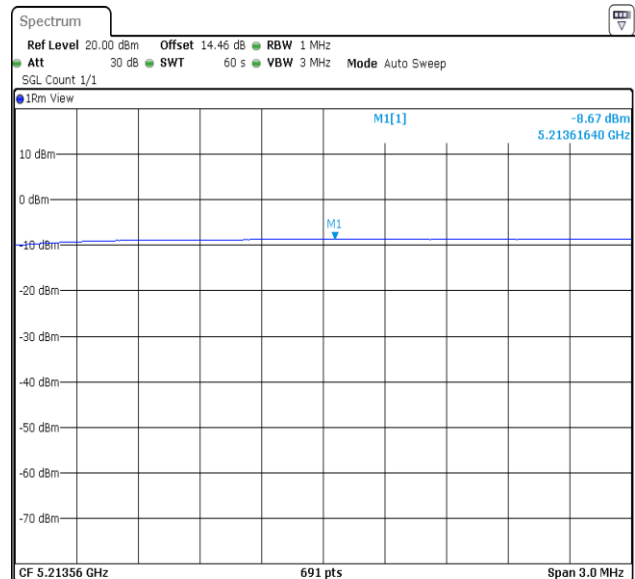


Date: 29 JAN 2026 14:24:27

802.11ac-VHT40 5230MHz-Power density

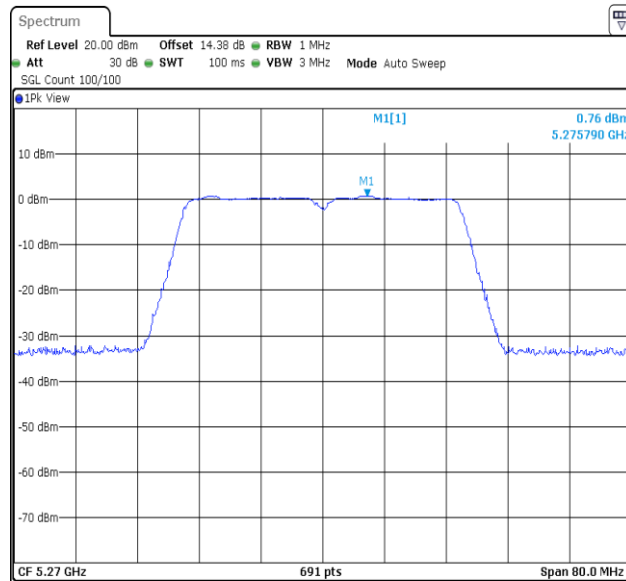


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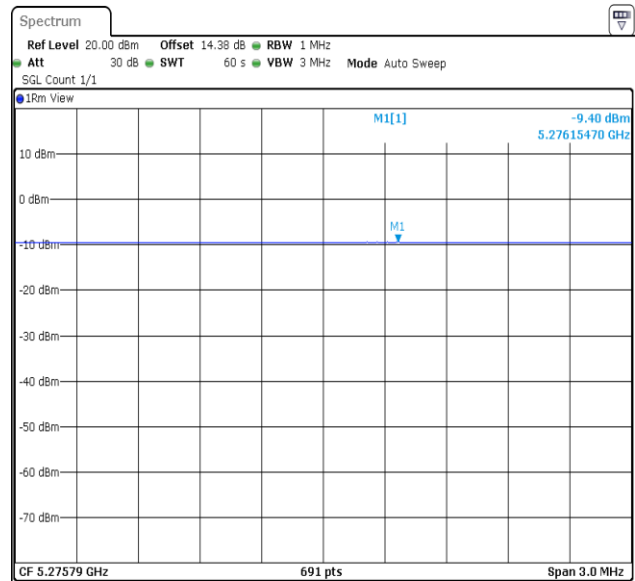


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802.11ac-VHT40 5270MHz-Power density

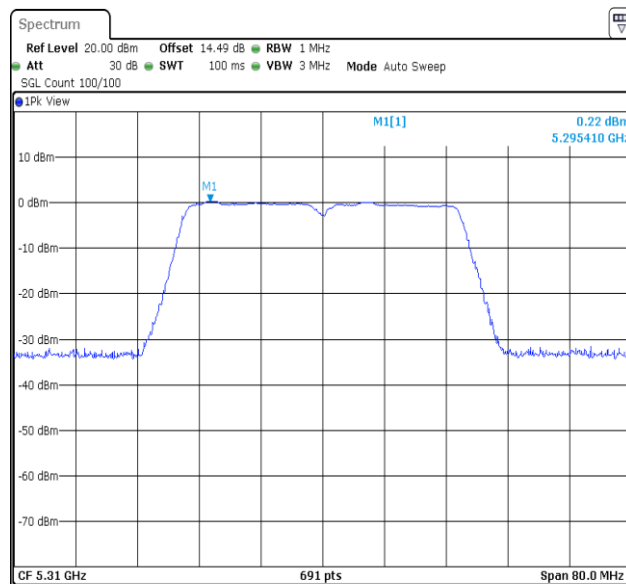


Date: 29 JAN 2026 14:36:50

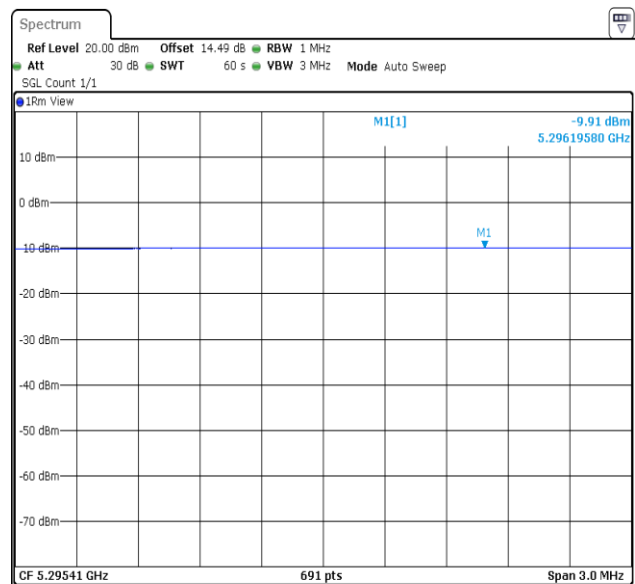


Date: 29 JAN 2026 14:37:54

802.11ac-VHT40 5310MHz-Power density

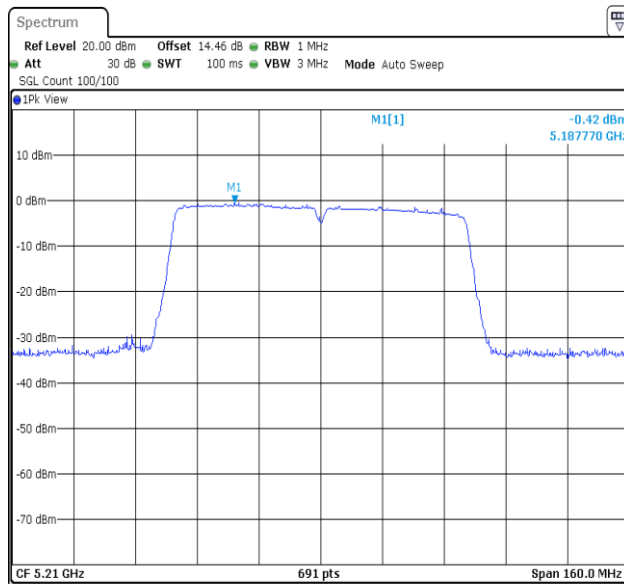


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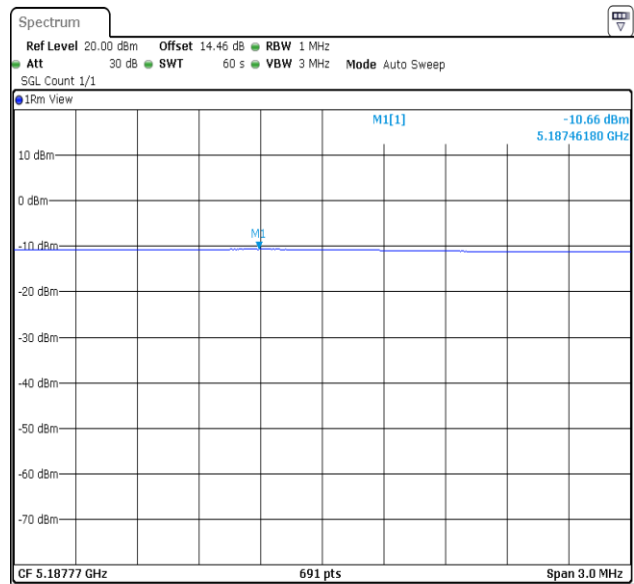


Date: 29 JAN 2026 14:56:17

802.11ac-VHT80 5210MHz-Power density

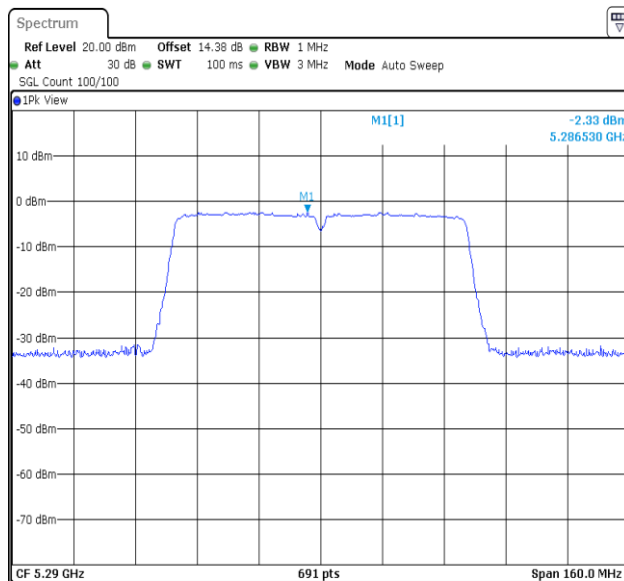


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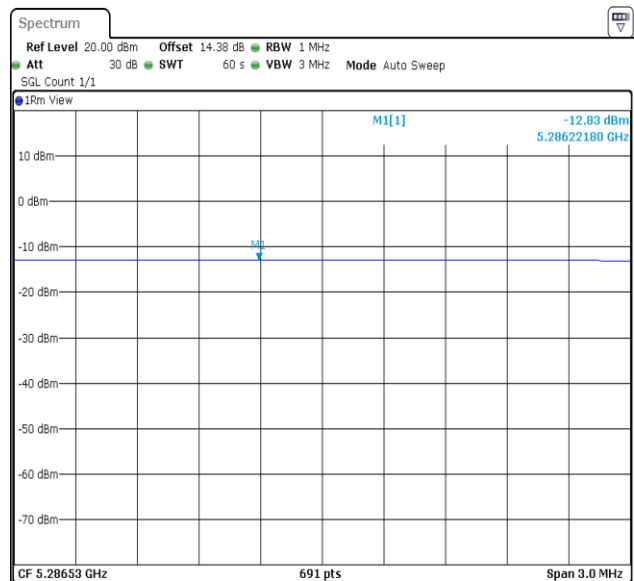


Date: 29 JAN 2026 15:00:59

802.11ac-VHT80 5290MHz-Power density

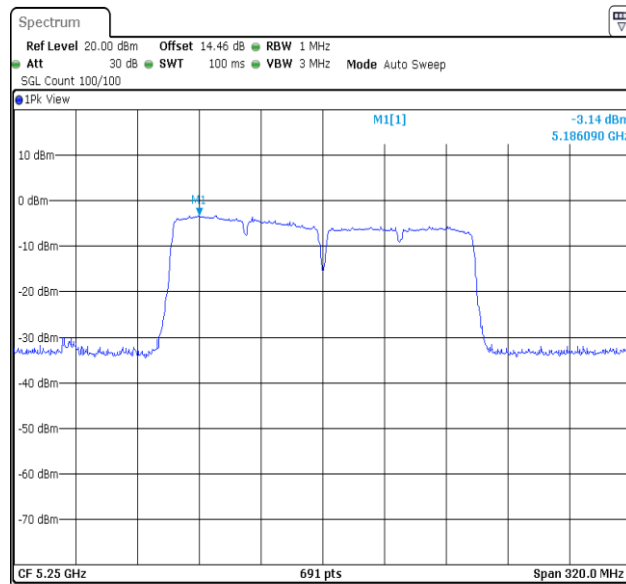


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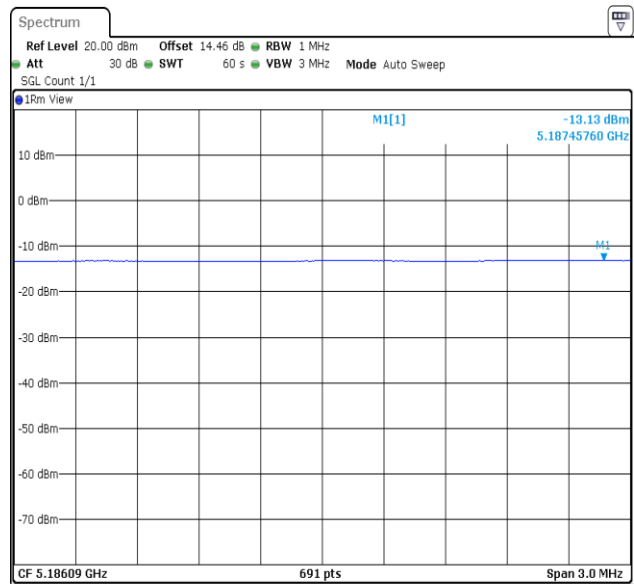


Date: 29 JAN 2026 15:05:17

802.11ac-VHT160 5250MHz-Power density

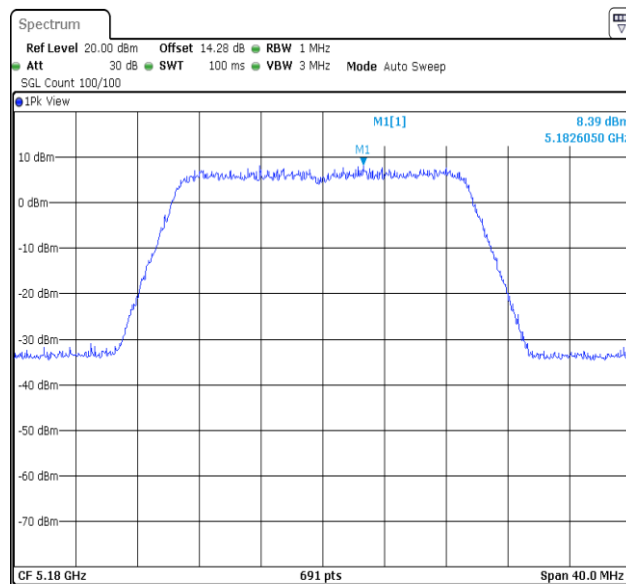


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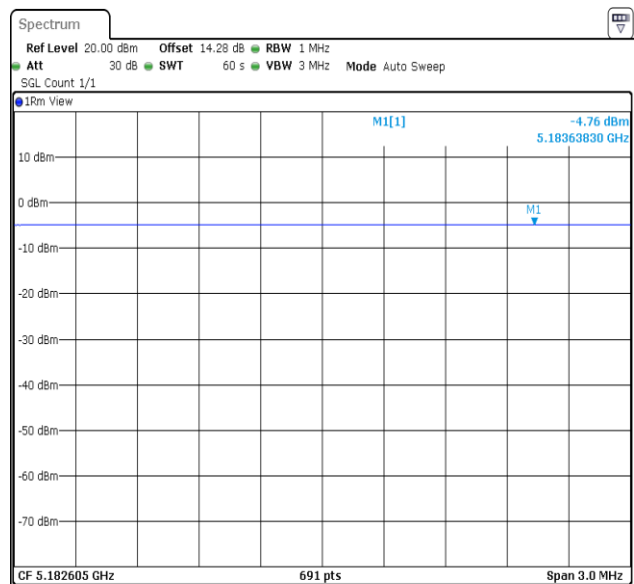


Date: 29 JAN 2026 15:12:32

802.11ax-VHT20 5180MHz-Power density

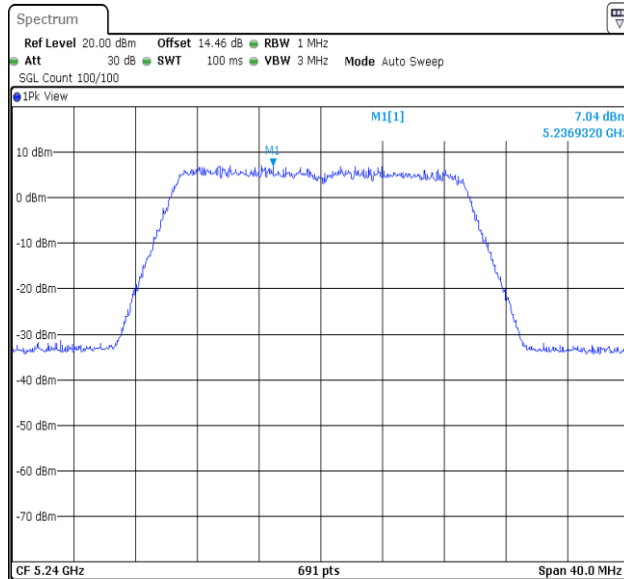


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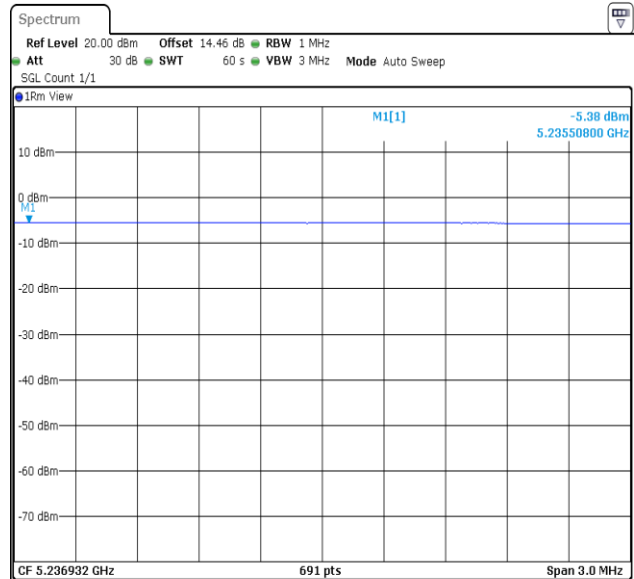


Date: 29 JAN 2026 15:18:51

802.11ax-VHT20 5240MHz-Power density

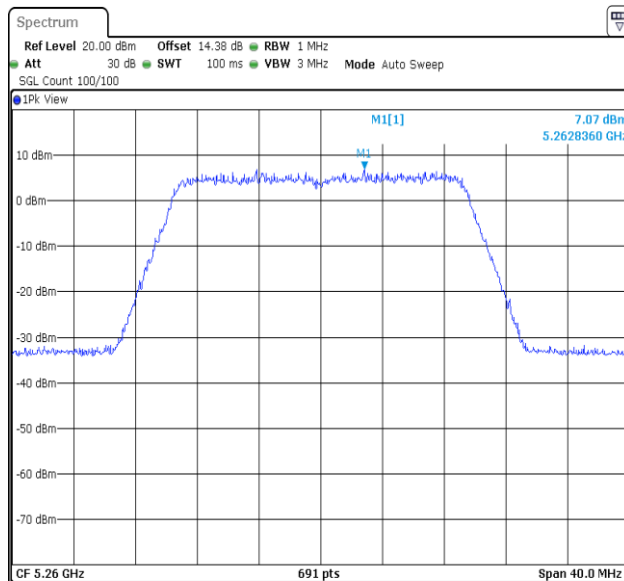


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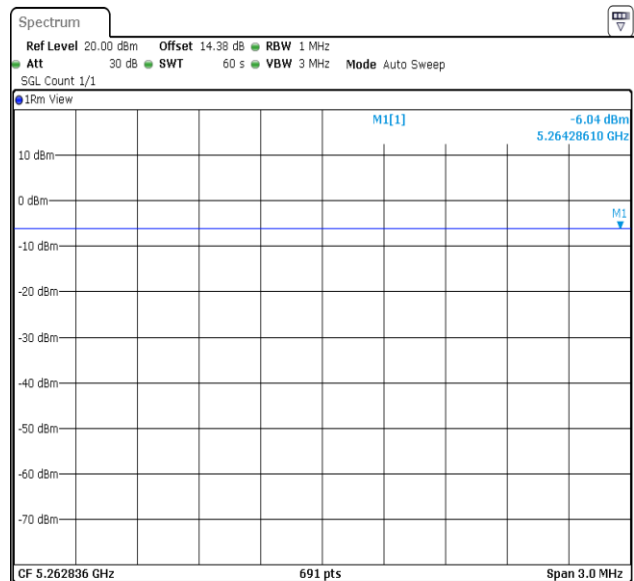


Date: 29 JAN 2026 15:26:03

802.11ax-VHT20 5260MHz-Power density

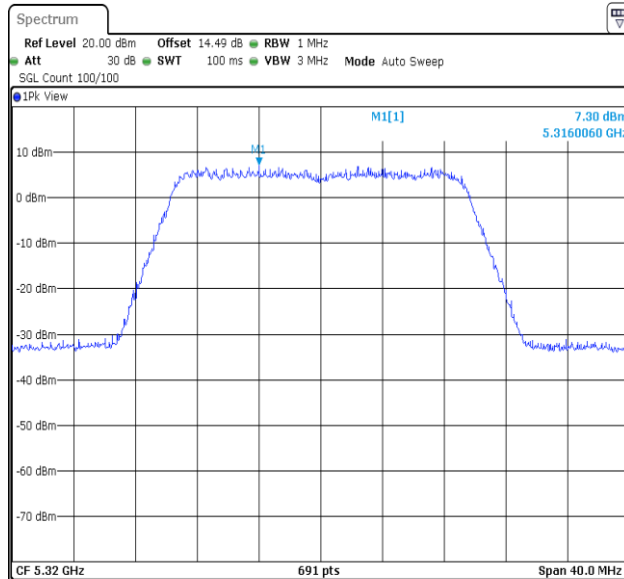


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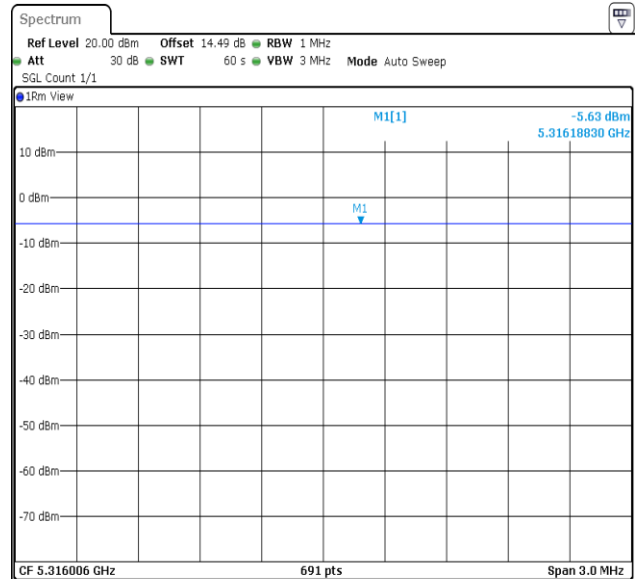


Date: 29 JAN 2026 15:34:02

802.11ax-VHT20 5320MHz-Power density

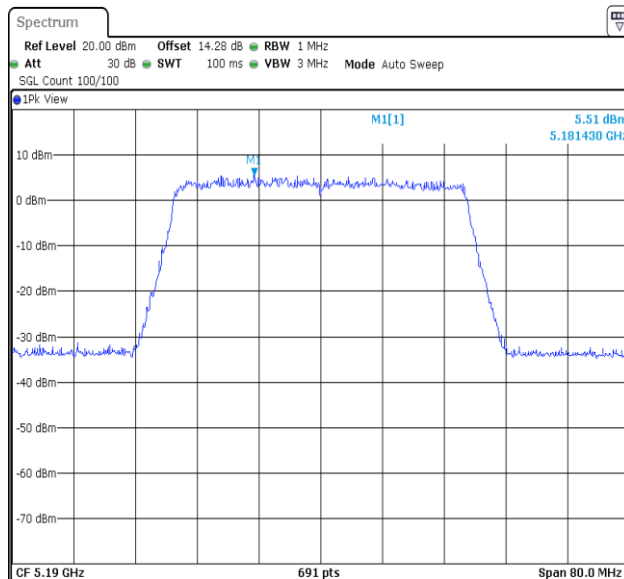


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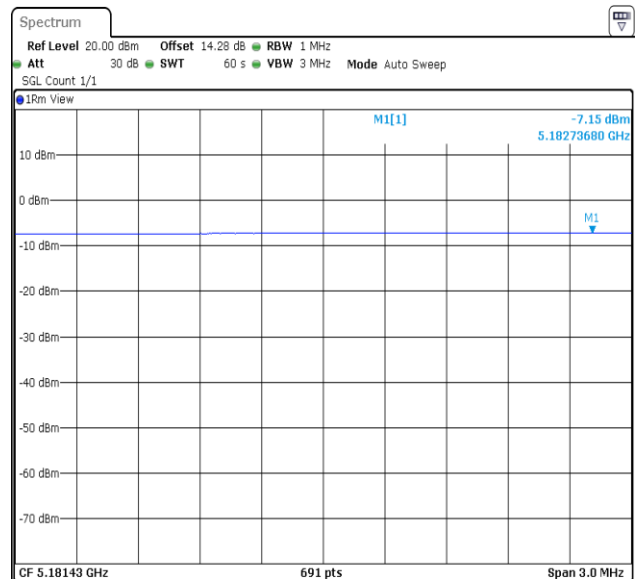


Date: 29 JAN 2026 15:41:09

802.11ax-VHT40 5190MHz-Power density

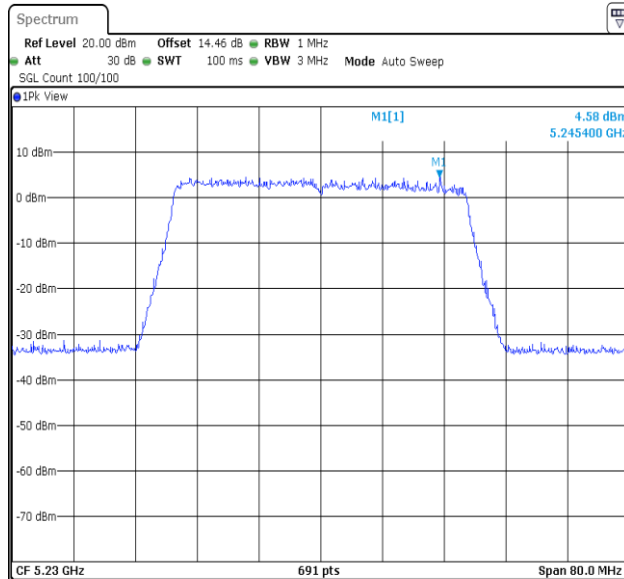


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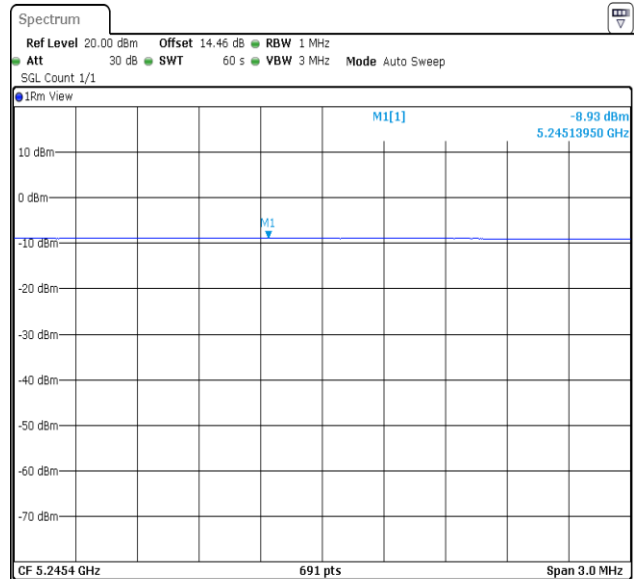


Date: 29 JAN 2026 15:49:39

802.11ax-VHT40 5230MHz-Power density

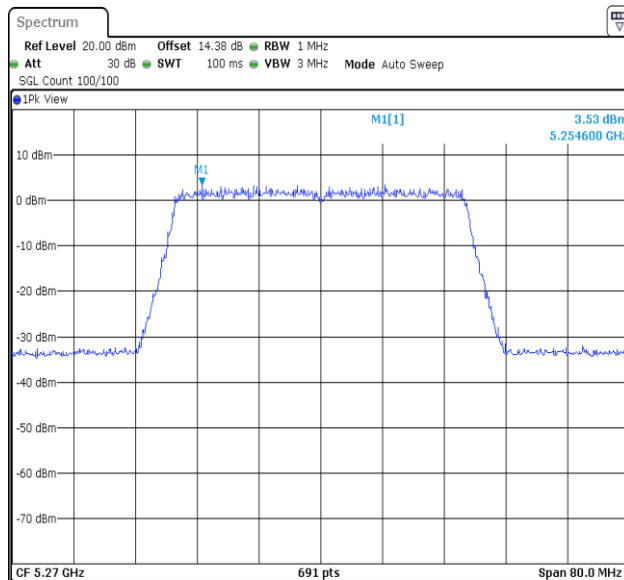


Date: 29 JAN 2026 15:57:26

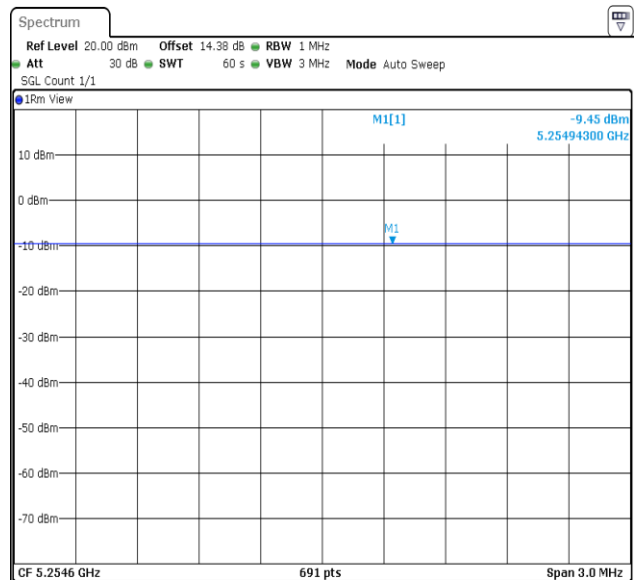


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802.11ax-VHT40 5270MHz-Power density

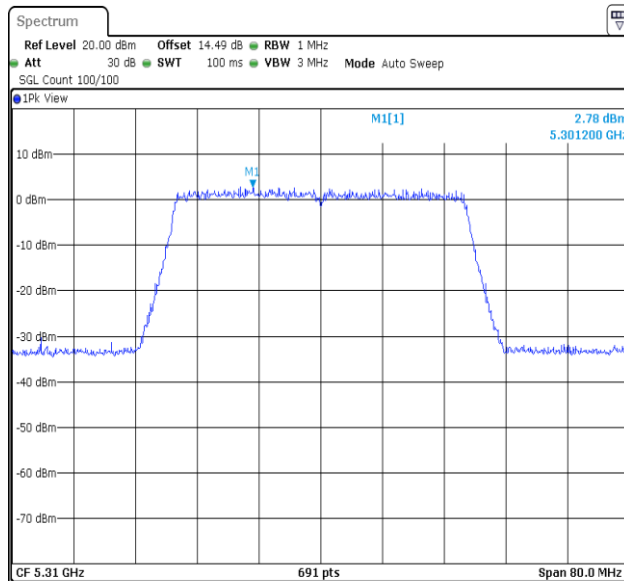


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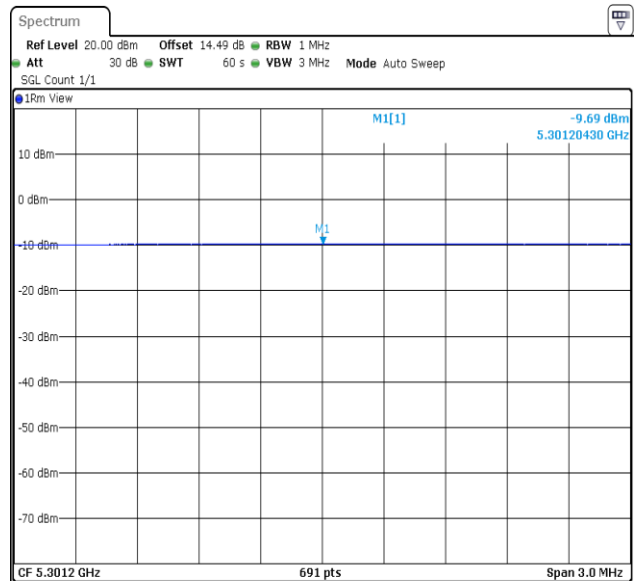


Date: 29 JAN 2026 16:06:22

802.11ax-VHT40 5310MHz-Power density

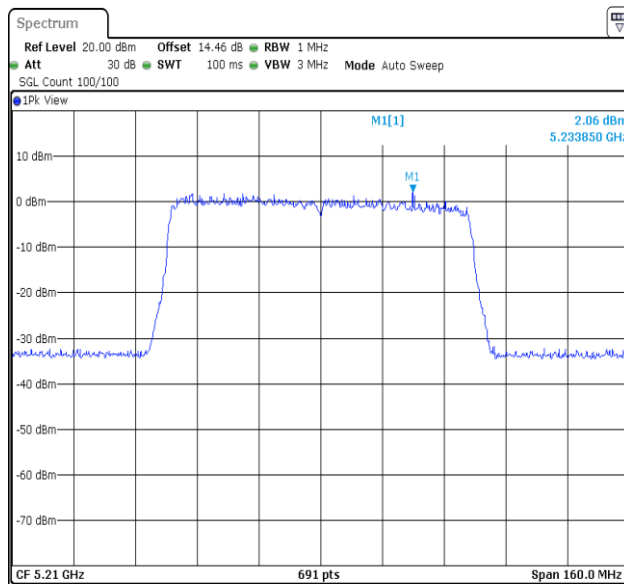


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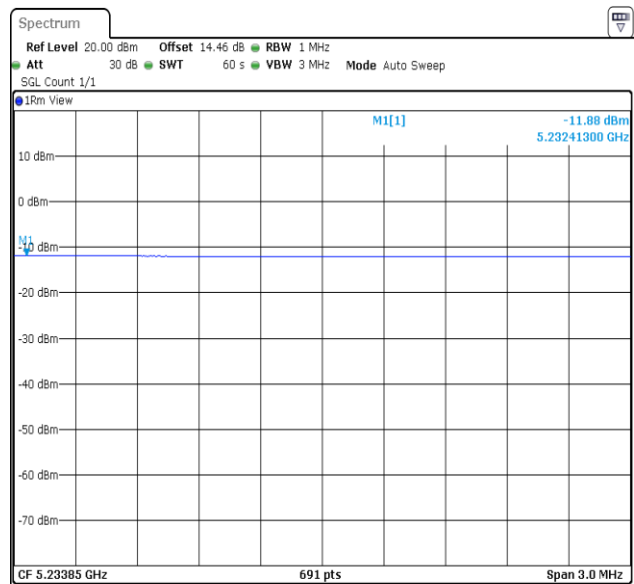


Date: 29 JAN 2026 16:10:54

802.11ax-VHT80 5210MHz-Power density

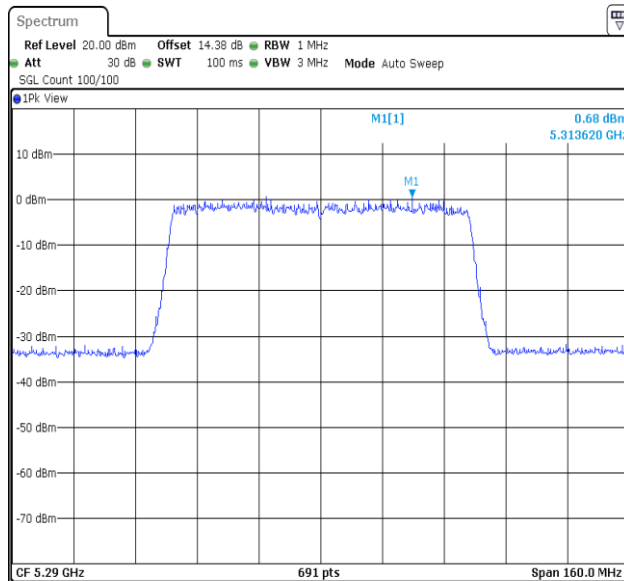


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Date: 29 JAN 2026 16:18:45

802.11ax-VHT80 5290MHz-Power density

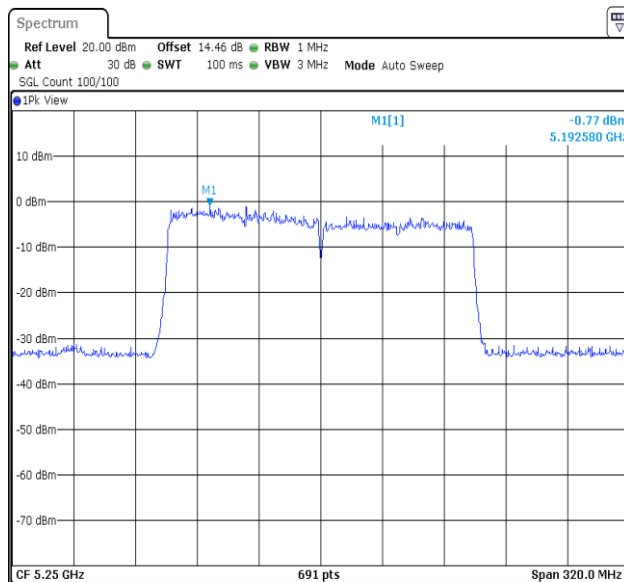


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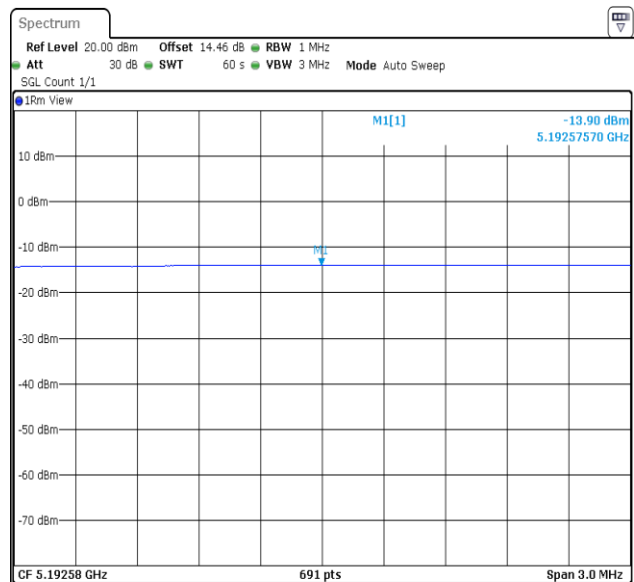


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802.11ax-VHT160 5250MHz-Power density



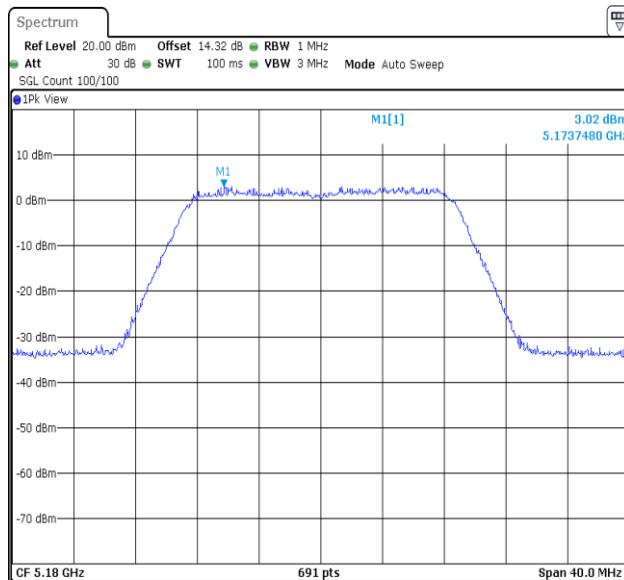
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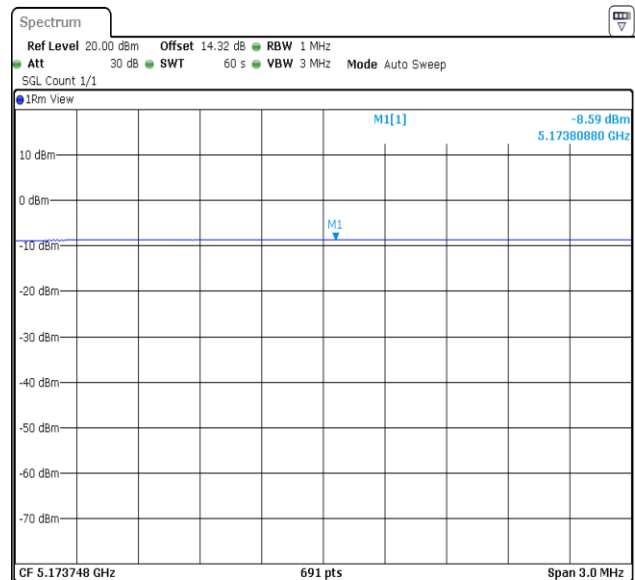
Date: 29 JAN 2026 16:36:53

Chain 1

802.11ac-VHT20 5180MHz-Power density

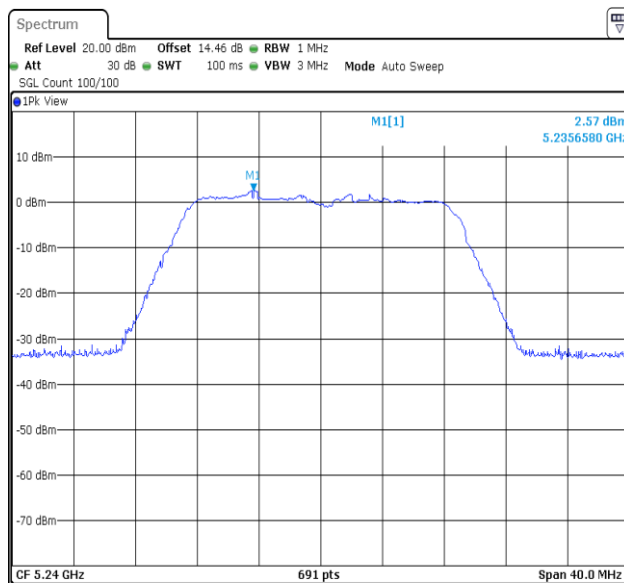


Date: 29 JAN 2026 13:56:16

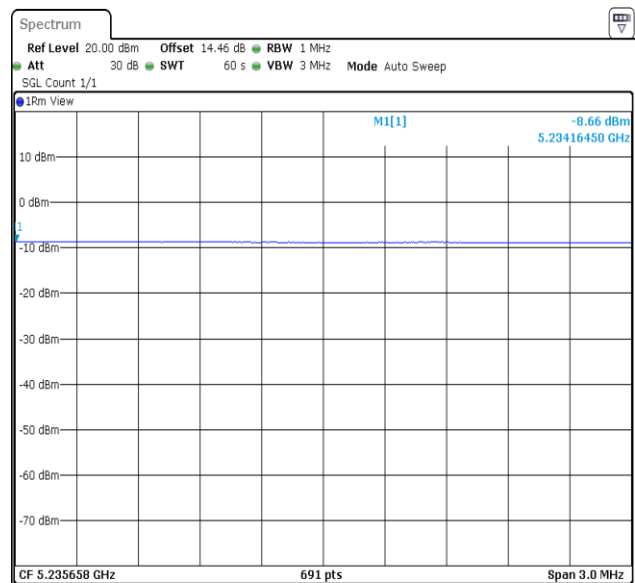


Date: 29 JAN 2026 13:57:20

802.11ac-VHT20 5240MHz-Power density

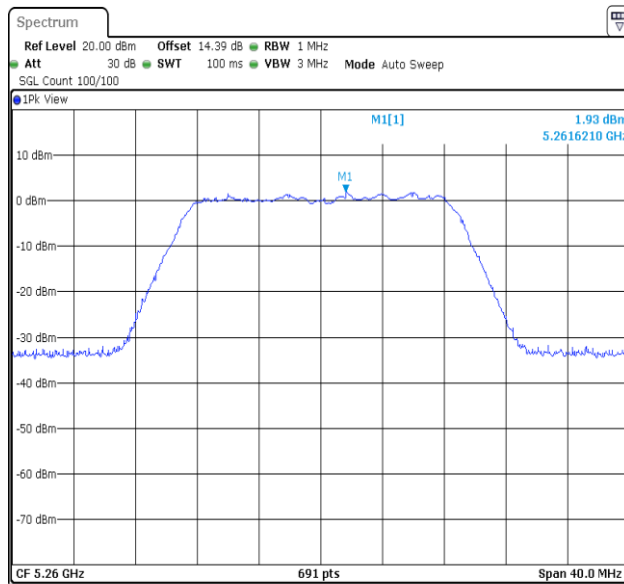


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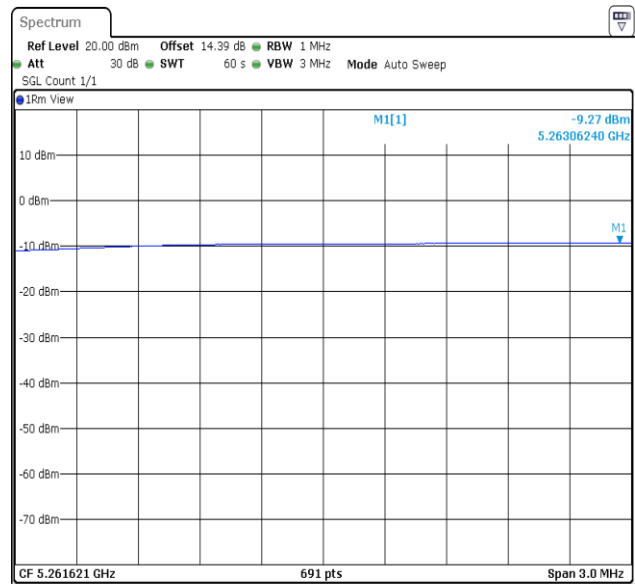


Date: 29 JAN 2026 14:07:51

802.11ac-VHT20 5260MHz-Power density

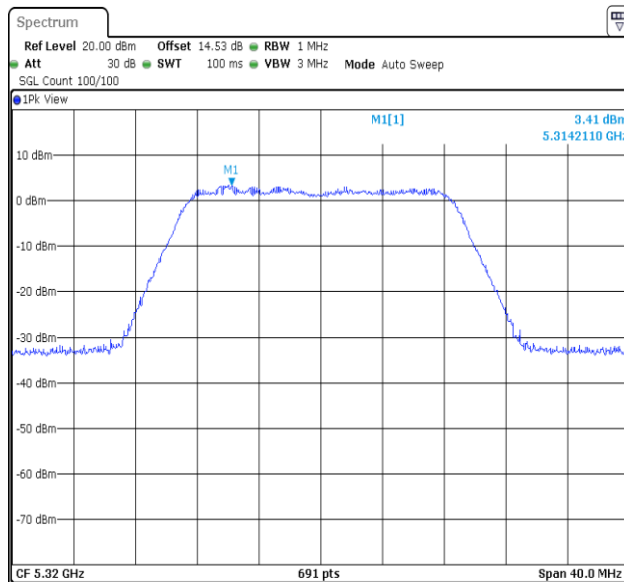


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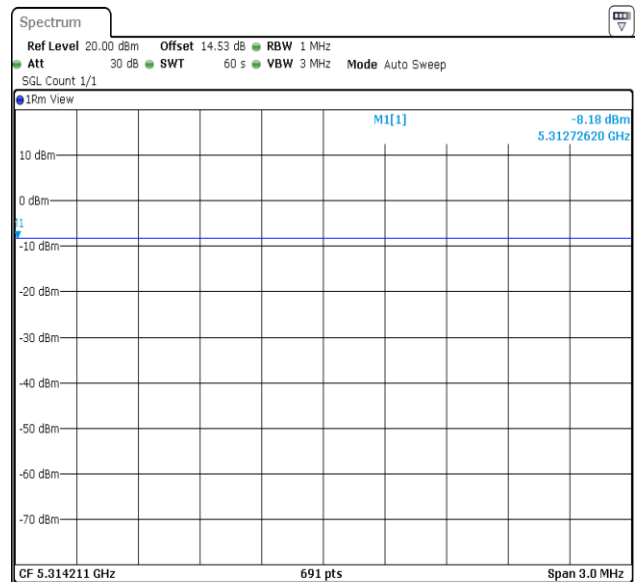


Date: 29 JAN 2026 14:16:42

802.11ac-VHT20 5320MHz-Power density

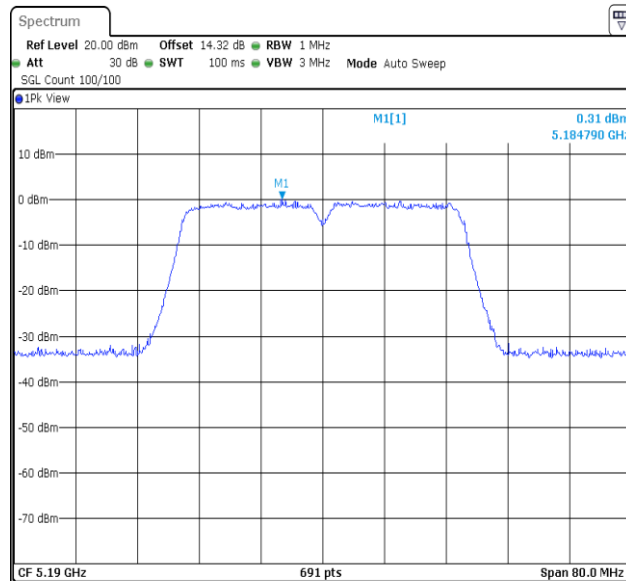


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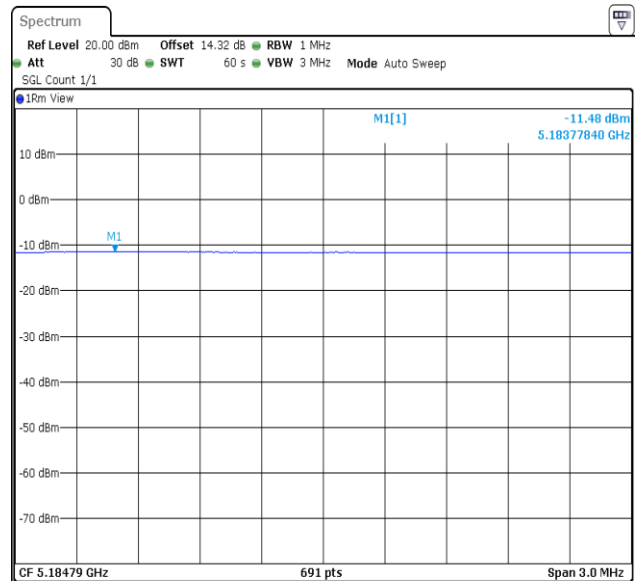


Date: 29 JAN 2026 14:21:09

802.11ac-VHT40 5190MHz-Power density

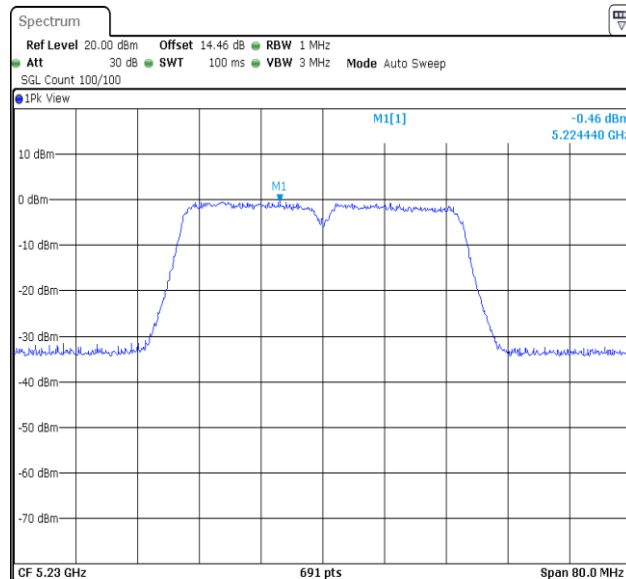


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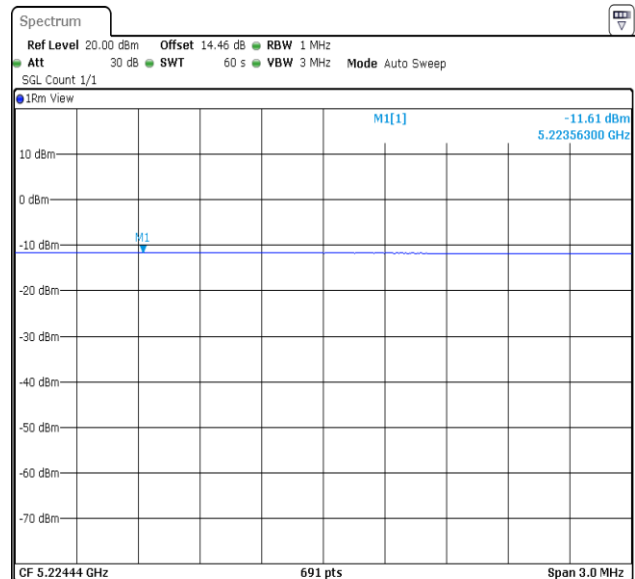


Date: 29 JAN 2026 14:25:53

802.11ac-VHT40 5230MHz-Power density

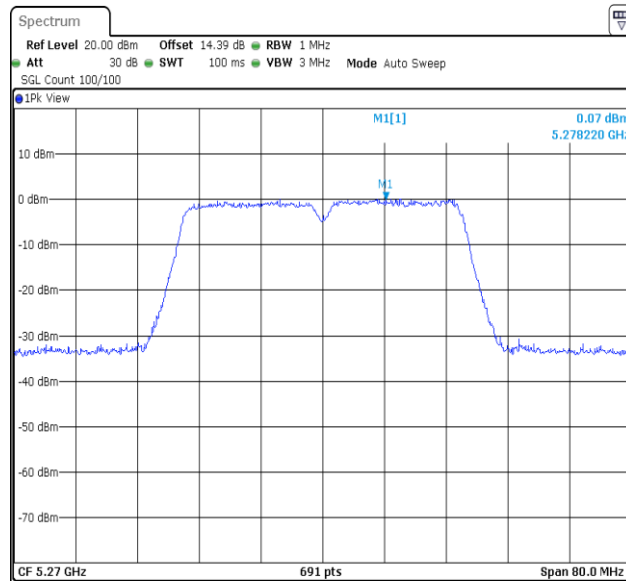


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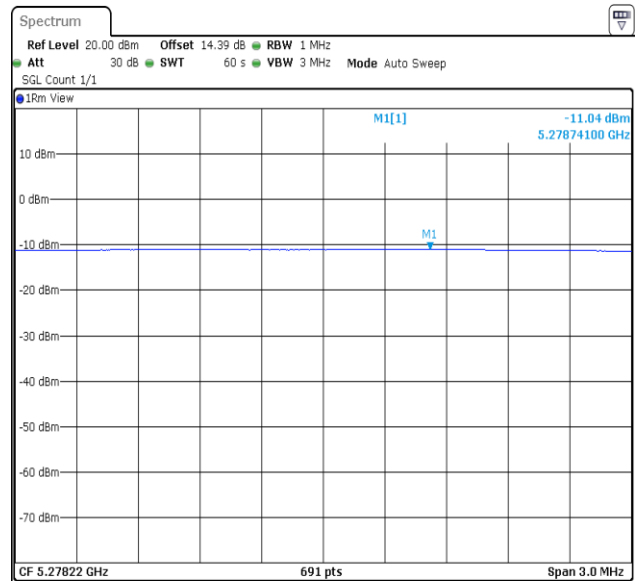


Date: 29 JAN 2026 14:32:12

802.11ac-VHT40 5270MHz-Power density

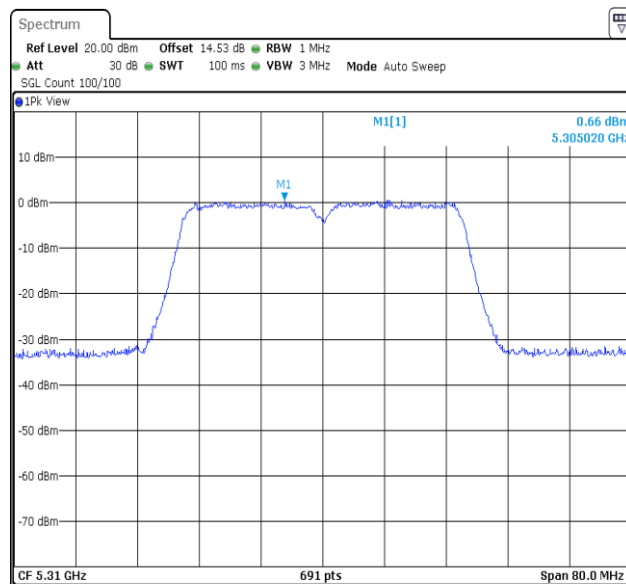


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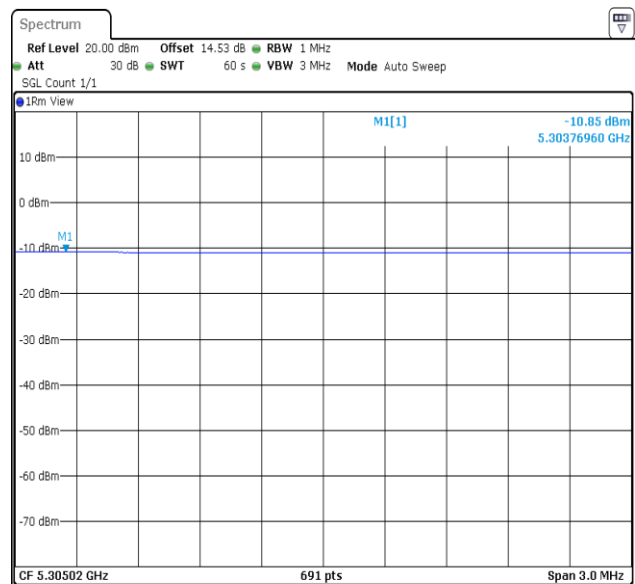


Date: 29 JAN 2026 14:39:20

802.11ac-VHT40 5310MHz-Power density

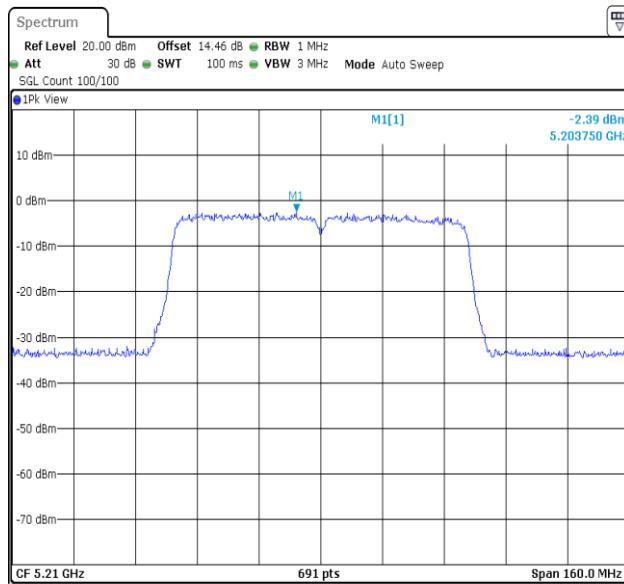


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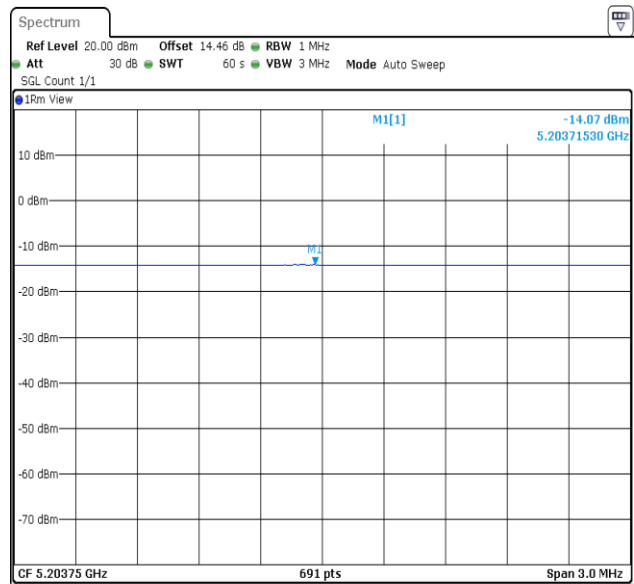


Date: 29 JAN 2026 14:57:44

802.11ac-VHT80 5210MHz-Power density

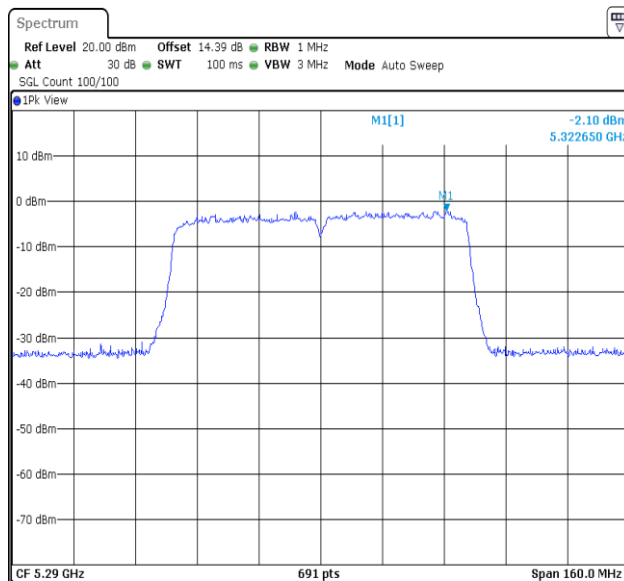


Date: 29 JAN 2026 15:01:22

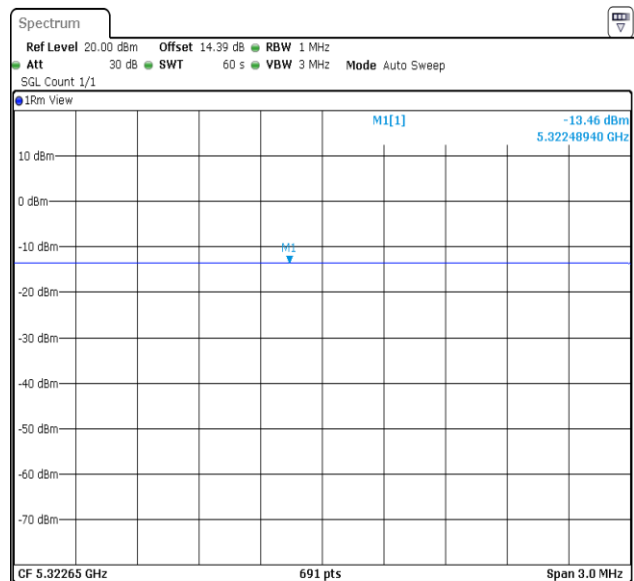


Date: 29 JAN 2026 15:02:25

802.11ac-VHT80 5290MHz-Power density

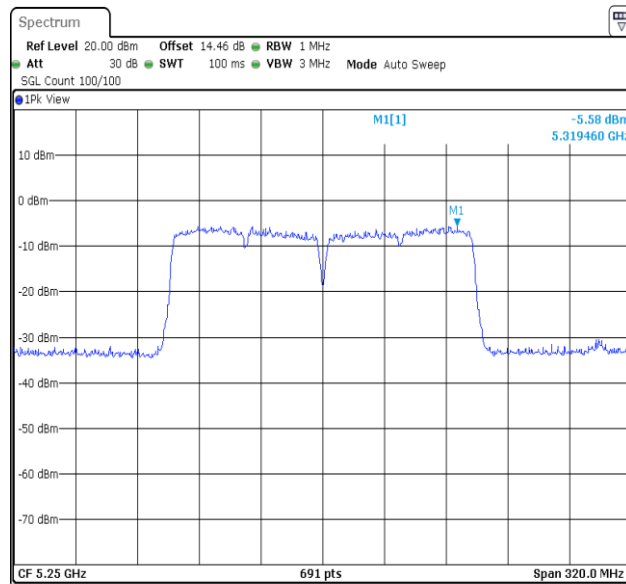


Date: 29 JAN 2026 15:05:39

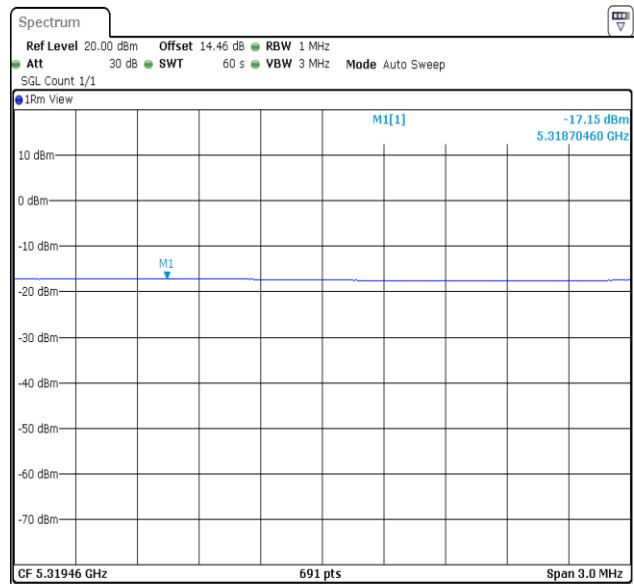


Date: 29 JAN 2026 15:06:43

802.11ac-VHT160 5250MHz-Power density

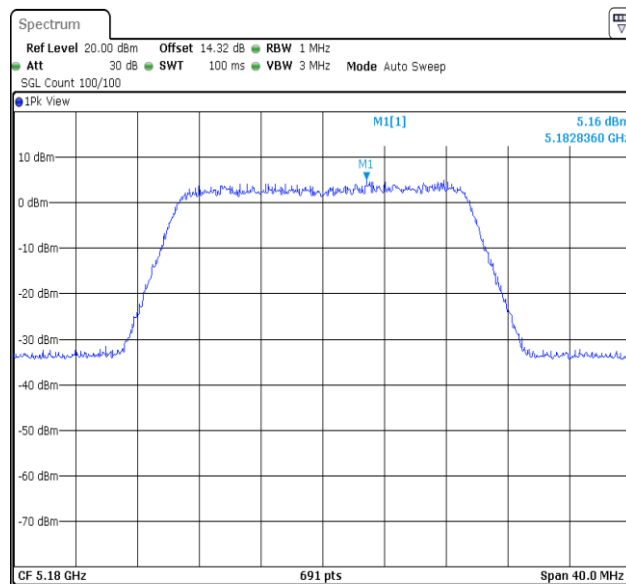


Date: 29 JAN 2026 15:12:54

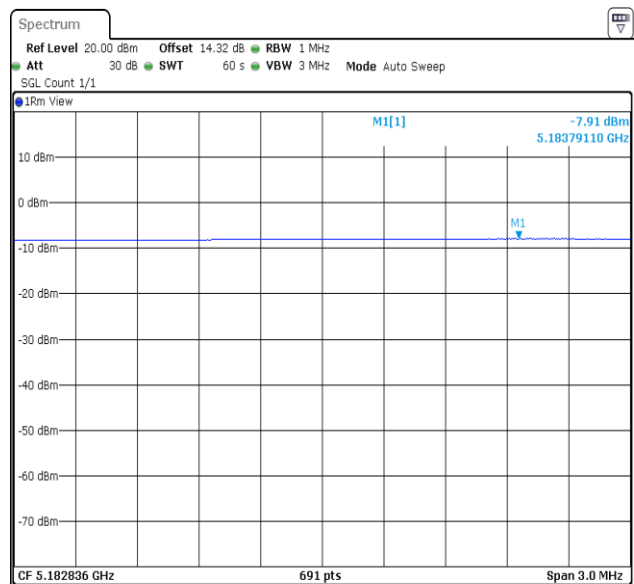


Date: 29 JAN 2026 15:13:58

802.11ax-VHT20 5180MHz-Power density

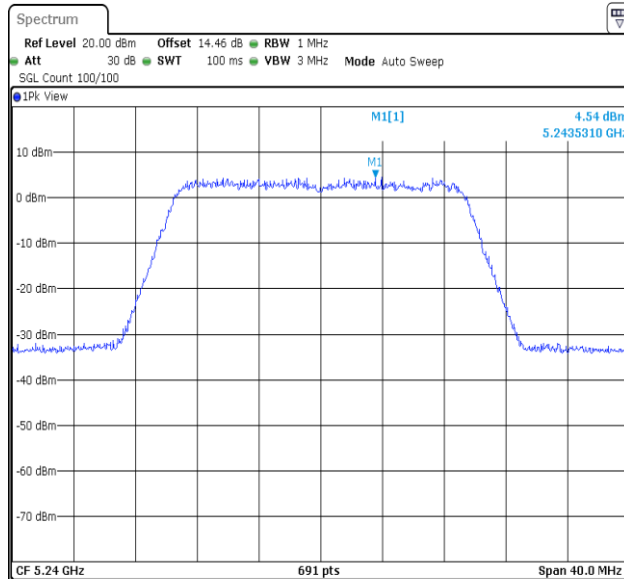


Date: 29 JAN 2026 15:19:13

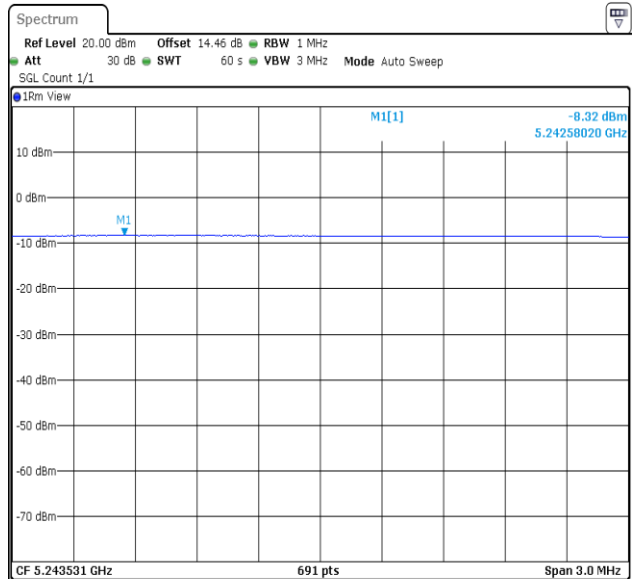


Date: 29 JAN 2026 15:20:17

802.11ax-VHT20 5240MHz-Power density

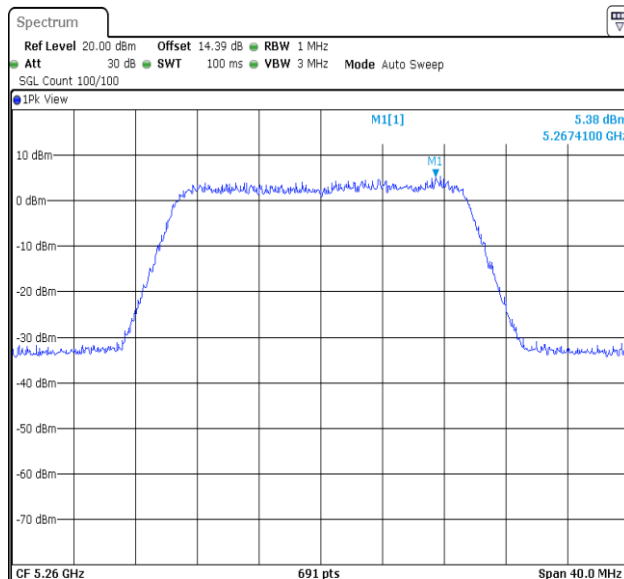


Date: 29 JAN 2026 15:26:25

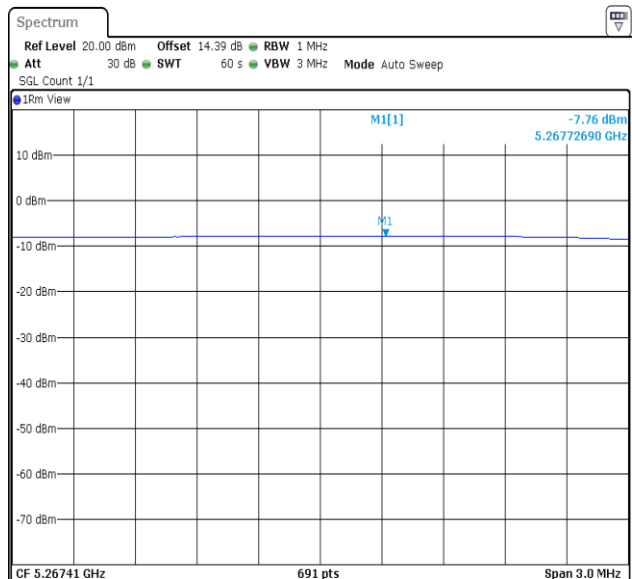


Date: 29 JAN 2026 15:27:28

802.11ax-VHT20 5260MHz-Power density

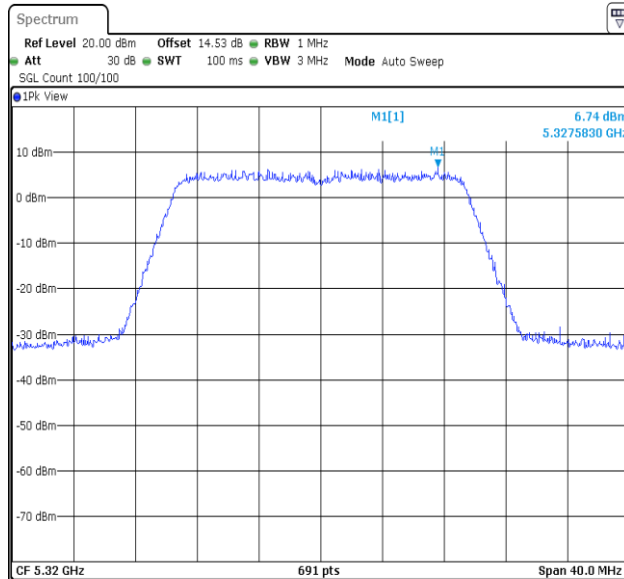


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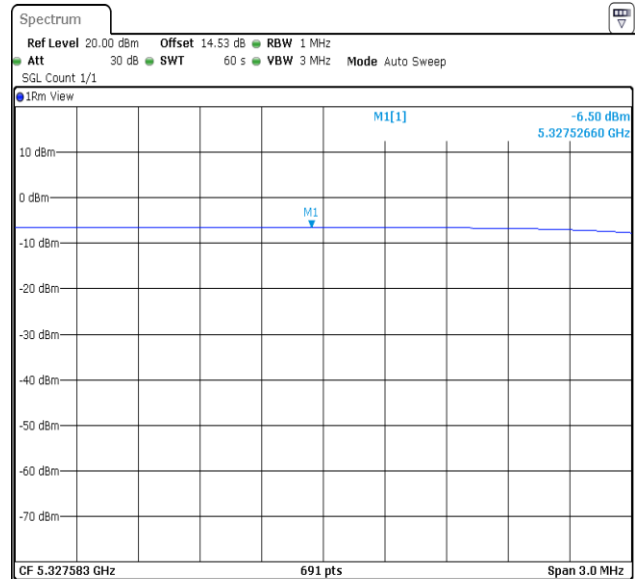


Date: 29 JAN 2026 15:35:29

802.11ax-VHT20 5320MHz-Power density

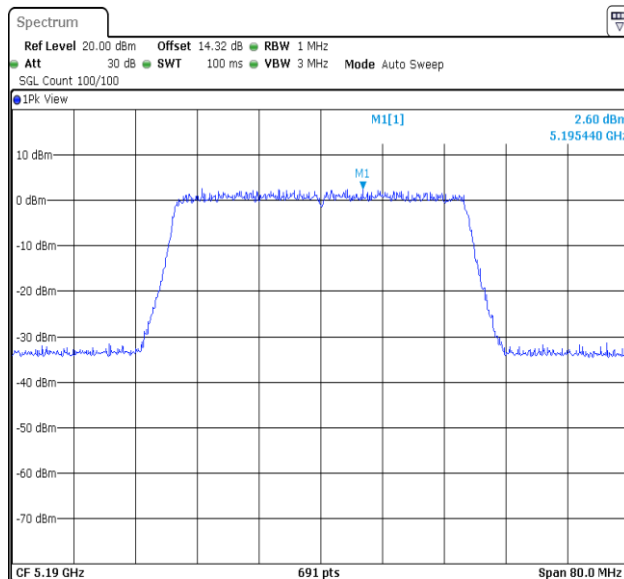


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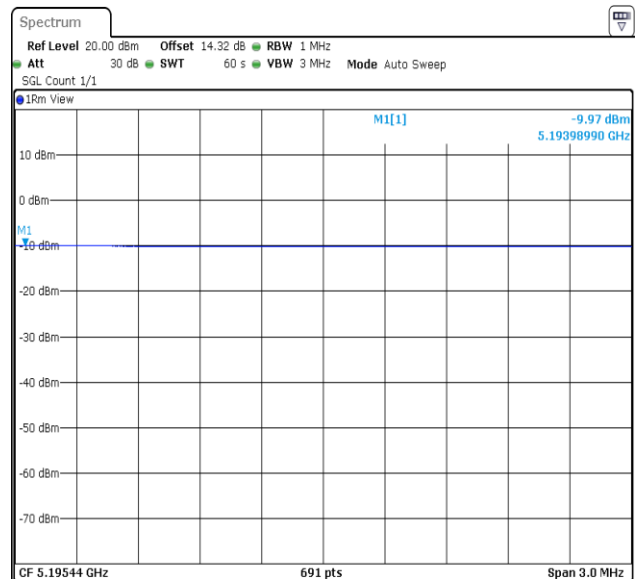


Date: 29 JAN 2026 15:42:35

802.11ax-VHT40 5190MHz-Power density

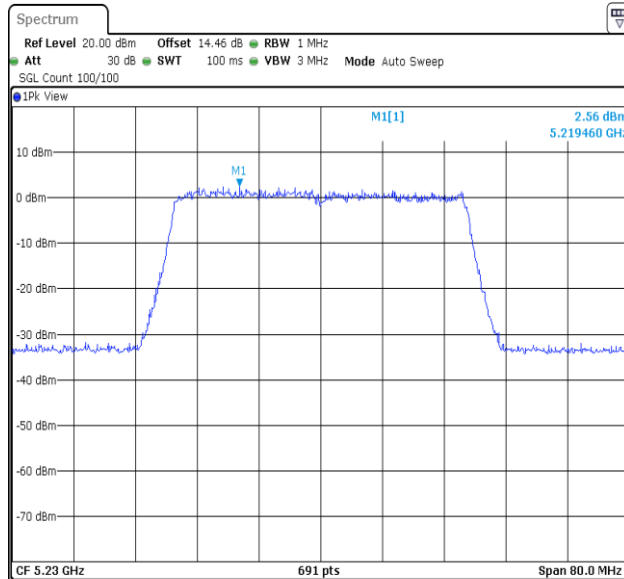


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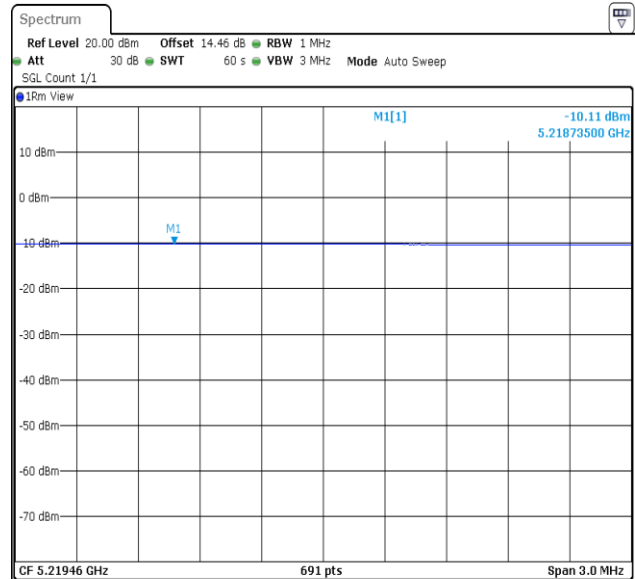


Date: 29 JAN 2026 15:51:05

802.11ax-VHT40 5230MHz-Power density

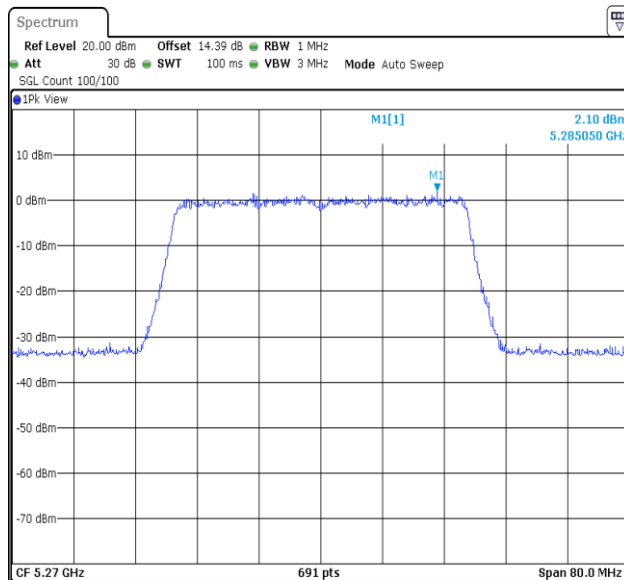


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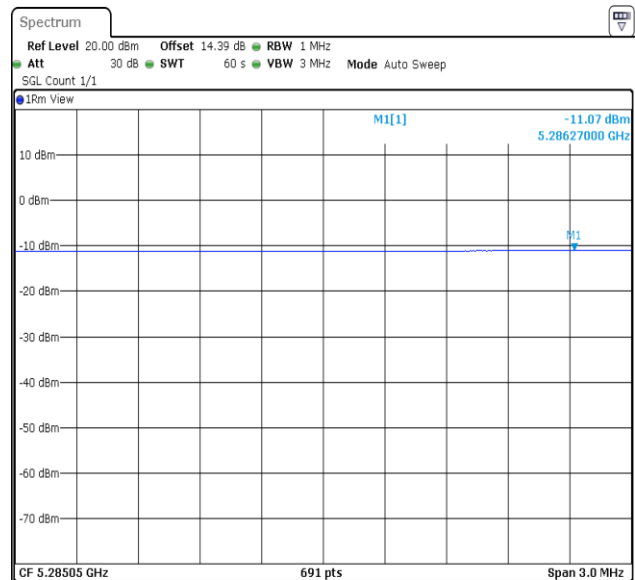


Date: 29 JAN 2026 15:59:56

802.11ax-VHT40 5270MHz-Power density

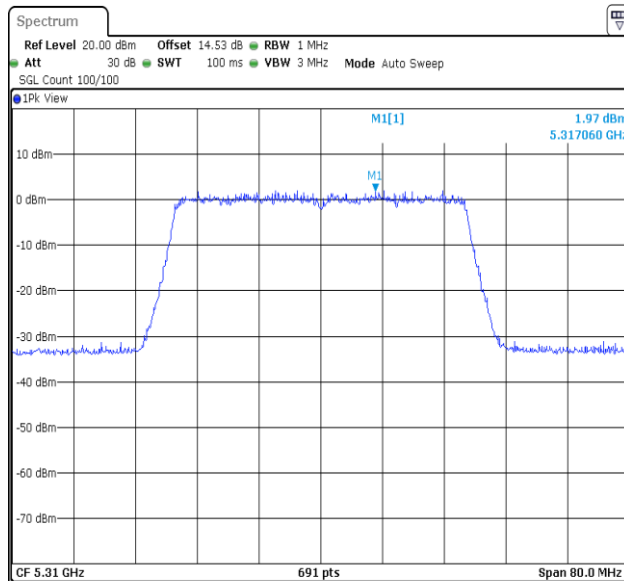


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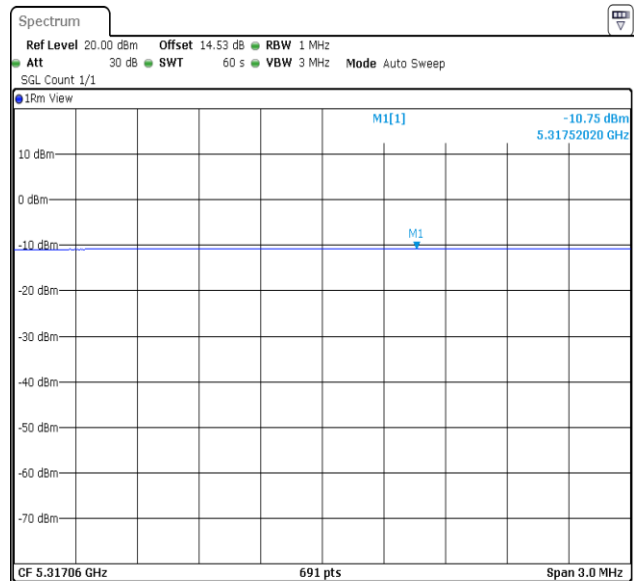


Date: 29 JAN 2026 16:07:48

802.11ax-VHT40 5310MHz-Power density

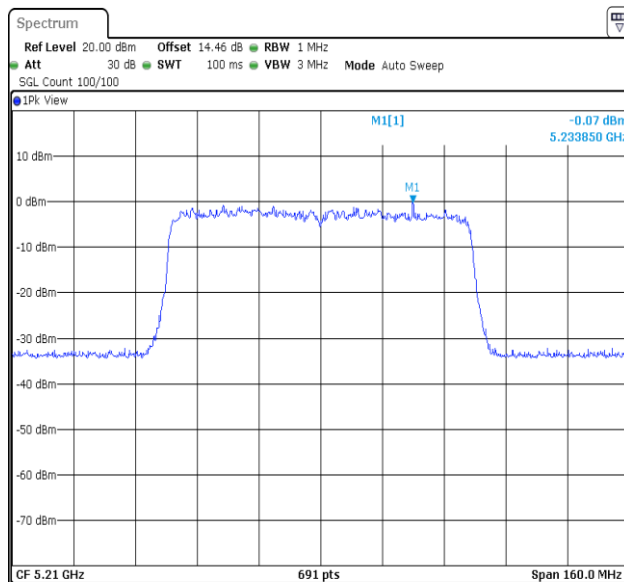


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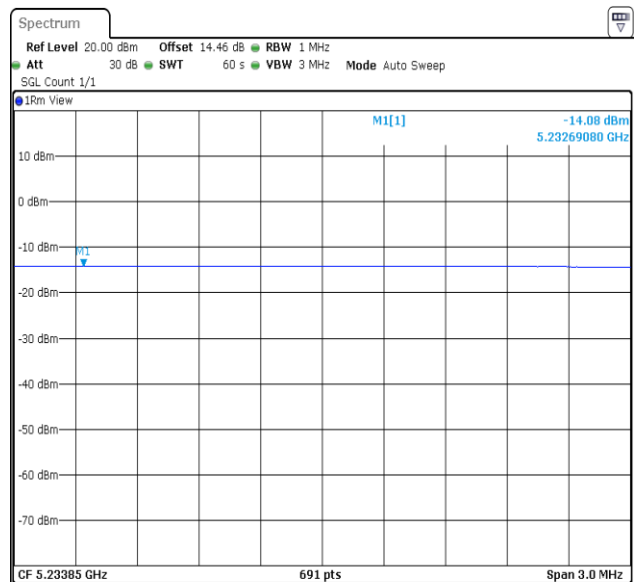


Date: 29 JAN 2026 16:12:21

802.11ax-VHT80 5210MHz-Power density

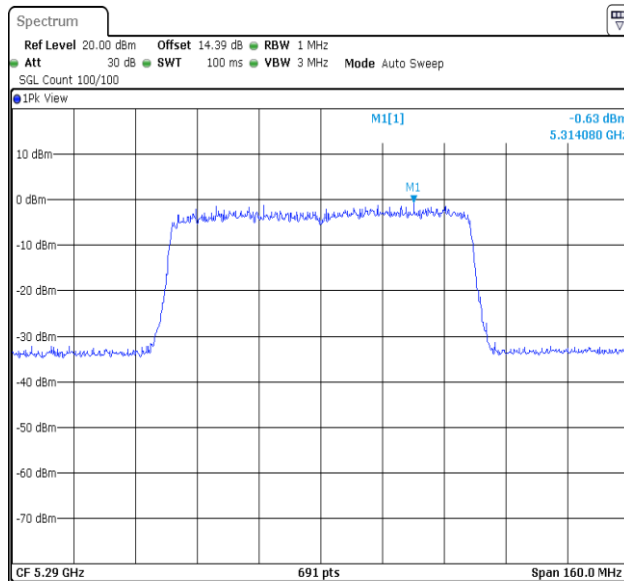


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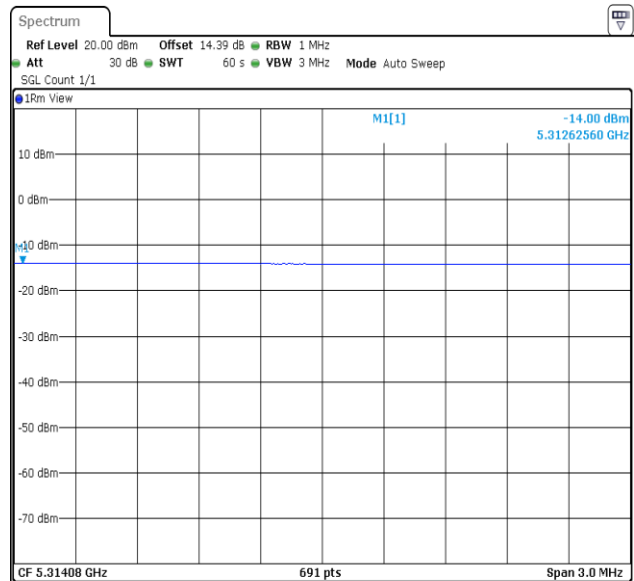


Date: 29 JAN 2026 16:20:11

802.11ax-VHT80 5290MHz-Power density

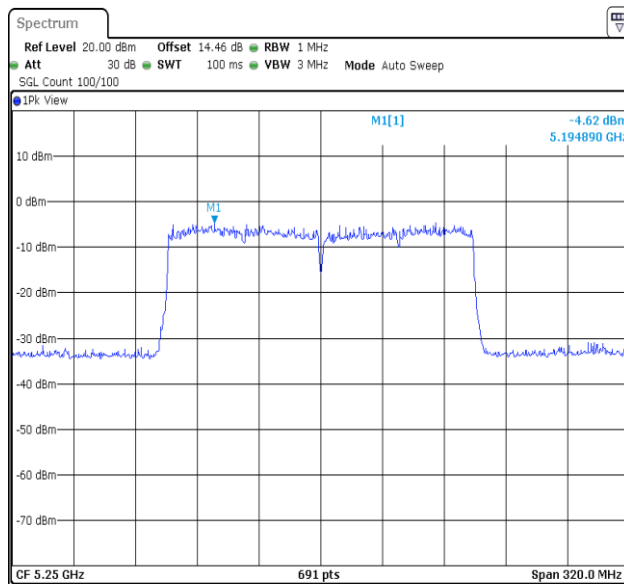


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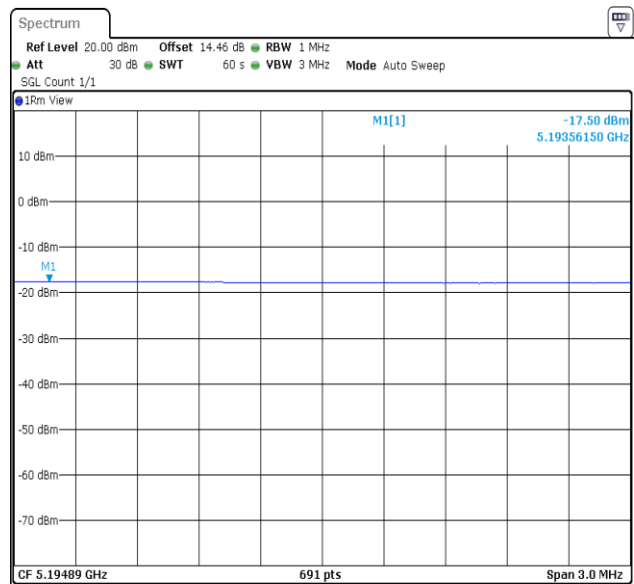


Date: 29 JAN 2026 16:31:33

802.11ax-VHT160 5250MHz-Power density



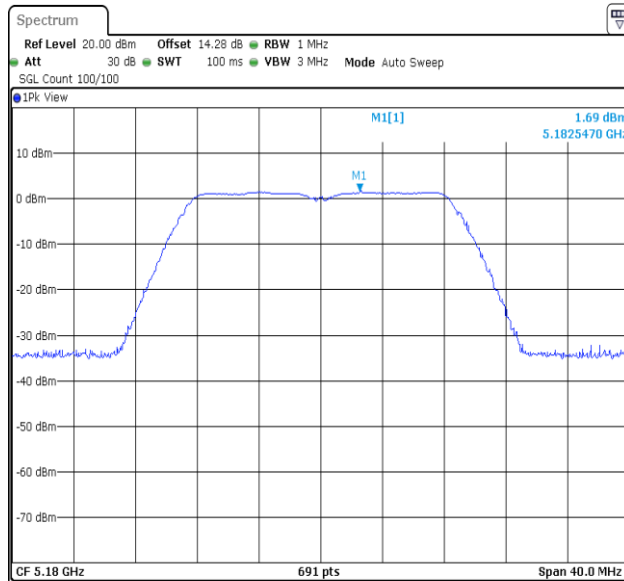
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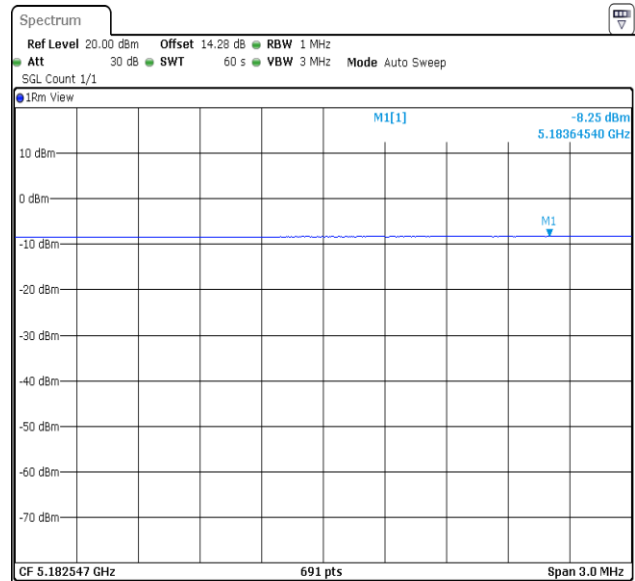
Date: 29 JAN 2026 16:38:20

Beamforming
Chain 0

802.11ac-VHT20 5180MHz-Power density

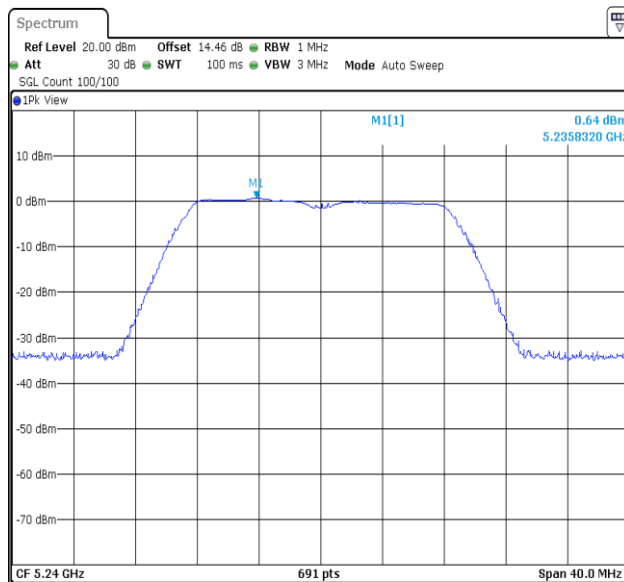


Date: 28 JAN 2026 13:36:12

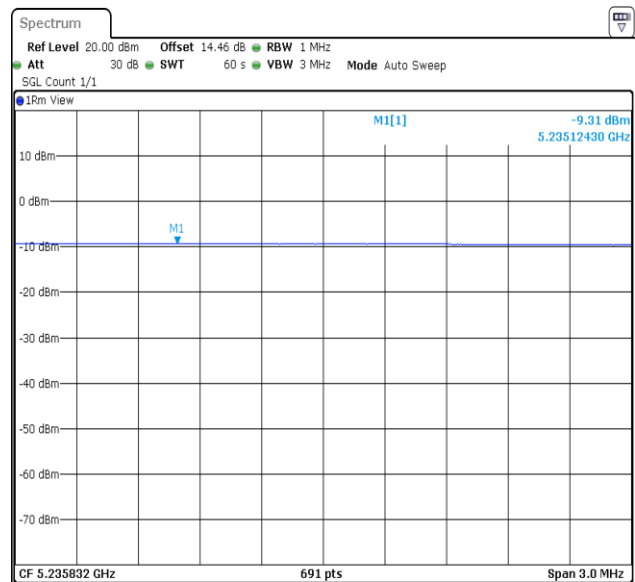


Date: 28 JAN 2026 13:37:16

802.11ac-VHT20 5240MHz-Power density

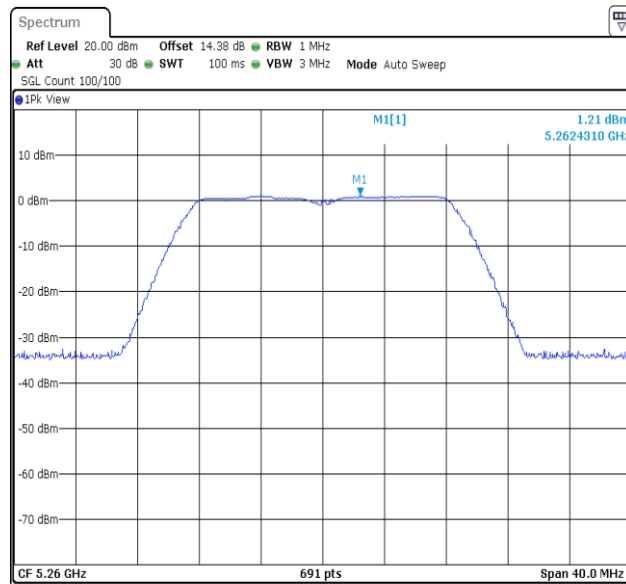


Date: 28 JAN 2026 13:46:43

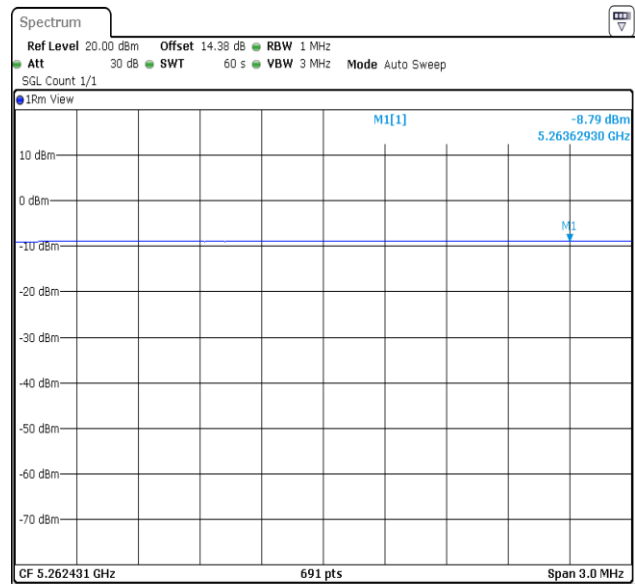


Date: 28 JAN 2026 13:47:47

802.11ac-VHT20 5260MHz-Power density

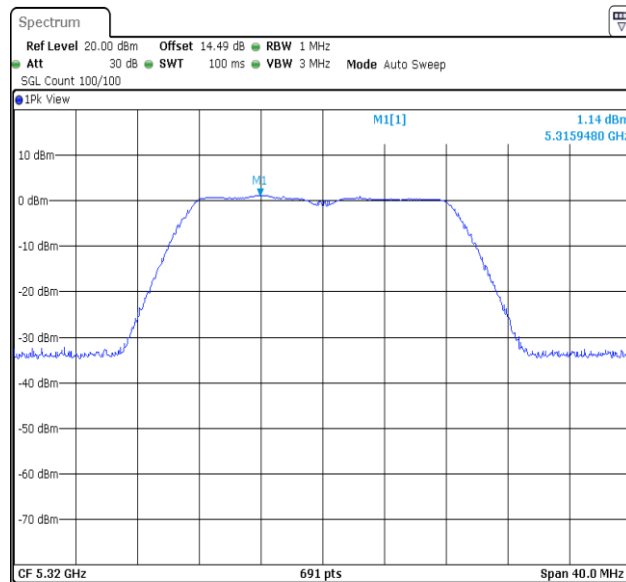


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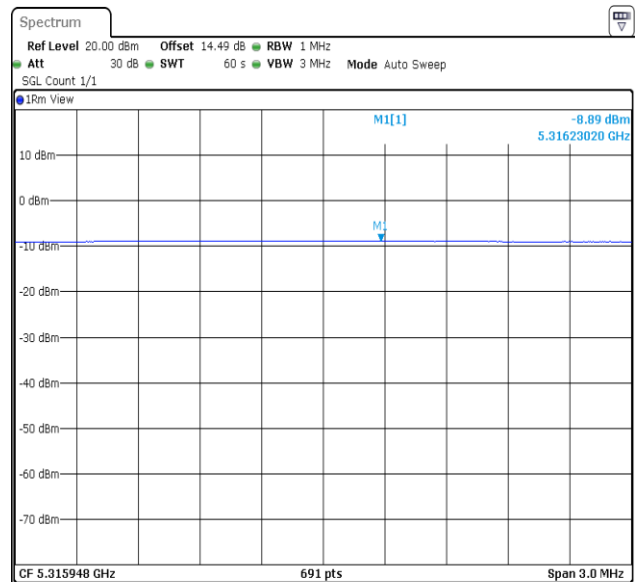


Date: 28 JAN 2026 13:57:46

802.11ac-VHT20 5320MHz-Power density

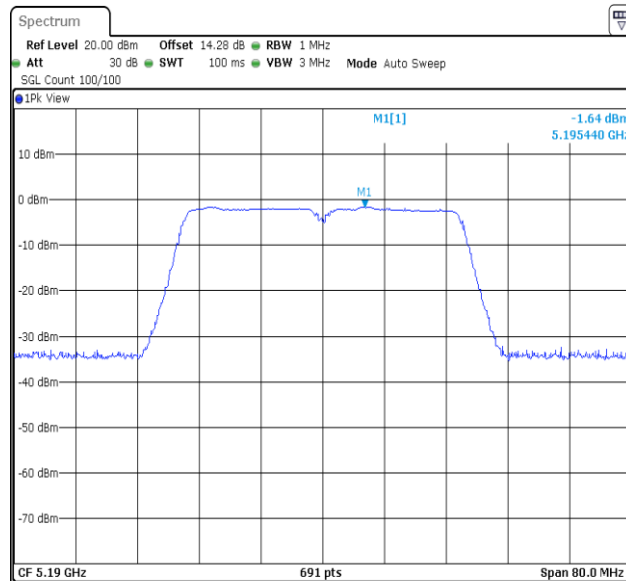


Date: 28 JAN 2026 14:02:51

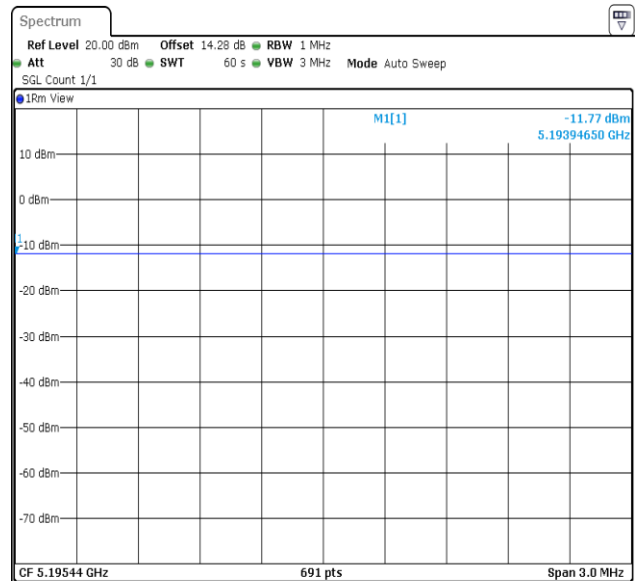


Date: 28 JAN 2026 14:03:55

802.11ac-VHT40 5190MHz-Power density

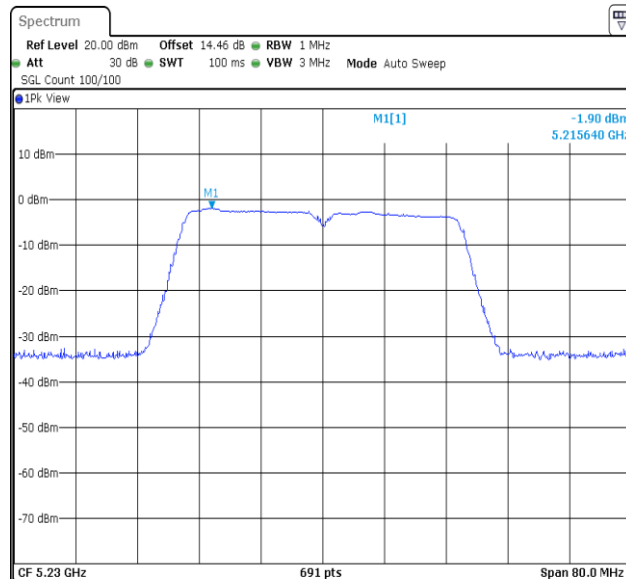


Date: 28 JAN 2026 15:20:19

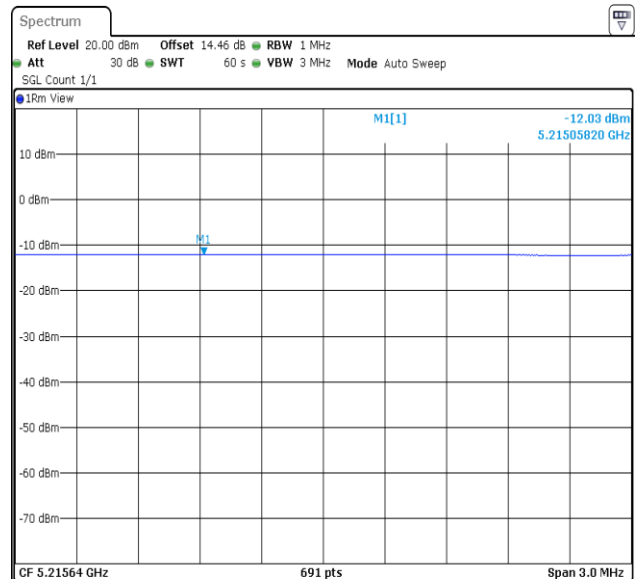


Date: 28 JAN 2026 15:21:23

802.11ac-VHT40 5230MHz-Power density

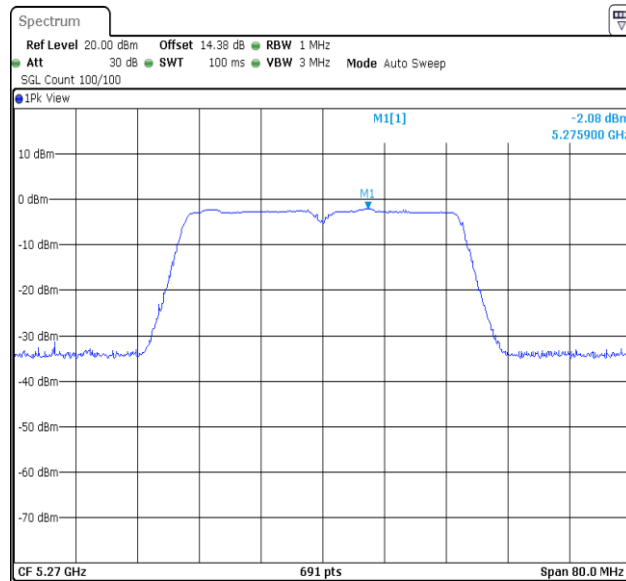


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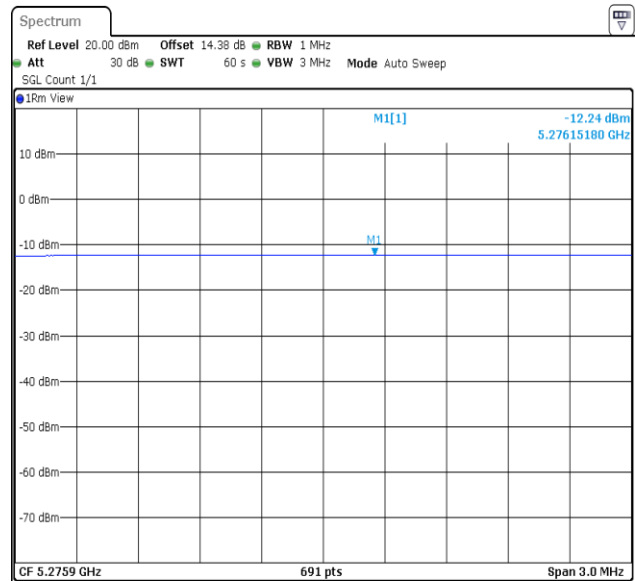


Date: 28 JAN 2026 15:29:40

802.11ac-VHT40 5270MHz-Power density

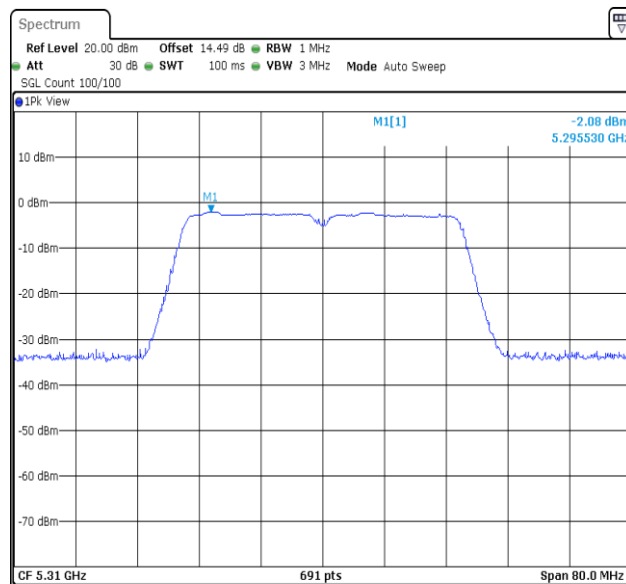


Date: 28 JAN 2026 15:38:48

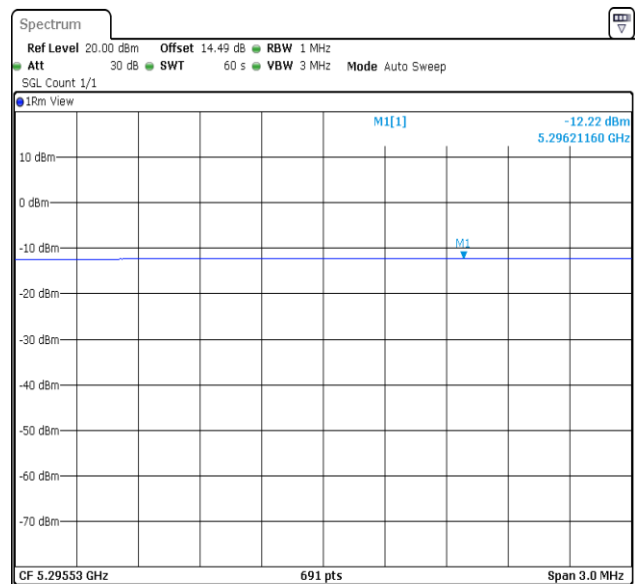


Date: 28 JAN 2026 15:38:52

802.11ac-VHT40 5310MHz-Power density

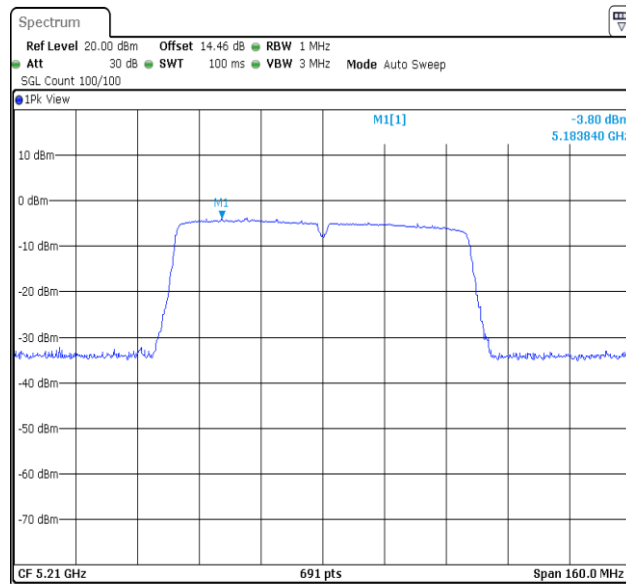


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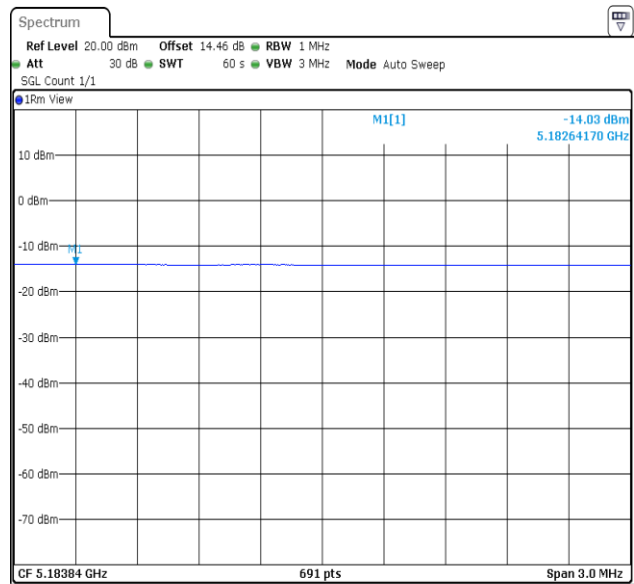


Date: 28 JAN 2026 15:47:32

802.11ac-VHT80 5210MHz-Power density

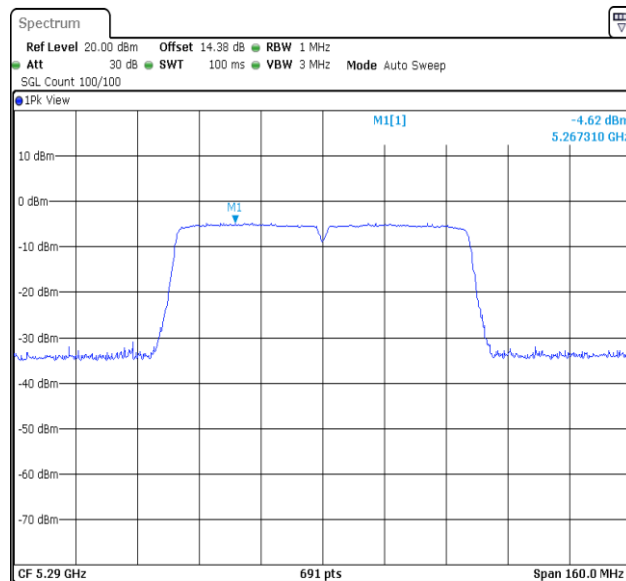


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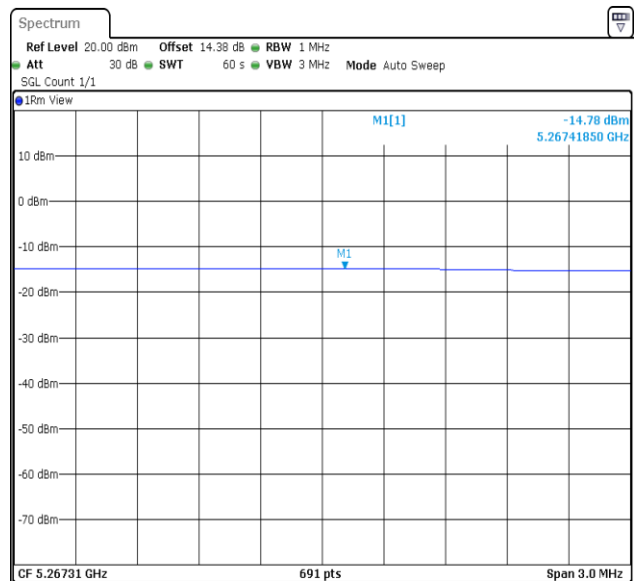


Date: 28 JAN 2026 16:55:02

802.11ac-VHT80 5290MHz-Power density

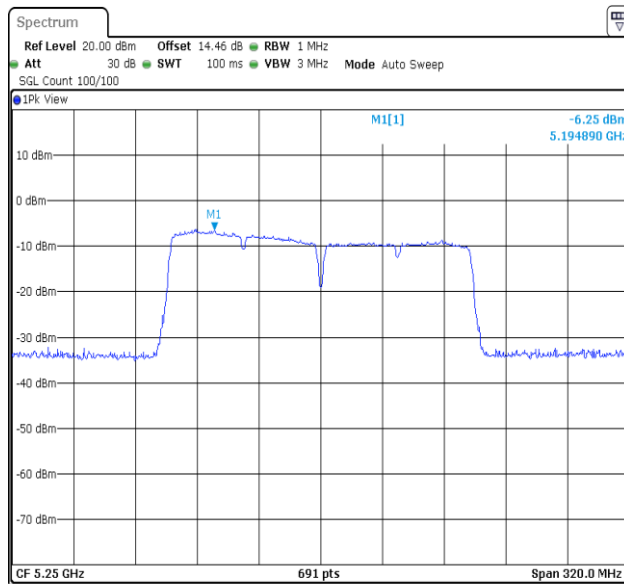


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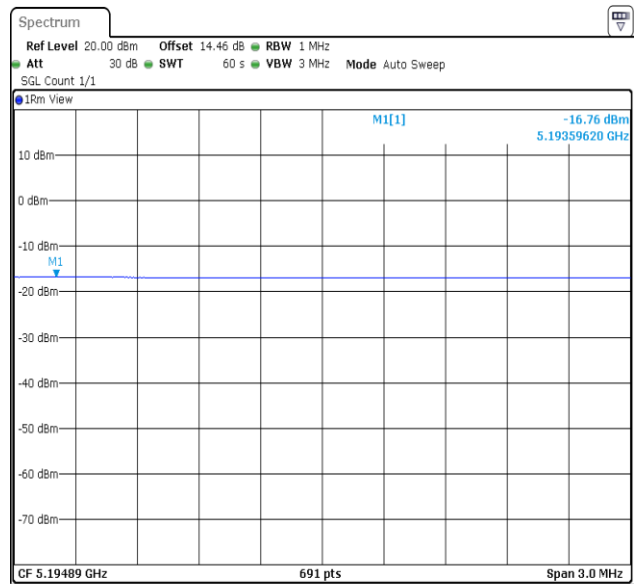


Date: 28 JAN 2026 17:05:35

802.11ac-VHT160 5250MHz-Power density

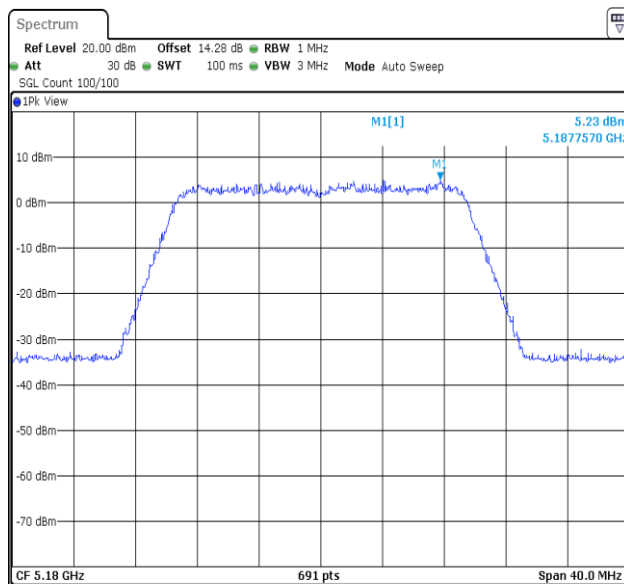


Date: 28 JAN 2026 19:06:43

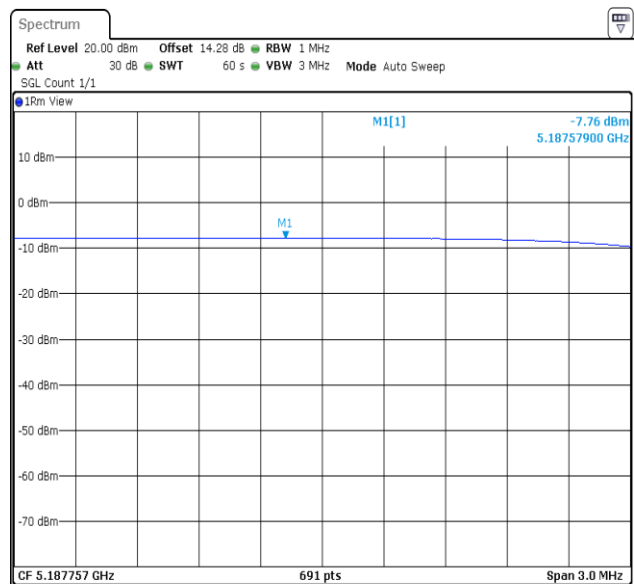


Date: 28 JAN 2026 19:07:46

802.11ax-VHT20 5180MHz-Power density

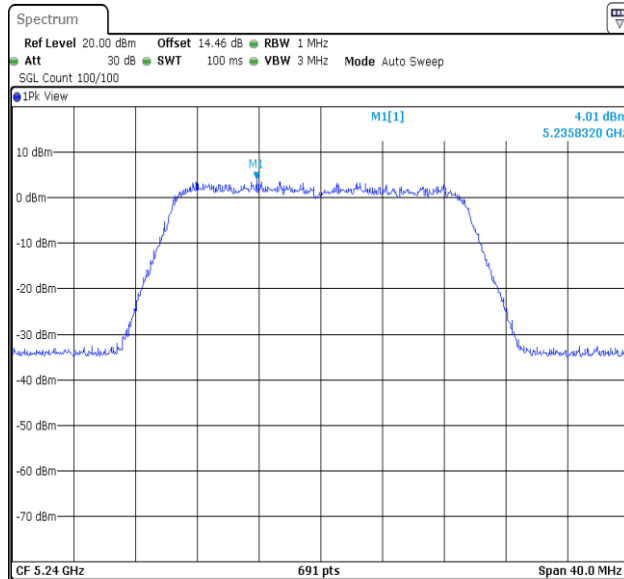


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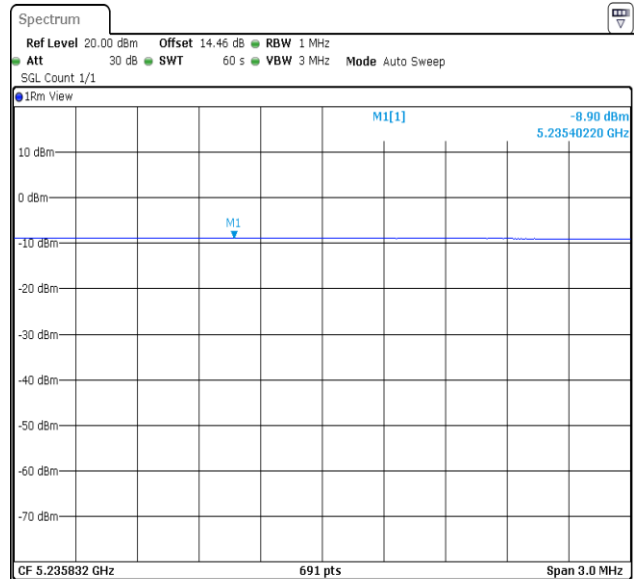


Date: 28 JAN 2026 19:35:21

802.11ax-VHT20 5240MHz-Power density

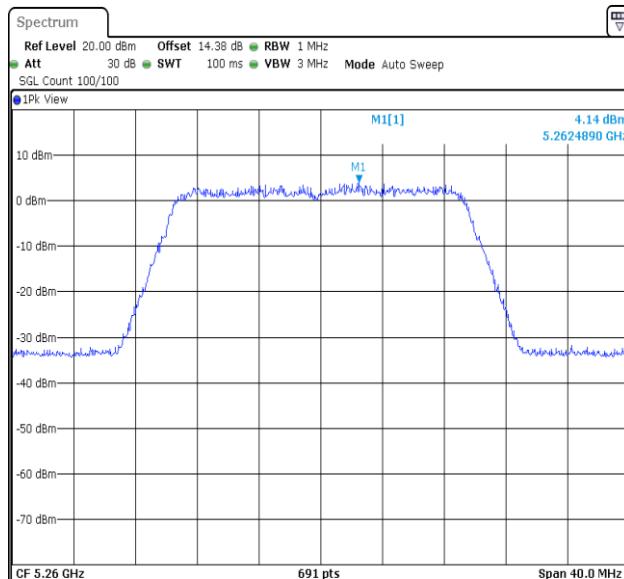


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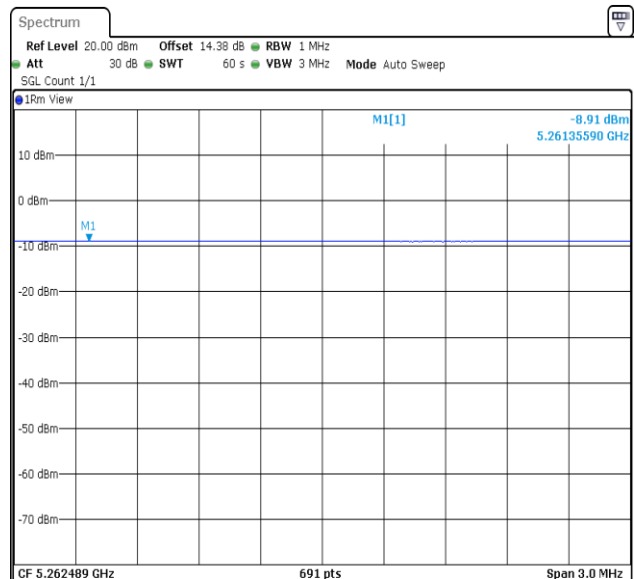


Date: 28 JAN 2026 19:57:17

802.11ax-VHT20 5260MHz-Power density

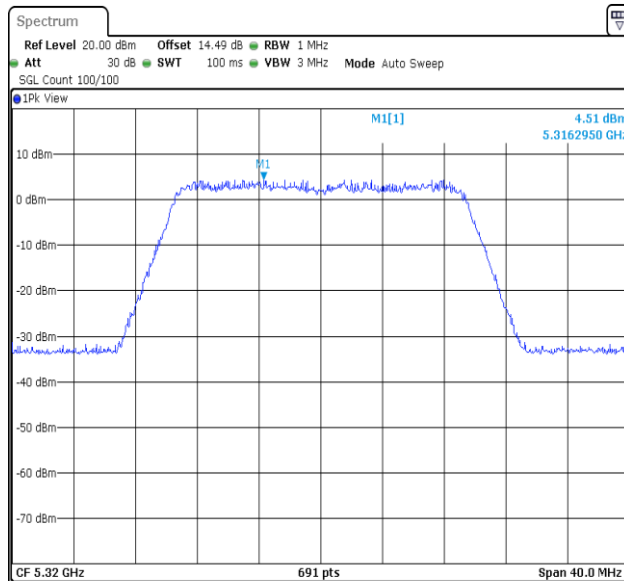


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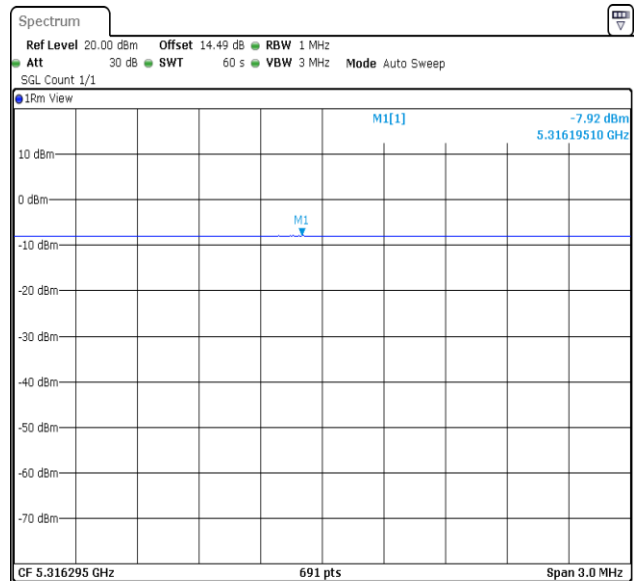


Date: 29 JAN 2026 09:26:07

802.11ax-VHT20 5320MHz-Power density

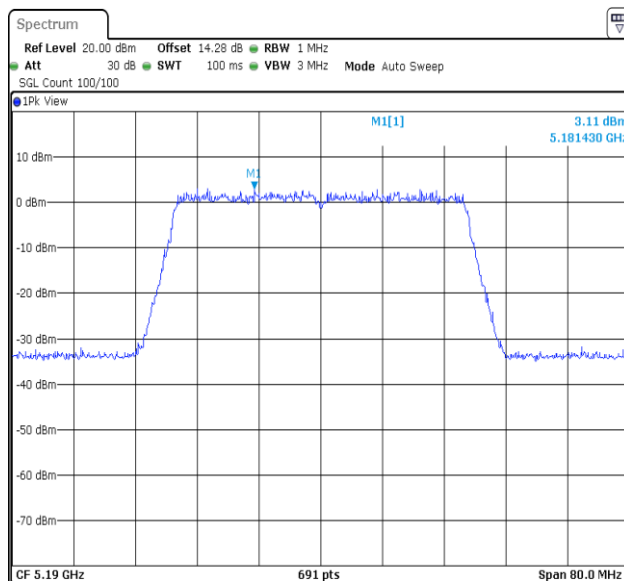


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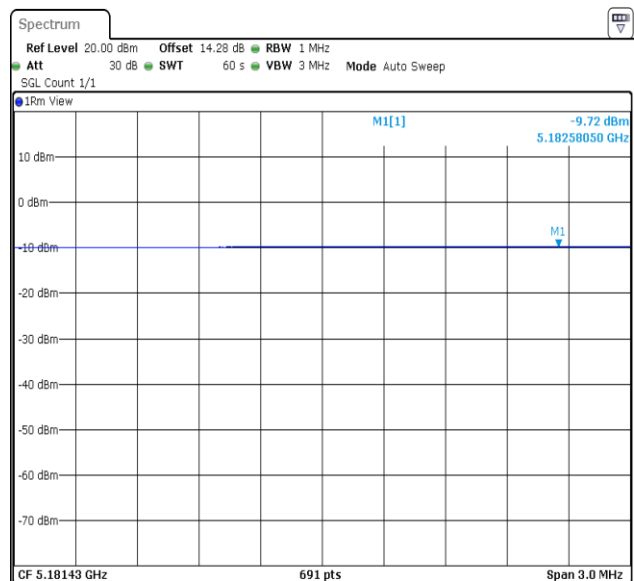


Date: 29 JAN 2026 09:43:10

802.11ax-VHT40 5190MHz-Power density

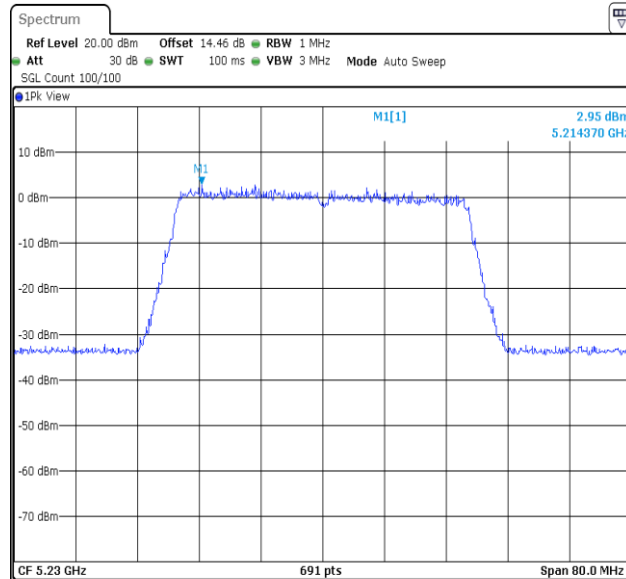


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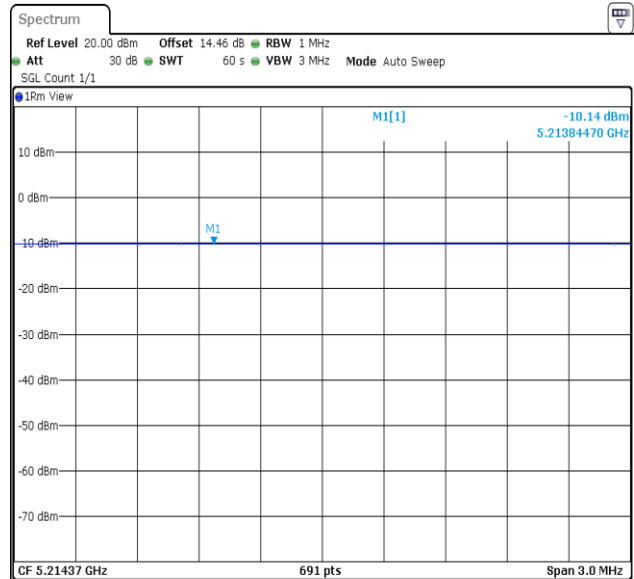


Date: 29 JAN 2026 10:38:59

802.11ax-VHT40 5230MHz-Power density

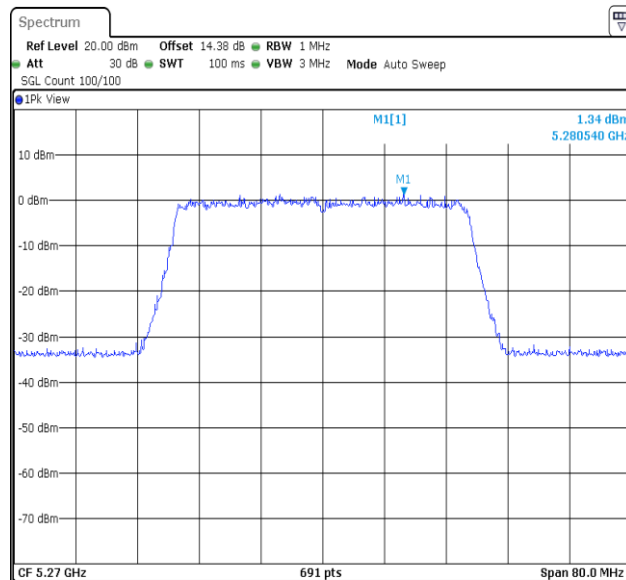


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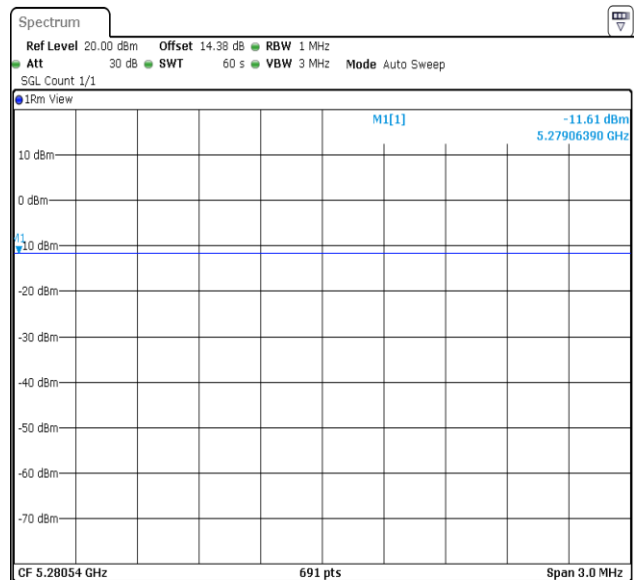


Date: 29 JAN 2026 10:48:36

802.11ax-VHT40 5270MHz-Power density

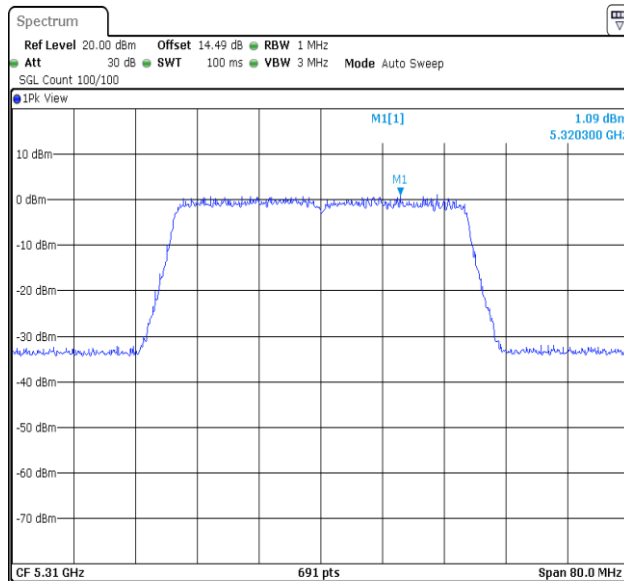


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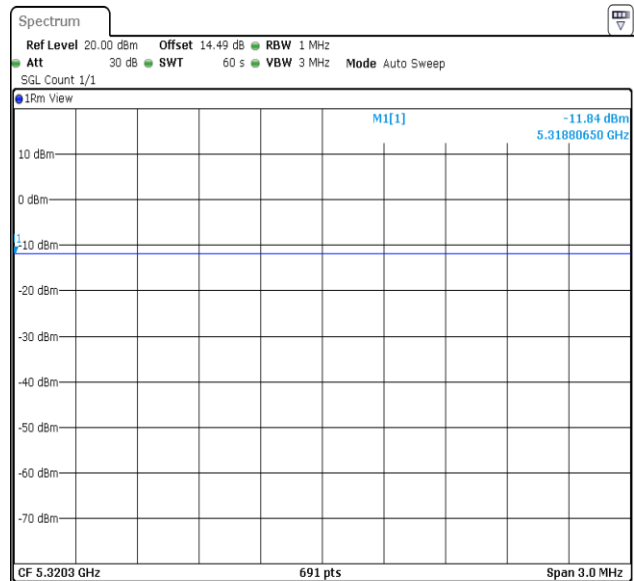


Date: 29 JAN 2026 10:58:00

802.11ax-VHT40 5310MHz-Power density

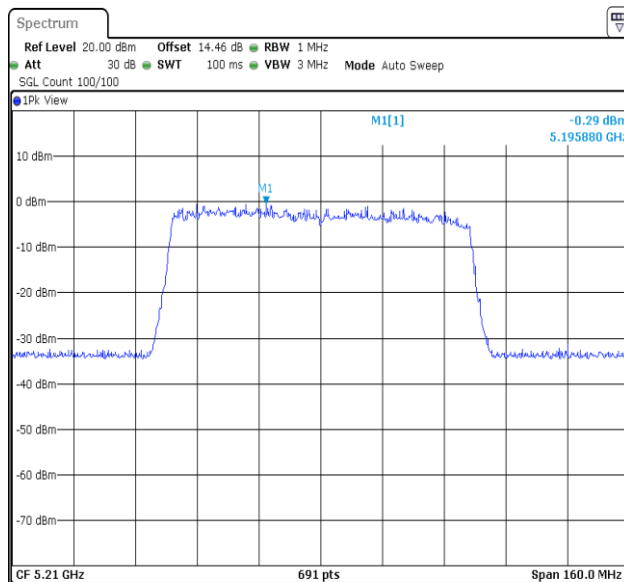


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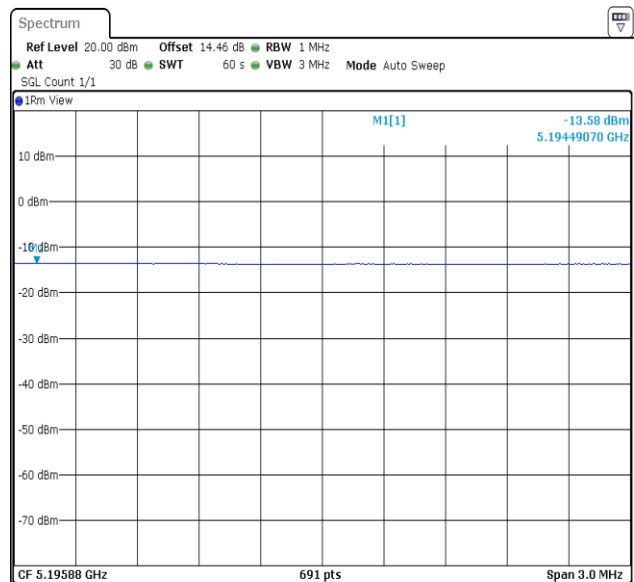


Date: 29 JAN 2026 11:30:14

802.11ax-VHT80 5210MHz-Power density

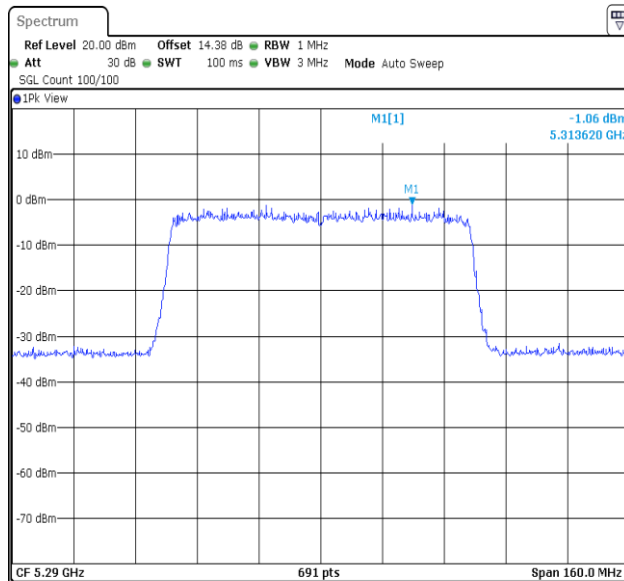


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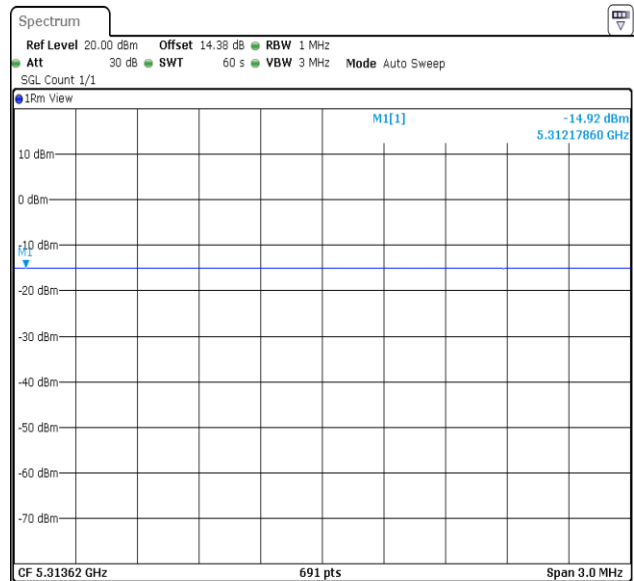


Date: 29 JAN 2026 11:57:53

802.11ax-VHT80 5290MHz-Power density

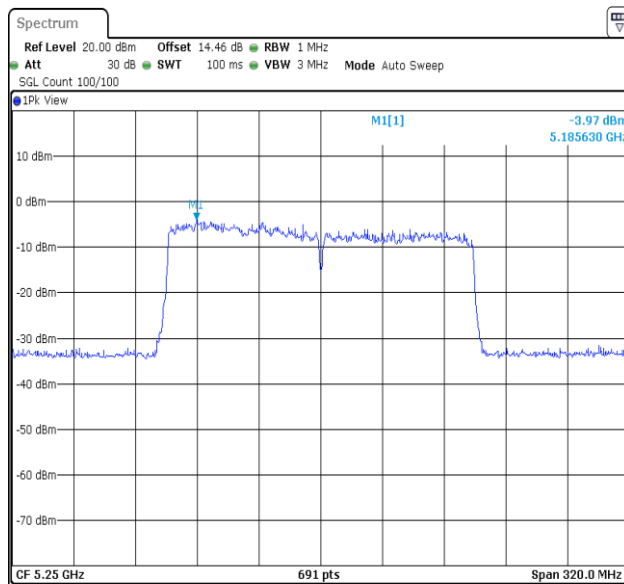


Date: 29 JAN 2026 13:25:47

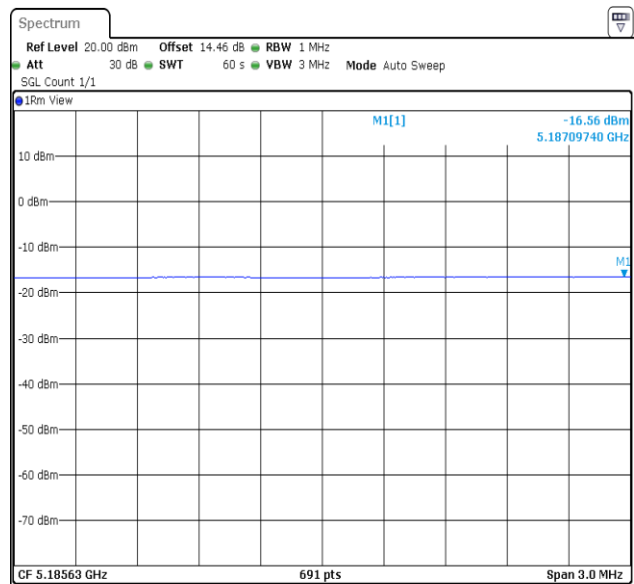


Date: 29 JAN 2026 13:26:51

802.11ax-VHT160 5250MHz-Power density



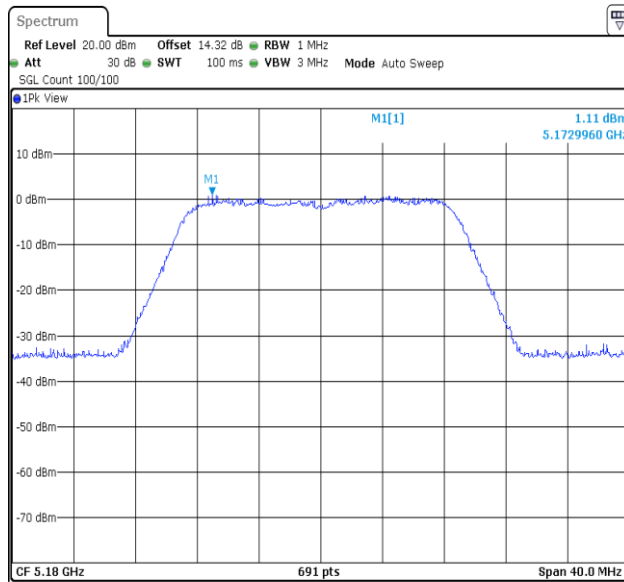
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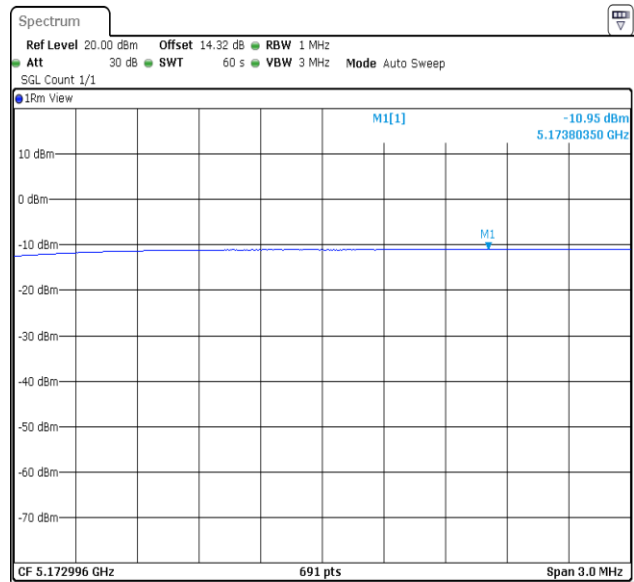
Date: 29 JAN 2026 13:47:32

Chain 1

802.11ac-VHT20 5180MHz-Power density

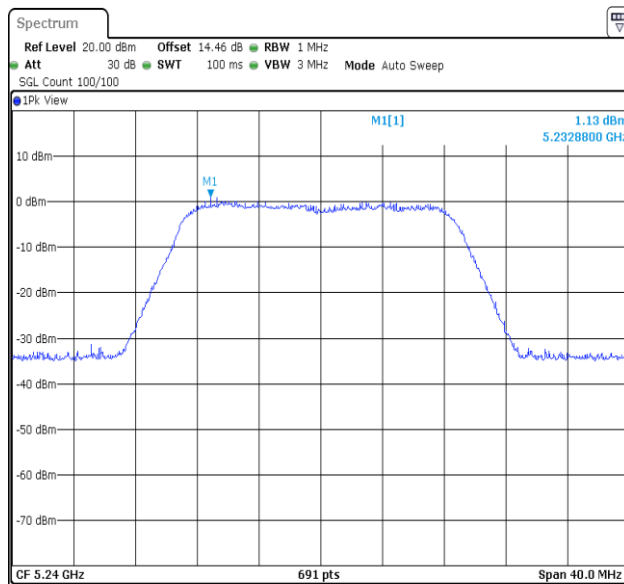


Date: 28 JAN 2026 13:37:38

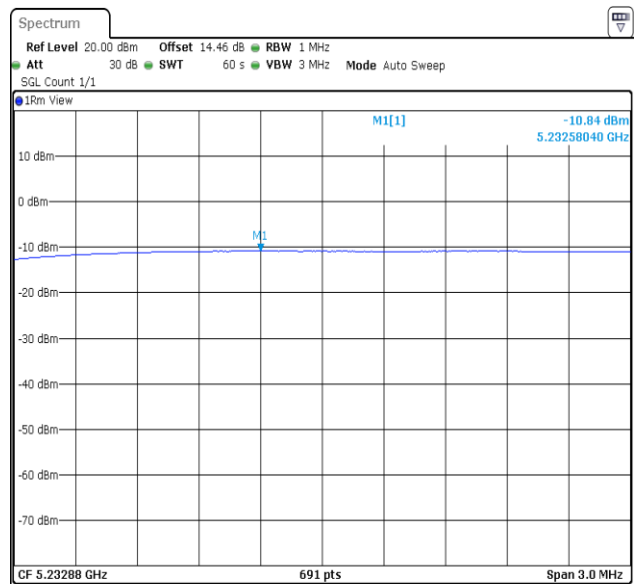


Date: 28 JAN 2026 13:38:42

802.11ac-VHT20 5240MHz-Power density

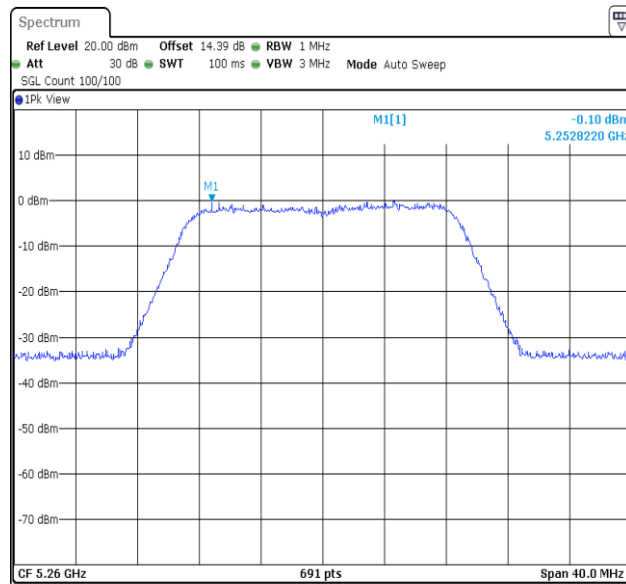


Date: 28 JAN 2026 13:48:04

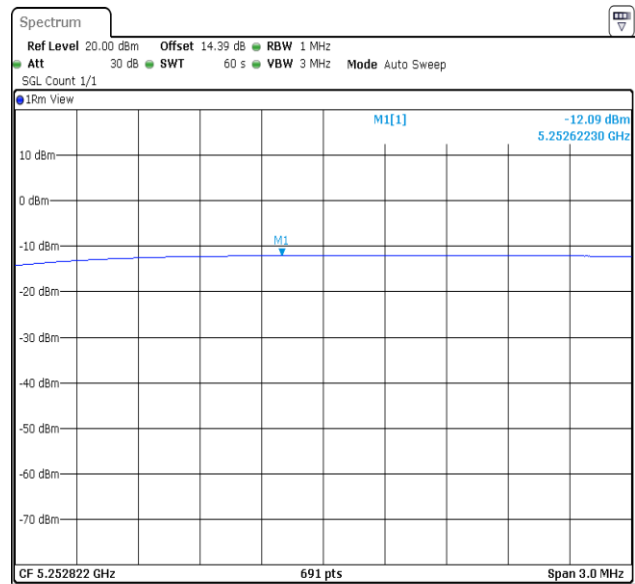


Date: 28 JAN 2026 13:49:08

802.11ac-VHT20 5260MHz-Power density

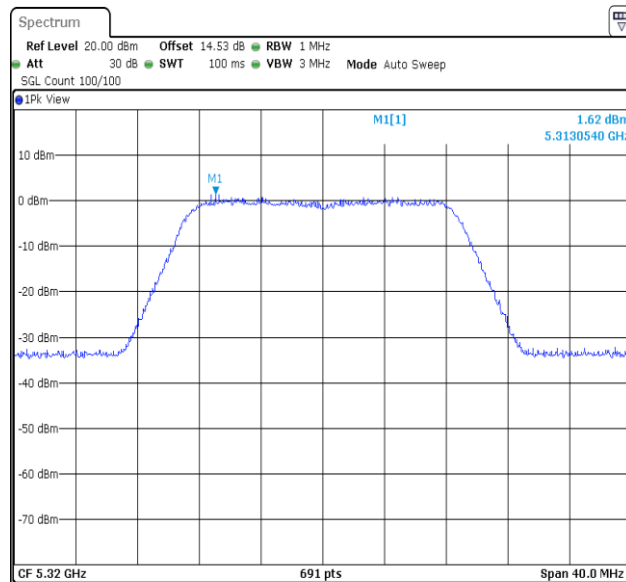


Date: 28 JAN 2026 13:58:03

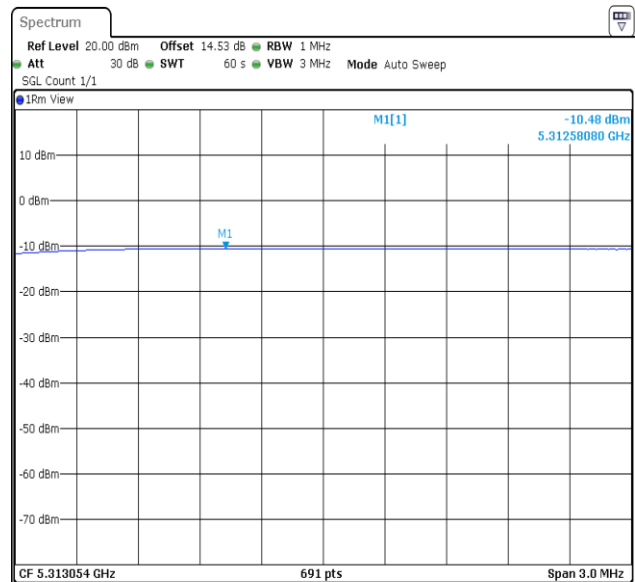


Date: 28 JAN 2026 13:58:07

802.11ac-VHT20 5320MHz-Power density

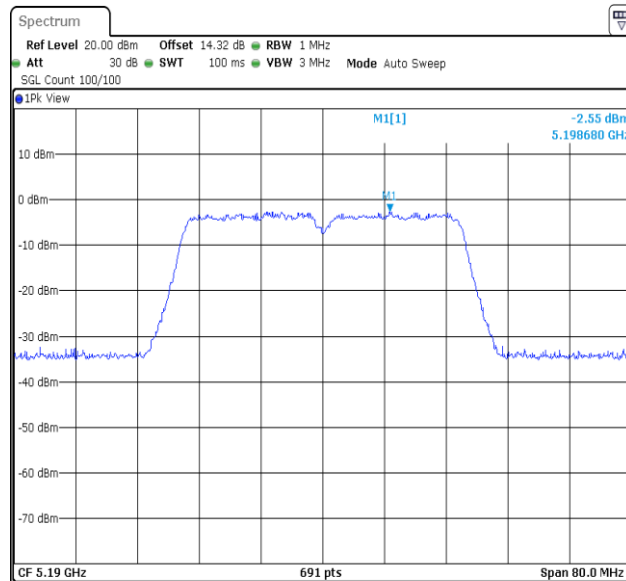


Date: 28 JAN 2026 14:04:12

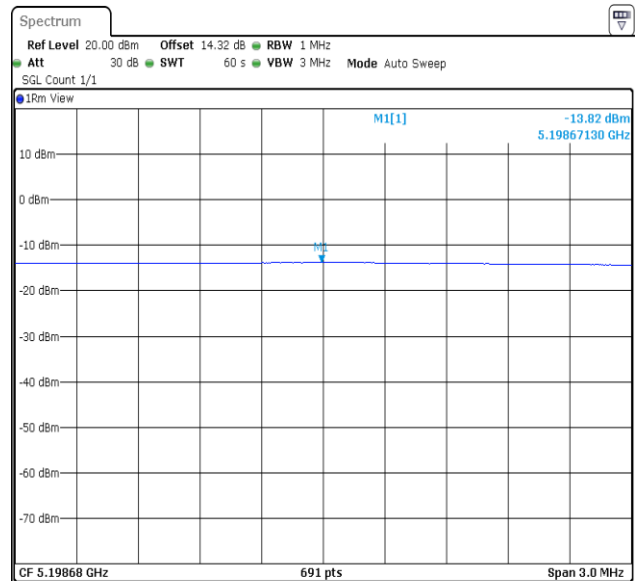


Date: 28 JAN 2026 14:05:16

802.11ac-VHT40 5190MHz-Power density

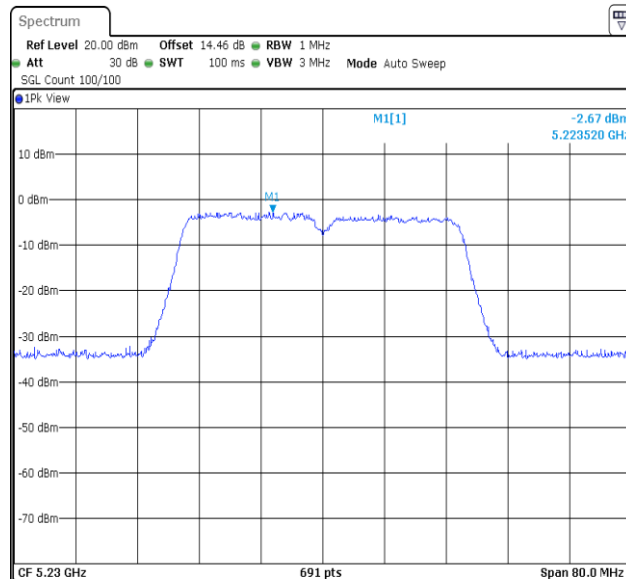


Date: 28 JAN 2026 15:21:41

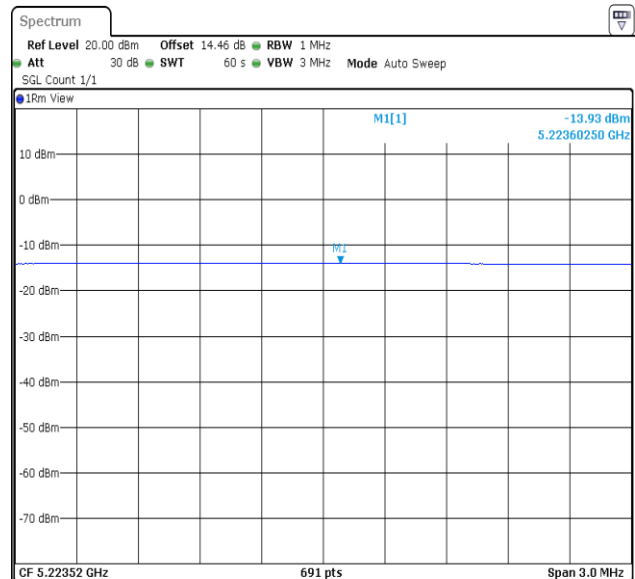


Date: 28 JAN 2026 15:22:45

802.11ac-VHT40 5230MHz-Power density

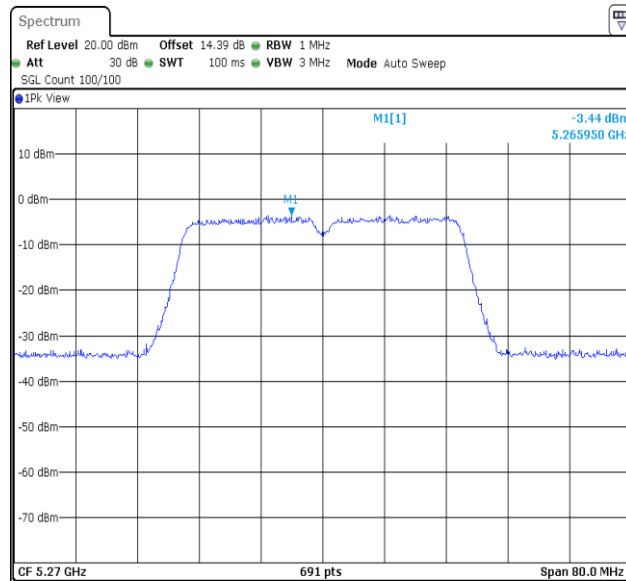


Date: 28 JAN 2026 15:29:58

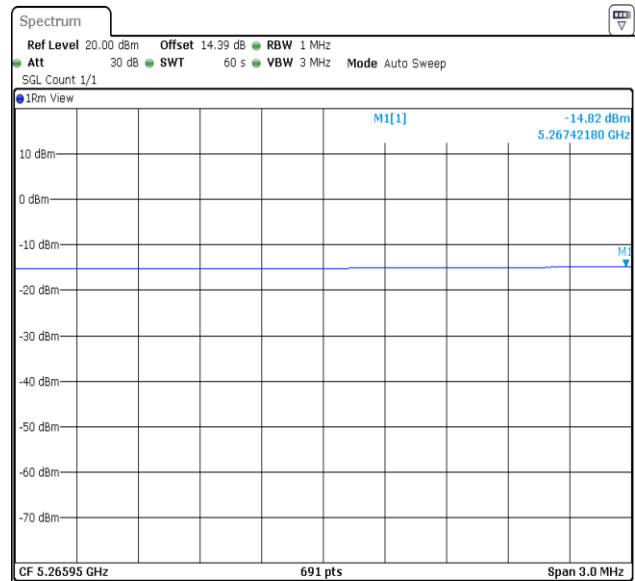


Date: 28 JAN 2026 15:31:02

802.11ac-VHT40 5270MHz-Power density

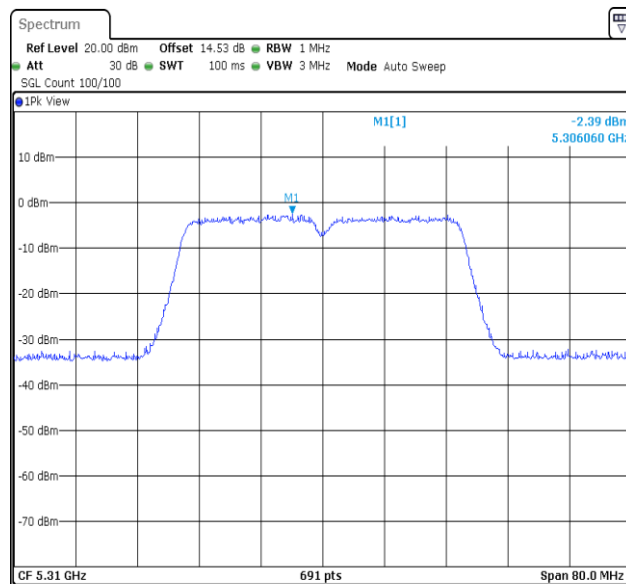


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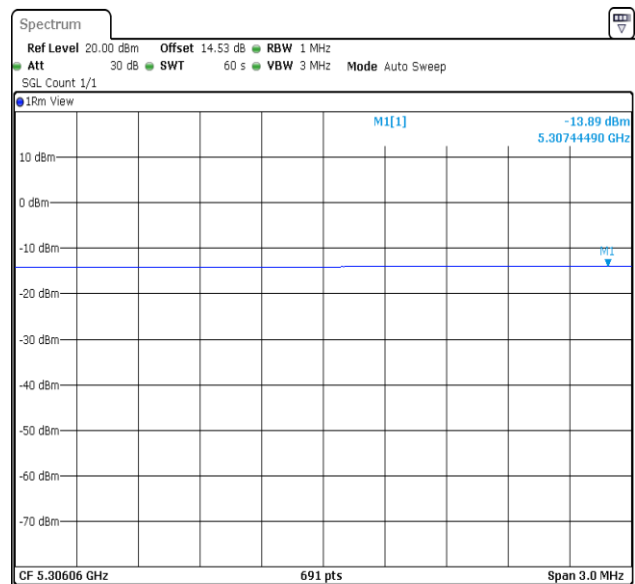


Date: 28 JAN 2026 15:41:14

802.11ac-VHT40 5310MHz-Power density

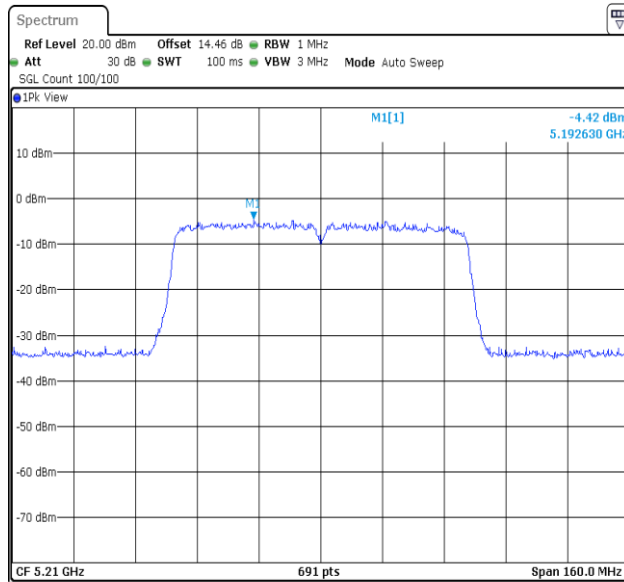


Date: 28 JAN 2026 15:47:50

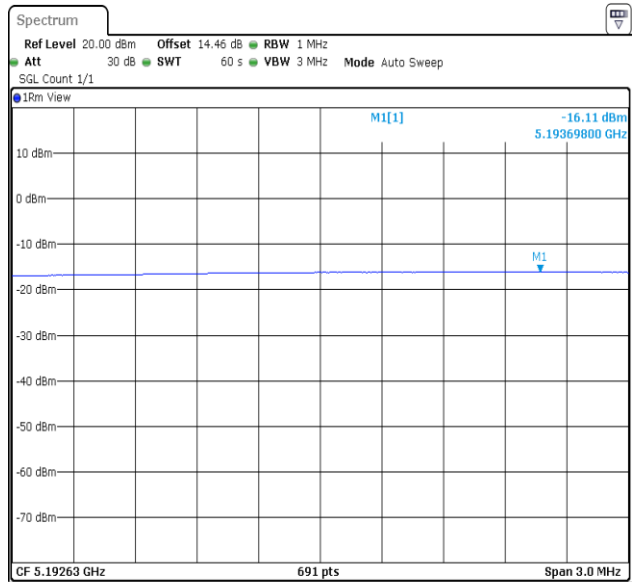


Date: 28 JAN 2026 15:48:54

802.11ac-VHT80 5210MHz-Power density

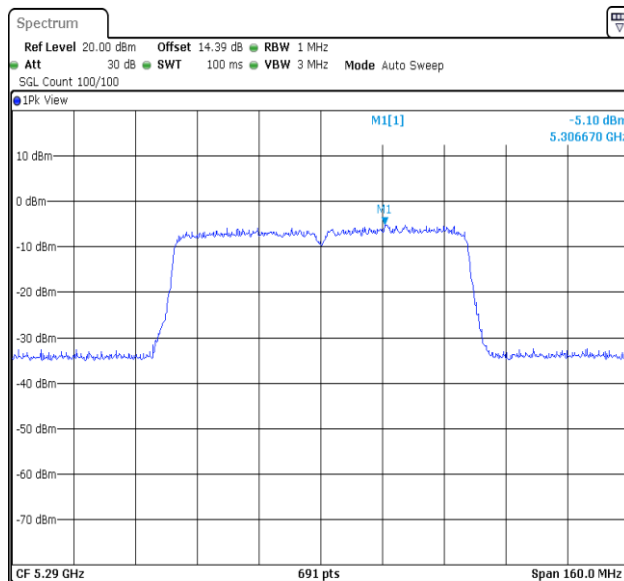


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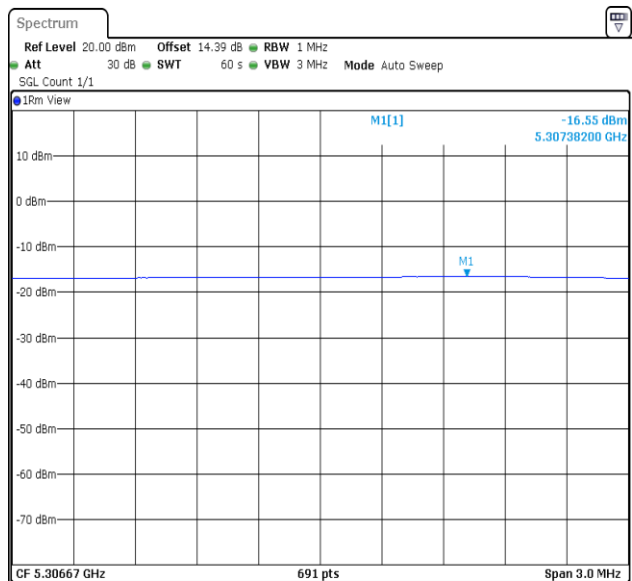


Date: 28 JAN 2026 16:56:23

802.11ac-VHT80 5290MHz-Power density

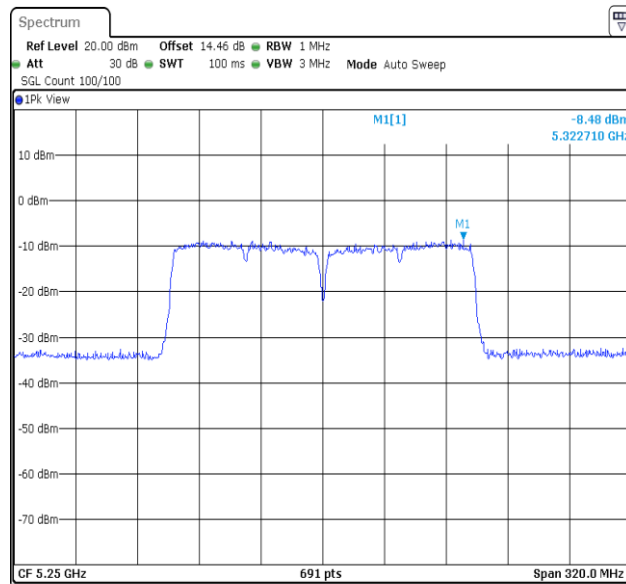


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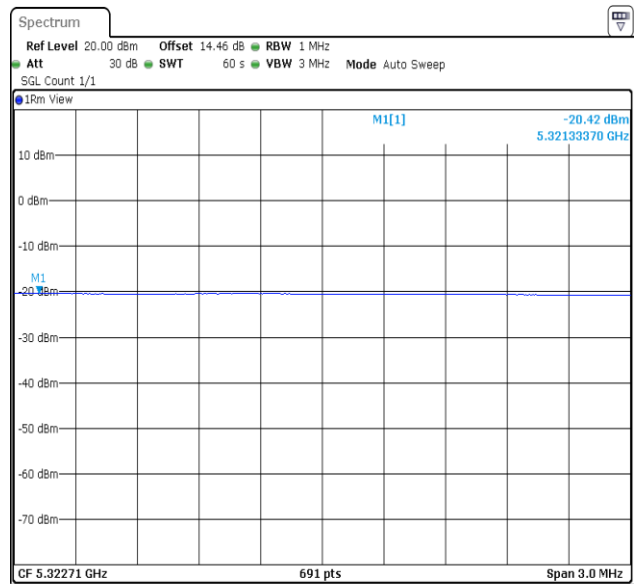


Date: 28 JAN 2026 17:06:57

802.11ac-VHT160 5250MHz-Power density

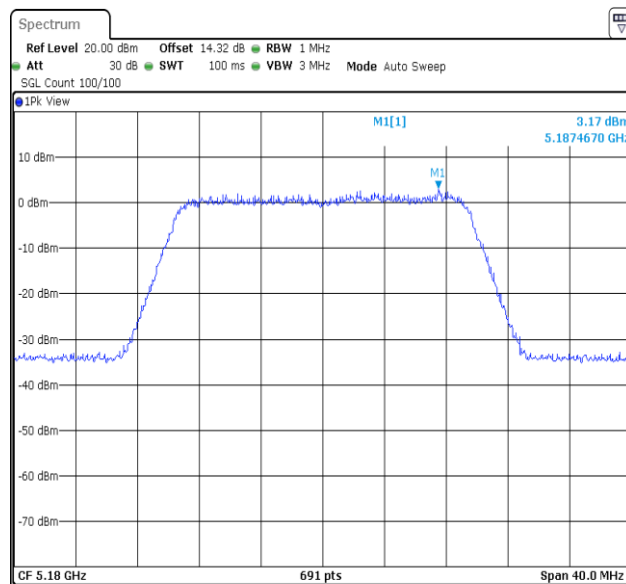


Date: 28 JAN 2026 19:08:05

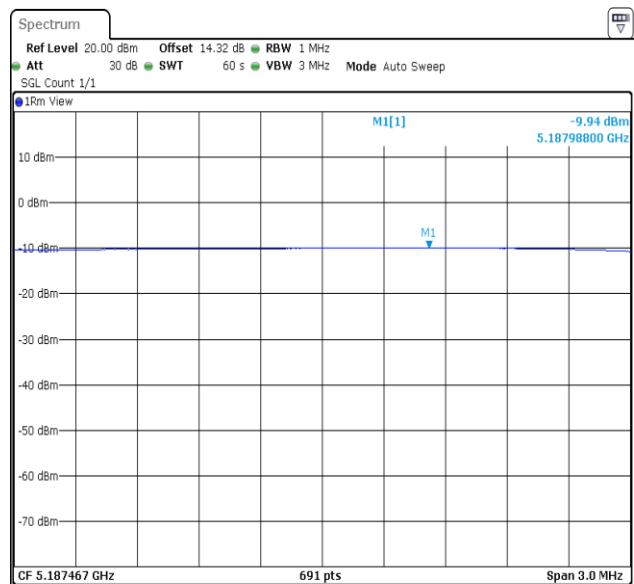


Date: 28 JAN 2026 19:08:08

802.11ax-VHT20 5180MHz-Power density

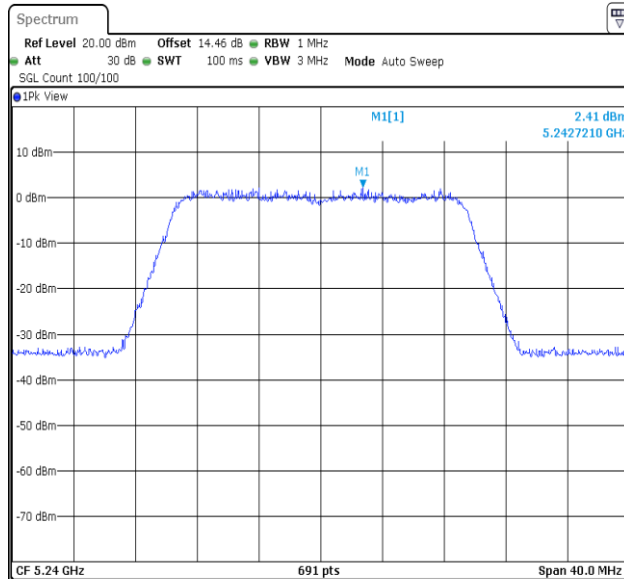


Date: 28 JAN 2026 19:35:39

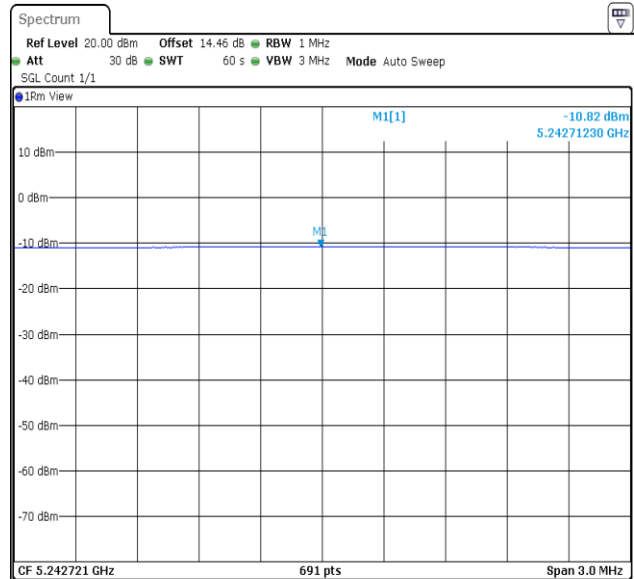


Date: 28 JAN 2026 19:36:43

802.11ax-VHT20 5240MHz-Power density

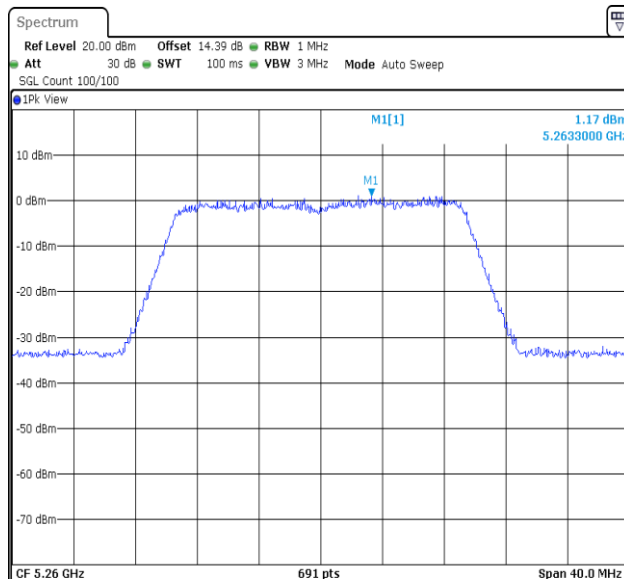


Date: 28 JAN 2026 19:57:35

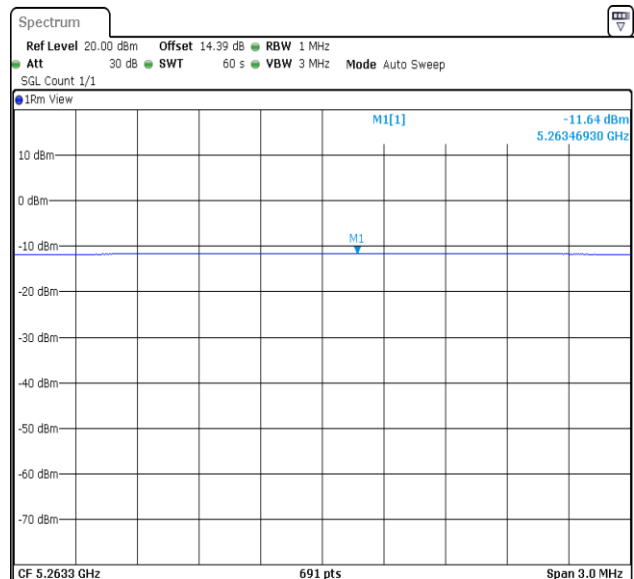


Date: 28 JAN 2026 19:58:38

802.11ax-VHT20 5260MHz-Power density

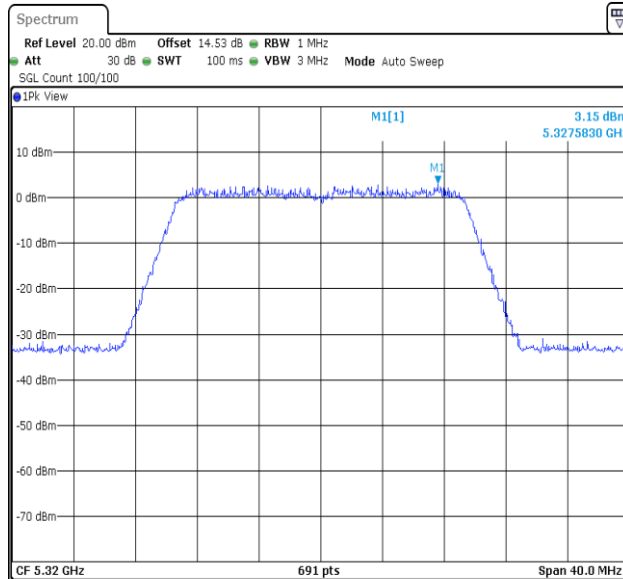


Date: 29 JAN 2026 09:26:24

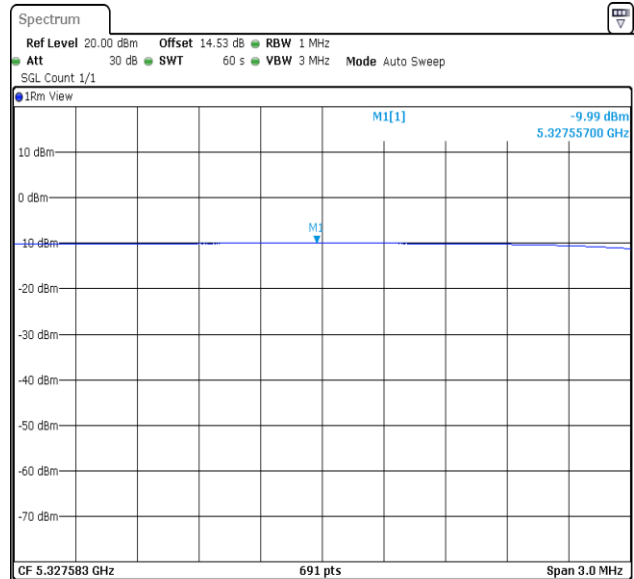


Date: 29 JAN 2026 09:27:28

802.11ax-VHT20 5320MHz-Power density

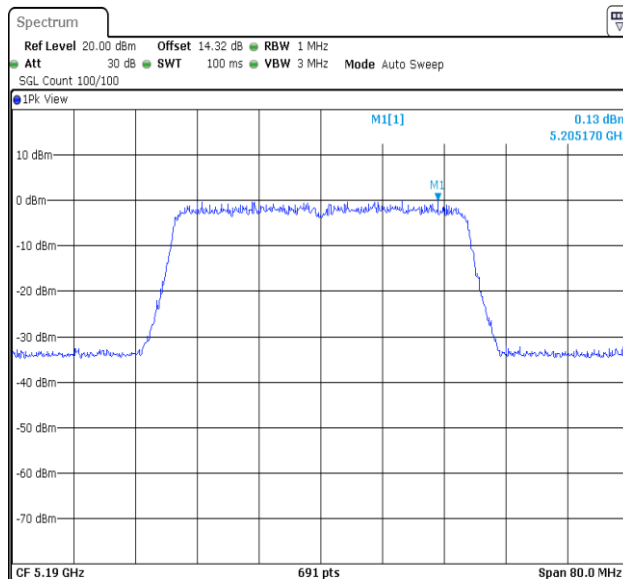


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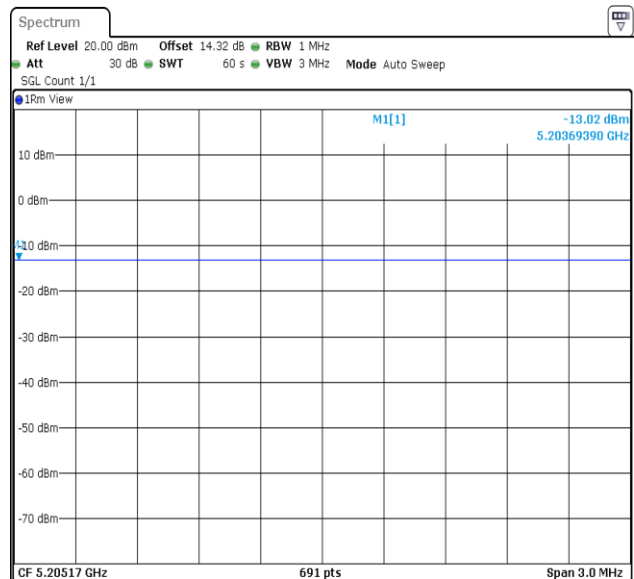


Date: 29 JAN 2026 09:44:32

802.11ax-VHT40 5190MHz-Power density

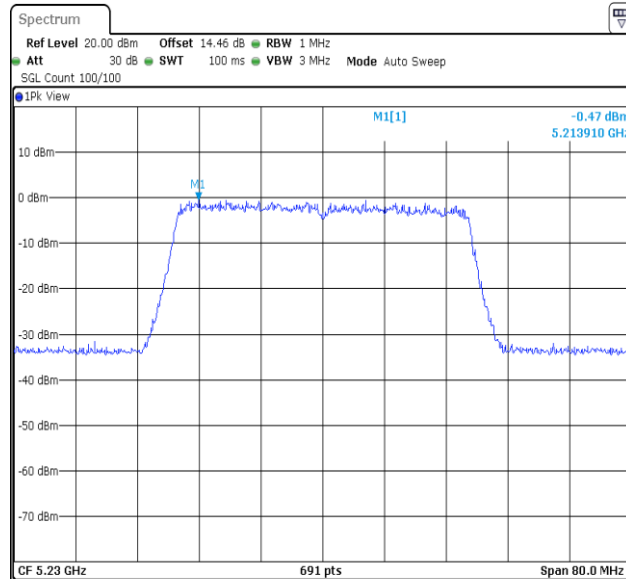


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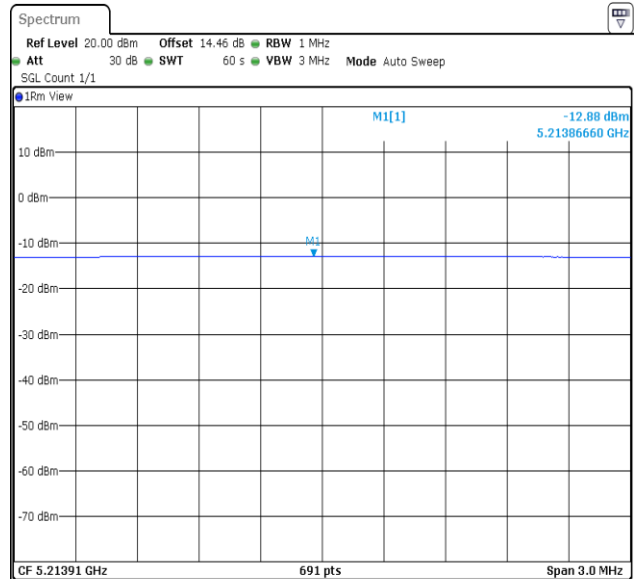


Date: 29 JAN 2026 10:40:21

802.11ax-VHT40 5230MHz-Power density

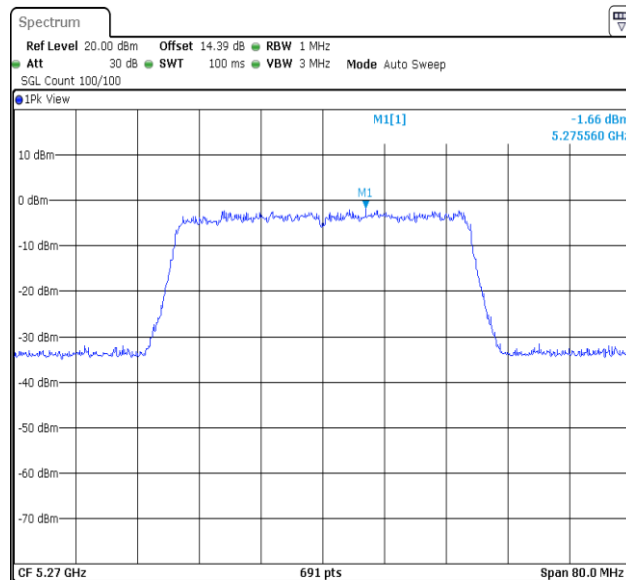


Date: 29 JAN 2026 10:48:54

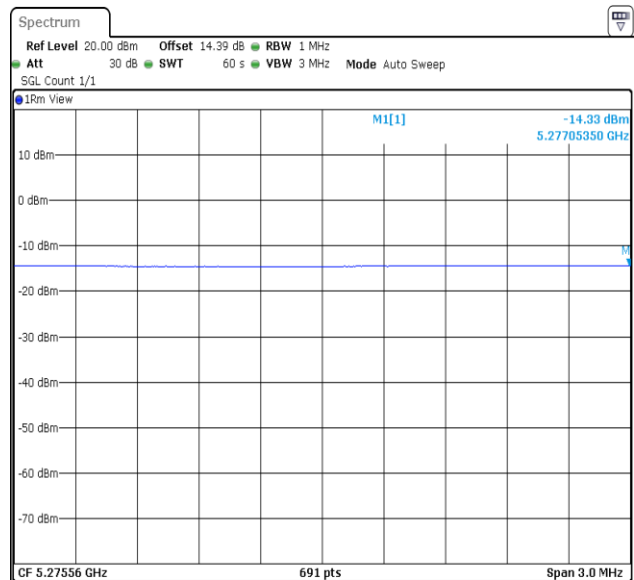


Date: 29 JAN 2026 10:49:57

802.11ax-VHT40 5270MHz-Power density

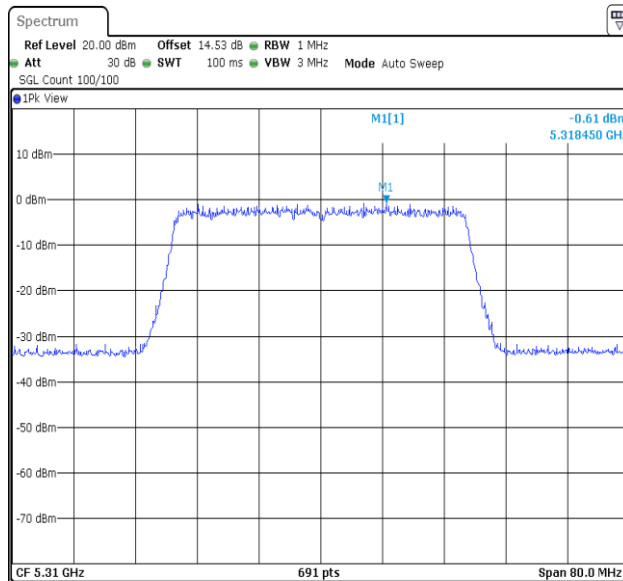


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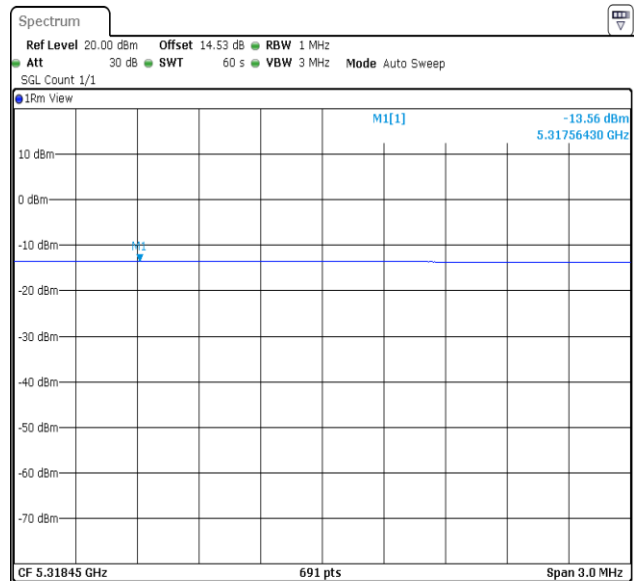


Date: 29 JAN 2026 10:58:21

802.11ax-VHT40 5310MHz-Power density

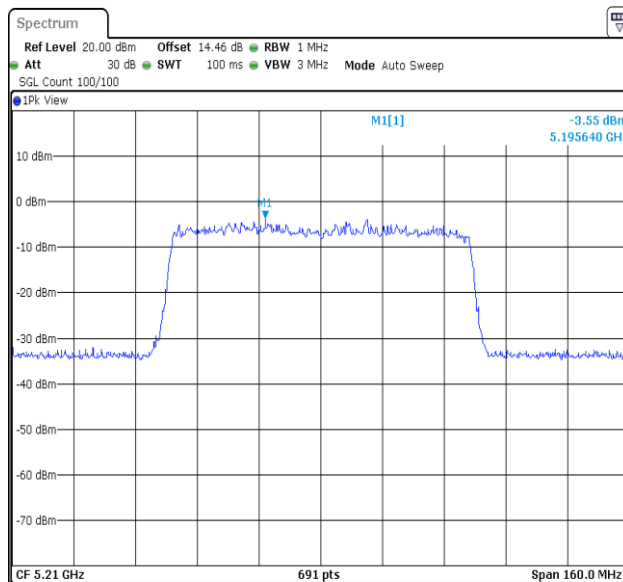


Date: 29 JAN 2026 11:30:32

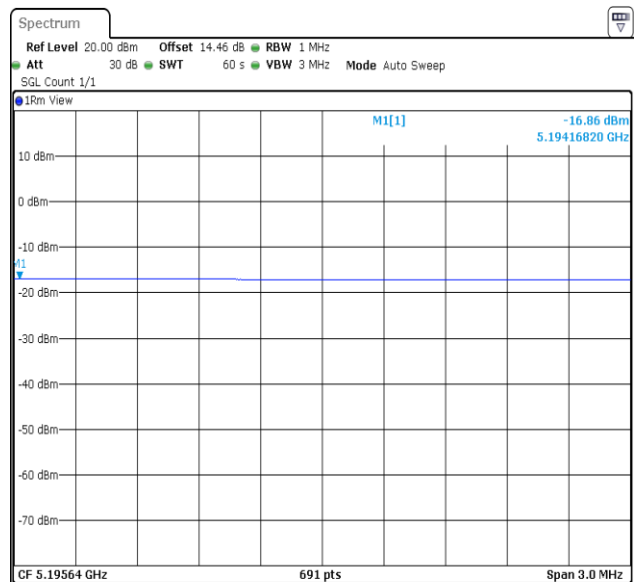


Date: 29 JAN 2026 11:31:36

802.11ax-VHT80 5210MHz-Power density

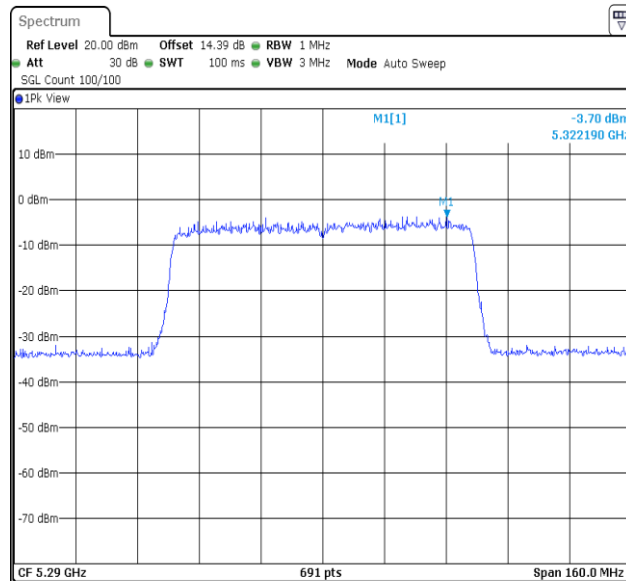


Date: 29 JAN 2026 11:58:11

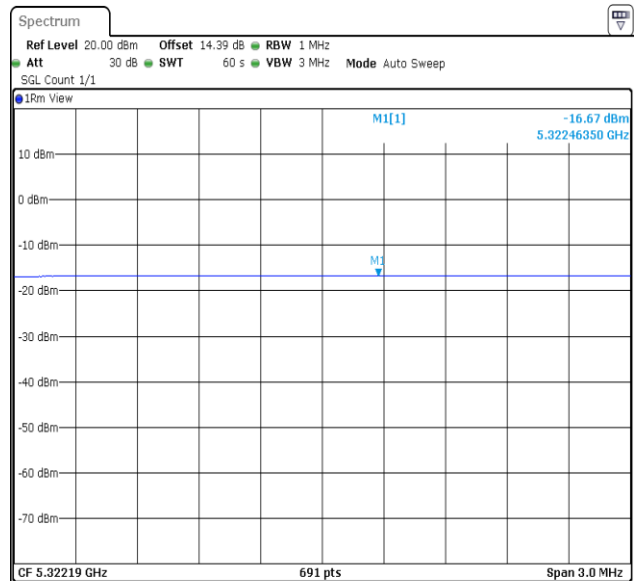


Date: 29 JAN 2026 11:58:15

802.11ax-VHT80 5290MHz-Power density

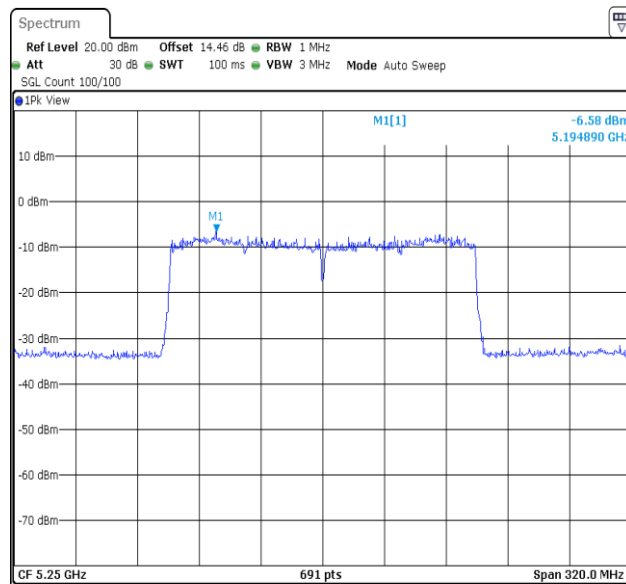


Date: 29 JAN 2026 13:35:09

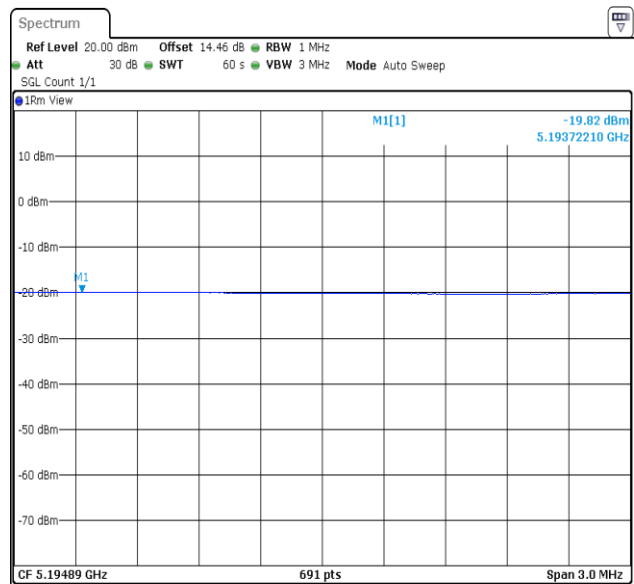


Date: 29 JAN 2026 13:36:12

802.11ax-VHT160 5250MHz-Power density



Date: 29 JAN 2026 13:47:51



Date: 29 JAN 2026 13:48:54

DUCT CYCLE**Environmental Conditions & Test Information**

Test Date:	2026-01-28 to 2026-01-29
Temperature:	19-20 °C
Relative Humidity:	50-52 %
ATM Pressure:	102.0-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Chain 0

5150-5250MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)
802.11a	5180	390.6	477	81.89	0.87
	5240	390.6	477	81.89	0.87
802.11ac20	5180	338.4	417	81.15	0.91
	5240	339	424.8	79.80	0.98
802.11ax20	5180	2.288	2.368	96.62	0.15
	5240	2.288	2.37	96.54	0.15

5250~5350 MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)
802.11a	5260	390.6	477	81.89	0.87
	5320	391.2	480.6	81.40	0.89
802.11ac20	5260	338.4	415.2	81.50	0.89
	5320	339	415.2	81.65	0.88
802.11ax20	5260	2.288	2.37	96.54	0.15
	5320	2.288	2.37	96.54	0.15

Duty Cycle = Ton/(Ton+Toff)*100%

Chain 1

5150-5250MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)
802.11a	5180	391.2	477.6	81.91	0.87
	5240	391.2	466.2	83.91	0.76
802.11ac20	5180	339	415.2	81.65	0.88
	5240	338.4	415.2	81.50	0.89
802.11ax20	5180	2.288	2.368	96.62	0.15
	5240	2.286	2.372	96.37	0.16

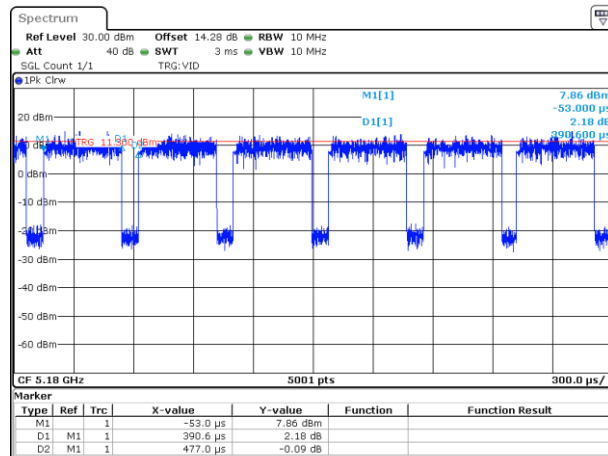
5250~5350 MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)
802.11a	5260	390.6	475.8	82.09	0.86
	5320	390.6	478.2	81.68	0.88
802.11ac20	5260	339	415.2	81.65	0.88
	5320	338.4	414.6	81.62	0.88
802.11ax20	5260	2.288	2.37	96.54	0.15
	5320	2.288	2.368	96.62	0.15

Chain 0

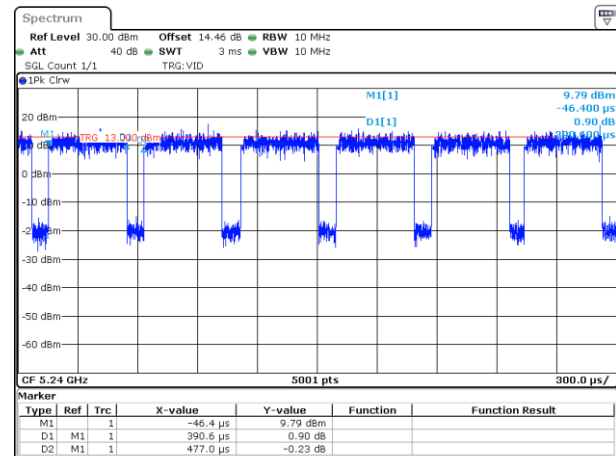
5150-5250MHz

802.11a 5180MHz



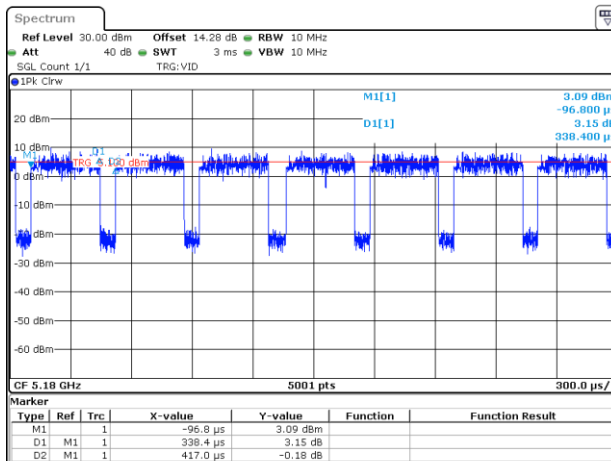
Date: 28 JAN 2026 10:14:29

802.11a 5240MHz



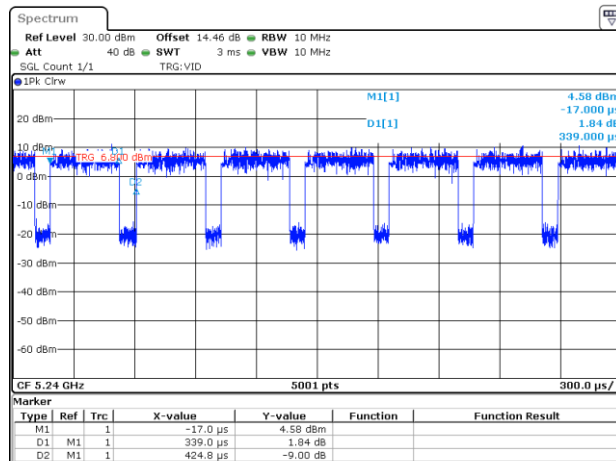
Date: 28 JAN 2026 10:21:16

802.11ac-VHT20 5180MHz



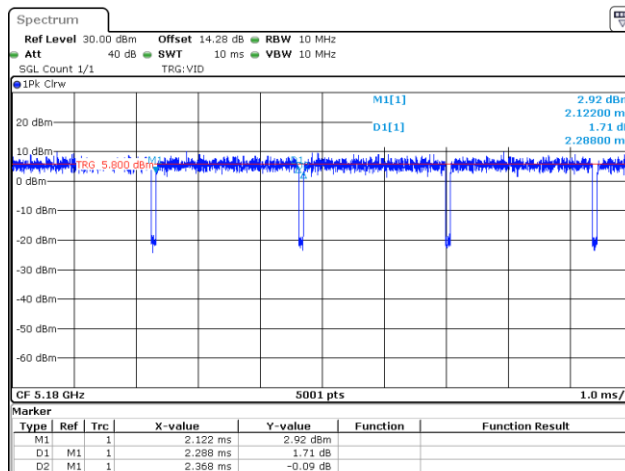
Date: 28 JAN 2026 13:40:22

802.11ac-VHT20 5240MHz



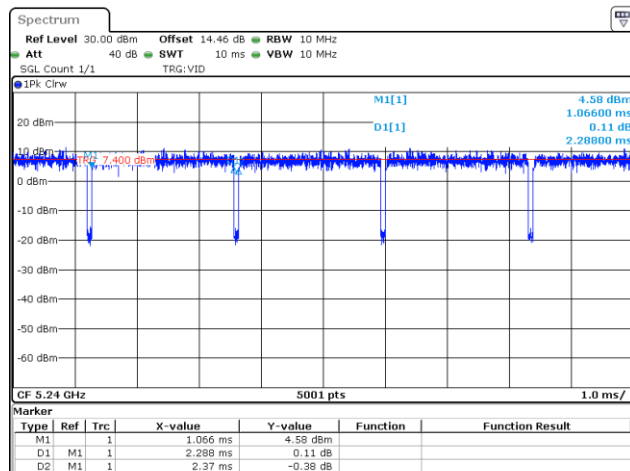
Date: 28 JAN 2026 13:45:35

802.11ax-VHT20 5180MHz



Date: 28 JAN 2026 19:30:33

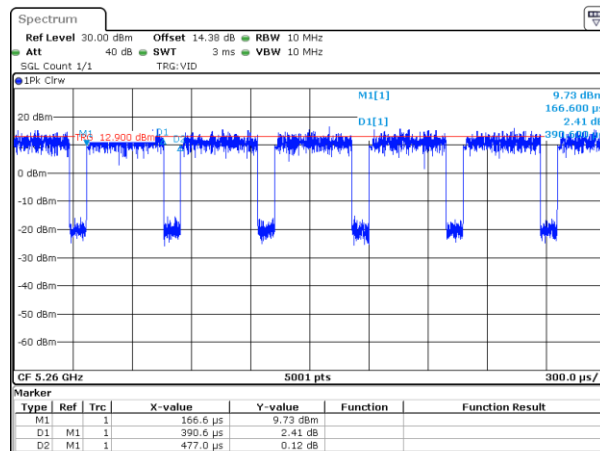
802.11ax-VHT20 5240MHz



Date: 28 JAN 2026 19:54:22

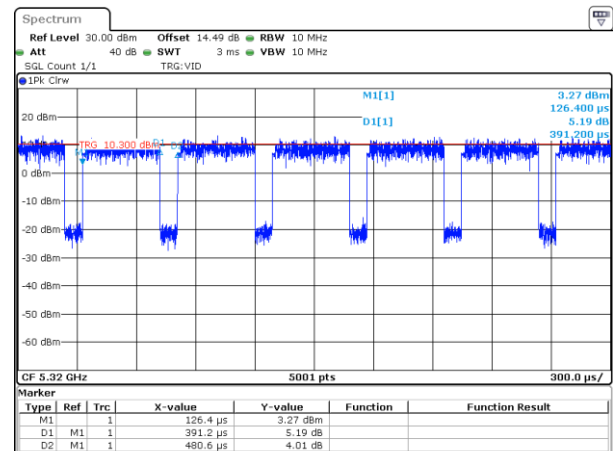
5250~5350 MHz

802.11a 5260MHz



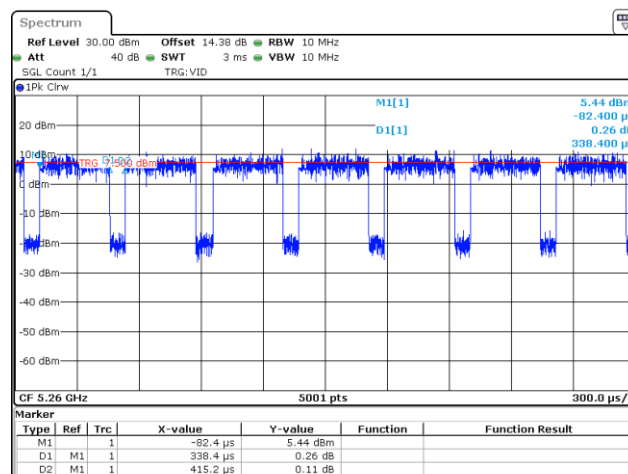
Date: 28 JAN 2026 10:28:43

802.11a 5320MHz



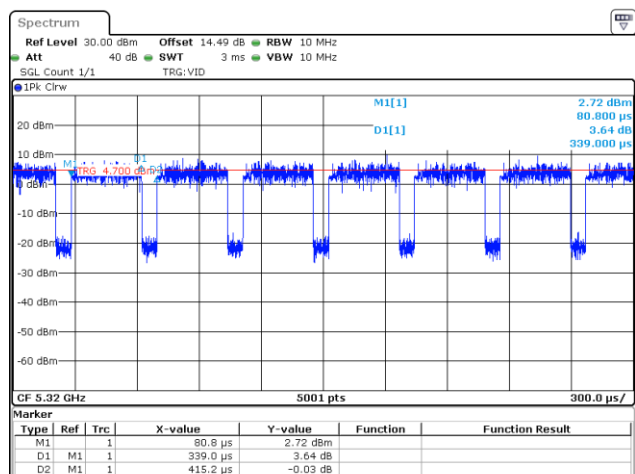
Date: 28 JAN 2026 10:38:39

802.11ac-VHT20 5260MHz



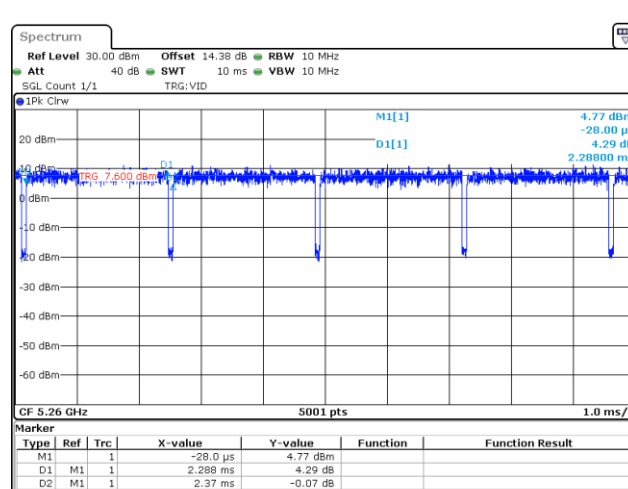
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802.11ac-VHT20 5320MHz



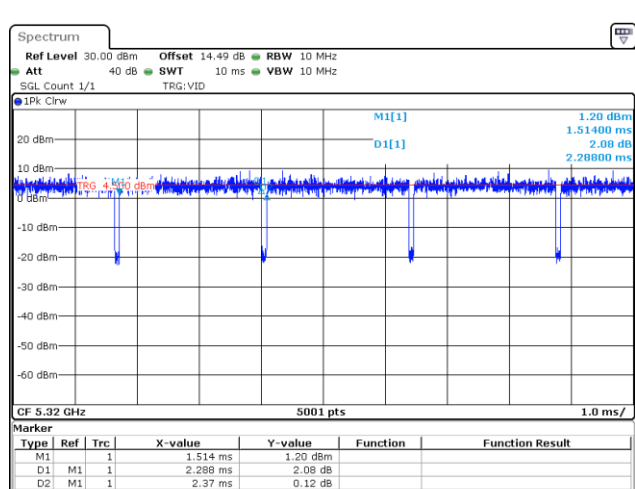
Date: 28 JAN 2026 14:01:40

802.11ax-VHT20 5260MHz



Date: 29 JAN 2026 09:13:28

802.11ax-VHT20 5320MHz

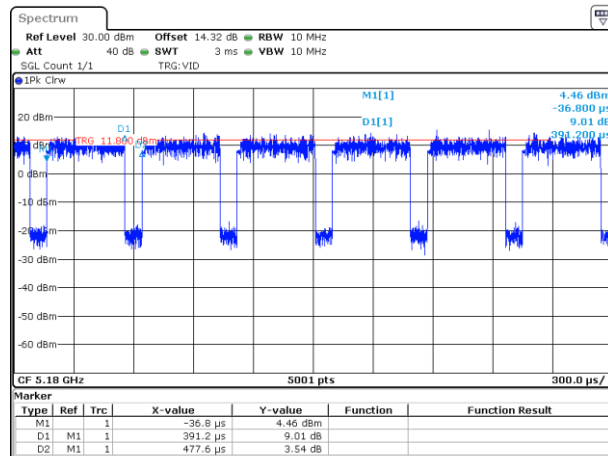


Date: 29 JAN 2026 09:30:43

Chain 1

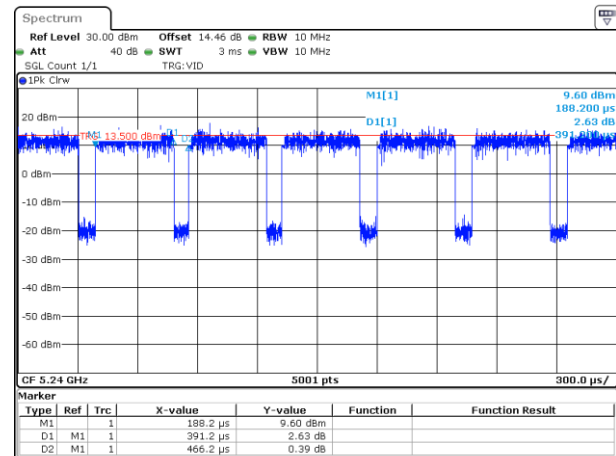
5150-5250MHz

802.11a 5180MHz



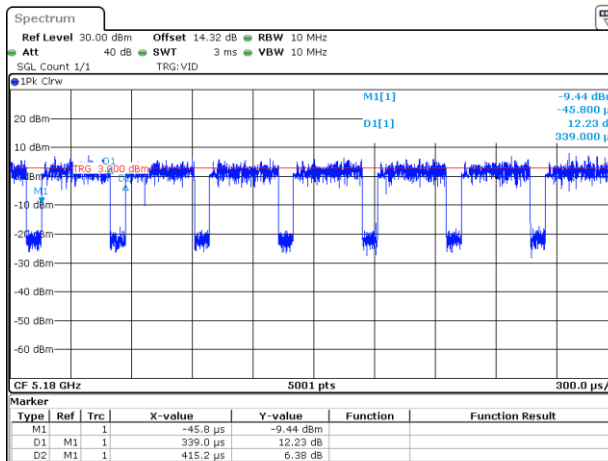
Date: 28 JAN 2026 11:08:03

802.11a 5240MHz



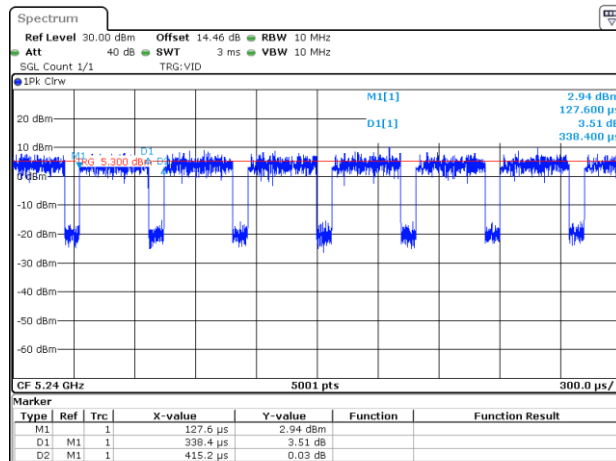
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802.11ac-VHT20 5180MHz



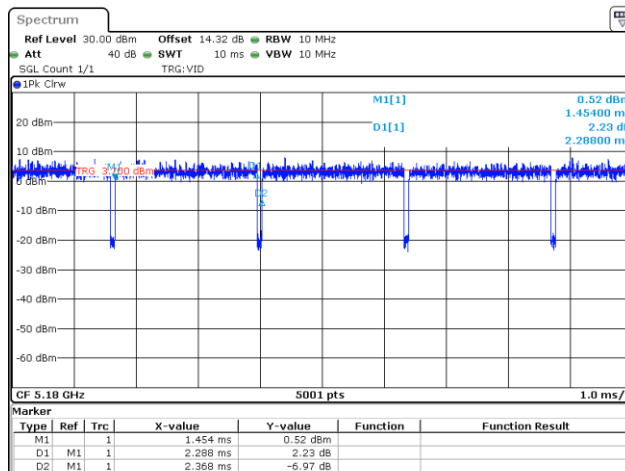
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802.11ac-VHT20 5240MHz



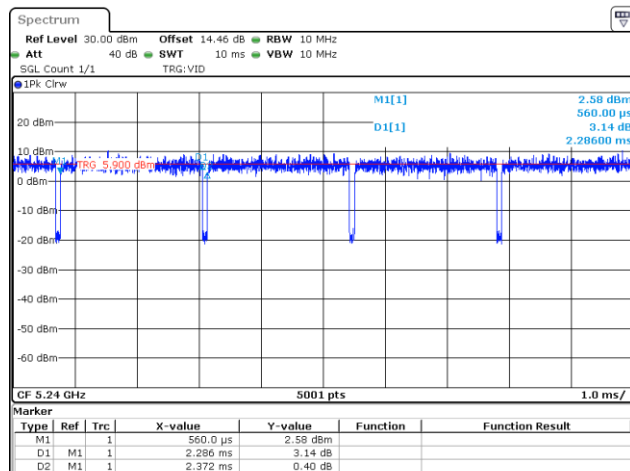
Date: 28 JAN 2026 13:46:00

802.11ax-VHT20 5180MHz



Date: 28 JAN 2026 19:30:57

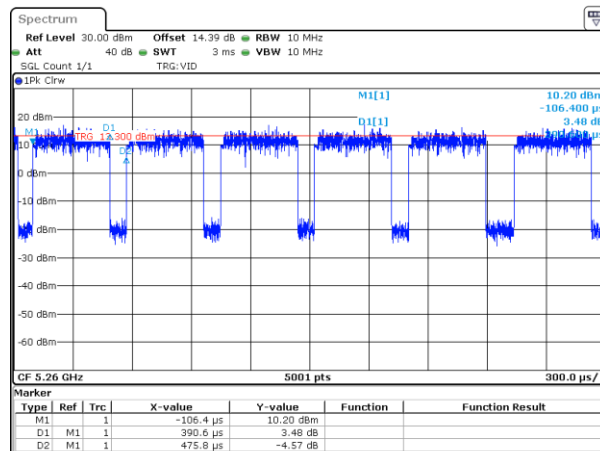
802.11ax-VHT20 5240MHz



Date: 28 JAN 2026 19:54:46

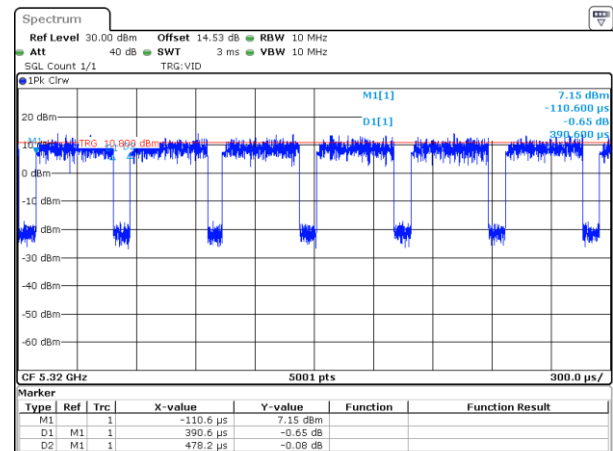
5250~5350 MHz

802.11a 5260MHz



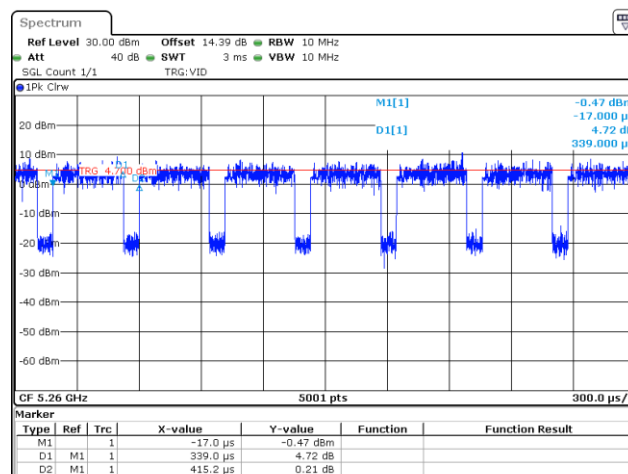
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802.11a 5320MHz



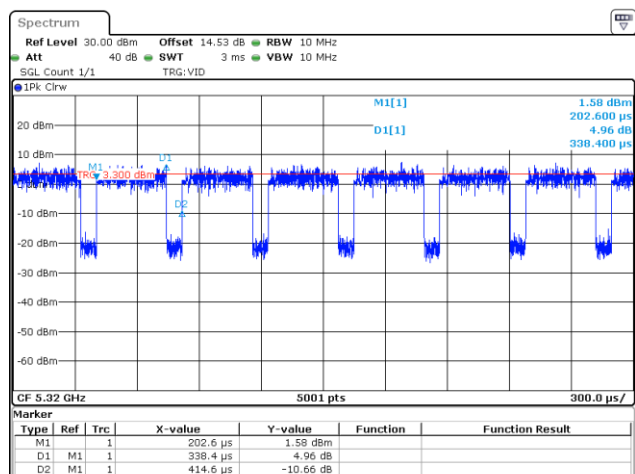
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802.11ac-VHT20 5260MHz



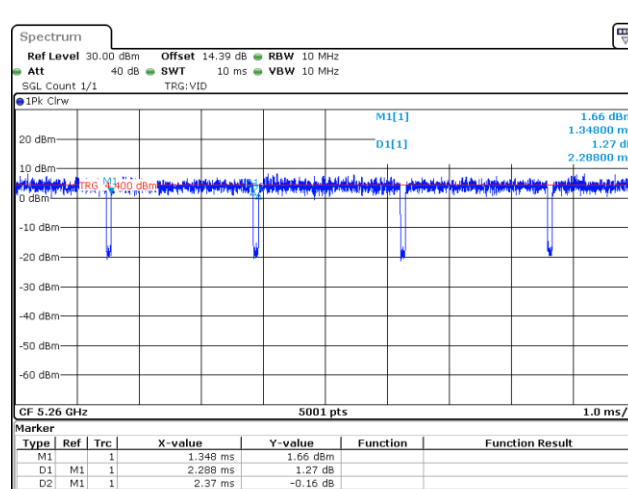
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802.11ac-VHT20 5320MHz



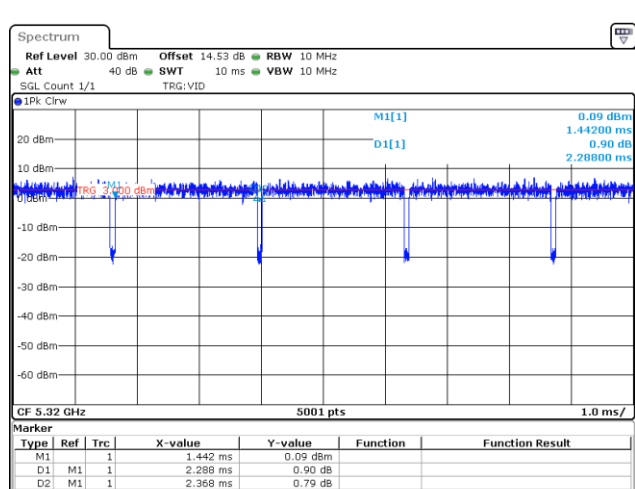
Date: 28 JAN 2026 14:02:05

802.11ax-VHT20 5260MHz



Date: 29 JAN 2026 09:13:53

802.11ax-VHT20 5320MHz



Date: 29 JAN 2026 09:31:08

TRANSMITTER UNWANTED EMISSIONS OUTSIDE THE 5 GHZ RLAN BANDS**Environmental Conditions & Test Information**

Test Date:	2026-01-28 to 2026-01-29
Temperature:	19-20 °C
Relative Humidity:	50-52 %
ATM Pressure:	102.0-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Mode: Beamforming in 802.11a mode (worst case)..

Test Result: Compliant.

Radiated Spurious Emission

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	EN 301893	
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)		Limit (dBm)	Margin (dB)
Channel Frequency: 5180 MHz										
544.22	41.63	20	200	H	-63.16	0.58	-1.38	-65.12	-54	11.12
544.22	37.73	59	100	V	-62.95	0.58	-1.38	-64.91	-54	10.91
10360.00	46.63	14	100	H	-50.12	1.98	11.93	-40.17	-30	10.17
10360.00	46.85	95	200	V	-49.90	1.98	11.93	-39.95	-30	9.95
Channel Frequency: 5260 MHz										
544.22	41.49	322	150	H	-63.30	0.58	-1.38	-65.26	-54	11.26
544.22	37.61	245	150	V	-63.07	0.58	-1.38	-65.03	-54	11.03
10520.00	47.17	27	100	H	-49.15	2.00	12.04	-39.11	-30	9.11
10520.00	47.48	79	100	V	-48.84	2.00	12.04	-38.80	-30	8.80

Note:

Antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Absolute Level = Submitted Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

TRANSMITTER UNWANTED EMISSIONS WITHIN THE 5 GHZ RLAN BANDS**Environmental Conditions & Test Information**

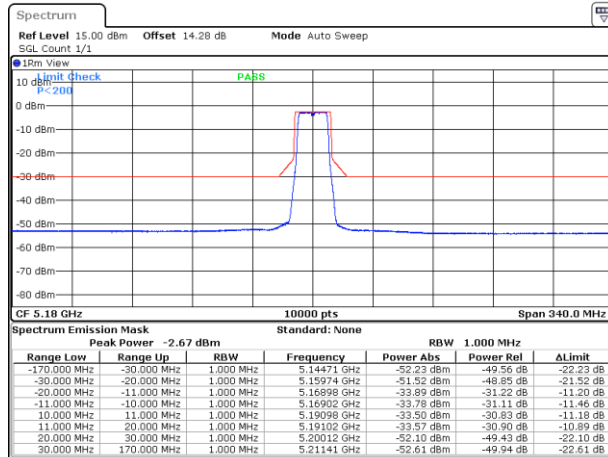
Test Date:	2026-01-28 to 2026-01-29
Temperature:	19-20 °C
Relative Humidity:	50-52 %
ATM Pressure:	102.0-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test mode: MIMO/Beamforming

Test Result: Compliant.

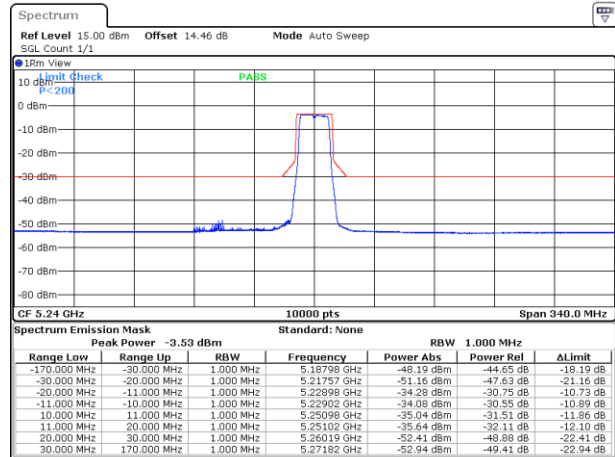
Chain 0

802.11a 5180MHz



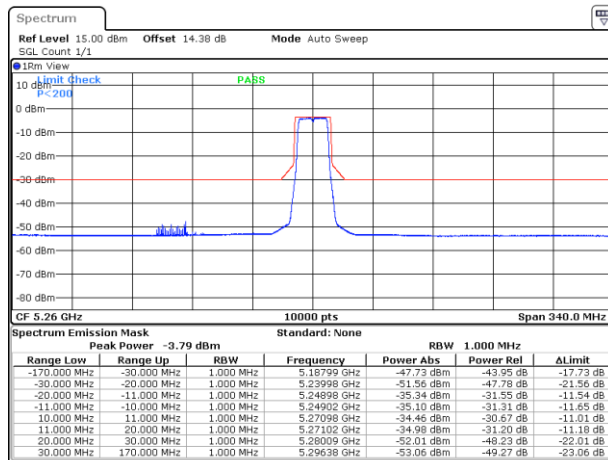
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802.11a 5240MHz



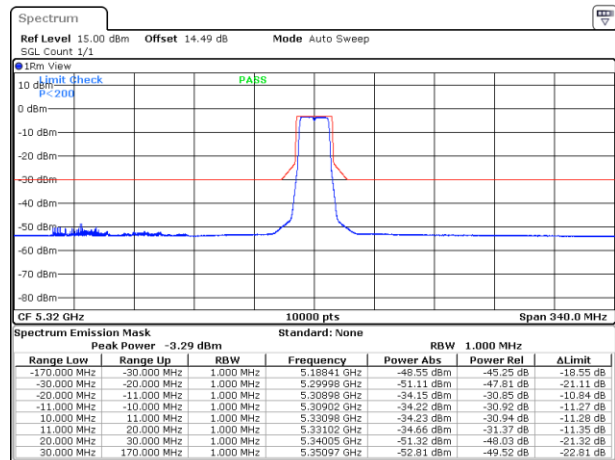
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802.11a 5260MHz



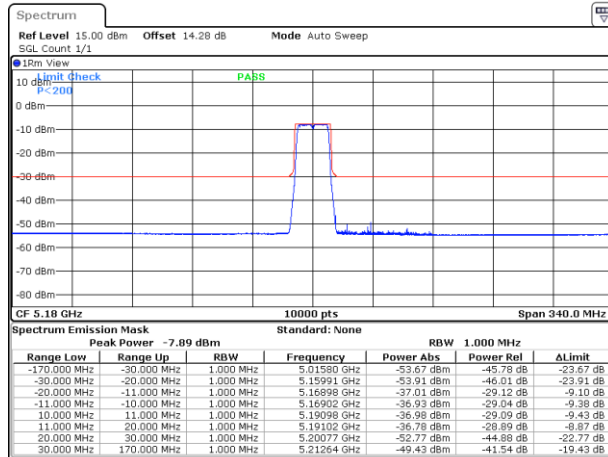
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802.11a 5320MHz



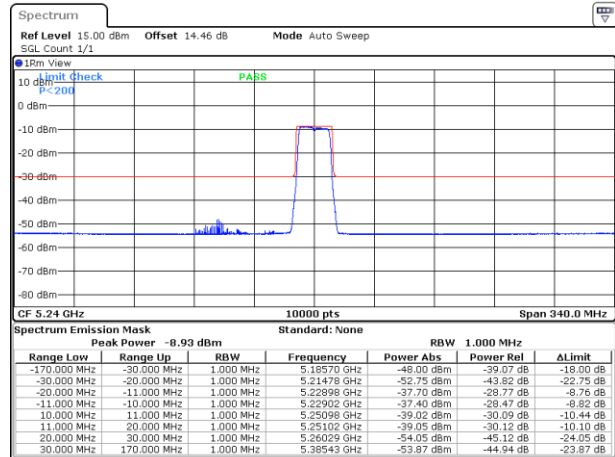
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802.11ac20 5180MHz



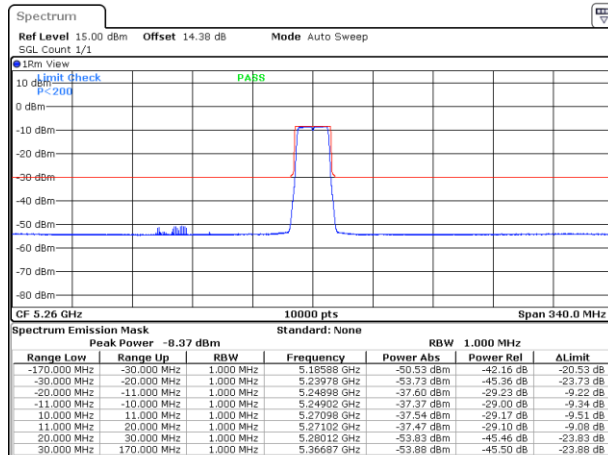
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802.11ac20 5240MHz



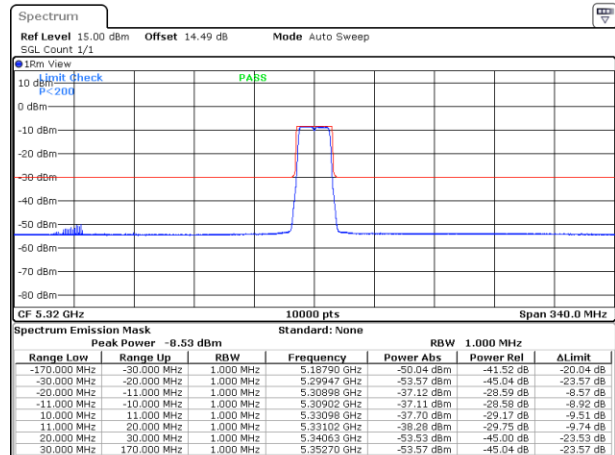
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802.11ac20 5260MHz



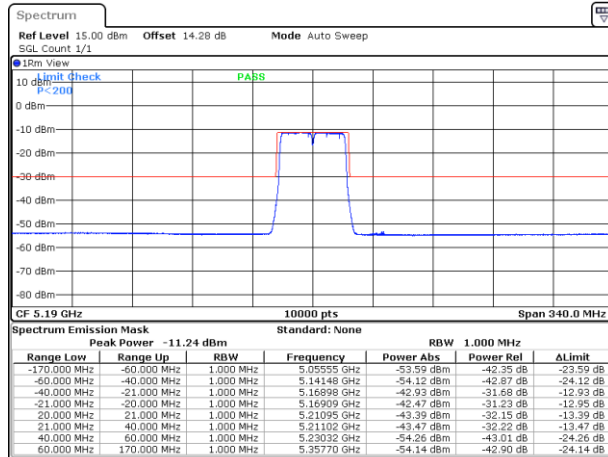
Date: 28 JAN 2026 13:59:52

802.11ac20 5320MHz



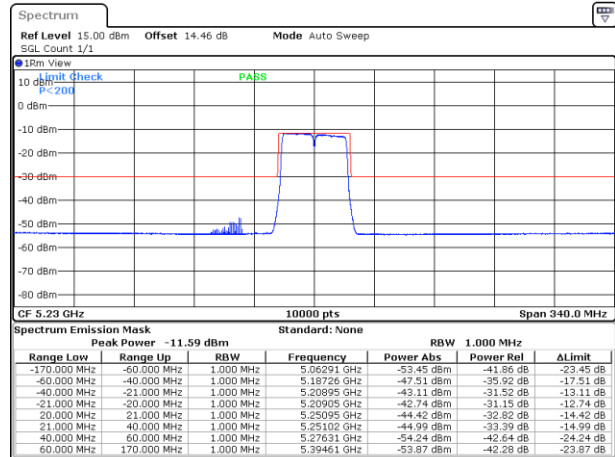
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802.11ac40 5190MHz



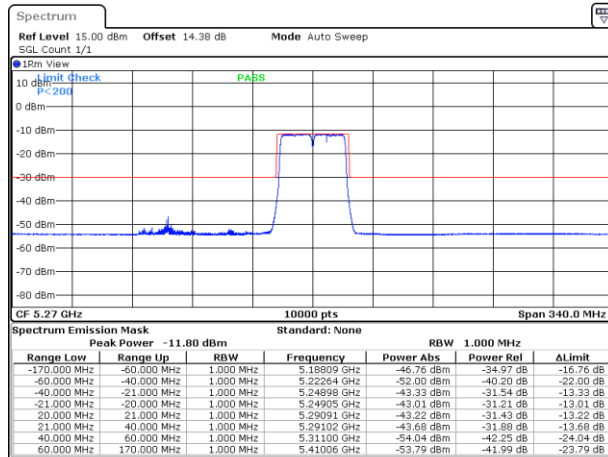
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802.11ac40 5230MHz



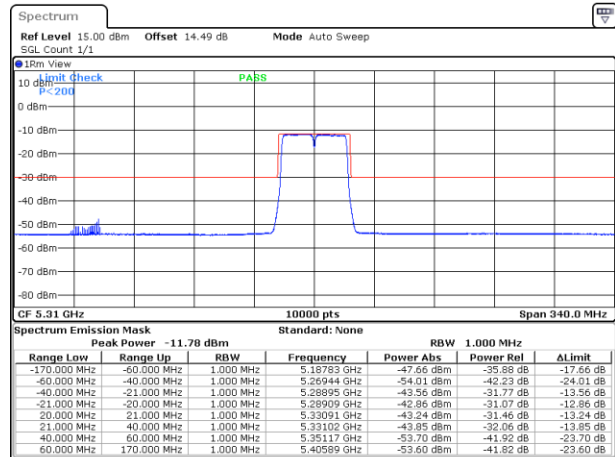
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802.11ac40 5270MHz



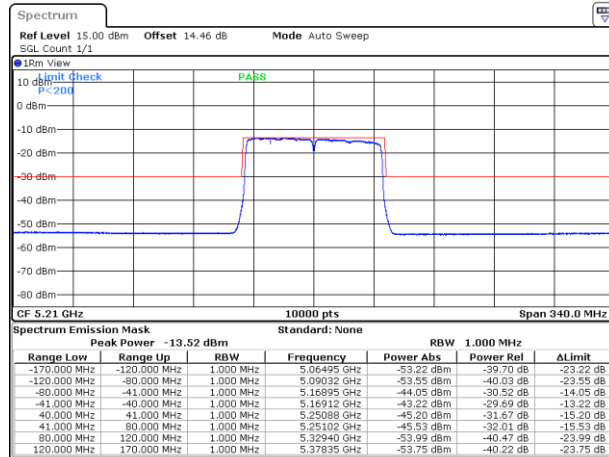
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802.11ac40 5310MHz



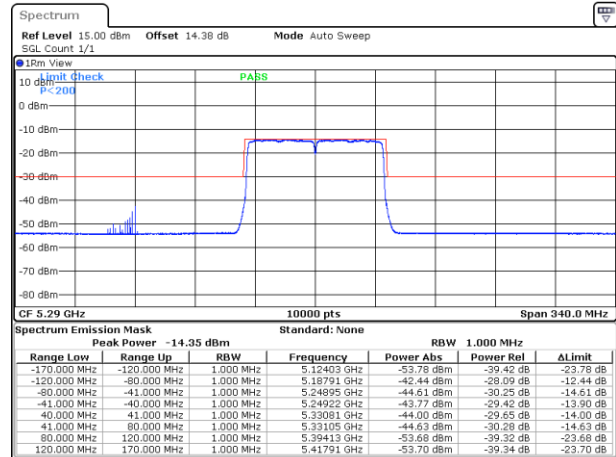
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802.11ac80 5210MHz



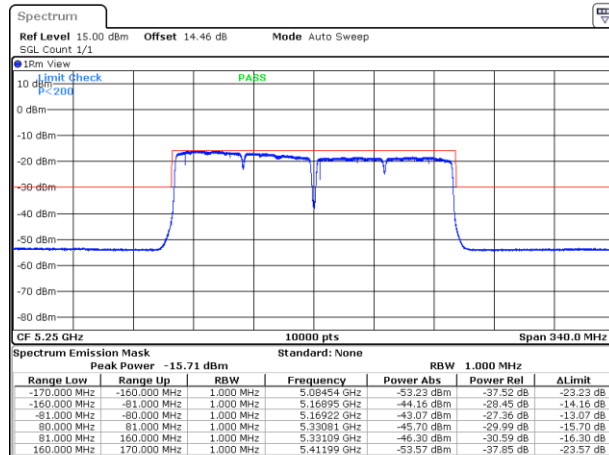
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802.11ac80 5290MHz



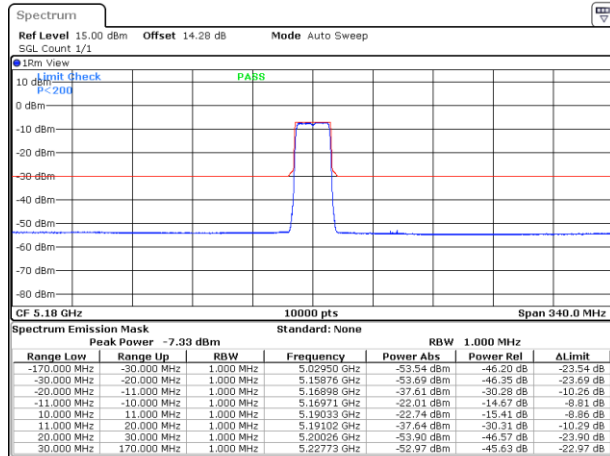
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802.11ac160 5250MHz



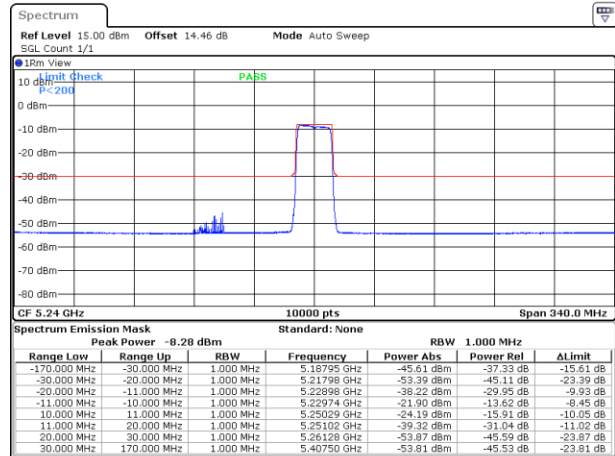
Date: 28 JAN 2026 19:09:37

802.11ax20 5180MHz



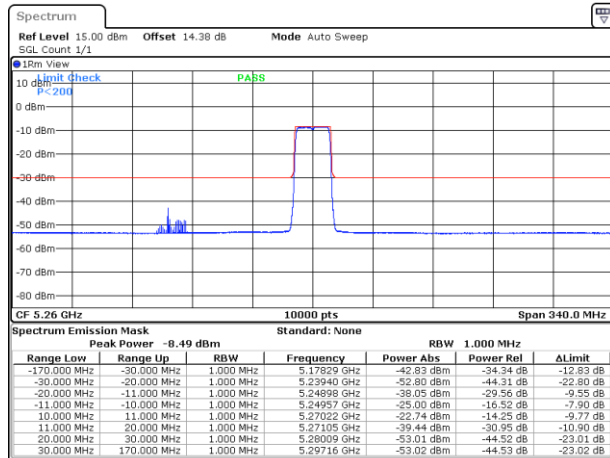
Date: 28 JAN 2026 19:48:19

802.11ax20 5240MHz



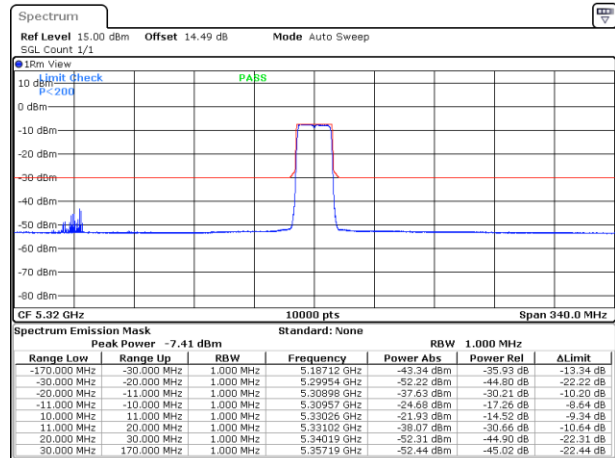
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802.11ax20 5260MHz



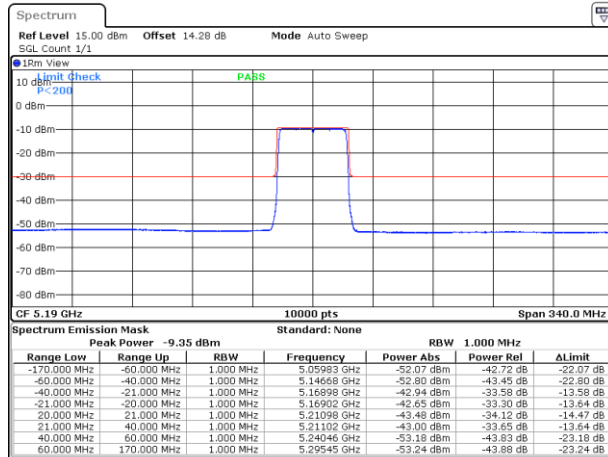
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802.11ax20 5320MHz



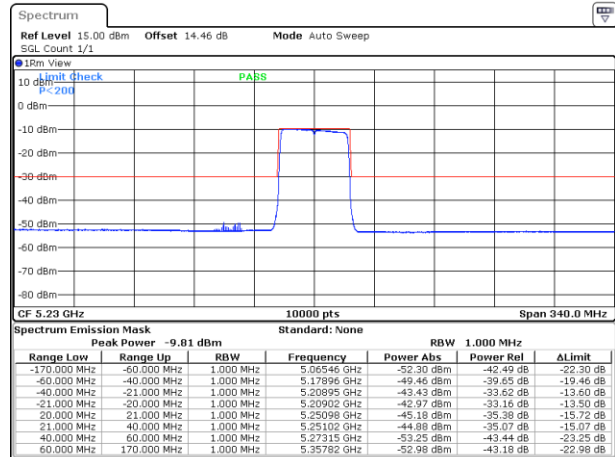
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802.11ax40 5190MHz



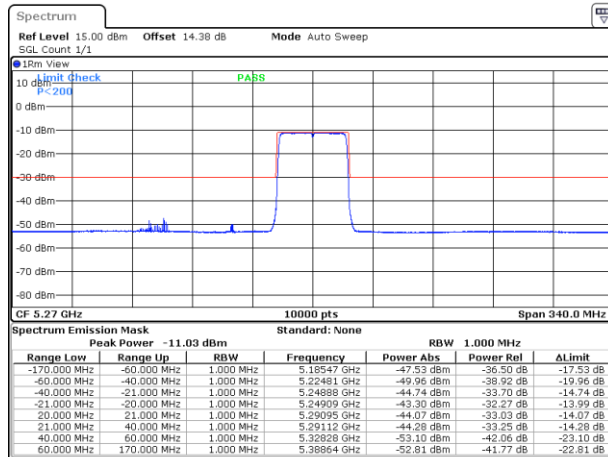
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802.11ax40 5230MHz



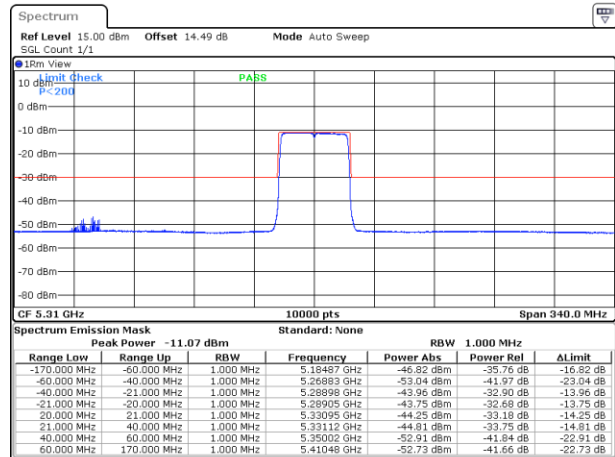
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802.11ax40 5270MHz



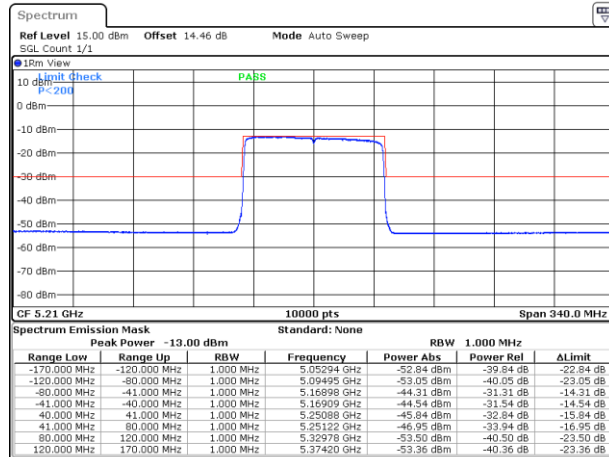
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802.11ax40 5310MHz



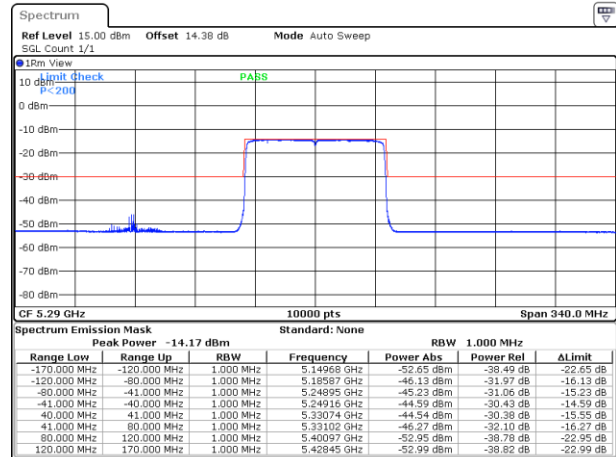
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802.11ax80 5210MHz



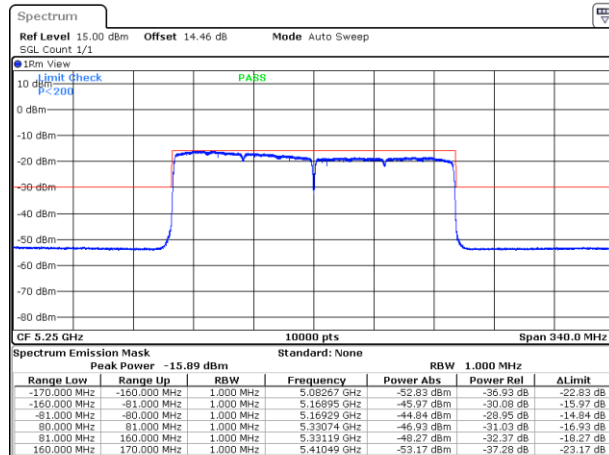
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802.11ax80 5290MHz



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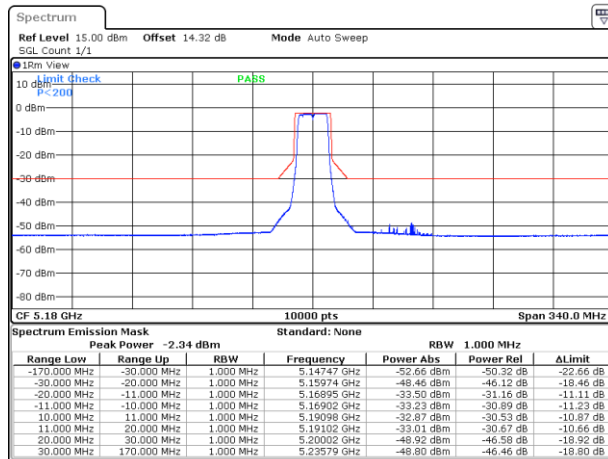
802.11ax160 5250MHz



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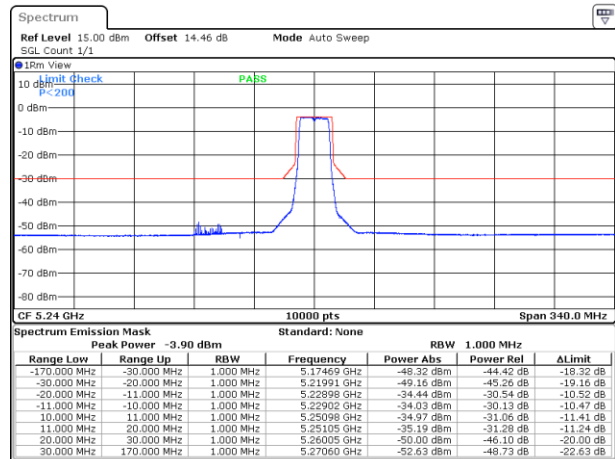
Chain 1

802.11a 5180MHz



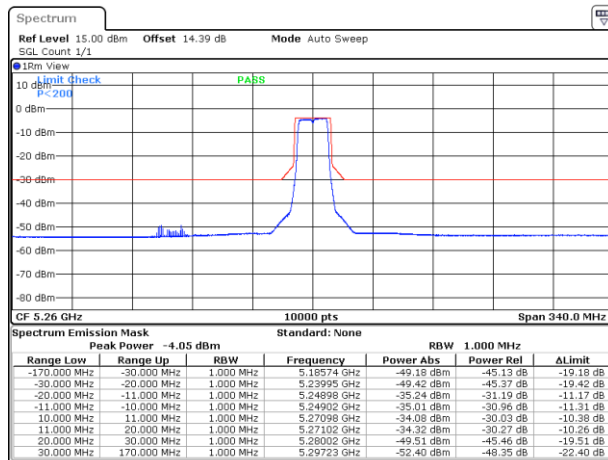
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802.11a 5240MHz



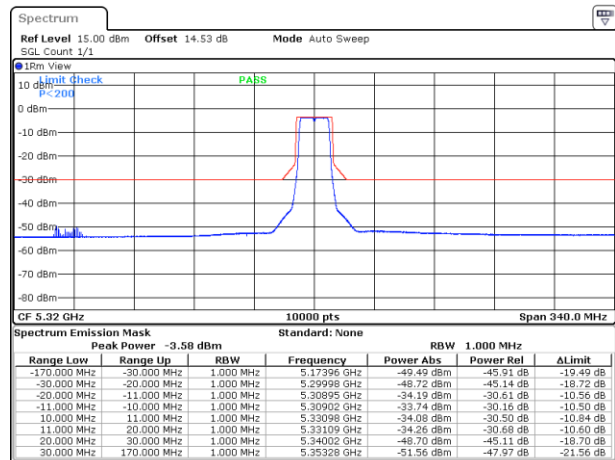
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802.11a 5260MHz



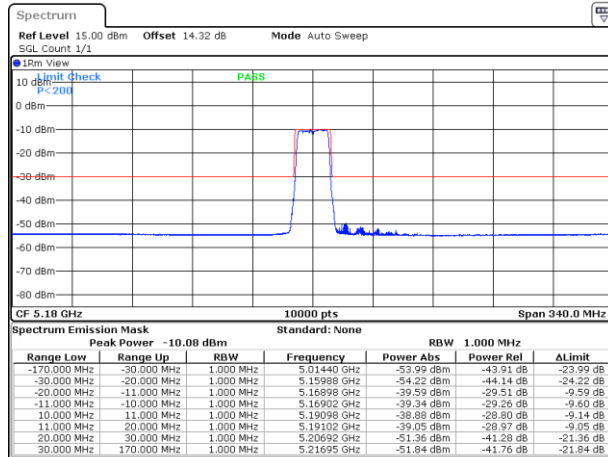
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802.11a 5320MHz



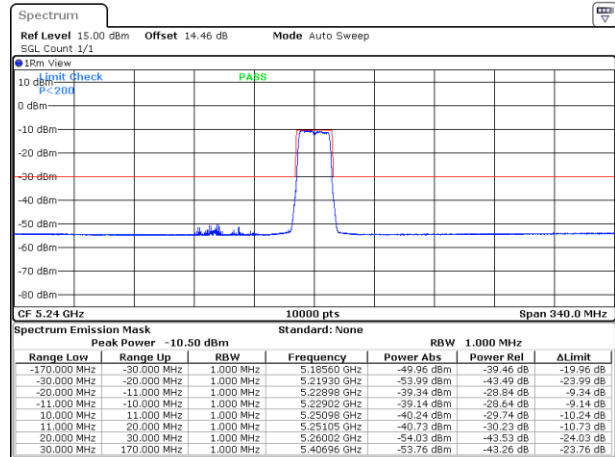
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802.11ac20 5180MHz



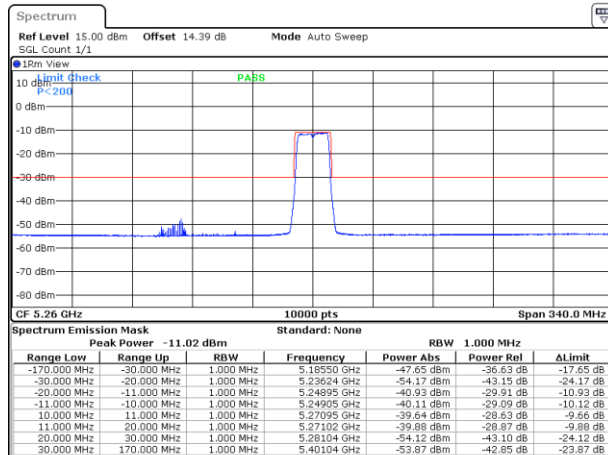
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802.11ac20 5240MHz



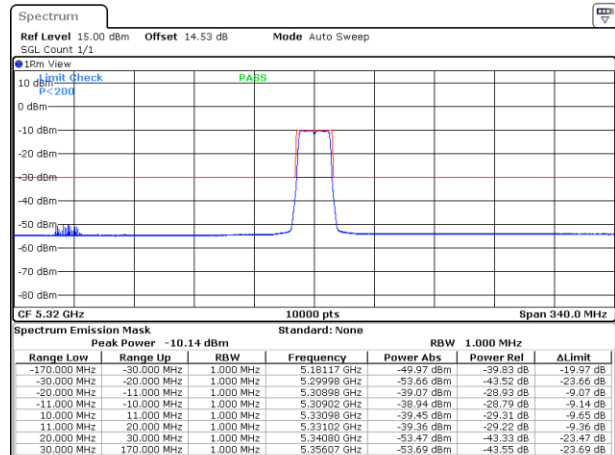
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802.11ac20 5260MHz



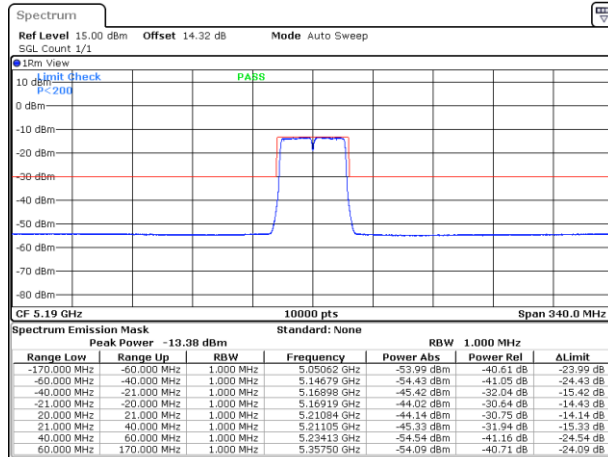
Date: 28 JAN 2026 14:00:52

802.11ac20 5320MHz



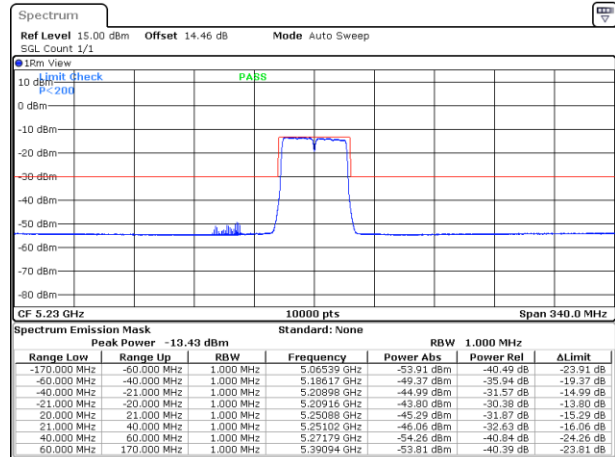
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802.11ac40 5190MHz



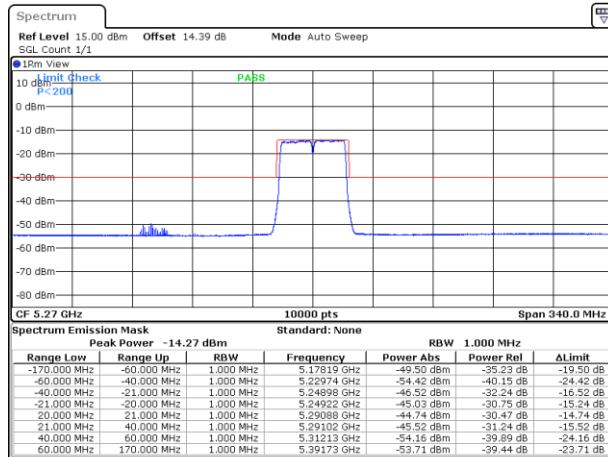
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802.11ac40 5230MHz



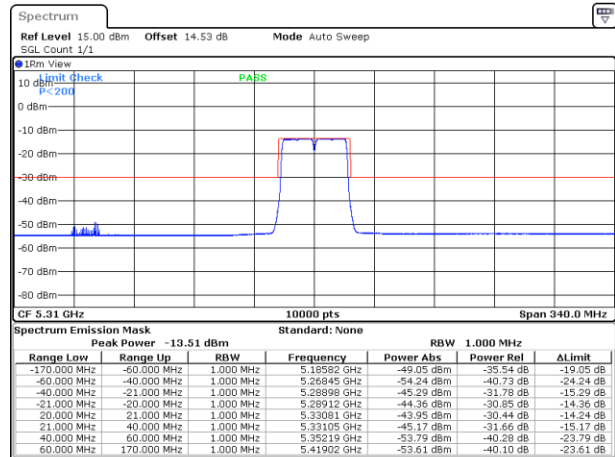
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802.11ac40 5270MHz



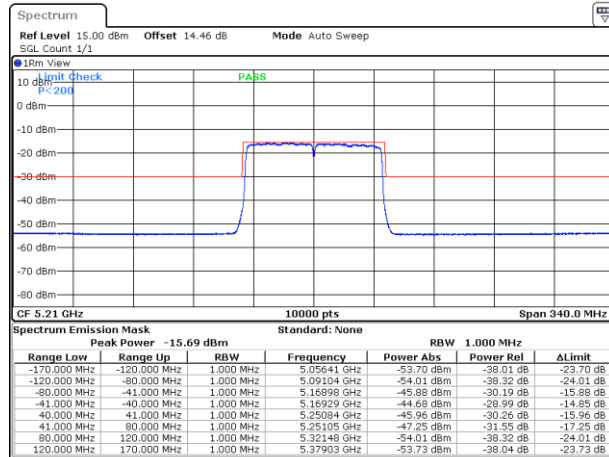
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802.11ac40 5310MHz



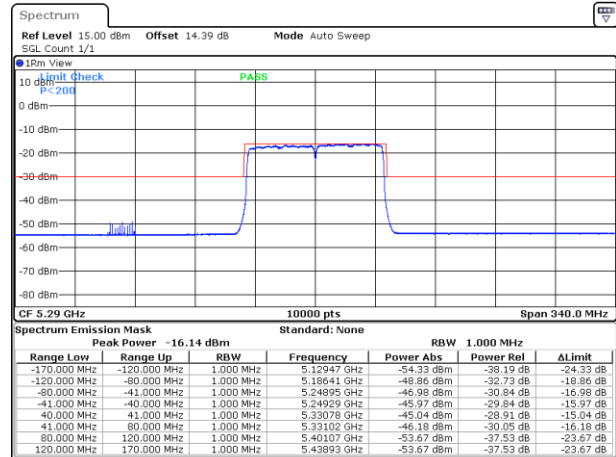
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802.11ac80 5210MHz



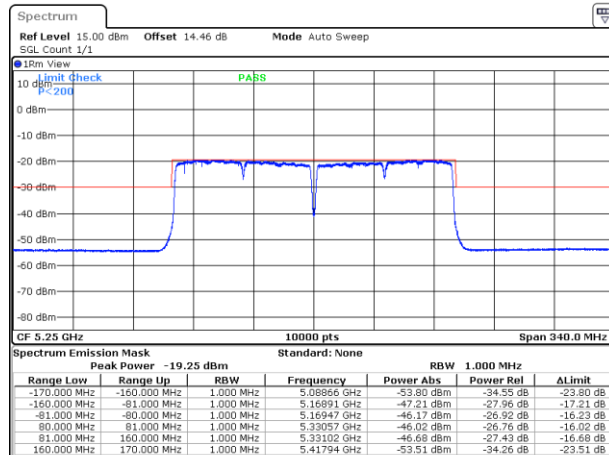
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802.11ac80 5290MHz



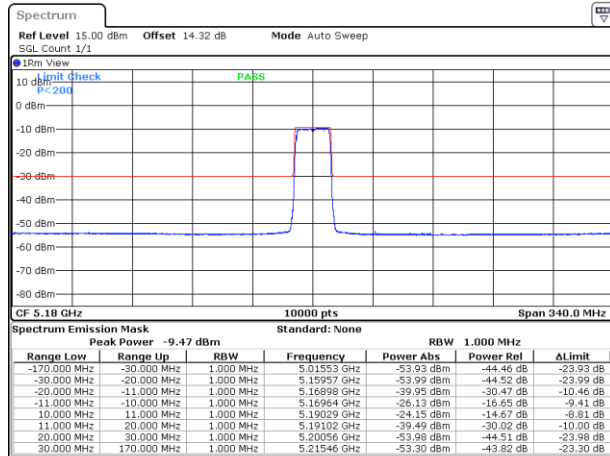
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802.11ac160 5250MHz



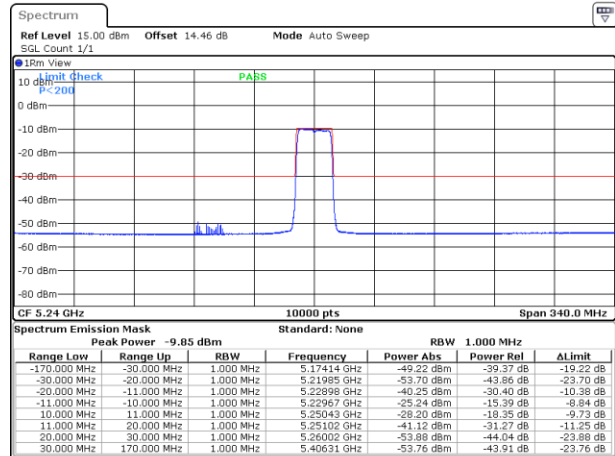
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802.11ax20 5180MHz



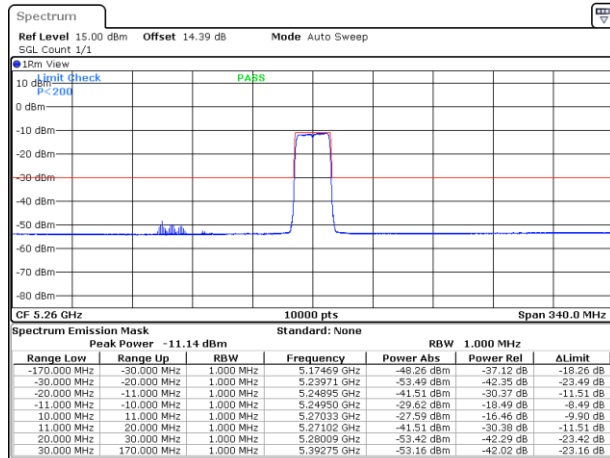
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802.11ax20 5240MHz



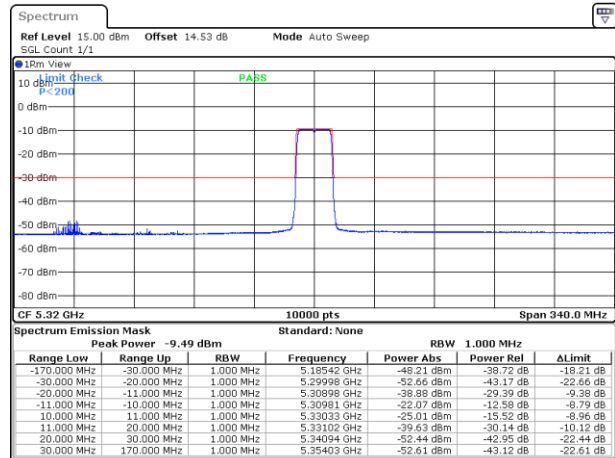
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802.11ax20 5260MHz



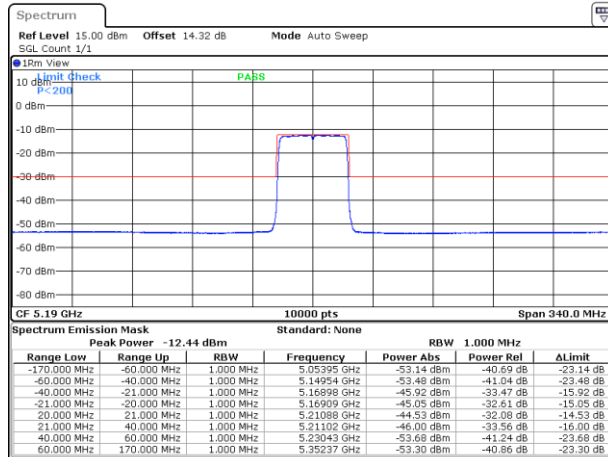
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802.11ax20 5320MHz



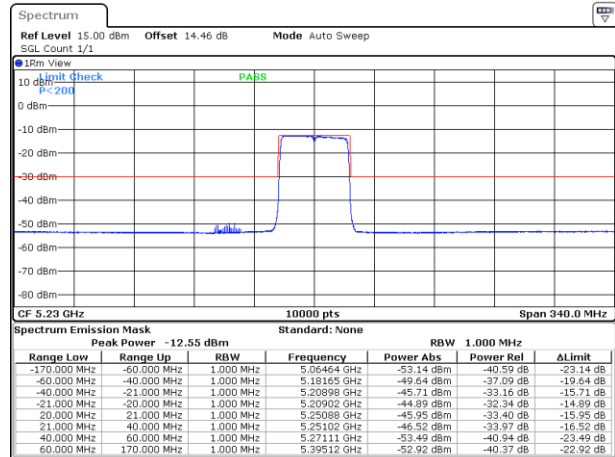
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802.11ax40 5190MHz



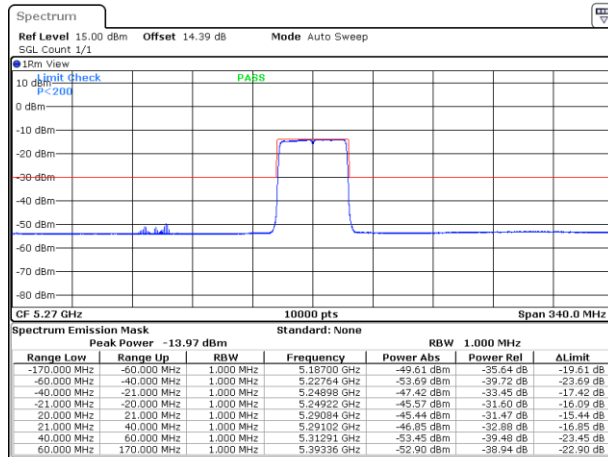
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802.11ax40 5230MHz



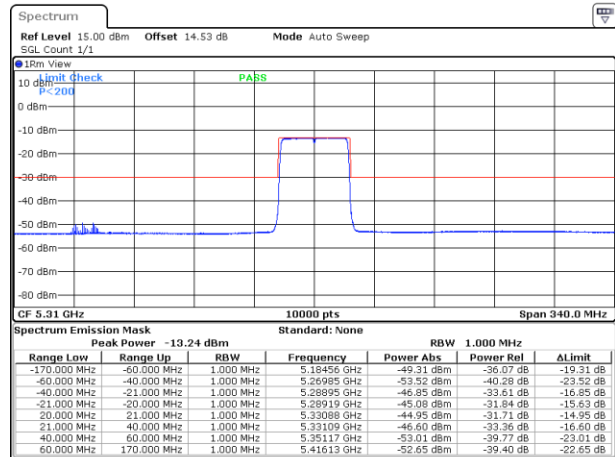
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802.11ax40 5270MHz



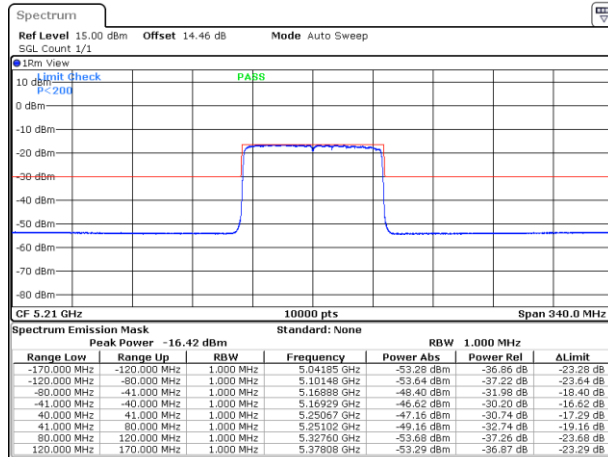
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802.11ax40 5310MHz



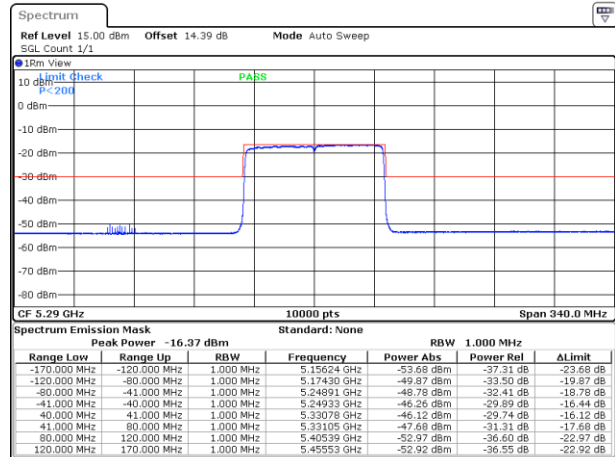
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802.11ax80 5210MHz



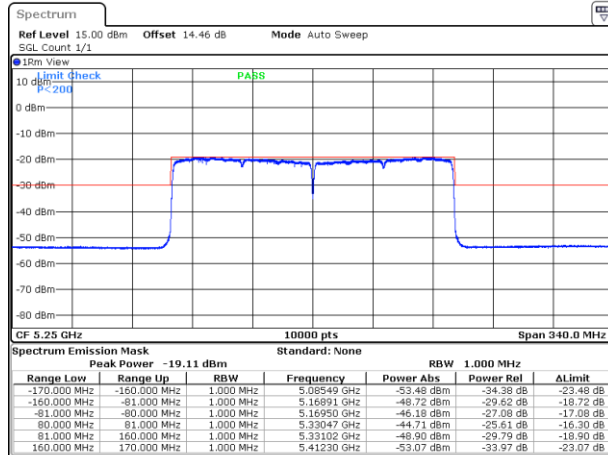
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802.11ax80 5290MHz



Date: 29 JAN 2026 13:29:40

802.11ax160 5250MHz



Date: 29 JAN 2026 13:50:09

RECEIVER SPURIOUS EMISSIONS**Environmental Conditions & Test Information**

Test Date:	2026-01-28 to 2026-01-29
Temperature:	19-20 °C
Relative Humidity:	50-52 %
ATM Pressure:	102.0-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

30MHz~26GHz*Test Mode: Receiving in 802.11a mode (worst case).***Test Result:** Compliant.

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	EN 301893	
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)		Limit (dBm)	Margin (dB)
Channel Frequency: 5180 MHz										
30.25	38.38	159	150	H	-30.12	0.14	-28.35	-58.61	-57	1.61
30.25	48.41	265	150	V	-29.98	0.14	-28.35	-58.47	-57	1.47
1105.75	51.35	34	150	H	-62.23	0.79	7.10	-55.92	-47	8.92
1105.75	51.52	46	100	V	-62.06	0.79	7.10	-55.75	-47	8.75
Channel Frequency: 5260 MHz										
30.25	38.46	57	100	H	-30.04	0.14	-28.35	-58.53	-57	1.53
30.25	48.59	175	100	V	-29.80	0.14	-28.35	-58.29	-57	1.29
1105.75	51.38	271	150	H	-62.20	0.79	7.10	-55.89	-47	8.89
1105.75	51.64	222	100	V	-61.94	0.79	7.10	-55.63	-47	8.63

Note:

Antenna gain is dBd for frequency below 1GHz and dBi for frequency above 1GHz.

Absolute Level = Submitted Level - Cable loss + Antenna Gain

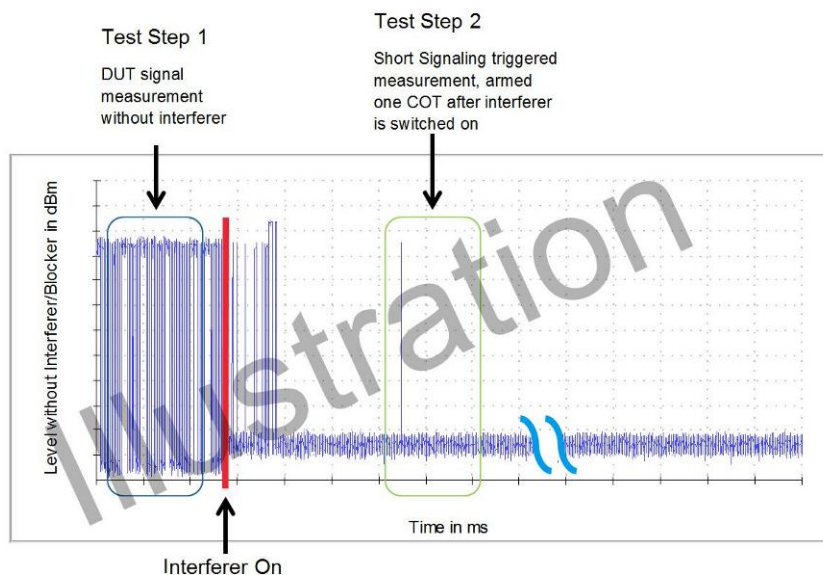
Margin = Limit- Absolute Level

ADAPTIVITY (CHANNEL ACCESS MECHANISM)**Environmental Conditions & Test Information**

Test Date:	2026-01-28 to 2026-01-29
Temperature:	19-20 °C
Relative Humidity:	50-52 %
ATM Pressure:	102.0-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Definition Results

Manufacturer's Declarations	Units	Result
EUT Payload type	Load/Frame/Both/NA	Load Based
Device Type - 1	Initiating/Responding/Both	Both
Device Type - 2	Supervising/Supervised/Both	Supervised
Multi-channel	Yes/No	No
Energy Detect Mechanism	Option 1/ Option 2	Option 1
802.11 Energy Detect Protocol	Yes/No	Yes
Priority Class	Class 1/ Class 2/ Class 3/ Class 4	Class 2

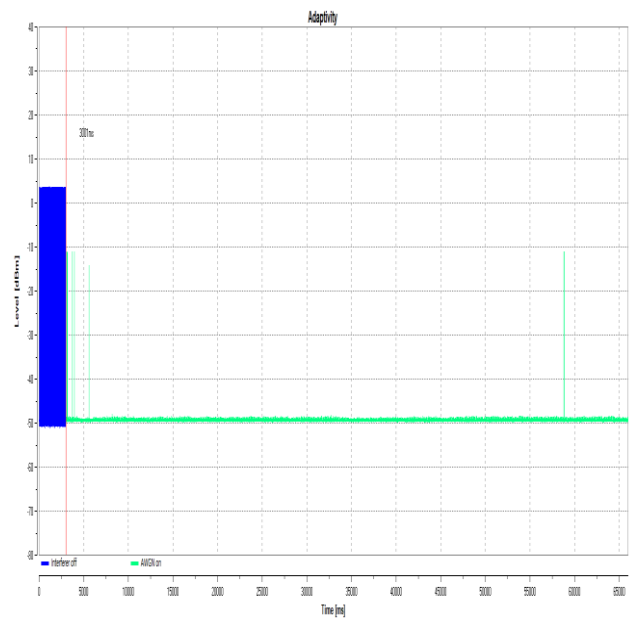
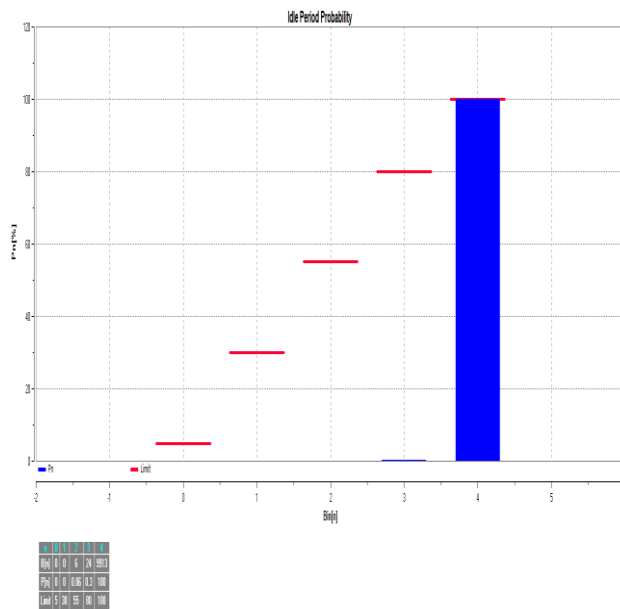
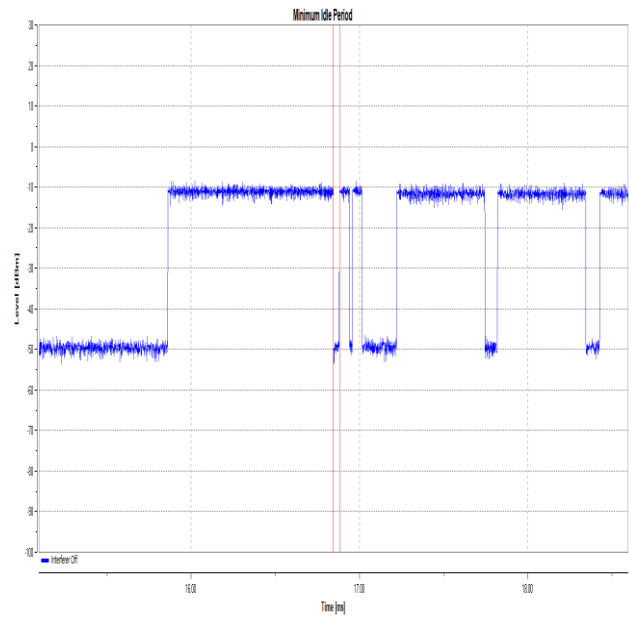
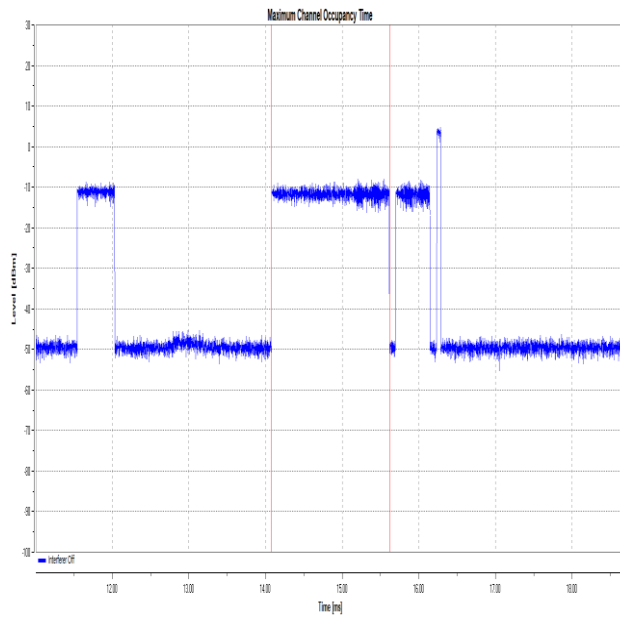
Adaptivity Test schematic graphic

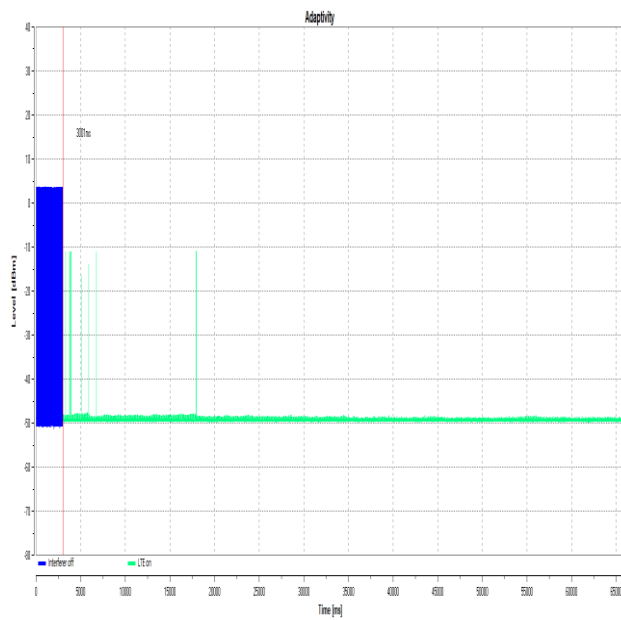
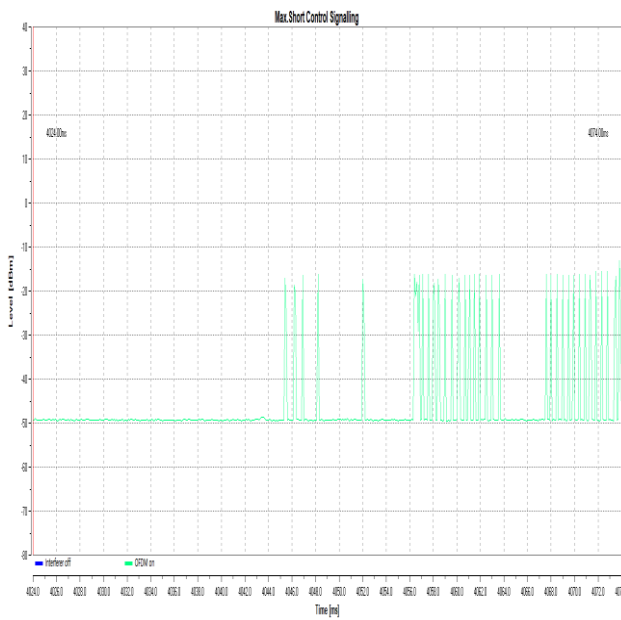
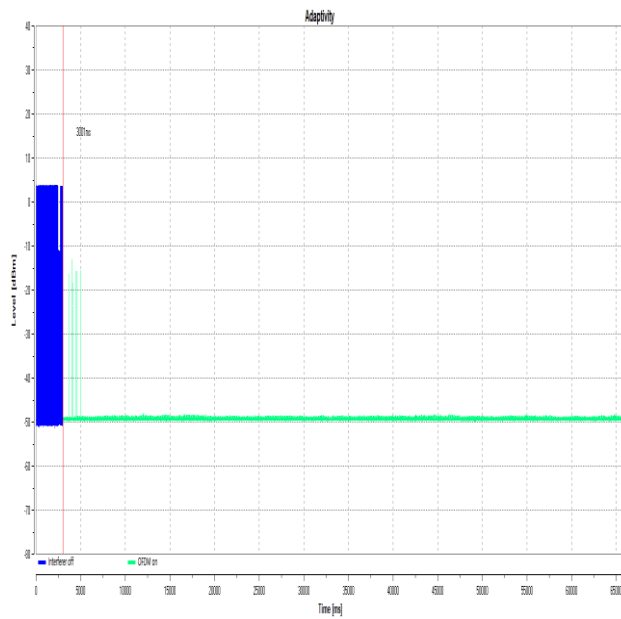
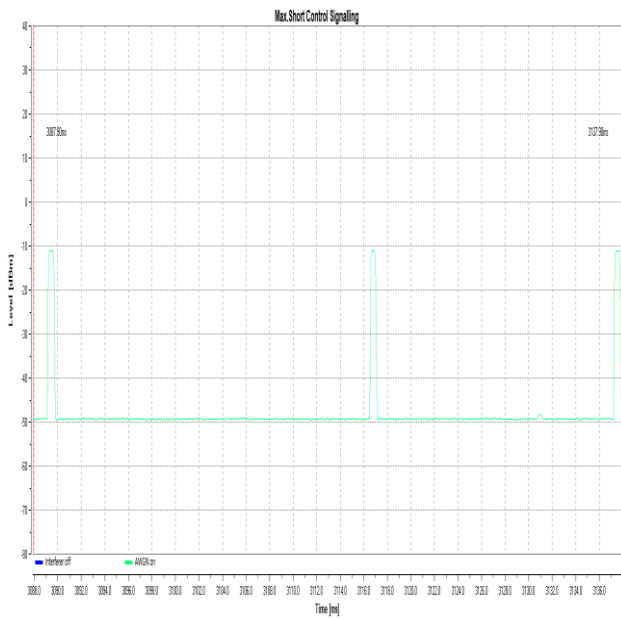
Test Results**Sub-Band 1:**

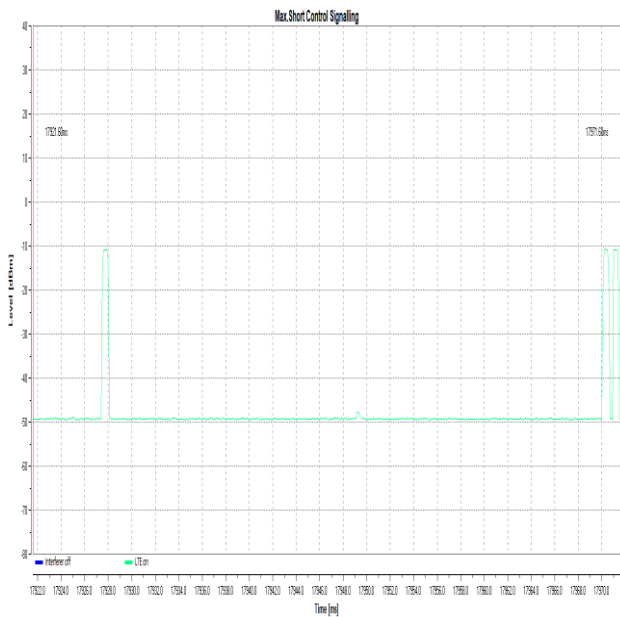
Test Mode	Frequency (MHz)	Priority Class	Max. COT [ms]	Limit [ms]	Min.Idel Time [ms]	Limit [ms]
802.11a	5180	4	1.537	<6.000	0.035	0.027

Test Mode	Channel	Interference Type	Add interference Time [ms]	Max. Short Control number [n]	Limit [n]	Max. Short Control Time [ms]	Limit [ms]	Verdict
802.11a	5180	AWGN	3001	3	< 50	1.5	< 2.5	PASS
		LTE	3001	4	< 50	0.4	< 2.5	PASS
		OFDM	3001	3	< 50	1.5	< 2.5	PASS

Sub-Band 1:







RECEIVER BLOCKING**Environmental Conditions & Test Information**

Test Date:	2026-01-28 to 2026-01-29
Temperature:	19-20 °C
Relative Humidity:	50-52 %
ATM Pressure:	102.0-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Mode: Receiving in 802.11a mode.

Test Result: Compliant.

Channel	Pmin (dBm)	Wanted signal Power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal Power (dBm)	PER (%)	Limit (%)
5180	-75	-69	5100	-59	1.53	≤10.00
			4900	-53	1.4	≤10.00
			5000	-53	1.33	≤10.00
			5975	-53	1.27	≤10.00
5260	-76	-70	5100	-59	1.47	≤10.00
			4900	-53	1.33	≤10.00
			5000	-53	1.27	≤10.00
			5975	-53	1.2	≤10.00

ADJACENT CHANNEL SELECTIVITY**Environmental Conditions & Test Information**

Test Date:	2026-01-28 to 2026-01-29
Temperature:	19-20 °C
Relative Humidity:	50-52 %
ATM Pressure:	102.0-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Mode: Beamforming in 802.11a mode (worst case).

Channel (MHz)	Pmin (dBm)	Wanted signal Power from companion device (dBm)	Interferer signal Frequency (MHz)	Interferer signal Power (dBm)	PER (%)	Limit (%)
5180	-85	-75	5160.2	-59	1.27	≤10.00
			5159.8		1.13	≤10.00
	-85	-75	5199.8	-59	1.33	≤10.00
			5200.2		1.2	≤10.00
5260	-85	-75	5240.2	-59	1.33	≤10.00
			5239.8		1.2	≤10.00
	-85	-75	5279.8	-59	1.27	≤10.00
			5280.2		1.07	≤10.00

EXHIBIT A - EUT PHOTOGRAPHS

Refer to Report No.: RSZA251230001-01B.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Radiated Spurious Emissions (Below 1GHz)



Radiated Spurious Emissions (Above 1GHz)



Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s). This report must not be duplicated or used in part without prior written consent from the laboratory.
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

******* END OF REPORT *******