



**FCC TEST REPORT**  
**FCC ID: 2BTQ9-D3MINI**

On Behalf of

**Guangzhou Yoko Electron Co.,Ltd**  
**Smart Desktop POS Terminal**  
**Model No.: See model list**

Prepared for : Guangzhou Yoko Electron Co.,Ltd  
Address : Room301,Building 2-A, No.7 Huanbaosan Rd. Xintang Town,  
Zengcheng District Guangzhou City, 511300, China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.  
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,  
Shenzhen, Guangdong, China

Report Number : A2507177-C05-R04  
Date of Receipt : September 22, 2025  
Date of Test : September 22, 2025 - December 10, 2025  
Date of Report : December 10, 2025  
Version Number : V0  
**Test Result : Pass**

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## TEST REPORT DECLARATION

Applicant : Guangzhou Yoko Electron Co.,Ltd  
Address : Room301,Building 2-A, No.7 Huanbaosan Rd. Xintang Town, Zengcheng District  
Guangzhou City, 511300, China  
Manufacturer : Guangzhou Yoko Electron Co.,Ltd  
Address : Room301,Building 2-A, No.7 Huanbaosan Rd. Xintang Town, Zengcheng District  
Guangzhou City, 511300, China  
EUT Description : Smart Desktop POS Terminal  
(A) Model No. : See model list  
(B) Trademark : 

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart E, ANSI C63.10:2020**

**KDB 789033 D02 General U-NII Test Procedures New Rules v02r01**

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart E limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

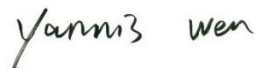
After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:

Yannis Wen

Project Engineer

  
.....

Approved by (name + signature).....:

Jack Xu

Project Manager

  
.....

Date of issue.....:

December 10, 2025

**Revision History**

| Revision | Issue Date        | Revisions              | Revised By |
|----------|-------------------|------------------------|------------|
| V0       | December 10, 2025 | Initial released Issue | Yannis Wen |

# 1 Test Summary

| Test Item                        | Section in CFR 47         | Result |
|----------------------------------|---------------------------|--------|
| Antenna requirement              | Section 15.203            | PASS   |
| AC Power Line Conducted Emission | Section 15.207(a)         | PASS   |
| Maximum Conducted Output Power   | Section 15.407(a) (c) (g) | PASS   |
| Power Spectral Density           | Section 15.407(a) (c) (g) | PASS   |
| Undesirable Emission             | Section 15.407(b) (c) (g) | PASS   |
| Conducted Spurious Emission      | Section 15.407(b) (c) (g) | PASS   |
| Radiated Emission                | 15.205&15.209 (a)         | PASS   |
| Conducted Band Edge              | Section 15.407(b) (c) (g) | PASS   |
| Radiated Band Edge               | 15.205&15.209 (a)         | PASS   |

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Frequency Stability: The manufacturer stated in the user's manual.
3. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

## 1.1 Measurement Uncertainty

| Item                                                                   | Uncertainty               |
|------------------------------------------------------------------------|---------------------------|
| Uncertainty for Power point Conducted Emissions Test                   | 1.63dB                    |
| Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)    | 3.5dB                     |
| Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)  | 3.74dB(Polarize: V)       |
|                                                                        | 3.76dB(Polarize: H)       |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)  | 3.77dB(Polarize: V)       |
|                                                                        | 3.80dB(Polarize: H)       |
| Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz) | 4.31 dB(Polarize: V)      |
|                                                                        | 4.30 dB(Polarize: H)      |
| Uncertainty for radio frequency                                        | $5.06 \times 10^{-8}$ GHz |
| Uncertainty for conducted RF Power                                     | 0.40dB                    |
| Uncertainty for temperature                                            | 0.2°C                     |
| Uncertainty for humidity                                               | 1%                        |
| Uncertainty for DC and low frequency voltages                          | 0.06%                     |

## 2 General Information

### 2.1 General Description of EUT

|              |                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------|
| EUT Name     | : Smart Desktop POS Terminal                                                                     |
| Model No.    | : See model list                                                                                 |
| DIFF.        | : There is no difference except the name of the model. All tests are made with the D3mini model. |
| Power supply | : DC 12V from adapter and DC 24V from adapter.                                                   |

|                        |                                                                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Radio Technology       | : 5G WIFI                                                                                                                                                                                                                         |
| Operation Frequency    | : 802.11a/n(HT20)/ac(VHT20)/ax(HE20): 5180~5240MHz, 5260~5320MHz; 5500~5700MHz, 5745~5825MHz<br>802.11n(HT40)/ac(VHT40)/ax(HE40): 5190~5230MHz, 5270~5310MHz; 5510~5670MHz, 5755~5795MHz                                          |
| Channel separation     | : 20MHz for 802.11a/ 802.11ac(VHT20)/ 802.11n(HT20)/ 802.11ax(HE20)<br>40MHz for 802.11ac(VHT40)/ 802.11n(HT40)/ 802.11ax(HE40)                                                                                                   |
| Modulation technology: | : IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac: OFDM (64QAM, 16QAM, 256QAM, QPSK, BPSK)<br>IEEE 802.11ax :OFDMA<br>(64QAM, 16QAM, QPSK, BPSK, 256QAM, 1024QAM) |
| Antenna Type           | : PCB antenna, Maximum Gain is 2.5dBi<br>(Antenna information is provided by applicant.)                                                                                                                                          |
| Software version       | : V1.0                                                                                                                                                                                                                            |
| Hardware version       | : V1.0                                                                                                                                                                                                                            |
| Intend use environment | : Residential, commercial and light industrial environment                                                                                                                                                                        |

## 2.2 Test mode

| <b>Band 1: 5150-5250MHz</b> |                            |         |                 |
|-----------------------------|----------------------------|---------|-----------------|
| Mode                        | data rate (Mbps)(see Note) | Channel | Frequency (MHz) |
| IEEE 802.11a                | 6                          | Low     | 5180            |
|                             | 6                          | Middle  | 5200            |
|                             | 6                          | High    | 5240            |
| IEEE 802.11n(HT20)          | MCS0                       | Low     | 5180            |
|                             | MCS0                       | Middle  | 5200            |
|                             | MCS0                       | High    | 5240            |
| IEEE 802.11ac(VHT20)        | MCS0                       | Low     | 5180            |
|                             | MCS0                       | Middle  | 5200            |
|                             | MCS0                       | High    | 5240            |
| IEEE 802.11ax(HE20)         | MCS0                       | Low     | 5180            |
|                             | MCS0                       | Middle  | 5200            |
|                             | MCS0                       | High    | 5240            |
| IEEE 802.11n(HT40)          | MCS0                       | Low     | 5190            |
|                             | MCS0                       | High    | 5230            |
| IEEE 802.11ac(VHT40)        | MCS0                       | Low     | 5190            |
|                             | MCS0                       | High    | 5230            |
| IEEE 802.11ax(HE40)         | MCS0                       | Low     | 5190            |
|                             | MCS0                       | High    | 5230            |
| <b>Band 2: 5250-5350MHz</b> |                            |         |                 |
| Mode                        | data rate (Mbps)(see Note) | Channel | Frequency       |
| IEEE 802.11a                | 6                          | Low     | 5260            |
|                             | 6                          | Middle  | 5280            |
|                             | 6                          | High    | 5320            |
| IEEE 802.11n(HT20)          | MCS0                       | Low     | 5260            |
|                             | MCS0                       | Middle  | 5280            |
|                             | MCS0                       | High    | 5320            |
| IEEE 802.11ac(VHT20)        | MCS0                       | Low     | 5260            |
|                             | MCS0                       | Middle  | 5280            |
|                             | MCS0                       | High    | 5320            |
| IEEE 802.11ax(HE20)         | MCS0                       | Low     | 5260            |
|                             | MCS0                       | Middle  | 5280            |
|                             | MCS0                       | High    | 5320            |
| IEEE 802.11n(HT40)          | MCS0                       | Low     | 5270            |
|                             | MCS0                       | High    | 5310            |
| IEEE 802.11ac(VHT40)        | MCS0                       | Low     | 5270            |
|                             | MCS0                       | High    | 5310            |
| IEEE 802.11ax(HE40)         | MCS0                       | Low     | 5270            |
|                             | MCS0                       | High    | 5310            |

| <b>Band 3: 5470-5725MHz</b> |                            |         |           |
|-----------------------------|----------------------------|---------|-----------|
| Mode                        | data rate (Mbps)(see Note) | Channel | Frequency |
| IEEE 802.11a                | 6                          | Low     | 5500      |
|                             | 6                          | Middle  | 5580      |
|                             | 6                          | High    | 5700      |
| IEEE 802.11n(HT20)          | MCS0                       | Low     | 5500      |
|                             | MCS0                       | Middle  | 5580      |
|                             | MCS0                       | High    | 5700      |
| IEEE 802.11ac(VHT20)        | MCS0                       | Low     | 5500      |
|                             | MCS0                       | Middle  | 5580      |
|                             | MCS0                       | High    | 5700      |
| IEEE 802.11ax(HE20)         | MCS0                       | Low     | 5500      |
|                             | MCS0                       | Middle  | 5580      |
|                             | MCS0                       | High    | 5700      |
| IEEE 802.11n(HT40)          | MCS0                       | Low     | 5510      |
|                             | MCS0                       | High    | 5670      |
| IEEE 802.11ac(VHT40)        | MCS0                       | Low     | 5510      |
|                             | MCS0                       | High    | 5670      |
| IEEE 802.11ax(HE40)         | MCS0                       | Low     | 5510      |
|                             | MCS0                       | High    | 5670      |
| <b>Band 4: 5725-5825MHz</b> |                            |         |           |
| Mode                        | data rate (Mbps)(see Note) | Channel | Frequency |
| IEEE 802.11a                | 6                          | Low     | 5745      |
|                             | 6                          | Middle  | 5785      |
|                             | 6                          | High    | 5825      |
| IEEE 802.11n(HT20)          | MCS0                       | Low     | 5745      |
|                             | MCS0                       | Middle  | 5785      |
|                             | MCS0                       | High    | 5825      |
| IEEE 802.11ac(VHT20)        | MCS0                       | Low     | 5745      |
|                             | MCS0                       | Middle  | 5785      |
|                             | MCS0                       | High    | 5825      |
| IEEE 802.11ax(HE20)         | MCS0                       | Low     | 5745      |
|                             | MCS0                       | Middle  | 5785      |
|                             | MCS0                       | High    | 5825      |
| IEEE 802.11n(HT40)          | MCS0                       | Low     | 5755      |
|                             | MCS0                       | High    | 5795      |
| IEEE 802.11ac(VHT40)        | MCS0                       | Low     | 5755      |
|                             | MCS0                       | High    | 5795      |
| IEEE 802.11ax(HE40)         | MCS0                       | Low     | 5755      |
|                             | MCS0                       | High    | 5795      |

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

## 2.3 Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

## 2.4 Description of Support Units

Accessories : AC ADAPTER  
Manufacturer : Hunan Dajing Power Technology Co., Ltd.  
Model : ADP-60D24  
INPUT : 100-240V~50/60Hz 1.5A MAX  
OUTPUT : 24.0V = 2.5A 60.0W  
Accessories AC ADAPTER  
Manufacturer Hunan Dajing Power Technology Co., Ltd.  
Model 2102M-120300E  
INPUT 100-240V~50/60Hz 0.8A MAX  
OUTPUT +12.0V = 3.0A 36.0W

## 2.5 Deviation from Standards

None.

## 2.6 Abnormalities from Standard Conditions

None.

## 2.7 Other Information Requested by the Customer

None.

## 2.8 Additional instructions

Software (Used for test) from client

| Channel | Power level |
|---------|-------------|
| Lowest  | Default     |
| Middle  | Default     |
| Highest | Default     |

Note: Using QRCT testing software to control EUT operation in continuous TX mode, the test software version is V4.0, and select test channel, wireless mode, The power level for the test is set to Default.

### 3 Test Instruments list

| Equipment                 | Manufacturer  | Model No.        | Firmware version | Serial No.                 | Last Cal.  | Cal. Due day |
|---------------------------|---------------|------------------|------------------|----------------------------|------------|--------------|
| 9*6*6 anechoic chamber    | CHENYU        | 9*6*6            | /                | N/A                        | 2025.03.09 | 4Year        |
| 4*4*3 Shielded room       | CHENYU        | 4*4*3            | /                | N/A                        | 2025.03.09 | 4Year        |
| Spectrum analyzer         | ROHDE&SCHWARZ | FSV40-N          | 2.3              | 102137                     | 2025.08.04 | 1Year        |
| Spectrum analyzer         | Agilent       | N9020A           | A.14.16          | MY499100060                | 2025.08.04 | 1Year        |
| Test Receiver             | ROHDE&SCHWARZ | ESR              | 2.28 SP1         | 1316.3003K03<br>-102082-Wa | 2025.08.04 | 1Year        |
| Test Receiver             | ROHDE&SCHWARZ | ESCI             | 4.42 SP1         | 101165                     | 2025.08.04 | 1Year        |
| Bilog Antenna             | SCHWARZBECK   | VULB 9168        | /                | VULB<br>9168#627           | 2025.08.11 | 2Year        |
| Horn Antenna              | SCHWARZBECK   | BBHA 9120 D      | /                | 2106                       | 2025.08.11 | 2Year        |
| Loop Antenna              | SCHWARZBECK   | FMZB 1519B       | /                | 00128                      | 2025.08.11 | 2Year        |
| RF Cable                  | Resenberger   | Cable 1          | /                | RE1                        | 2025.08.04 | 1Year        |
| RF Cable                  | Resenberger   | Cable 2          | /                | RE2                        | 2025.08.04 | 1Year        |
| RF Cable                  | Resenberger   | Cable 3          | /                | CE1                        | 2025.08.04 | 1Year        |
| Amplifier                 | HP            | HP8347A          | /                | 2834A00455                 | 2025.08.04 | 1Year        |
| Amplifier                 | Agilent       | 8449B            | /                | 3008A02664                 | 2025.08.04 | 1Year        |
| L.I.S.N.#1                | SCHWARZBECK   | NSLK8126         | /                | 8126-466                   | 2025.08.04 | 1Year        |
| L.I.S.N.#2                | ROHDE&SCHWARZ | ENV216           | /                | 101043                     | 2025.08.04 | 1Year        |
| Horn Antenna              | SCHWARZBECK   | BBHA 9170        | /                | 00946                      | 2025.08.11 | 2Year        |
| Preamplifier              | SKET          | LNPA_1840-<br>50 | /                | SK201810180<br>1           | 2025.08.04 | 1 Year       |
| Power Meter               | Agilent       | E4419B           | /                | GB40202122                 | 2025.08.04 | 1 Year       |
| Power Sensor              | Agilent       | E9300A           | /                | MY41496628                 | 2025.08.04 | 1 Year       |
| Power Sensor              | Agilent       | E9304A           | /                | MY41496815                 | 2025.08.04 | 1 Year       |
| Temp. & Humid.<br>Chamber | Teelong       | TL-HW408S        | /                | TL-20191205-<br>01         | 2025.07.14 | 1 Year       |

|                              |               |          |   |            |            |        |
|------------------------------|---------------|----------|---|------------|------------|--------|
| Electronic Thermo-Hygrometer | S.H.Qixiang   | HTC-1    | / | N/A        | 2025.08.04 | 1 Year |
| Switching Mode Power Supply  | JUNKE         | JK12010S | / | 20140927-6 | 2025.08.04 | 1 Year |
| Adjustable attenuator        | MWRFtest      | N/A      | / | N/A        | N/A        | N/A    |
| 10dB Attenuator              | Mini-Circuits | DC-6G    | / | N/A        | N/A        | N/A    |

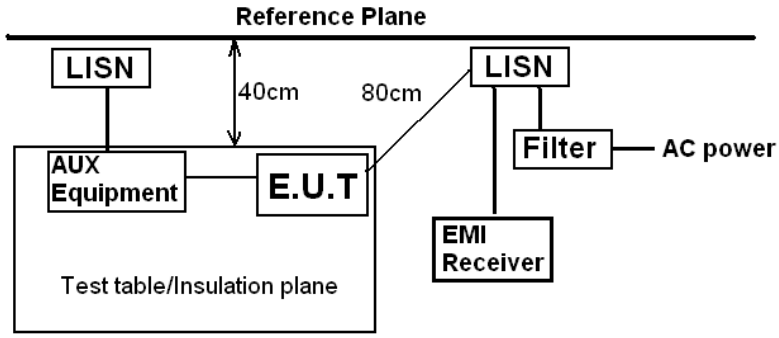
| Software Information |               |              |           |
|----------------------|---------------|--------------|-----------|
| Test Item            | Software Name | Manufacturer | Version   |
| RE                   | EZ-EMC        | Farad        | Alpha-3A1 |
| CE                   | EZ-EMC        | Farad        | Alpha-3A1 |
| RF-CE                | MTS 8310      | MWRFtest     | V2.0.0.0  |

## 4 Test results and Measurement Data

### 4.1 Antenna requirement:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FCC Part15 C Section 15.203 |
| <p>15.203 requirement:</p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> |                             |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |
| <p>The antenna is internal antenna. The best case gain of the antenna is 2.5dBi for 5.15~5.25GHz, 5.25~5.35GHz, 5.47~5.725GHz ,5.725~5.85GHz</p>                                                                                                                                                                                                                                                                                                                                     |                             |

## 4.2 Conducted Emissions

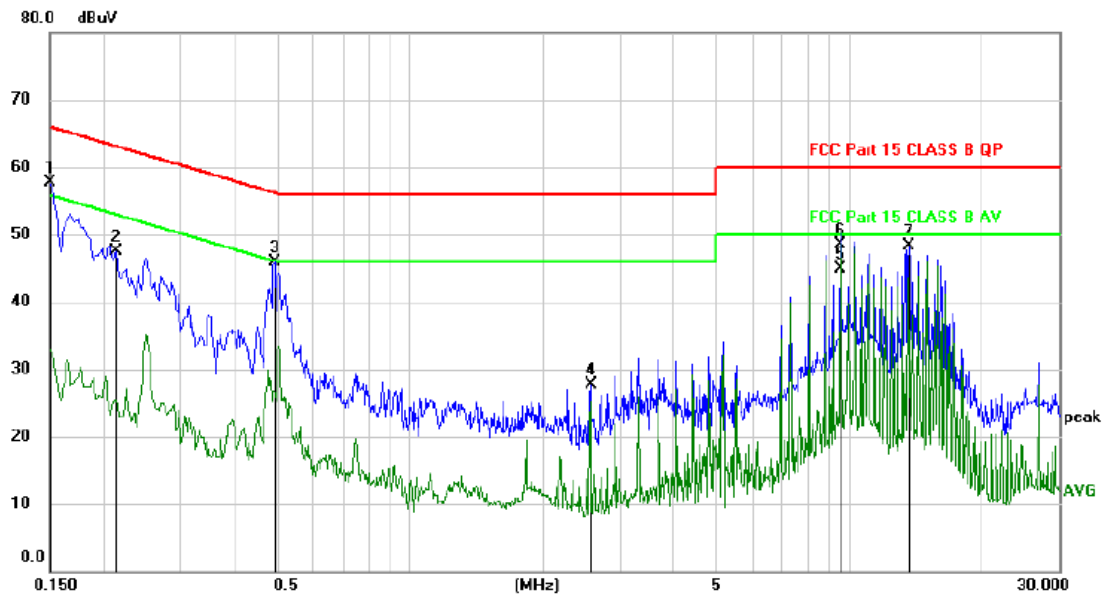
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Test Requirement:                                | FCC Part15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |           |
| Test Method:                                     | ANSI C63.10:2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |
| Test Frequency Range:                            | 150KHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |
| Class Severity:                                  | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |           |
| Class B                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |
| Receiver setup:                                  | RBW=9KHz, VBW=30KHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |           |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Limit (dBuV) |           |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quasi-peak   | Average   |
|                                                  | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 66 to 56*    | 56 to 46* |
|                                                  | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 56           | 46        |
|                                                  | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60           | 50        |
| * Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |
| Test procedure                                   | The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement. |              |           |
| Test setup:                                      |  <p>Remark:<br/> E.U.T: Equipment Under Test<br/> LISN: Line Impedance Stabilization Network<br/> Test table height=0.8m</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |
| Test results:                                    | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |           |

### Measurement Data

An initial pre-scan was performed on the line and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

## ADP-60D24:

Line:

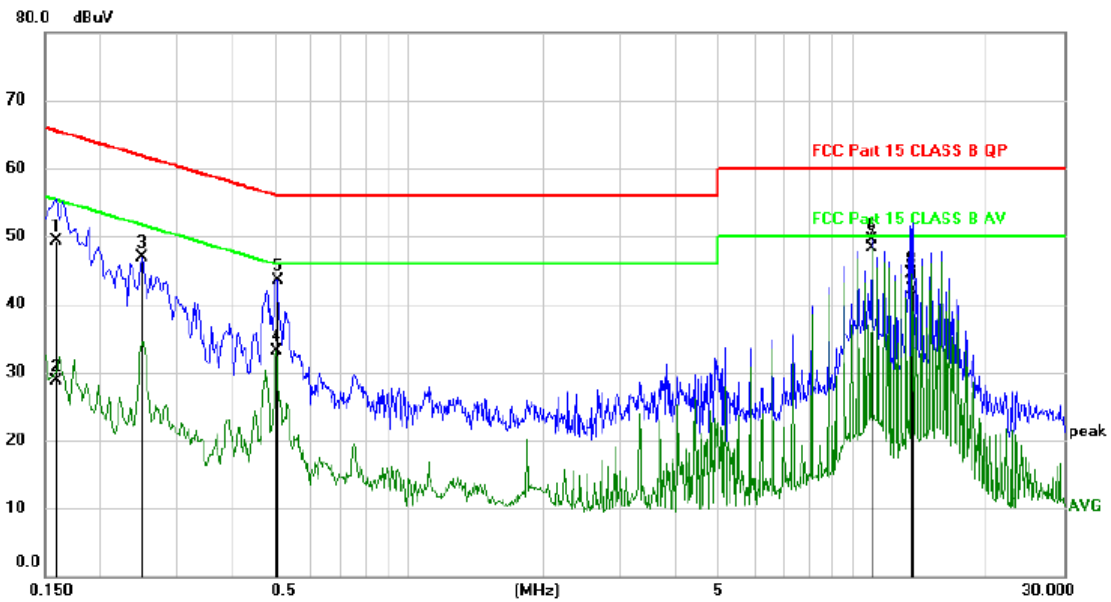


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1500       | 47.84                    | 9.94                    | 57.78                    | 66.00         | -8.22        | peak     |         |
| 2   |     | 0.2130       | 37.66                    | 9.93                    | 47.59                    | 63.09         | -15.50       | peak     |         |
| 3   |     | 0.4890       | 36.02                    | 9.96                    | 45.98                    | 56.18         | -10.20       | peak     |         |
| 4   |     | 2.5679       | 17.88                    | 9.91                    | 27.79                    | 56.00         | -28.21       | peak     |         |
| 5   |     | 9.5520       | 34.80                    | 10.20                   | 45.00                    | 60.00         | -15.00       | QP       |         |
| 6   | *   | 9.5520       | 38.40                    | 10.20                   | 48.60                    | 50.00         | -1.40        | AVG      |         |
| 7   |     | 13.6590      | 38.03                    | 10.30                   | 48.33                    | 60.00         | -11.67       | peak     |         |

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor.    Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

**Neutral:**

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1590       | 39.34                    | 9.94                    | 49.28                    | 65.52         | -16.24       | QP       |         |
| 2   |     | 0.1590       | 18.67                    | 9.94                    | 28.61                    | 55.52         | -26.91       | AVG      |         |
| 3   |     | 0.2490       | 37.03                    | 9.97                    | 47.00                    | 61.79         | -14.79       | peak     |         |
| 4   |     | 0.5010       | 23.08                    | 9.96                    | 33.04                    | 46.00         | -12.96       | AVG      |         |
| 5   |     | 0.5039       | 33.55                    | 9.96                    | 43.51                    | 56.00         | -12.49       | peak     |         |
| 6   |     | 11.0340      | 39.30                    | 10.23                   | 49.53                    | 60.00         | -10.47       | peak     |         |
| 7   | *   | 11.0340      | 38.17                    | 10.23                   | 48.40                    | 50.00         | -1.60        | AVG      |         |
| 8   |     | 13.6110      | 34.15                    | 10.30                   | 44.45                    | 50.00         | -5.55        | AVG      |         |
| 9   |     | 13.6500      | 31.79                    | 10.30                   | 42.09                    | 60.00         | -17.91       | QP       |         |

\*:Maximum data    x:Over limit    !:over margin

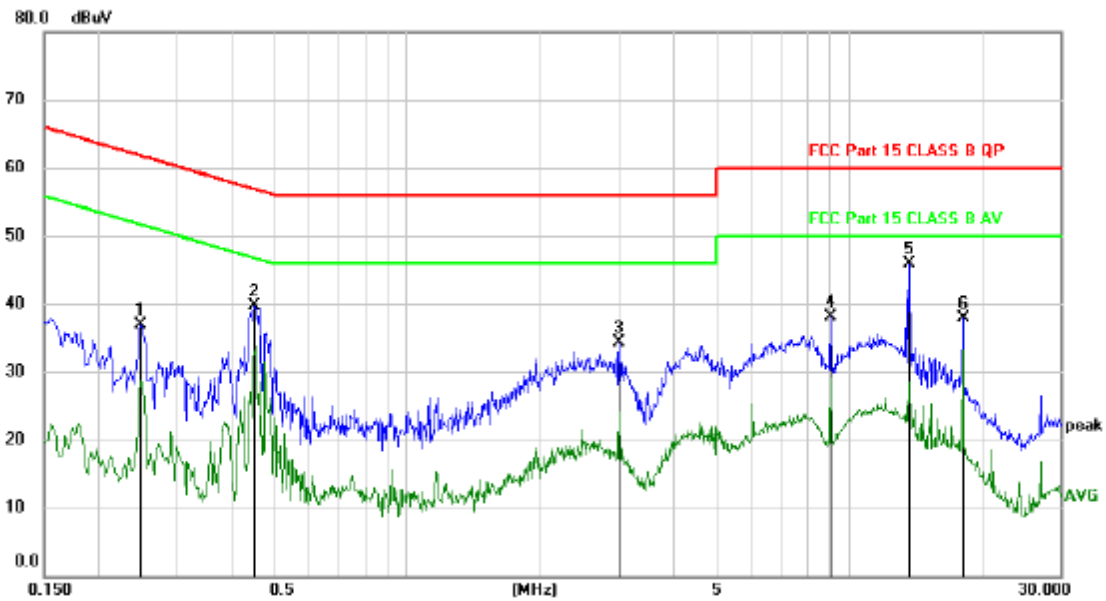
⟨Reference Only

Note: Measurement=Reading Level+Correc Factor.    Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Note: All modes and channels have been tested and only the a 5180MHz mode with the worst data is listed.

2102M-120300E:

Line:

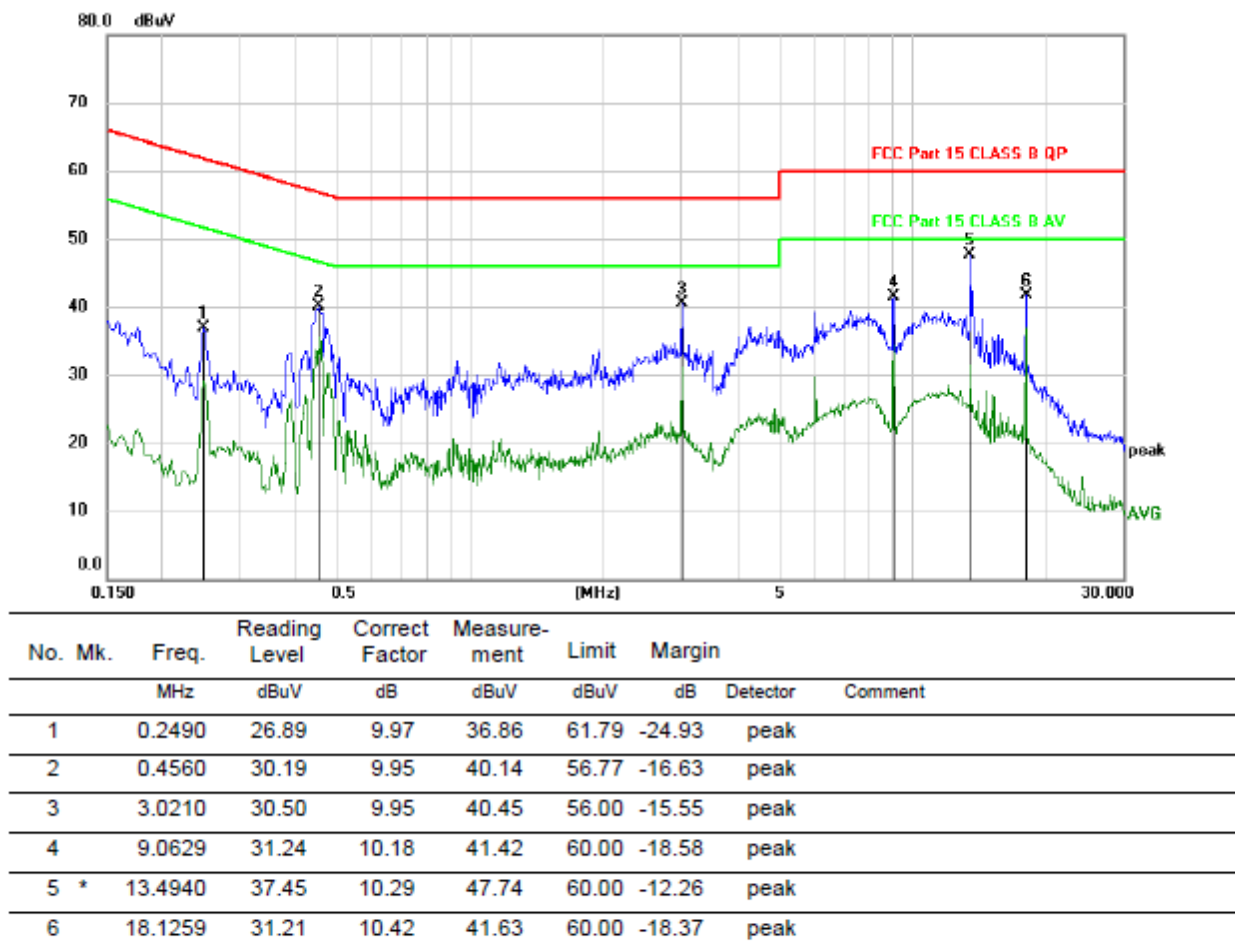


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.2490       | 26.90                    | 9.97                    | 36.87                    | 61.79         | -24.92       | peak     |         |
| 2   |     | 0.4500       | 29.68                    | 9.95                    | 39.63                    | 56.88         | -17.25       | peak     |         |
| 3   |     | 3.0180       | 24.40                    | 9.95                    | 34.35                    | 56.00         | -21.65       | peak     |         |
| 4   |     | 9.0659       | 27.89                    | 10.18                   | 38.07                    | 60.00         | -21.93       | peak     |         |
| 5   | *   | 13.6260      | 35.51                    | 10.30                   | 45.81                    | 60.00         | -14.19       | peak     |         |
| 6   |     | 18.1259      | 27.41                    | 10.42                   | 37.83                    | 60.00         | -22.17       | peak     |         |

\*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

**Neutral:**

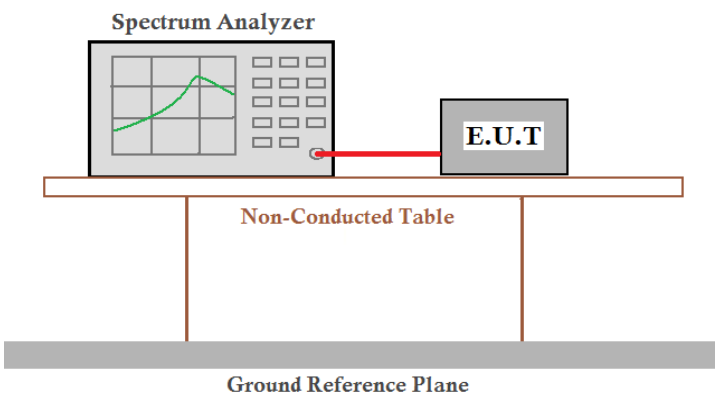
\*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

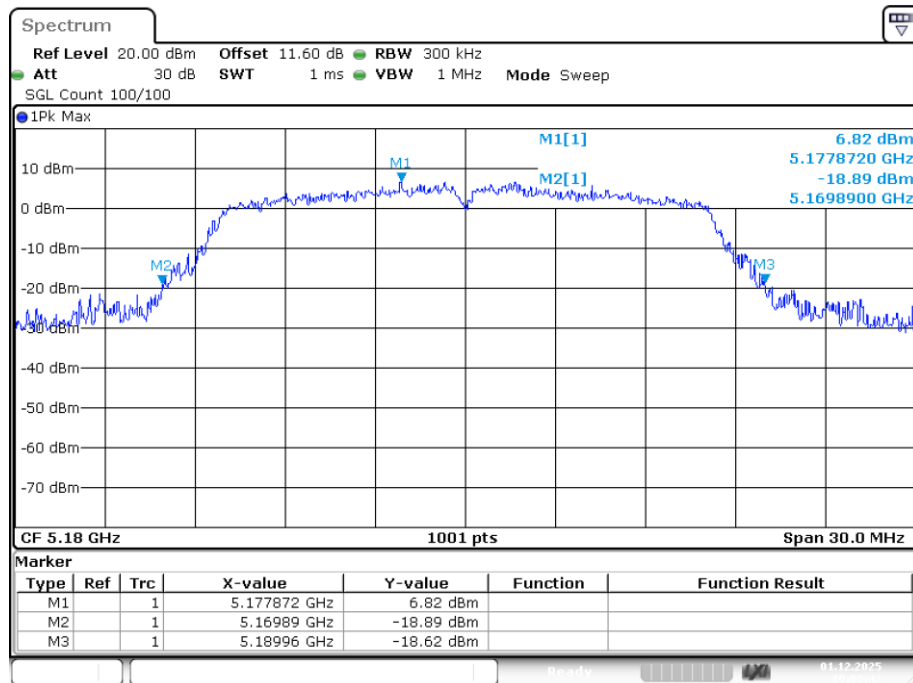
Note: All modes and channels have been tested and only the a 5180MHz mode with the worst data is listed.

#### 4.3 Emission Bandwidth and 99% Occupied Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:      | KDB 789033 D02 General UNII Test Procedures New Rules v02r01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Limit:            | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. Set center frequency to the nominal EUT channel center frequency.</li> <li>2. Set span = 1.5 times to 5.0 times the OBW.</li> <li>3. Set RBW = 1% to 5% of the OBW</li> <li>4. Set VBW <math>\geq 3</math> RBW</li> <li>5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.</li> <li>6. Use the 99% power bandwidth function of the instrument (if available).</li> <li>7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.</li> </ol> |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

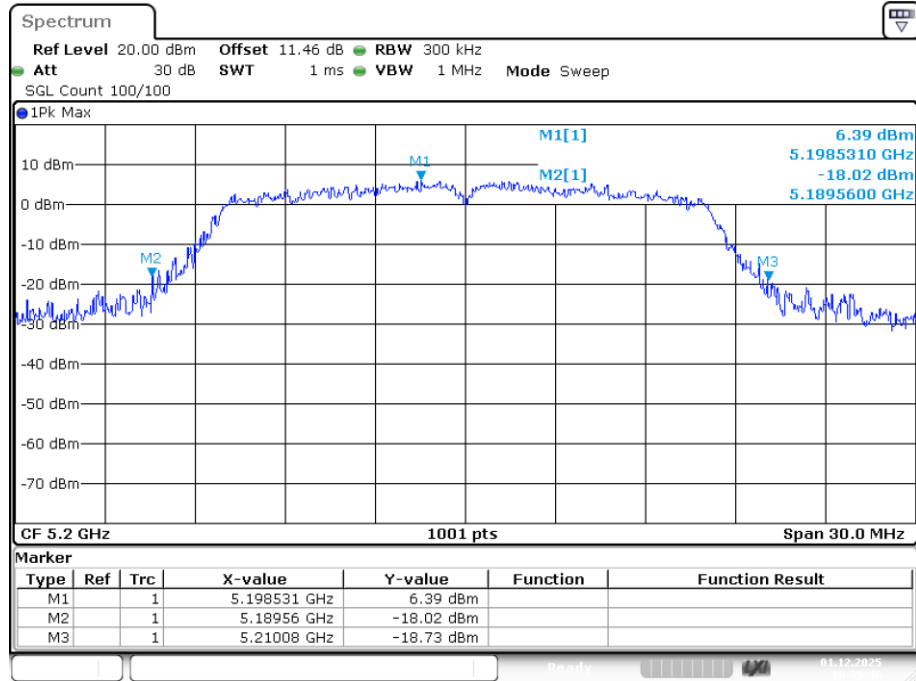
**Measurement Data:****Band 1 (5150-5250 MHz):  
-26dB Bandwidth**

| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5180            | Ant1    | 20.07                  | N/A                          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 20.52                  | N/A                          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 21.42                  | N/A                          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 20.37                  | N/A                          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 20.19                  | N/A                          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 20.43                  | N/A                          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 41.16                  | N/A                          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 41.4                   | N/A                          | Pass    |
| NVNT      | ax20 | 5180            | Ant1    | 20.1                   | N/A                          | Pass    |
| NVNT      | ax20 | 5200            | Ant1    | 21.6                   | N/A                          | Pass    |
| NVNT      | ax20 | 5240            | Ant1    | 21.09                  | N/A                          | Pass    |
| NVNT      | ax40 | 5190            | Ant1    | 41.46                  | N/A                          | Pass    |
| NVNT      | ax40 | 5230            | Ant1    | 50.22                  | N/A                          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 20.64                  | N/A                          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 20.82                  | N/A                          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 21.42                  | N/A                          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 43.62                  | N/A                          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 51.3                   | N/A                          | Pass    |

**-26dB Bandwidth NVNT a 5180MHz Ant1**

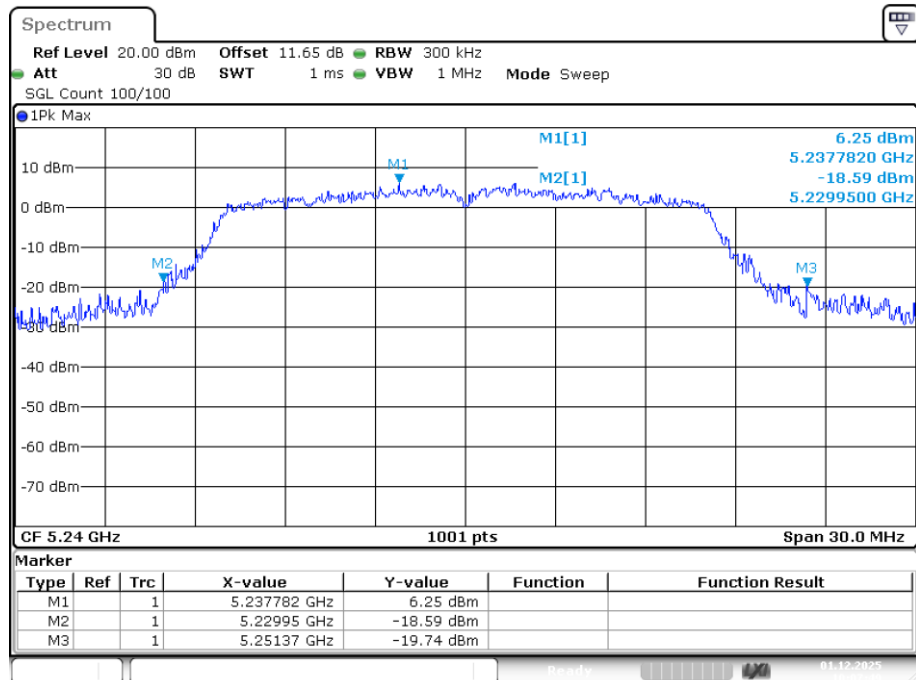
Date: 1.DEC.2025 10:02:42

## -26dB Bandwidth NVNT a 5200MHz Ant1



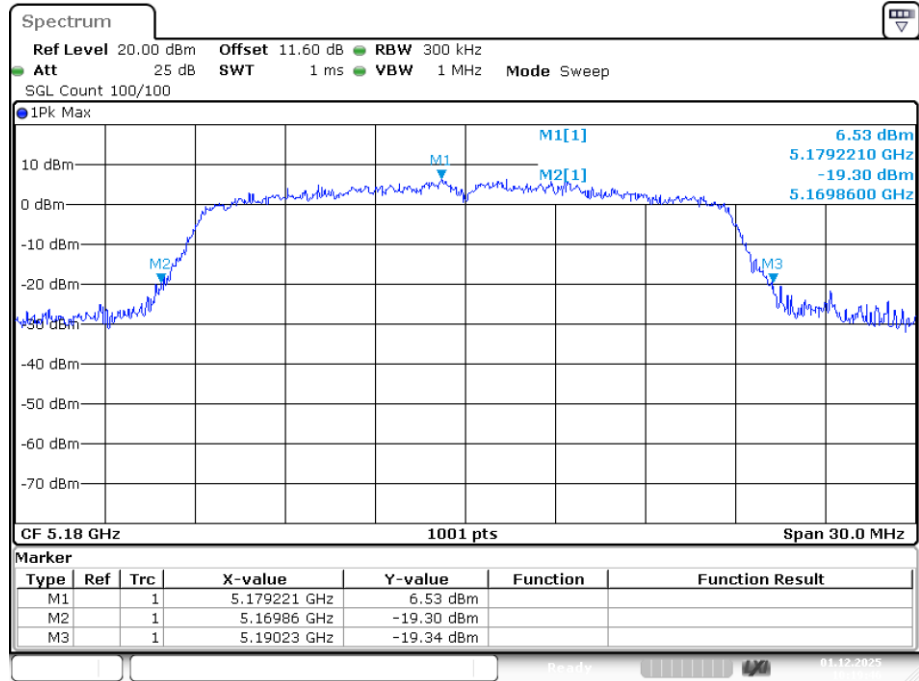
Date: 1.DEC.2025 10:05:46

## -26dB Bandwidth NVNT a 5240MHz Ant1



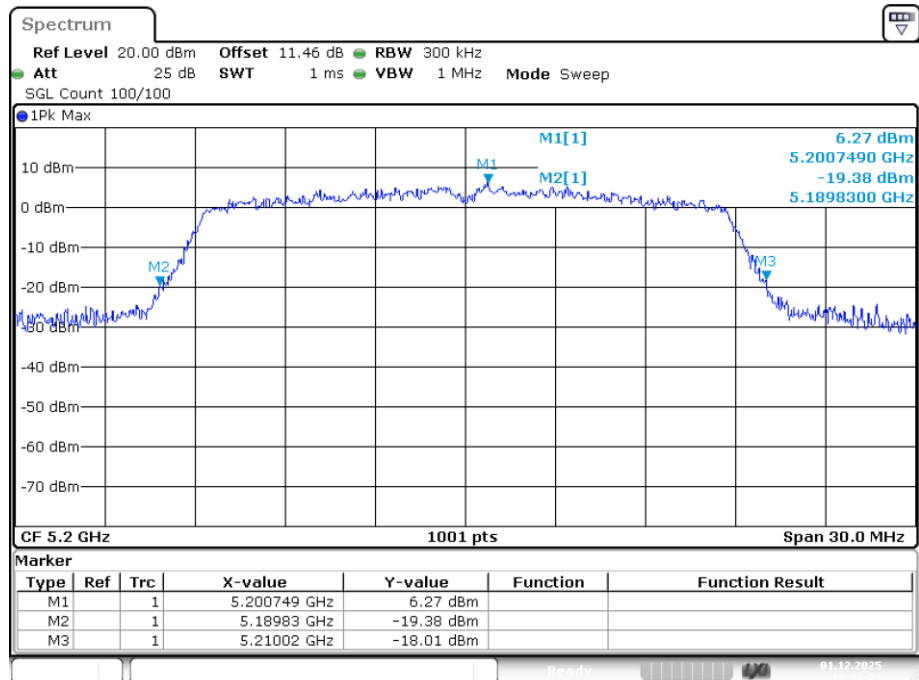
Date: 1.DEC.2025 10:07:49

## -26dB Bandwidth NVNT ac20 5180MHz Ant1



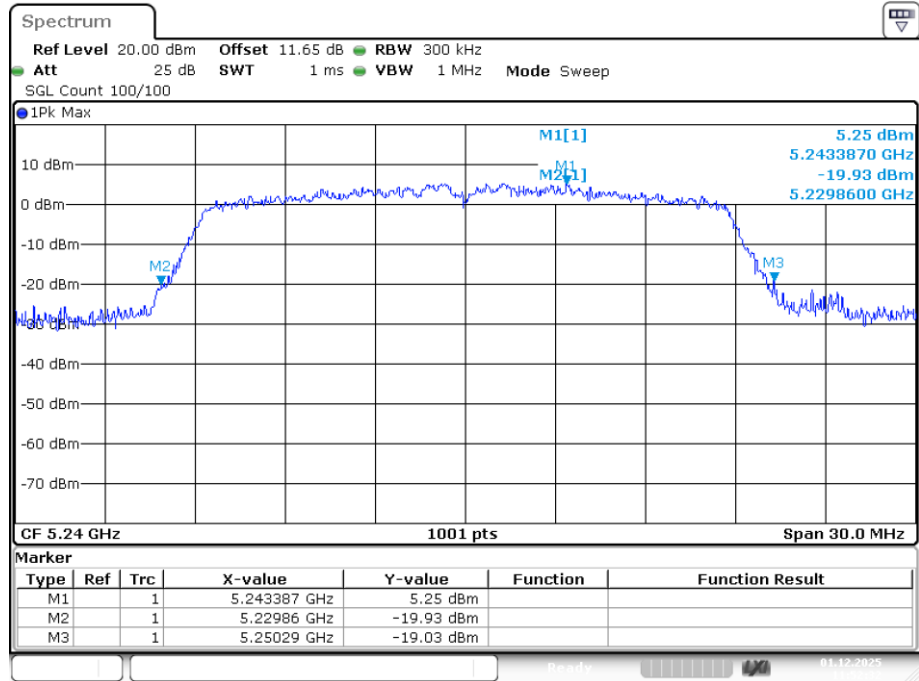
Date: 1.DEC.2025 10:19:46

## -26dB Bandwidth NVNT ac20 5200MHz Ant1



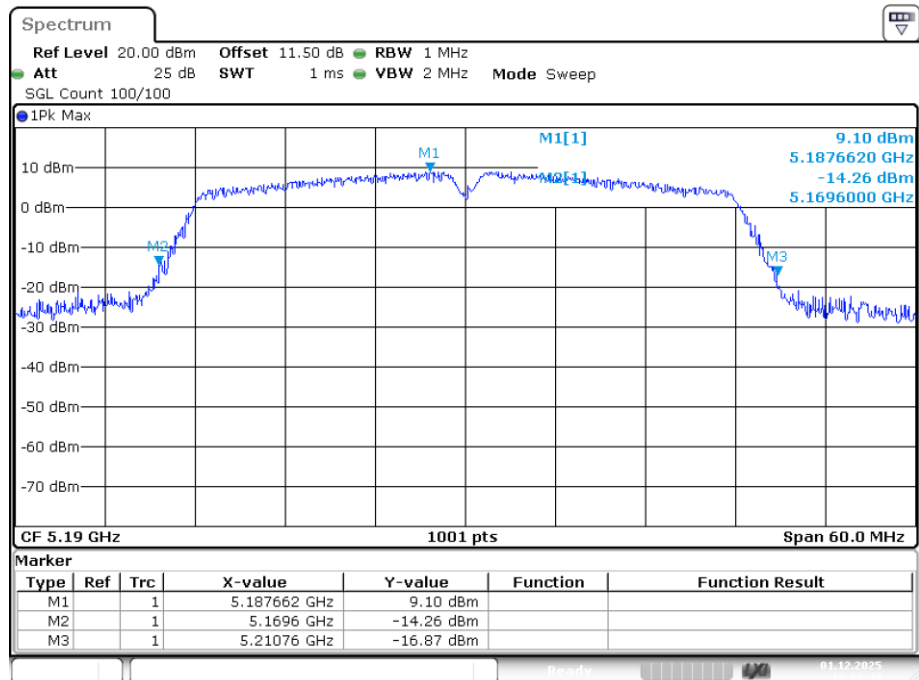
Date: 1.DEC.2025 10:26:23

## -26dB Bandwidth NVNT ac20 5240MHz Ant1

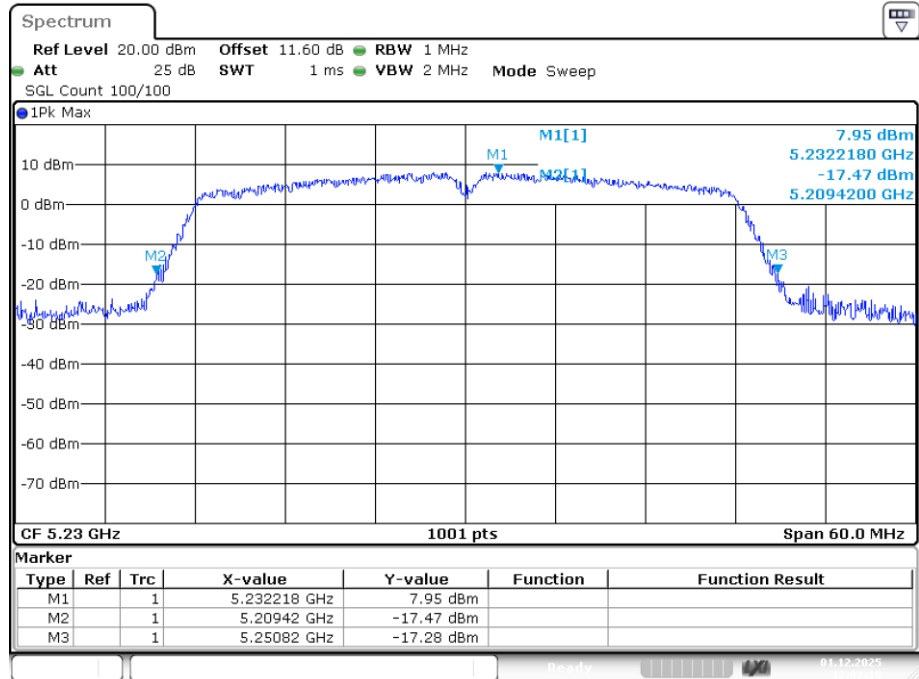


Date: 1.DEC.2025 11:52:32

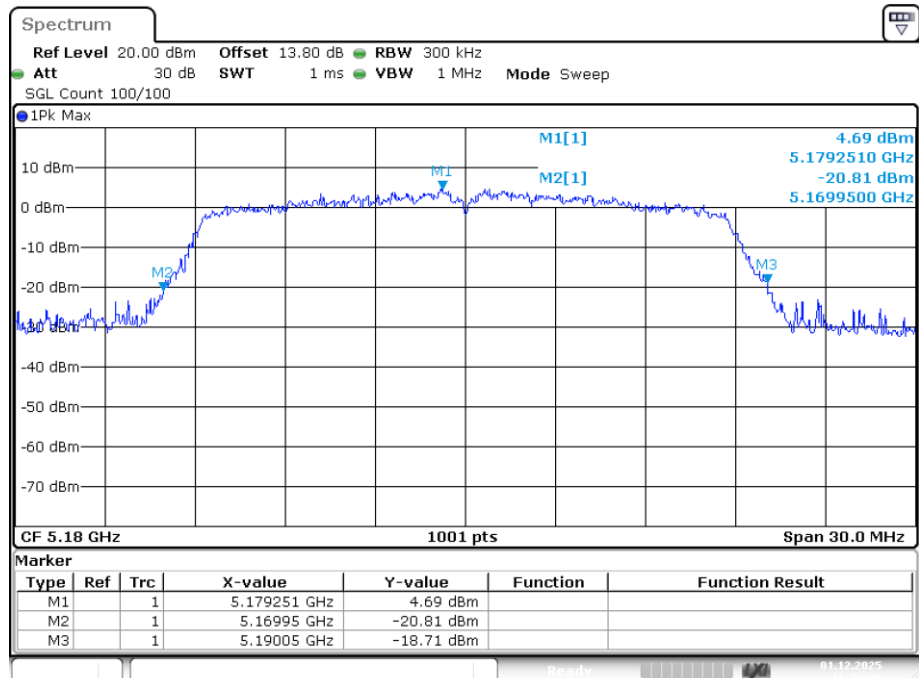
## -26dB Bandwidth NVNT ac40 5190MHz Ant1



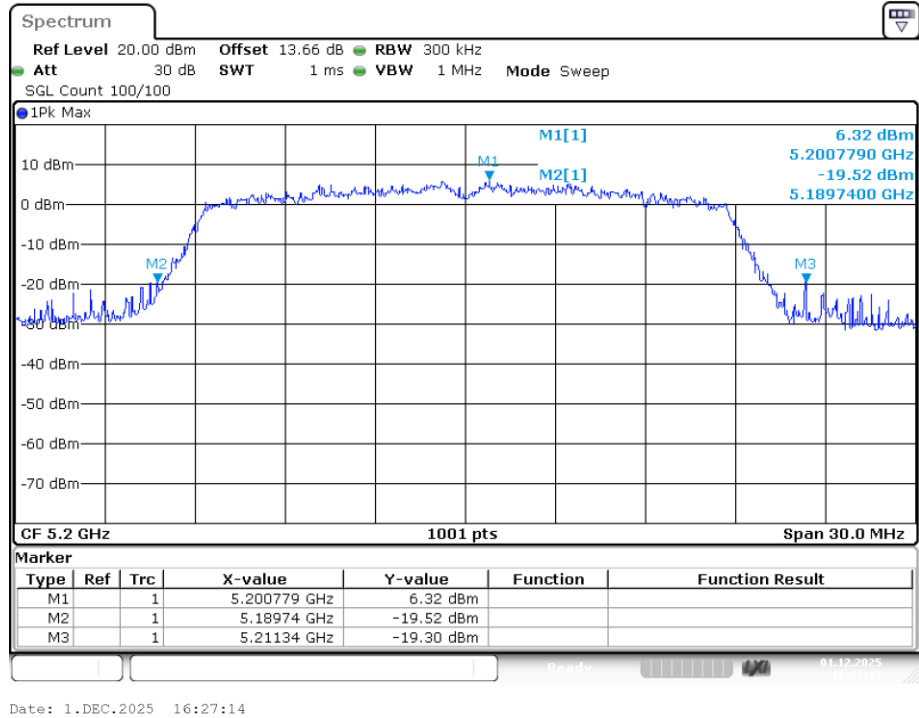
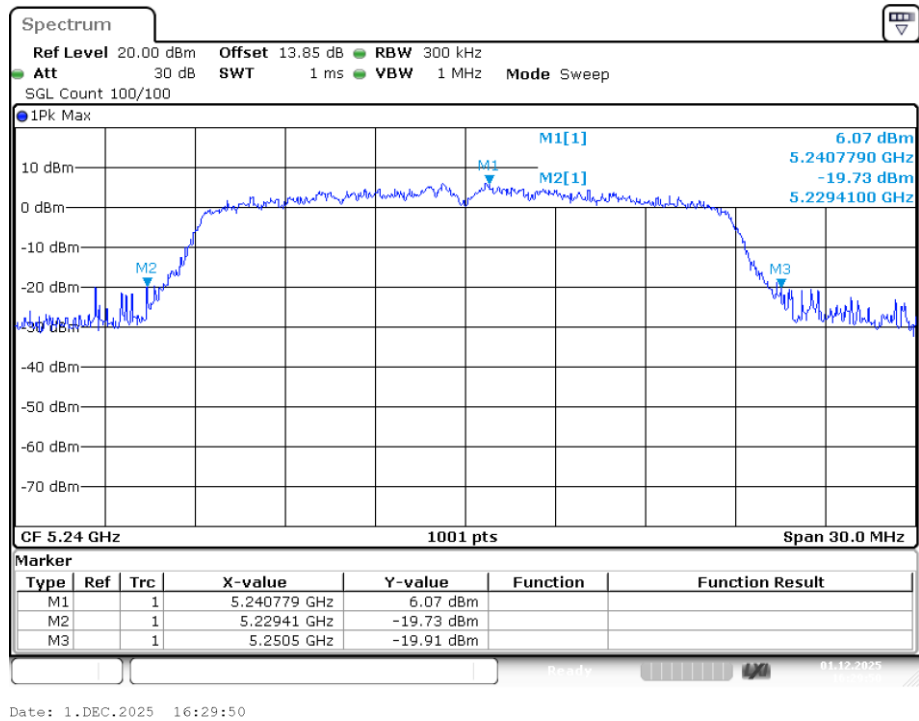
Date: 1.DEC.2025 12:09:39

**-26dB Bandwidth NVNT ac40 5230MHz Ant1**

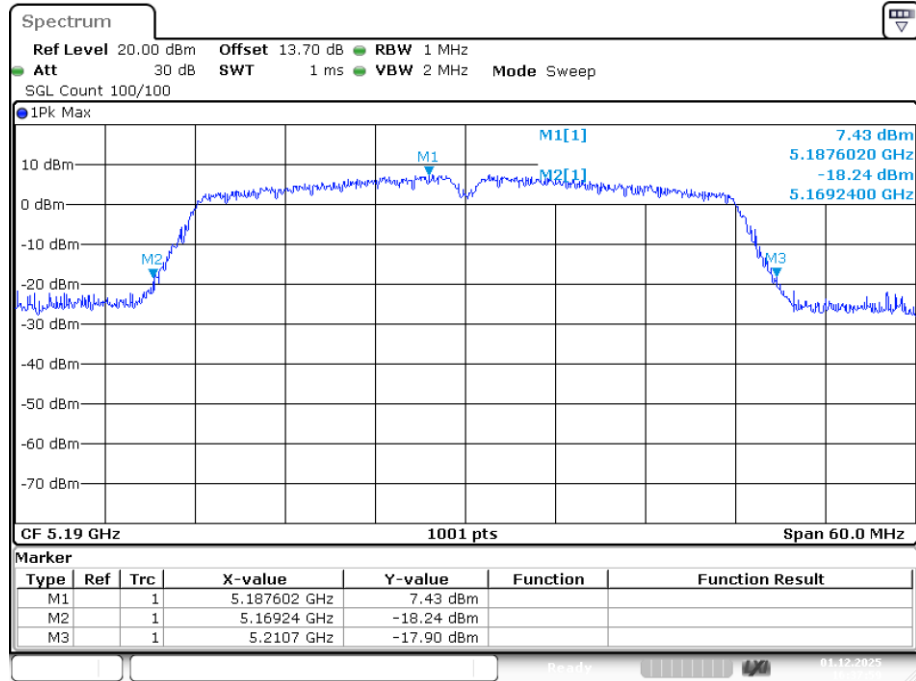
Date: 1.DEC.2025 12:07:19

**-26dB Bandwidth NVNT ax20 5180MHz Ant1**

Date: 1.DEC.2025 16:24:31

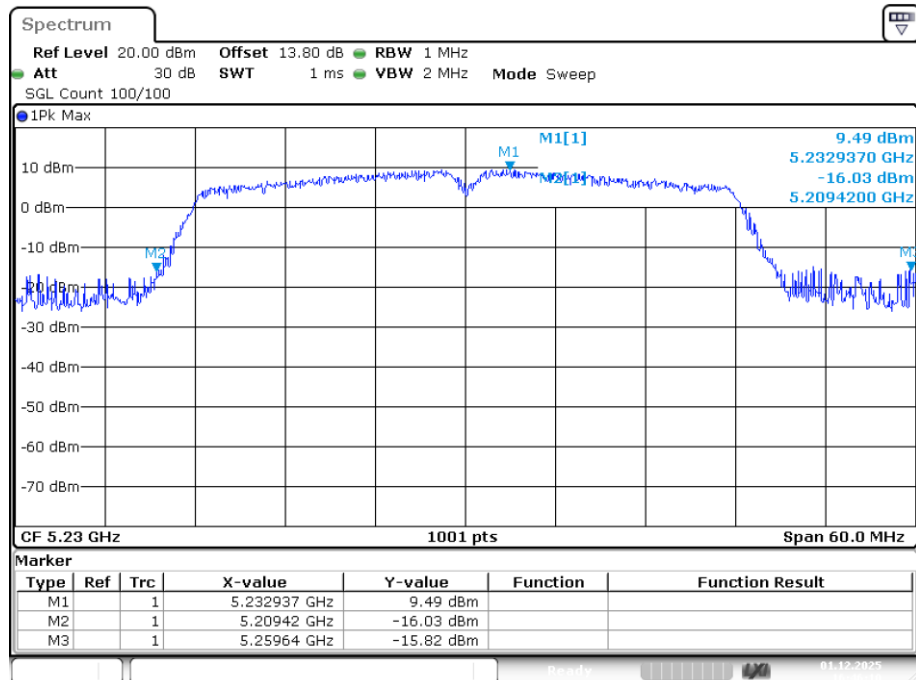
**-26dB Bandwidth NVNT ax20 5200MHz Ant1****-26dB Bandwidth NVNT ax20 5240MHz Ant1**

## -26dB Bandwidth NVNT ax40 5190MHz Ant1

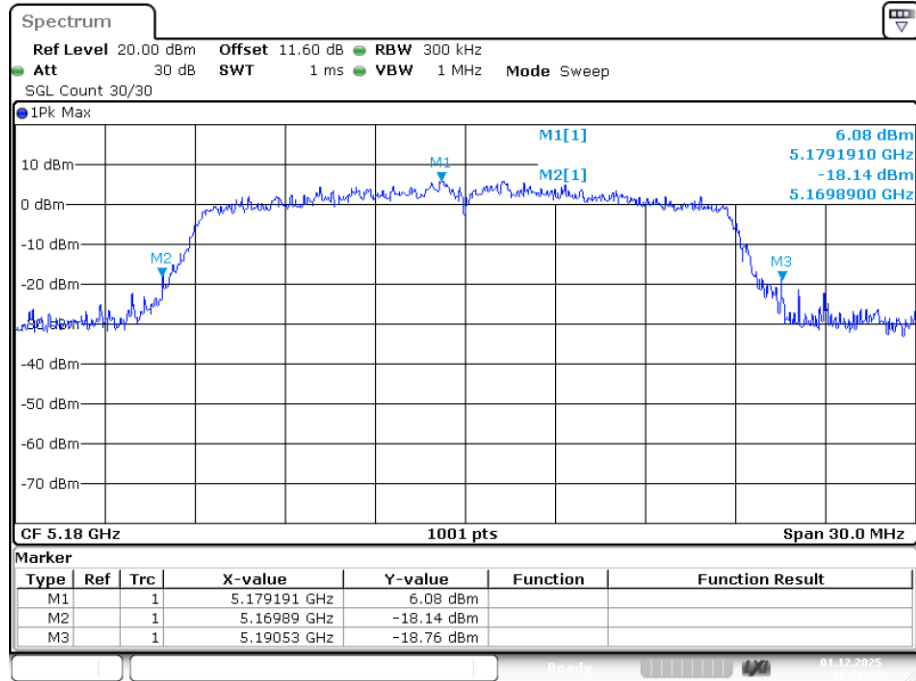


Date: 1.DEC.2025 16:37:59

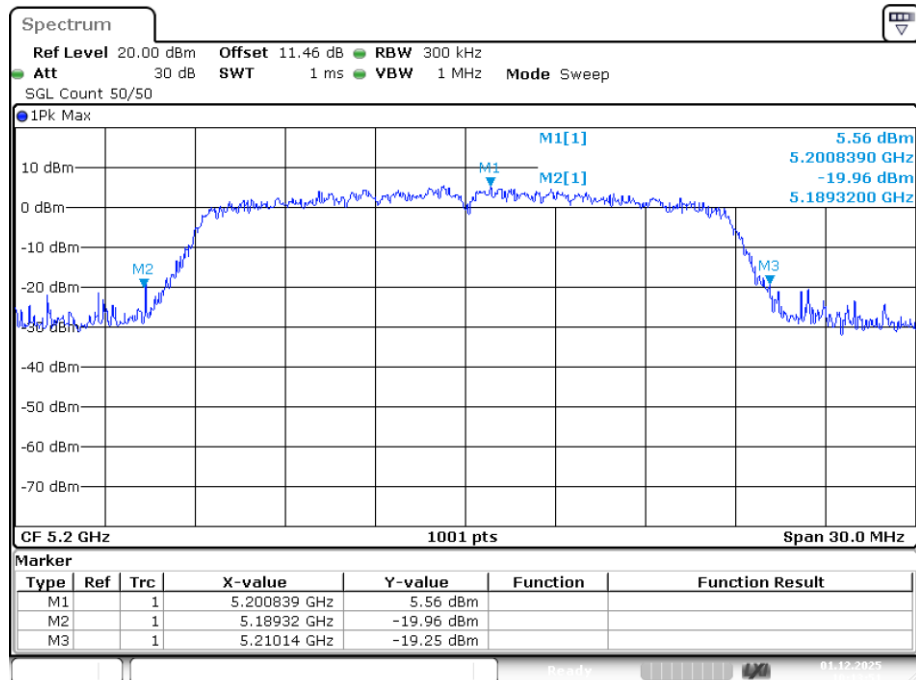
## -26dB Bandwidth NVNT ax40 5230MHz Ant1



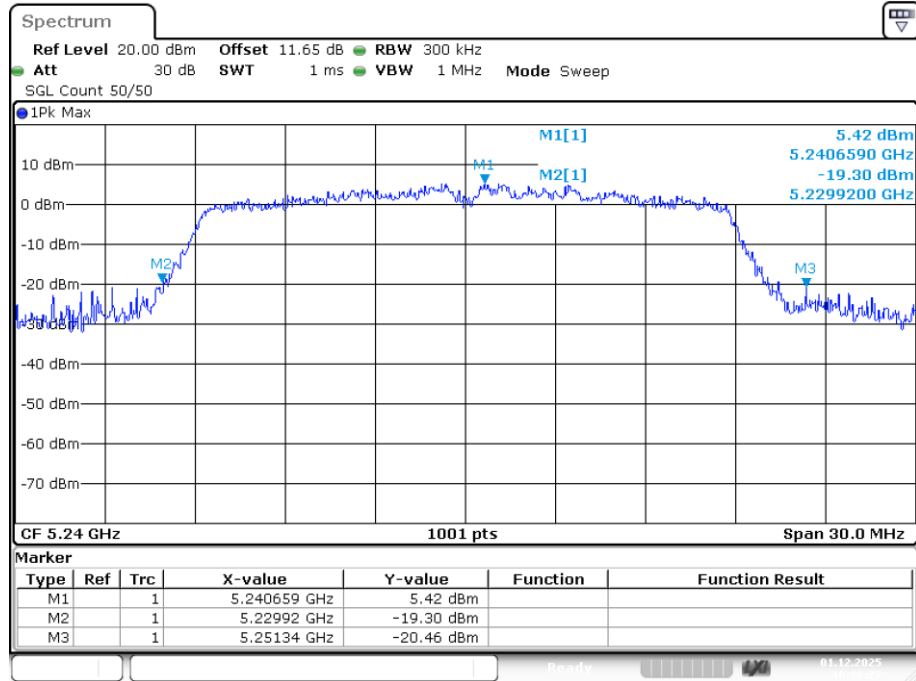
Date: 1.DEC.2025 16:46:10

**-26dB Bandwidth NVNT n20 5180MHz Ant1**

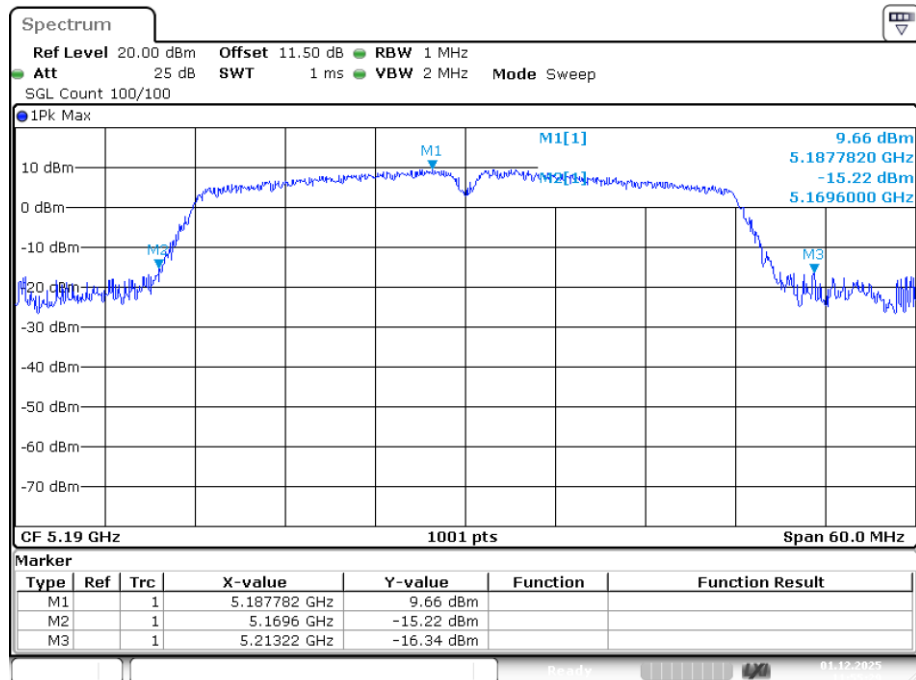
Date: 1.DEC.2025 10:10:59

**-26dB Bandwidth NVNT n20 5200MHz Ant1**

Date: 1.DEC.2025 10:13:51

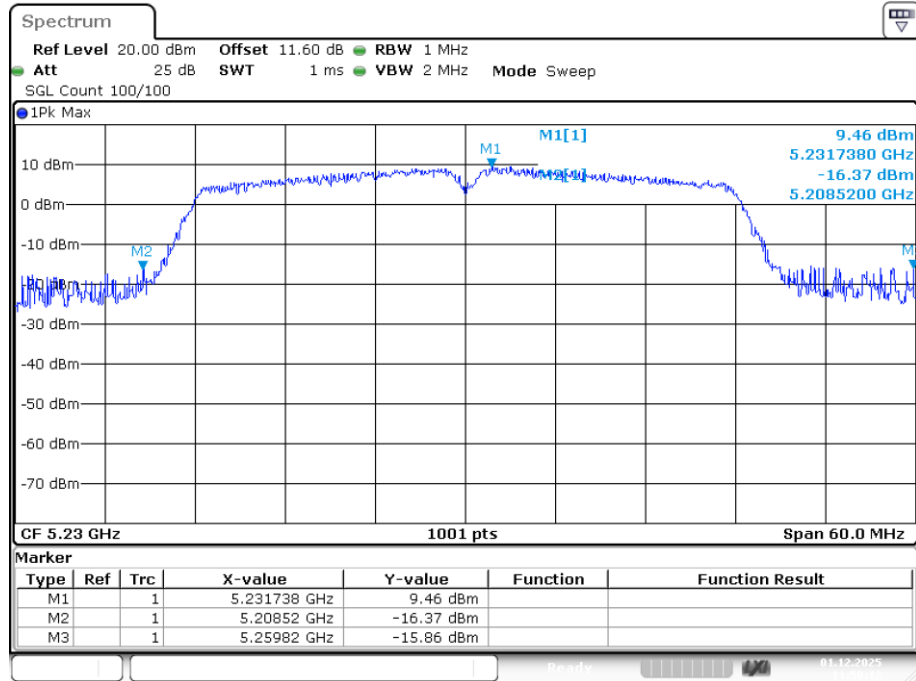
**-26dB Bandwidth NVNT n20 5240MHz Ant1**

Date: 1.DEC.2025 10:16:27

**-26dB Bandwidth NVNT n40 5190MHz Ant1**

Date: 1.DEC.2025 11:55:28

## -26dB Bandwidth NVNT n40 5230MHz Ant1

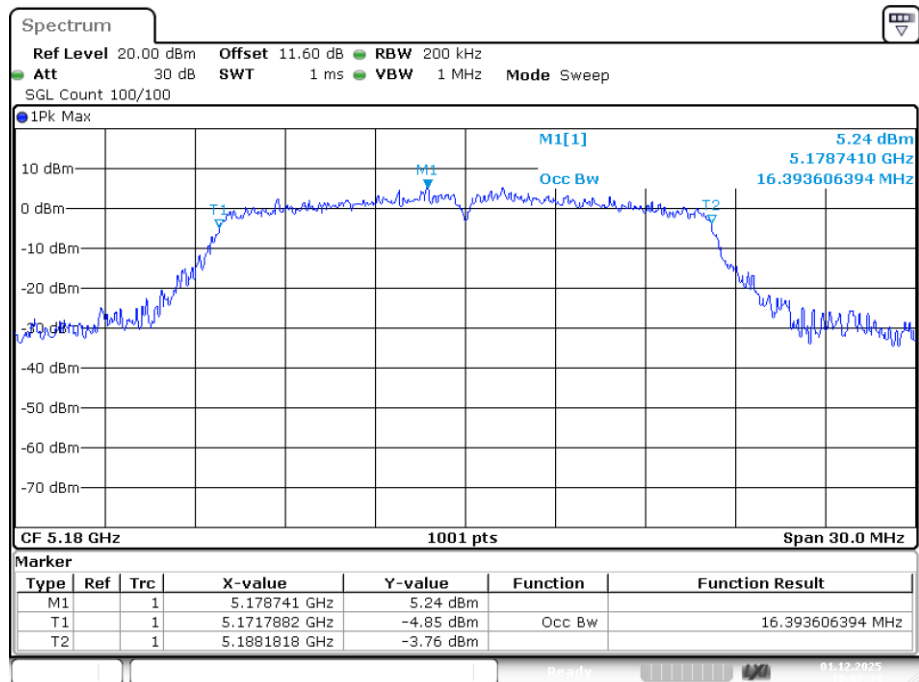


Date: 1.DEC.2025 11:59:13

## Occupied Channel Bandwidth

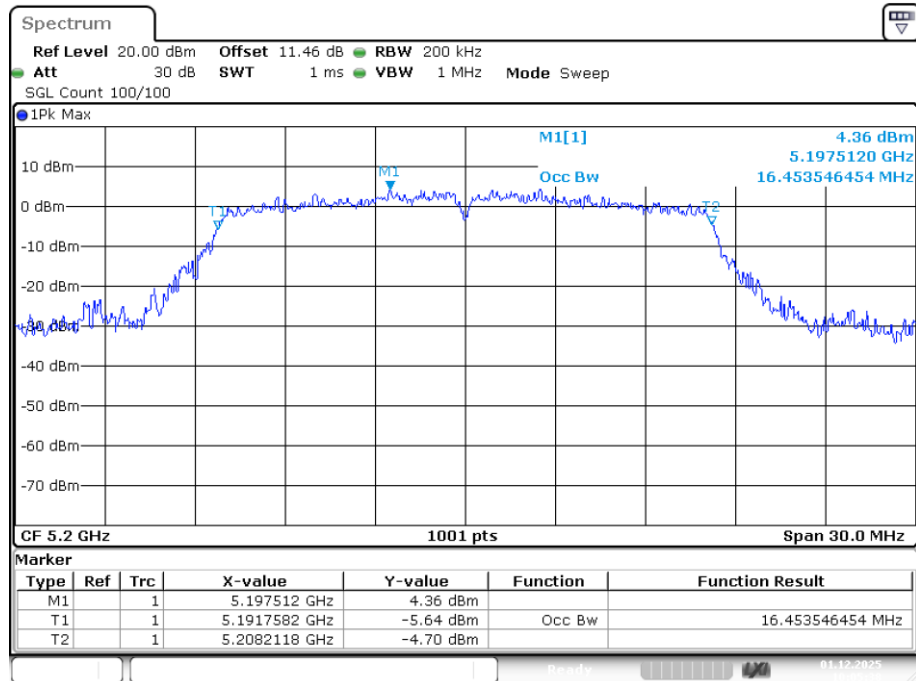
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5180            | Ant1    | 16.394        |
| NVNT      | a    | 5200            | Ant1    | 16.454        |
| NVNT      | a    | 5240            | Ant1    | 16.513        |
| NVNT      | ac20 | 5180            | Ant1    | 17.502        |
| NVNT      | ac20 | 5200            | Ant1    | 17.532        |
| NVNT      | ac20 | 5240            | Ant1    | 17.562        |
| NVNT      | ac40 | 5190            | Ant1    | 36.024        |
| NVNT      | ac40 | 5230            | Ant1    | 36.024        |
| NVNT      | ax20 | 5180            | Ant1    | 17.502        |
| NVNT      | ax20 | 5200            | Ant1    | 17.562        |
| NVNT      | ax20 | 5240            | Ant1    | 17.532        |
| NVNT      | ax40 | 5190            | Ant1    | 36.084        |
| NVNT      | ax40 | 5230            | Ant1    | 36.024        |
| NVNT      | n20  | 5180            | Ant1    | 17.532        |
| NVNT      | n20  | 5200            | Ant1    | 17.532        |
| NVNT      | n20  | 5240            | Ant1    | 17.562        |
| NVNT      | n40  | 5190            | Ant1    | 35.964        |
| NVNT      | n40  | 5230            | Ant1    | 36.264        |

## OBW NVNT a 5180MHz Ant1



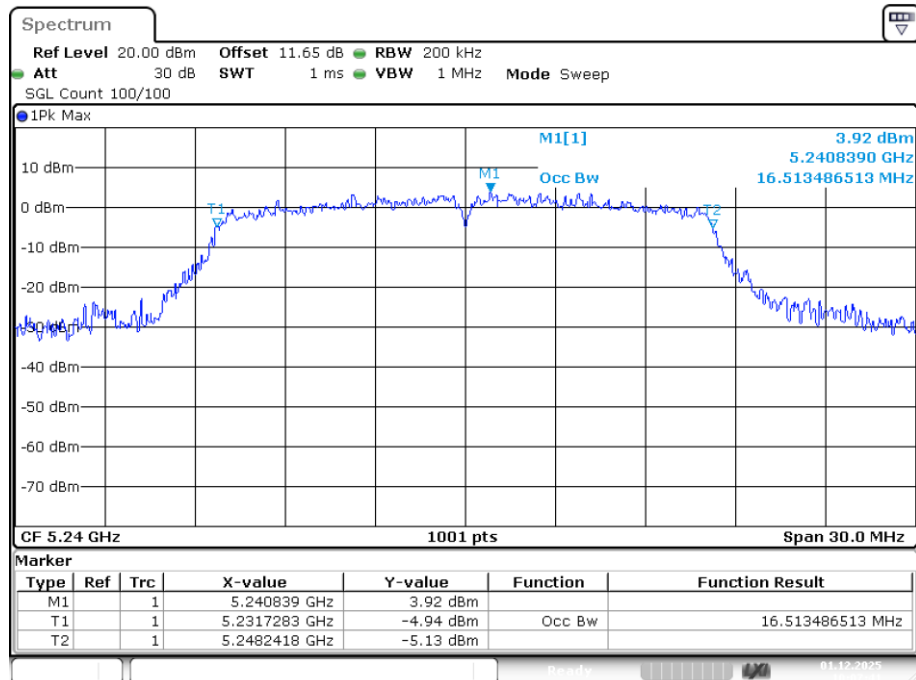
Date: 1.DEC.2025 10:02:34

## OBW NVNT a 5200MHz Ant1



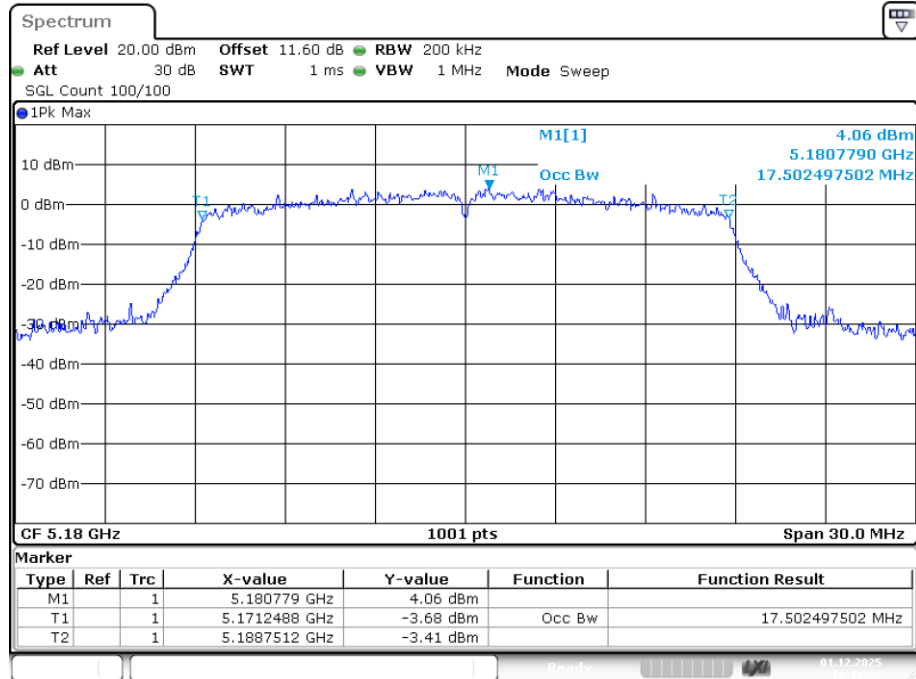
Date: 1.DEC.2025 10:05:38

## OBW NVNT a 5240MHz Ant1



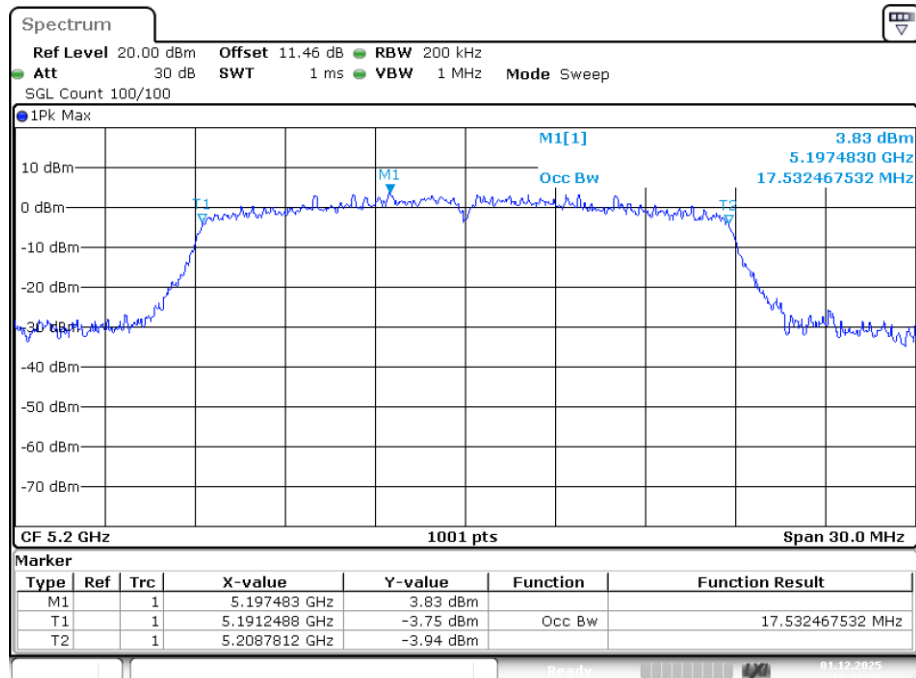
Date: 1.DEC.2025 10:07:41

## OBW NVNT ac20 5180MHz Ant1



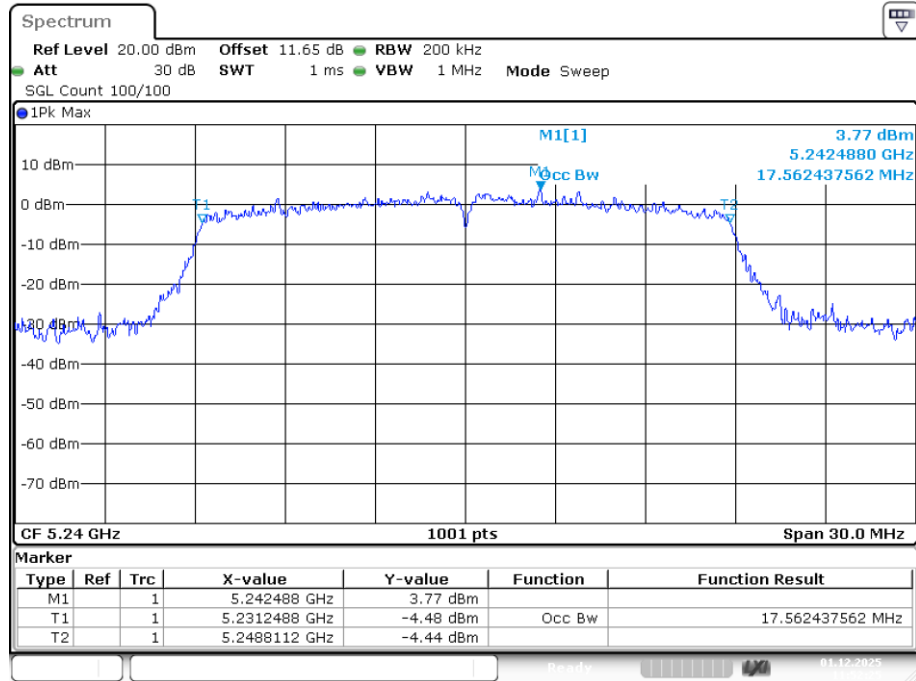
Date: 1.DEC.2025 10:19:37

## OBW NVNT ac20 5200MHz Ant1



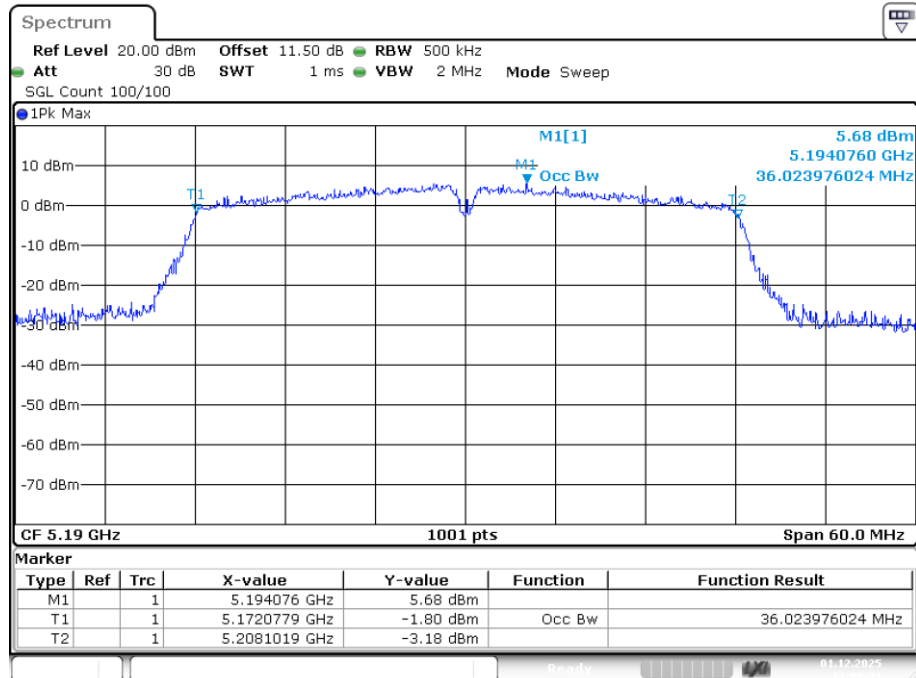
Date: 1.DEC.2025 10:26:15

## OBW NVNT ac20 5240MHz Ant1



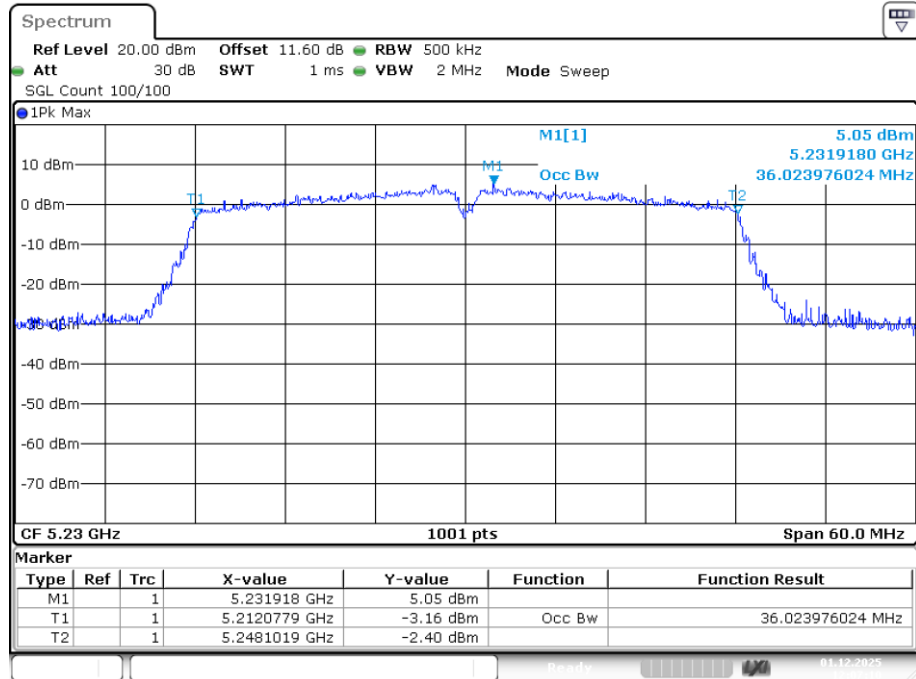
Date: 1.DEC.2025 11:52:25

## OBW NVNT ac40 5190MHz Ant1



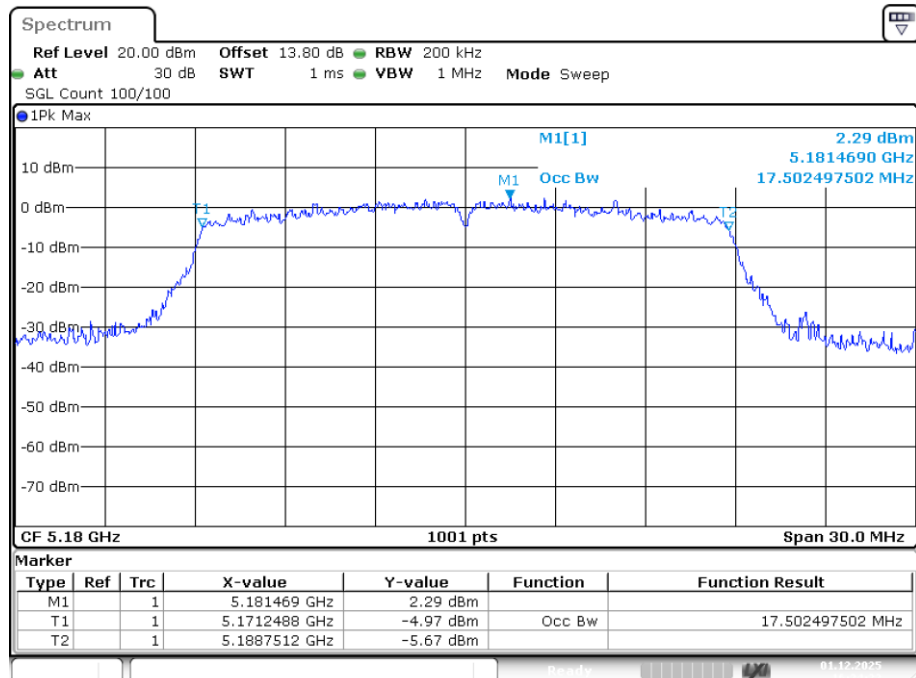
Date: 1.DEC.2025 12:09:30

## OBW NVNT ac40 5230MHz Ant1



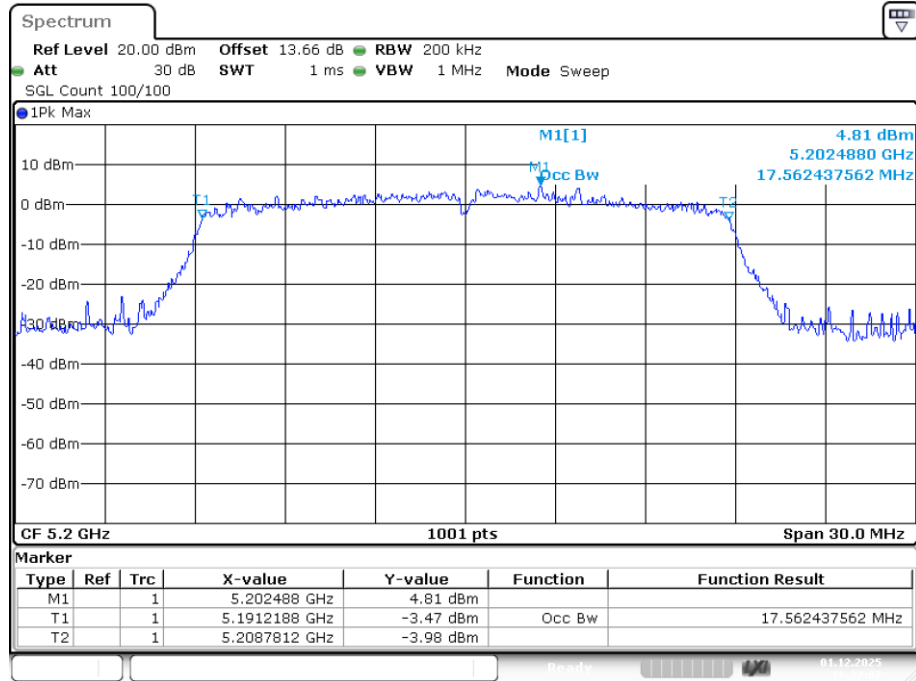
Date: 1.DEC.2025 12:07:11

## OBW NVNT ax20 5180MHz Ant1



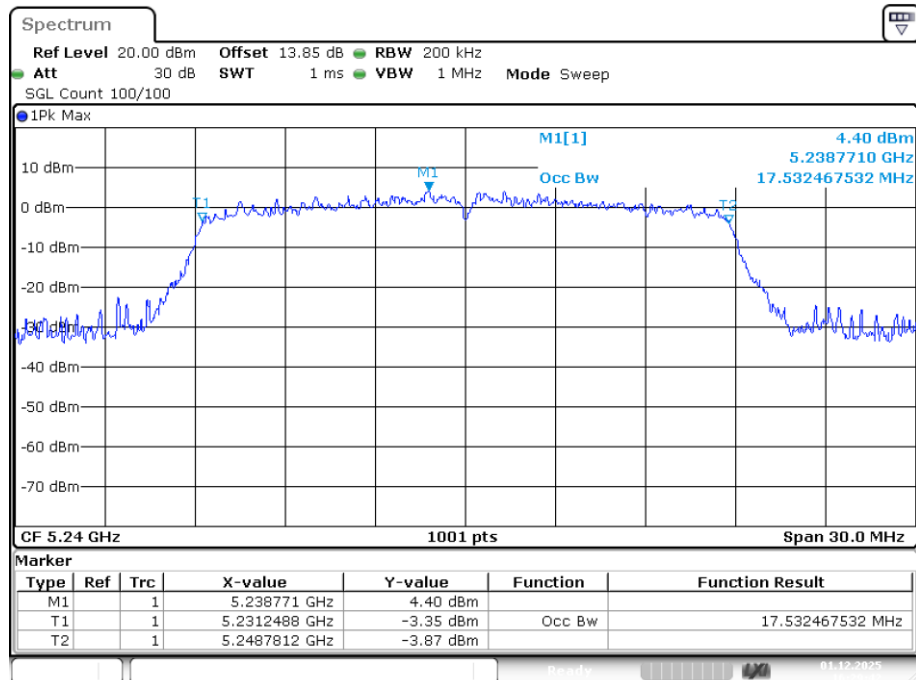
Date: 1.DEC.2025 16:24:22

## OBW NVNT ax20 5200MHz Ant1



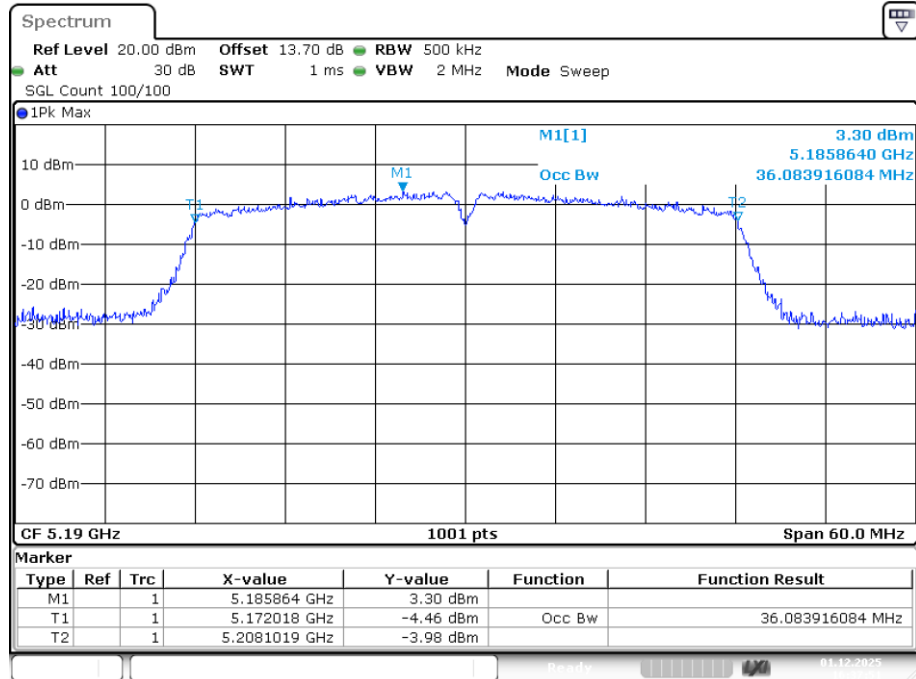
Date: 1.DEC.2025 16:27:06

## OBW NVNT ax20 5240MHz Ant1



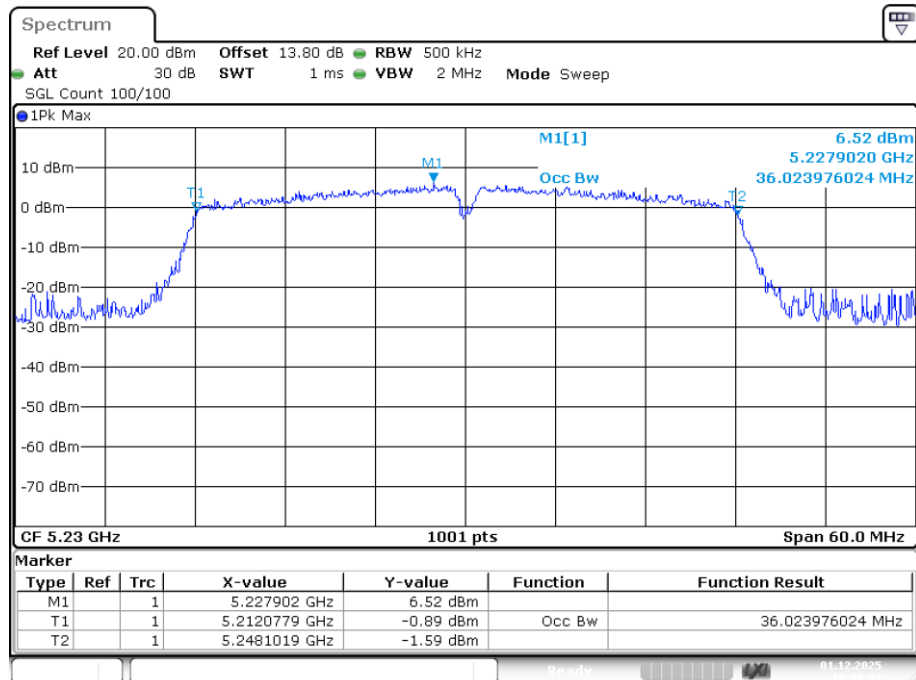
Date: 1.DEC.2025 16:29:42

## OBW NVNT ax40 5190MHz Ant1



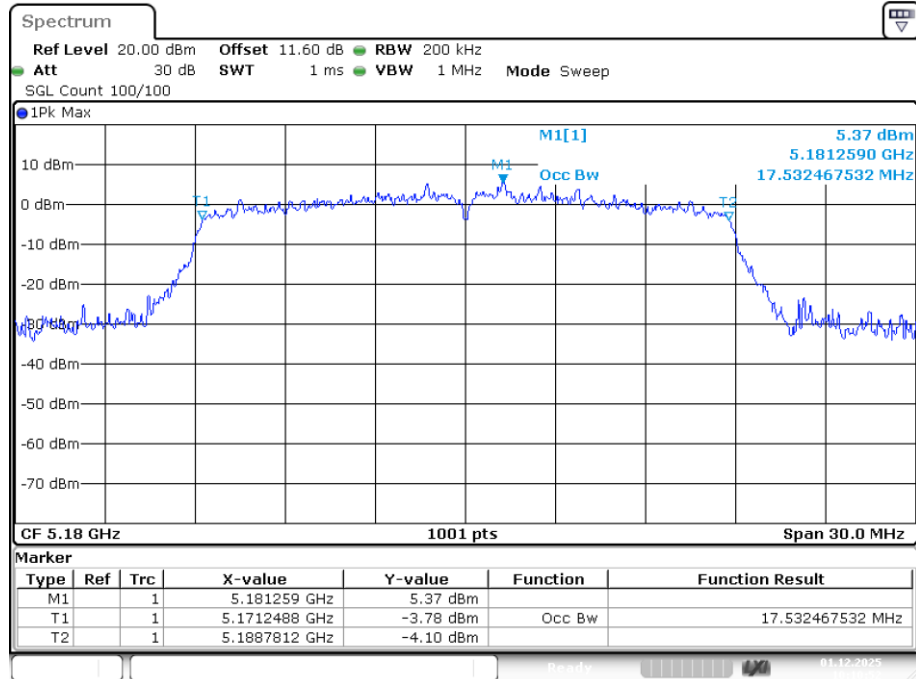
Date: 1.DEC.2025 16:37:51

## OBW NVNT ax40 5230MHz Ant1



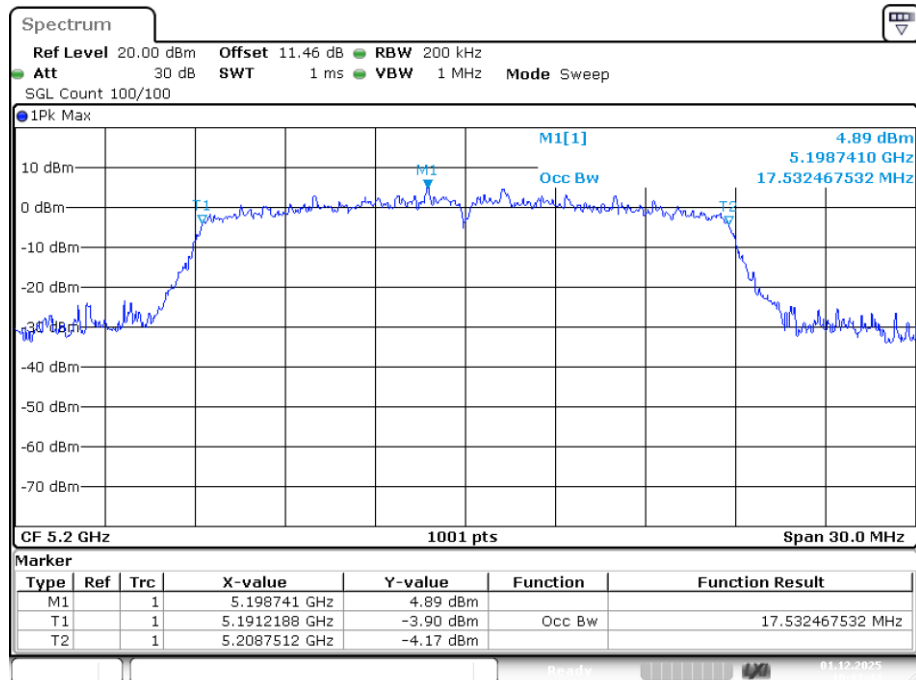
Date: 1.DEC.2025 16:46:02

## OBW NVNT n20 5180MHz Ant1



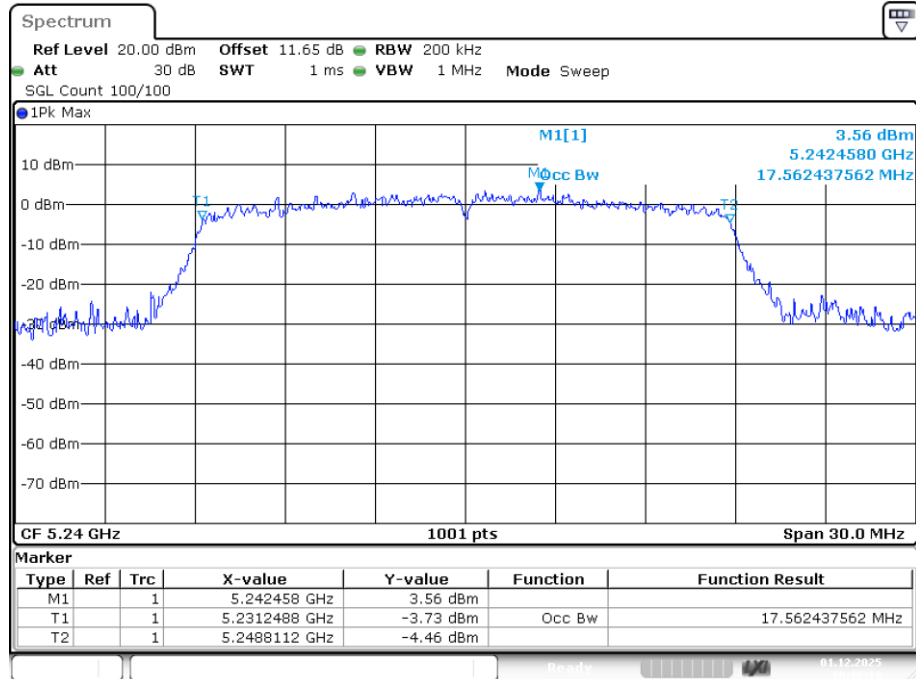
Date: 1.DEC.2025 10:10:52

## OBW NVNT n20 5200MHz Ant1



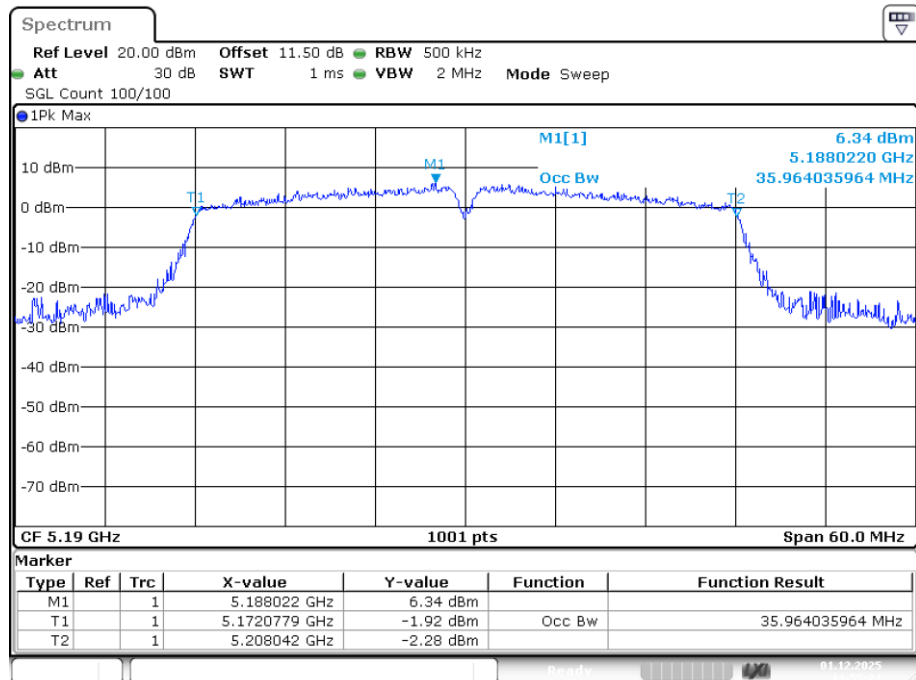
Date: 1.DEC.2025 10:13:43

## OBW NVNT n20 5240MHz Ant1



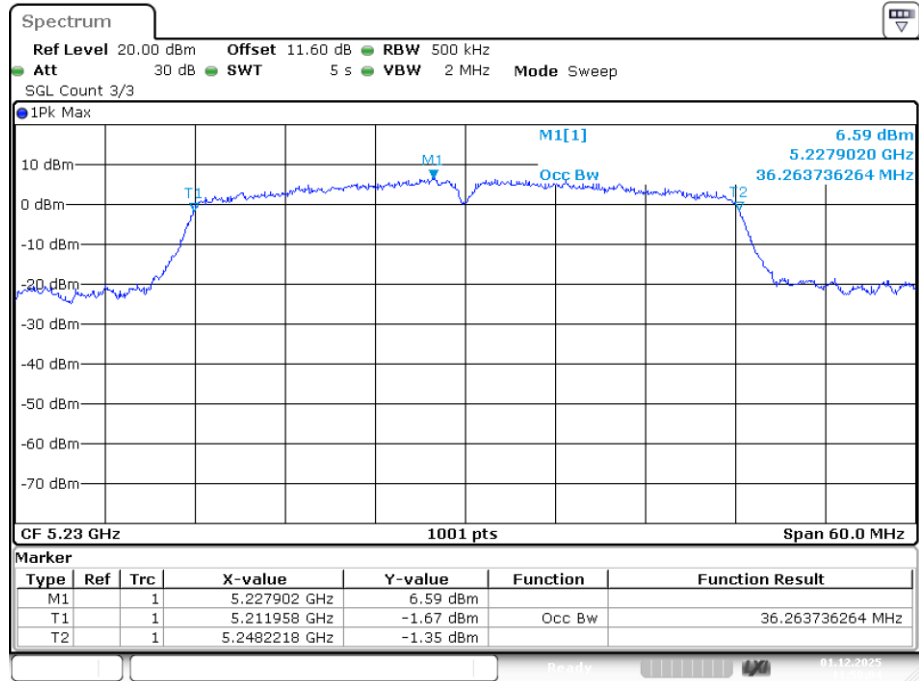
Date: 1.DEC.2025 10:16:19

## OBW NVNT n40 5190MHz Ant1



Date: 1.DEC.2025 11:55:20

## OBW NVNT n40 5230MHz Ant1

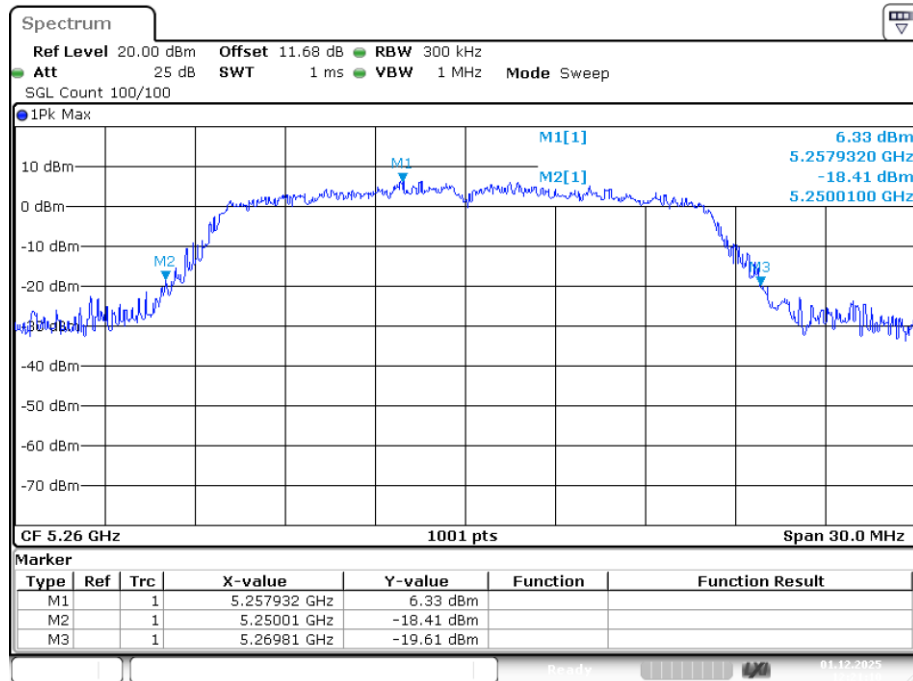


Date: 1.DEC.2025 11:59:05

**Band 2 (5250-5350 MHz):  
-26dB Bandwidth**

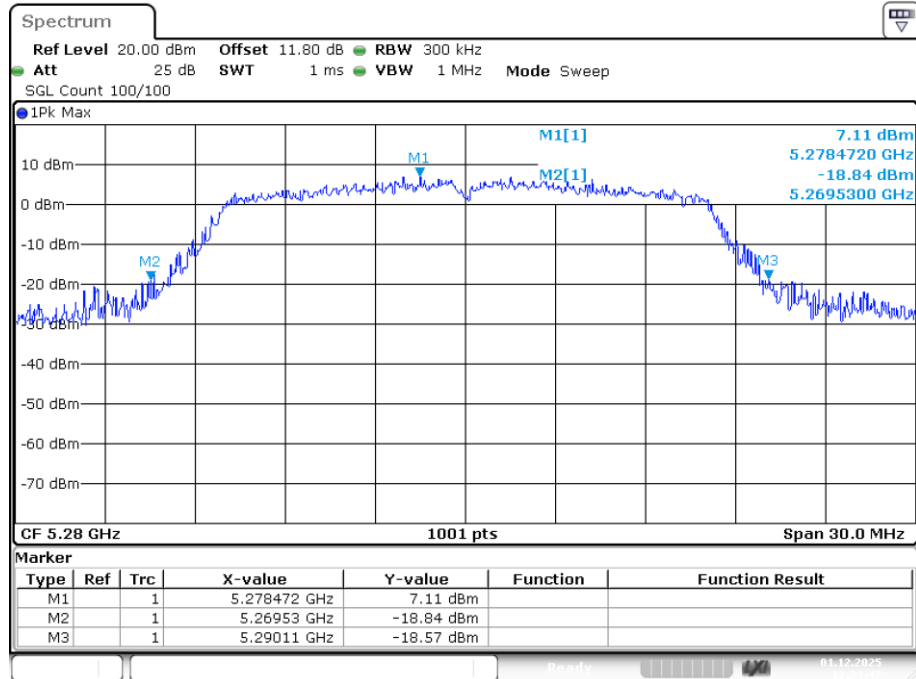
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5260            | Ant1    | 19.8                   | N/A                          | Pass    |
| NVNT      | a    | 5280            | Ant1    | 20.58                  | N/A                          | Pass    |
| NVNT      | a    | 5320            | Ant1    | 25.26                  | N/A                          | Pass    |
| NVNT      | ac20 | 5260            | Ant1    | 20.37                  | N/A                          | Pass    |
| NVNT      | ac20 | 5280            | Ant1    | 20.61                  | N/A                          | Pass    |
| NVNT      | ac20 | 5320            | Ant1    | 20.58                  | N/A                          | Pass    |
| NVNT      | ac40 | 5270            | Ant1    | 41.28                  | N/A                          | Pass    |
| NVNT      | ac40 | 5310            | Ant1    | 41.16                  | N/A                          | Pass    |
| NVNT      | ax20 | 5260            | Ant1    | 20.58                  | N/A                          | Pass    |
| NVNT      | ax20 | 5280            | Ant1    | 22.59                  | N/A                          | Pass    |
| NVNT      | ax20 | 5320            | Ant1    | 20.25                  | N/A                          | Pass    |
| NVNT      | ax40 | 5270            | Ant1    | 50.94                  | N/A                          | Pass    |
| NVNT      | ax40 | 5310            | Ant1    | 41.22                  | N/A                          | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 23.61                  | N/A                          | Pass    |
| NVNT      | n20  | 5280            | Ant1    | 23.58                  | N/A                          | Pass    |
| NVNT      | n20  | 5320            | Ant1    | 23.7                   | N/A                          | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 49.62                  | N/A                          | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 41.22                  | N/A                          | Pass    |

**-26dB Bandwidth NVNT a 5260MHz Ant1**



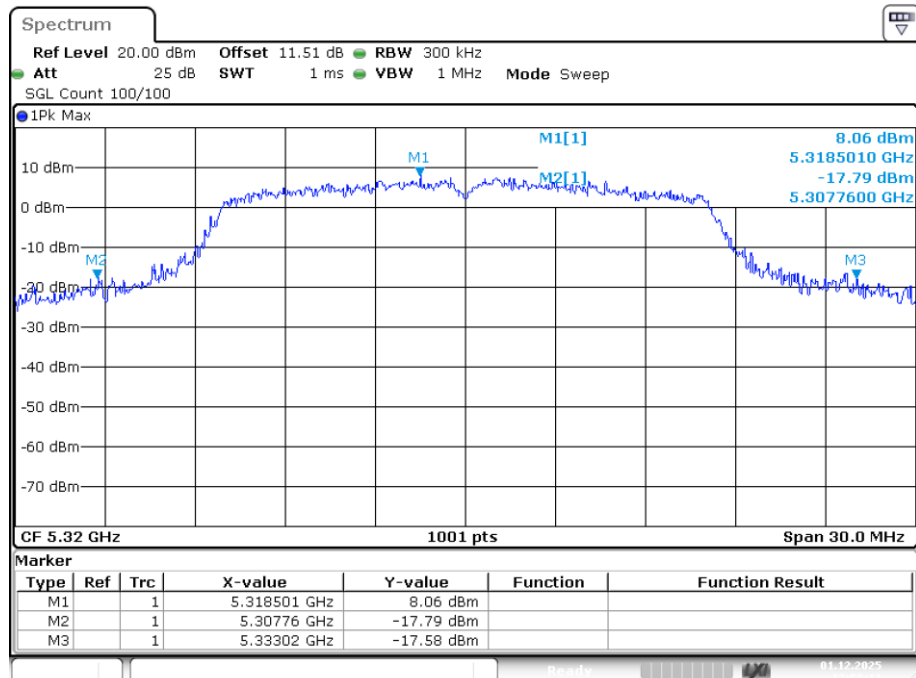
Date: 1.DEC.2025 12:21:10

## -26dB Bandwidth NVNT a 5280MHz Ant1



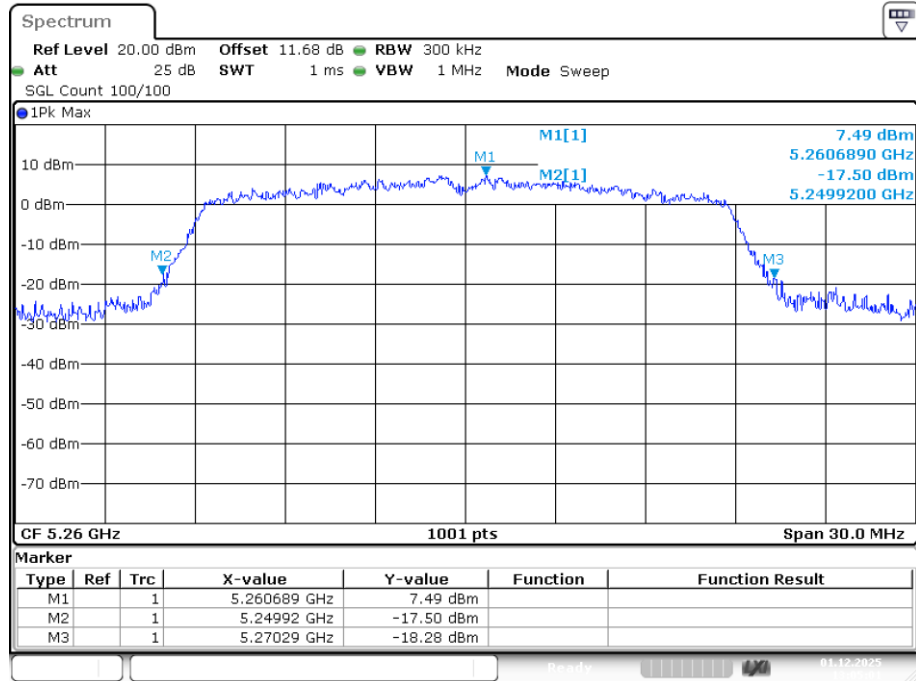
Date: 1.DEC.2025 12:23:46

## -26dB Bandwidth NVNT a 5320MHz Ant1



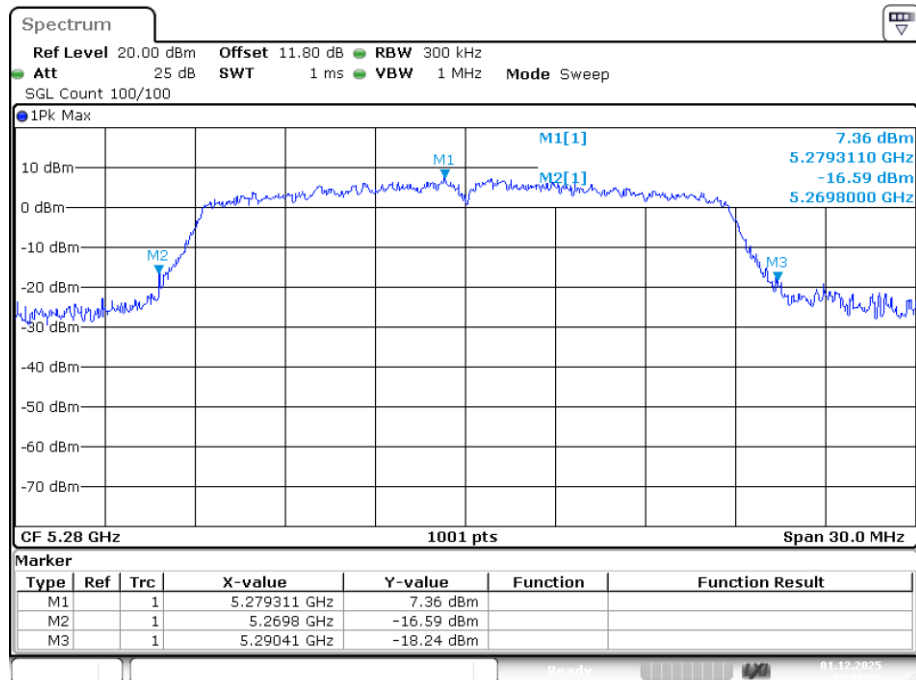
Date: 1.DEC.2025 12:53:11

## -26dB Bandwidth NVNT ac20 5260MHz Ant1

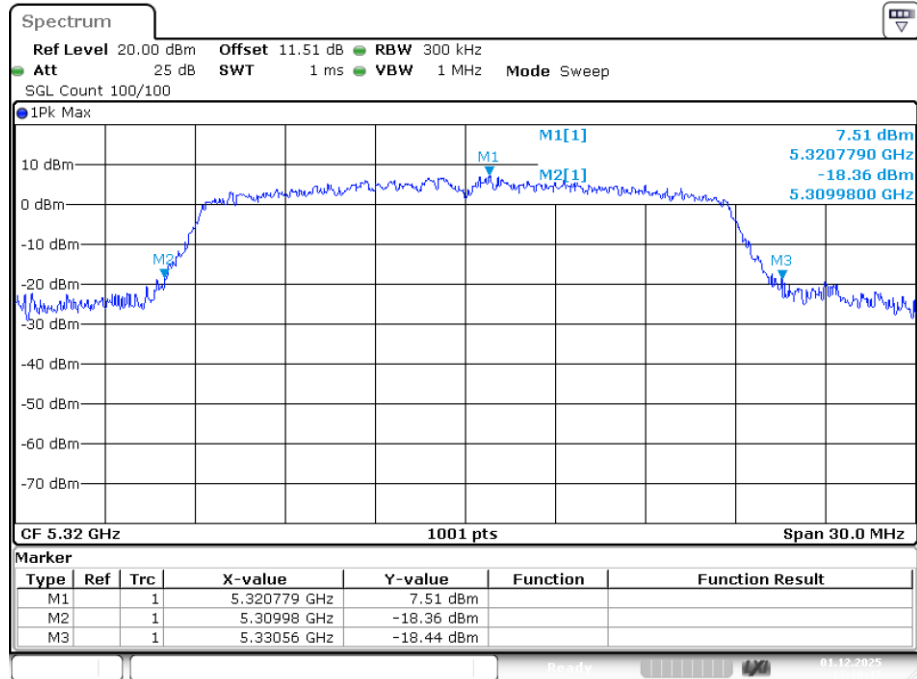


Date: 1.DEC.2025 13:05:01

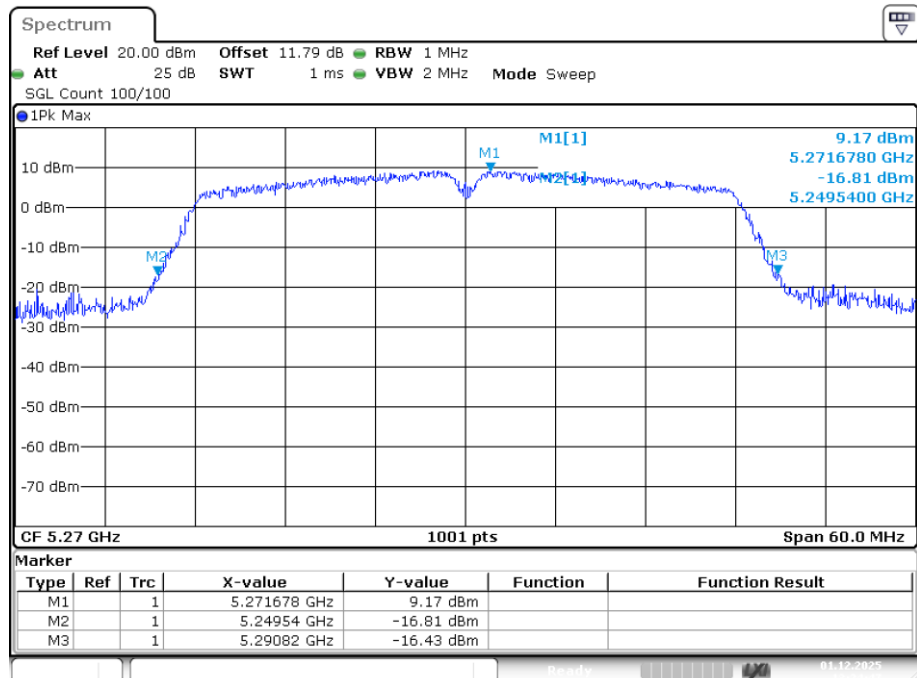
## -26dB Bandwidth NVNT ac20 5280MHz Ant1



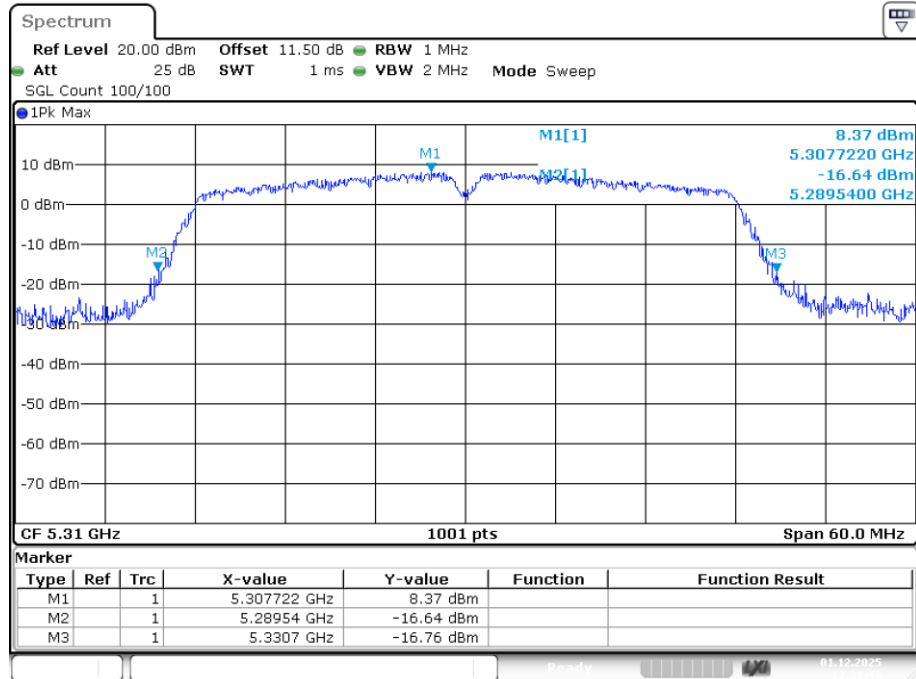
Date: 1.DEC.2025 13:07:38

**-26dB Bandwidth NVNT ac20 5320MHz Ant1**

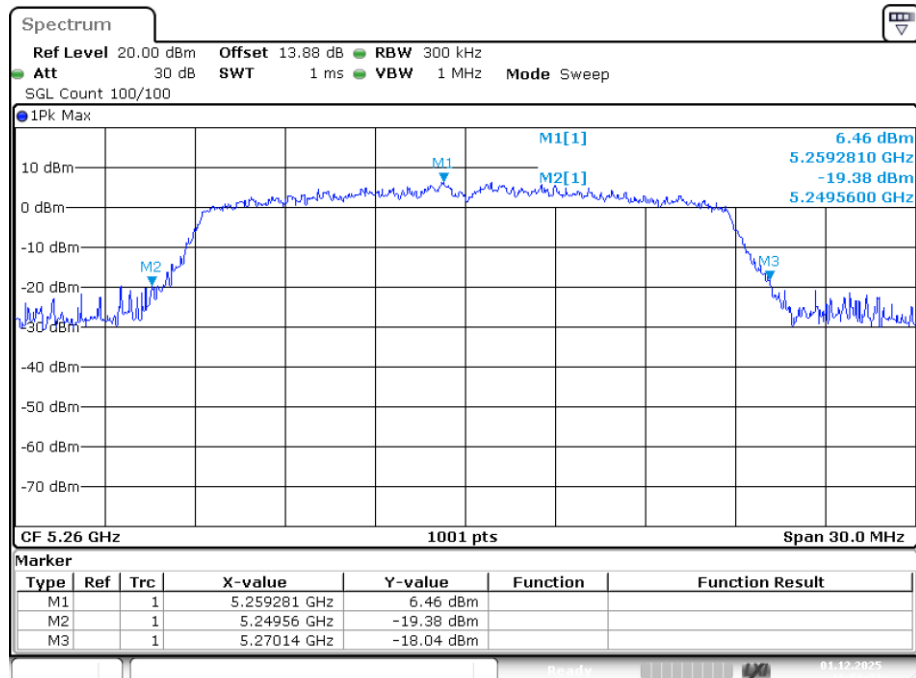
Date: 1.DEC.2025 13:10:47

**-26dB Bandwidth NVNT ac40 5270MHz Ant1**

Date: 1.DEC.2025 13:24:47

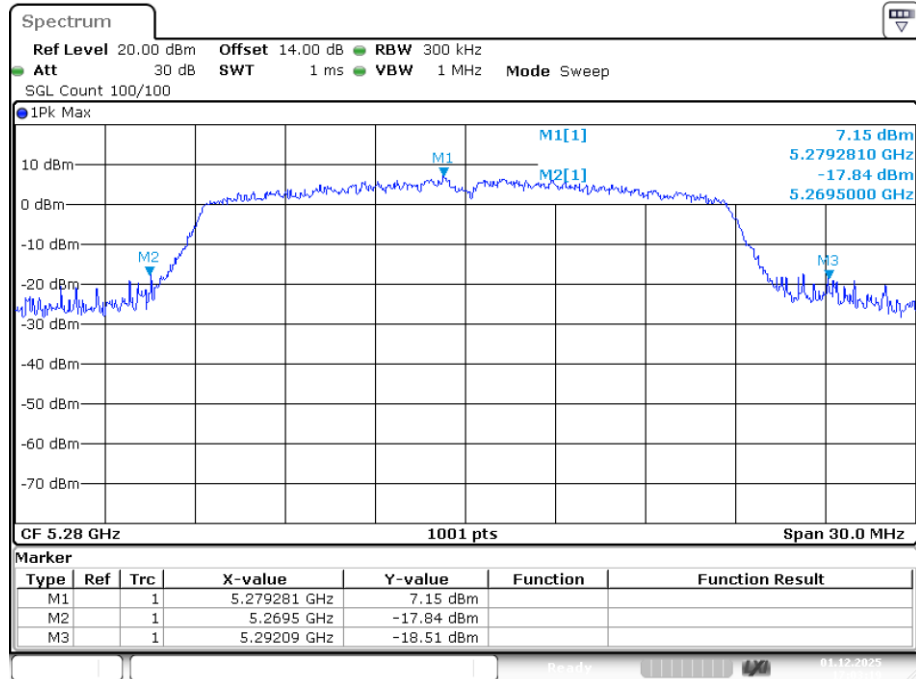
**-26dB Bandwidth NVNT ac40 5310MHz Ant1**

Date: 1.DEC.2025 13:29:47

**-26dB Bandwidth NVNT ax20 5260MHz Ant1**

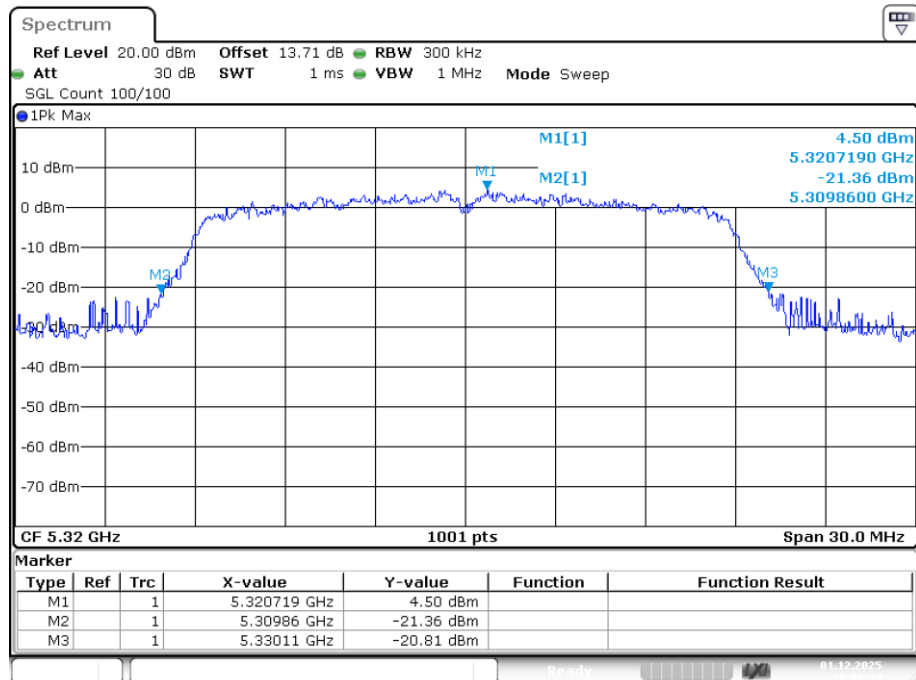
Date: 1.DEC.2025 16:51:22

## -26dB Bandwidth NVNT ax20 5280MHz Ant1

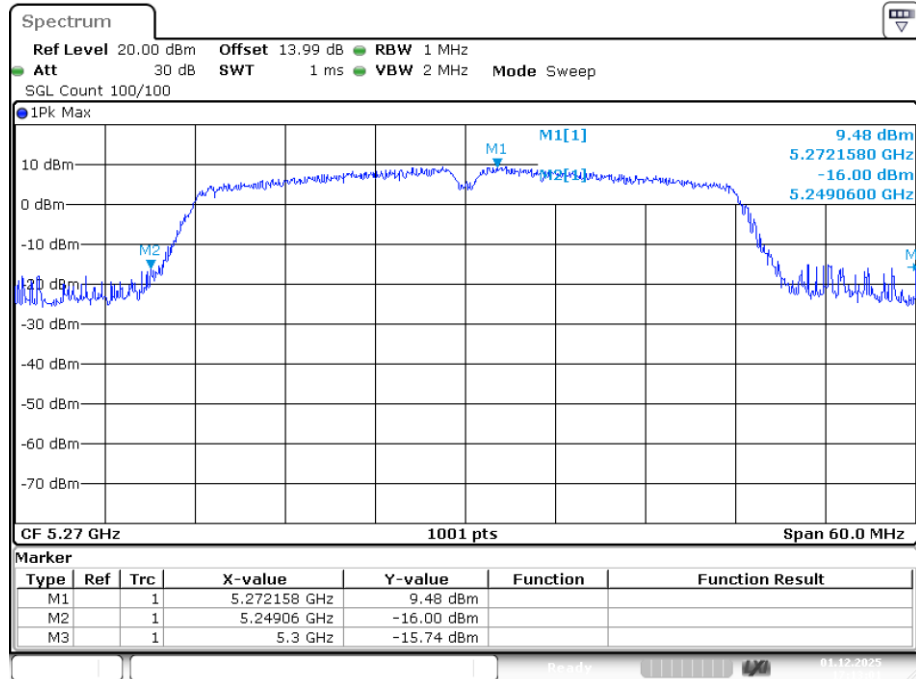


Date: 1.DEC.2025 17:03:19

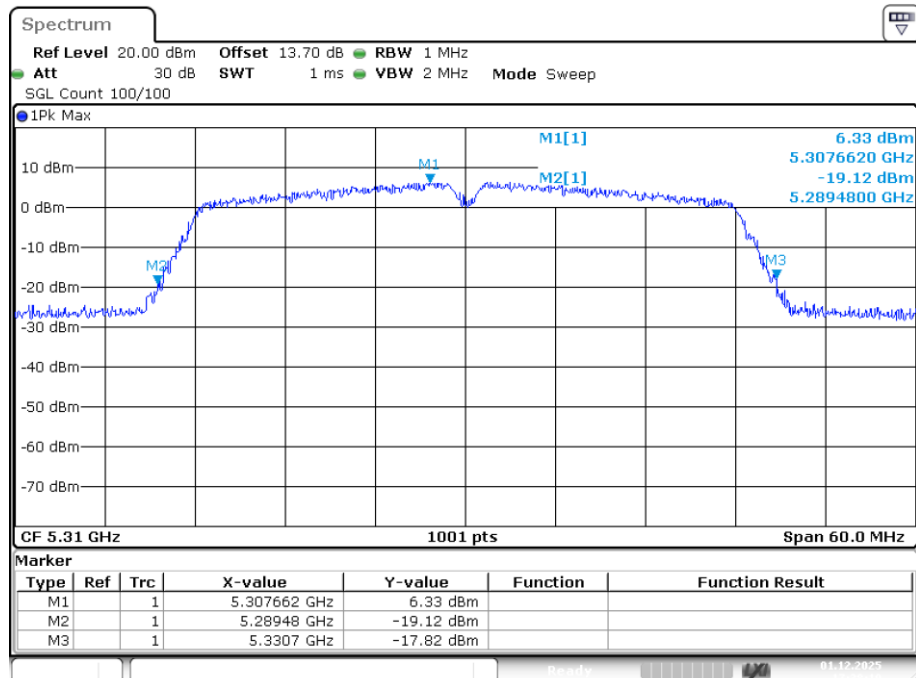
## -26dB Bandwidth NVNT ax20 5320MHz Ant1



Date: 1.DEC.2025 17:09:33

**-26dB Bandwidth NVNT ax40 5270MHz Ant1**

Date: 1.DEC.2025 17:13:01

**-26dB Bandwidth NVNT ax40 5310MHz Ant1**

Date: 1.DEC.2025 17:38:18