



## FCC&IC TEST REPORT

FCC ID: 2AATL-FGN240ASRL

IC: 12425A-FGN240ASRL

On Behalf of

**FN-LINK TECHNOLOGY LIMITED**

**Wi-Fi module**

**Model No.: FGN240ASRL**

Prepared for : FN-LINK TECHNOLOGY LIMITED  
Address : No.8, Litong Road, Liuyang Economic & Technical Development  
Zone, Changsha, Hunan, 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 : A2504349-C03-R03  
Date of Receipt : August 22, 2025  
Date of Test : August 22, 2025 – November 18, 2025  
Date of Report : November 18, 2025  
Version Number : V0  
**Result** **Pass**

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## TEST REPORT DECLARATION

Applicant : FN-LINK TECHNOLOGY LIMITED

Address : No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, China

Manufacturer : FN-LINK TECHNOLOGY LIMITED

Address : No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, China

EUT Description : Wi-Fi module

(A) Model No. : FGN240ASRL

(B) Trademark :  欧智通

Measurement Standard Used:

### FCC Rules and Regulations Part 15 Subpart E

**RSS-247 Issue 3, RSS-Gen Issue 5, ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024**

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 and RSS-GEN 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.....:

November 18, 2025

**Revision History**

| Revision | Issue Date        | Revisions              | Revised By |
|----------|-------------------|------------------------|------------|
| V0       | November 18, 2025 | Initial released Issue | Yannis Wen |

## 1 Test Summary

| Test Item                        | Section in CFR 47                                                             | Result |
|----------------------------------|-------------------------------------------------------------------------------|--------|
| Antenna requirement              | Section 15.203<br>RSS-Gen(6.8)                                                | PASS   |
| AC Power Line Conducted Emission | Section 15.207(a)<br>RSS-GEN(8.8)                                             | N/A    |
| Maximum Conducted Output Power   | Section 15.407(a)<br>RSS-247 6.2.1.1& 6.2.2.1& 6.2.3.1& 6.2.4.2               | PASS   |
| Power Spectral Density           | Section 15.407(a)<br>RSS-247 6.2.1.1& 6.2.2.1& 6.2.3.1& 6.2.4.2               | PASS   |
| 26dB/6dB&99% Bandwidth           | Section 15.407<br>RSS-Gen(6.7)                                                | PASS   |
| Undesirable Emission             | Section 15.407(b)<br>RSS-247 6.2.1.2& 6.2.2.2& 6.2.3.2& 6.2.4.3               | PASS   |
| Conducted Spurious Emission      | Section 15.407(b)<br>RSS-247 6.2.1.2& 6.2.2.2& 6.2.3.2& 6.2.4.3               | PASS   |
| Conducted Band Edge              | Section 15.407(b)<br>RSS-247 6.2.1.2& 6.2.2.2& 6.2.3.2& 6.2.4.3               | PASS   |
| Radiated Emission                | 15.205&15.209 (a)<br>RSS-Gen(8.9), RSS-247 6.2.1.2& 6.2.2.2& 6.2.3.2& 6.2.4.3 | PASS   |
| Radiated Band Edge               | 15.205&15.209 (a)<br>RSS-Gen(8.9), RSS-247 6.2.1.2& 6.2.2.2& 6.2.3.2& 6.2.4.3 | PASS   |
| Frequency Stability              | RSS-GEN(6.11)                                                                 | 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                                        | 5.06×10-8GHz         |
| 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%                |
| Uncertainty for Power Spectral Density                                 | 0.39dB               |
| Uncertainty for Occupied-Bandwidth                                     | 968Hz                |

## 2 General Information

### 2.1 General Description of EUT

EUT Name : Wi-Fi module  
Model No. : FGN240ASRL  
DIFF. : N/A  
Power supply : DC 3.3V from USB adapter board

Radio Technology : 5G WIFI

Operation Frequency : 802.11a/n(HT20)/ac(VHT20)/ax20: 5180~5240MHz; 5260-5320MHz; 5500-5700MHz; 5745~5825MHz  
802.11n(HT40)/ac(VHT40)/ax40: 5190~5230MHz; 5270-5310MHz; 5510-5670MHz; 5755~5795MHz

Channel separation : 20MHz for 802.11a/ 802.11ac(VHT20)/ 802.11n(HT20)/ax20  
40MHz for 802.11ac(VHT40)/ 802.11n(HT40)/ax40

Modulation technology: : IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)  
IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)  
IEEE 802.11ac: OFDM (64QAM, 16QAM, QPSK, BPSK)  
IEEE 802.11ax: OFDMA  
(64QAM, 16QAM, QPSK, BPSK, 256QAM)

Antenna Type : PCB antenna, max gain 7.16dBi  
(Antenna information is provided by applicant.)

Software version : V1.0

Hardware version : V1.0

Intend use environment : Residential, commercial and light industrial environment

Note: In this report, the main test model is FGN240ASRL, and the main test model serial number is 28F52BB44960.

## 2.2 Test mode

Transmitting mode      Keep the EUT in transmitting with modulation.

EUT was test with 99% duty cycle at its maximum power control level.

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.

### U-NII-1:

| Tested mode, channel, and data rate information                                                                                                              |                              |         |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------|-----------------|
| Mode                                                                                                                                                         | Data rate (Mbps)<br>see Note | Channel | Frequency (MHz) |
| IEEE 802.11a                                                                                                                                                 | 6                            | CH36    | 5180            |
|                                                                                                                                                              | 6                            | CH40    | 5200            |
|                                                                                                                                                              | 6                            | CH48    | 5240            |
| IEEE 802.11n<br>HT20                                                                                                                                         | 6.5                          | CH36    | 5180            |
|                                                                                                                                                              | 6.5                          | CH40    | 5200            |
|                                                                                                                                                              | 6.5                          | CH48    | 5240            |
| IEEE 802.11n<br>HT40                                                                                                                                         | 13.5                         | CH38    | 5190            |
|                                                                                                                                                              | 13.5                         | CH46    | 5230            |
| IEEE 802.11ac<br>VHT20                                                                                                                                       | 6.5                          | CH36    | 5180            |
|                                                                                                                                                              | 6.5                          | CH40    | 5200            |
|                                                                                                                                                              | 6.5                          | CH48    | 5240            |
| IEEE 802.11ac<br>VHT40                                                                                                                                       | 13.5                         | CH38    | 5190            |
|                                                                                                                                                              | 13.5                         | CH46    | 5230            |
| IEEE 802.11ax20                                                                                                                                              | 6.5                          | CH36    | 5180            |
|                                                                                                                                                              | 6.5                          | CH40    | 5200            |
|                                                                                                                                                              | 6.5                          | CH48    | 5240            |
| IEEE 802.11ax40                                                                                                                                              | 13.5                         | CH38    | 5190            |
|                                                                                                                                                              | 13.5                         | CH46    | 5230            |
| Note: According exploratory test and product specification EUT will have maximum output power in those data rate, so those data rate were used for all test. |                              |         |                 |

### U-NII-2A:

| Tested mode, channel, and data rate information                                                                                                              |                              |         |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------|-----------------|
| Mode                                                                                                                                                         | Data rate (Mbps)<br>see Note | Channel | Frequency (MHz) |
| IEEE 802.11a                                                                                                                                                 | 6                            | CH52    | 5260            |
|                                                                                                                                                              | 6                            | CH56    | 5280            |
|                                                                                                                                                              | 6                            | CH64    | 5320            |
| IEEE 802.11n<br>HT20                                                                                                                                         | 6.5                          | CH52    | 5260            |
|                                                                                                                                                              | 6.5                          | CH56    | 5280            |
|                                                                                                                                                              | 6.5                          | CH64    | 5320            |
| IEEE 802.11n<br>HT40                                                                                                                                         | 13.5                         | CH54    | 5270            |
|                                                                                                                                                              | 13.5                         | CH62    | 5310            |
| IEEE 802.11ac<br>VHT20                                                                                                                                       | 6.5                          | CH52    | 5260            |
|                                                                                                                                                              | 6.5                          | CH56    | 5280            |
|                                                                                                                                                              | 6.5                          | CH64    | 5320            |
| IEEE 802.11ac<br>VHT40                                                                                                                                       | 13.5                         | CH54    | 5270            |
|                                                                                                                                                              | 13.5                         | CH62    | 5310            |
| IEEE 802.11ax20                                                                                                                                              | 6.5                          | CH52    | 5260            |
|                                                                                                                                                              | 6.5                          | CH56    | 5280            |
|                                                                                                                                                              | 6.5                          | CH64    | 5320            |
| IEEE 802.11ax40                                                                                                                                              | 13.5                         | CH54    | 5270            |
|                                                                                                                                                              | 13.5                         | CH62    | 5310            |
| Note: According exploratory test and product specification EUT will have maximum output power in those data rate, so those data rate were used for all test. |                              |         |                 |

## U-NII-2C:

| Tested mode, channel, and data rate information                                                                                                              |                              |         |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------|-----------------|
| Mode                                                                                                                                                         | Data rate (Mbps)<br>see Note | Channel | Frequency (MHz) |
| IEEE 802.11a                                                                                                                                                 | 6                            | CH100   | 5500            |
|                                                                                                                                                              | 6                            | CH116   | 5580            |
|                                                                                                                                                              | 6                            | CH140   | 5700            |
| IEEE 802.11n<br>HT20                                                                                                                                         | 6.5                          | CH100   | 5500            |
|                                                                                                                                                              | 6.5                          | CH116   | 5580            |
|                                                                                                                                                              | 6.5                          | CH140   | 5700            |
| IEEE 802.11n<br>HT40                                                                                                                                         | 13.5                         | CH102   | 5510            |
|                                                                                                                                                              | 13.5                         | CH134   | 5670            |
| IEEE 802.11ac<br>VHT20                                                                                                                                       | 6.5                          | CH100   | 5500            |
|                                                                                                                                                              | 6.5                          | CH116   | 5580            |
|                                                                                                                                                              | 6.5                          | CH140   | 5700            |
| IEEE 802.11ac<br>VHT40                                                                                                                                       | 13.5                         | CH102   | 5510            |
|                                                                                                                                                              | 13.5                         | CH134   | 5670            |
| IEEE 802.11ax20                                                                                                                                              | 6.5                          | CH100   | 5500            |
|                                                                                                                                                              | 6.5                          | CH116   | 5580            |
|                                                                                                                                                              | 6.5                          | CH140   | 5700            |
| IEEE 802.11ax40                                                                                                                                              | 13.5                         | CH102   | 5510            |
|                                                                                                                                                              | 13.5                         | CH134   | 5670            |
| Note: According exploratory test and product specification EUT will have maximum output power in those data rate, so those data rate were used for all test. |                              |         |                 |

## UNII-3:

| Tested mode, channel, and data rate information                                                                                                              |                              |         |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------|-----------------|
| Mode                                                                                                                                                         | Data rate (Mbps)<br>see Note | Channel | Frequency (MHz) |
| IEEE 802.11a                                                                                                                                                 | 6                            | CH149   | 5745            |
|                                                                                                                                                              | 6                            | CH157   | 5785            |
|                                                                                                                                                              | 6                            | CH165   | 5825            |
| IEEE 802.11n<br>HT20                                                                                                                                         | 6.5                          | CH149   | 5745            |
|                                                                                                                                                              | 6.5                          | CH157   | 5785            |
|                                                                                                                                                              | 6.5                          | CH165   | 5825            |
| IEEE 802.11n<br>HT40                                                                                                                                         | 13.5                         | CH151   | 5755            |
|                                                                                                                                                              | 13.5                         | CH159   | 5795            |
| IEEE 802.11ac<br>VHT20                                                                                                                                       | 6.5                          | CH149   | 5745            |
|                                                                                                                                                              | 6.5                          | CH157   | 5785            |
|                                                                                                                                                              | 6.5                          | CH165   | 5825            |
| IEEE 802.11ac<br>VHT40                                                                                                                                       | 13.5                         | CH151   | 5755            |
|                                                                                                                                                              | 13.5                         | CH159   | 5795            |
| IEEE 802.11ax20                                                                                                                                              | 6.5                          | CH149   | 5745            |
|                                                                                                                                                              | 6.5                          | CH157   | 5785            |
|                                                                                                                                                              | 6.5                          | CH165   | 5825            |
| IEEE 802.11ax40                                                                                                                                              | 13.5                         | CH151   | 5755            |
|                                                                                                                                                              | 13.5                         | CH159   | 5795            |
| Note: According exploratory test and product specification EUT will have maximum output power in those data rate, so those data rate were used for all test. |                              |         |                 |

Note: Support only SU

## 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

June 21, 2018 File on Federal Communication Commission

Registration Number: 293961

July 25, 2017 Certificated by IC

Registration Number: 12135A

CAB identified: CN0085

## 2.4 Description of Support Units

Accessories : N/A

Manufacturer : N/A

Model : N/A

Ratings : N/A

## 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 SecureCRTPortable.exe software to control EUT operation in continuous TX mode, 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         | 1316.3003K03-102082-Wa | 2025.08.04 | 1Year        |
| Test Receiver                | ROHDE&SCHWARZ | ESCI         | 4.42 SP1         | 101165                 | 2025.08.04 | 1Year        |
| Bilog Antenna                | SCHWARZBECK   | VULB 9168    | /                | VULB 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_1840-50 | /                | SK2018101801           | 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. Chamber       | Teelong       | TL-HW408S    | /                | TL-20191205-01         | 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          |

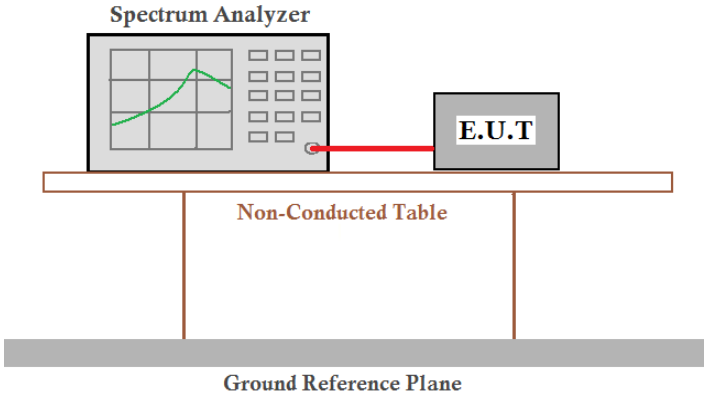
| Software Information |               |              |           |
|----------------------|---------------|--------------|-----------|
| Test Item            | Software Name | Manufacturer | Version   |
| RE                   | EZ-EMC        | EZ           | Alpha-3A1 |
| CE                   | EZ-EMC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

## 4 Test results and Measurement Data

### 4.1 Antenna requirement:

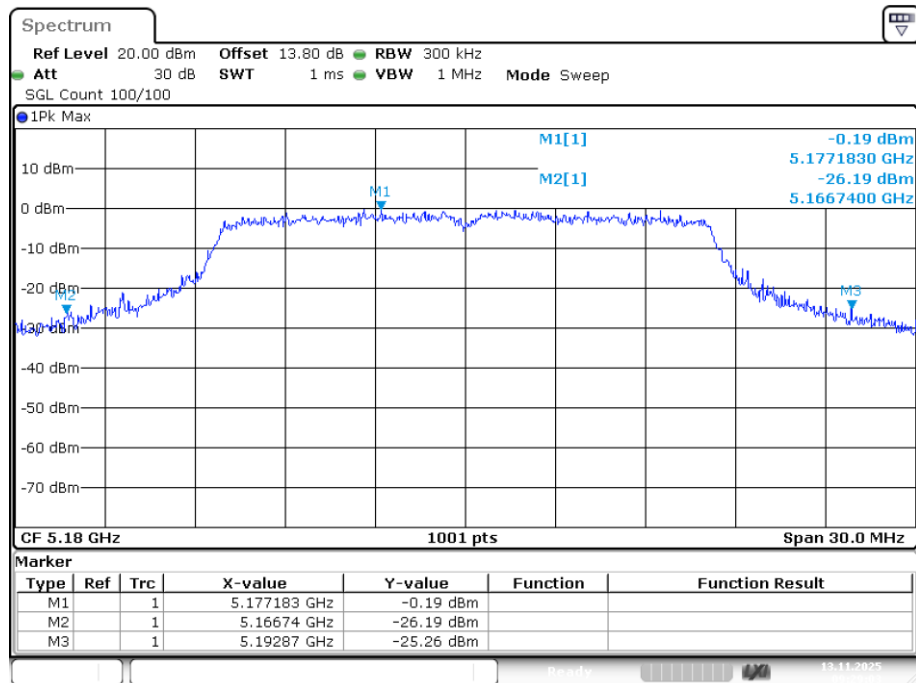
| Standard requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC Part15 C Section 15.203&RSS-GEN |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <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> <p>RSS-GEN requirement:</p> <p>The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.</p> <p>Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.</p> <p>Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.9 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.</p> <p>According to RSS-Gen, 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.</p> |                                     |
| E.U.T Antenna:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |
| <p>The antenna is PCB antenna. The best case gain of the antenna is 7.16dBi, for 5180~5240MHz; 5260-5320MHz; 5500-5700MHz; 5745~5825MHz</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |

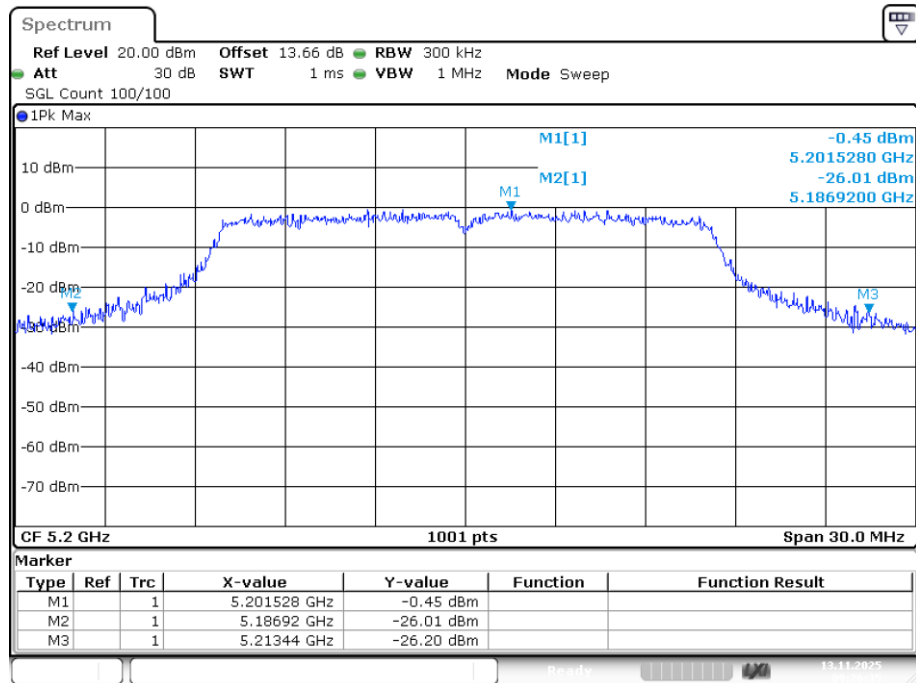
## 4.2 Emission Bandwidth and 99% Occupied Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407, RSS-Gen Issue 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Method:      | ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

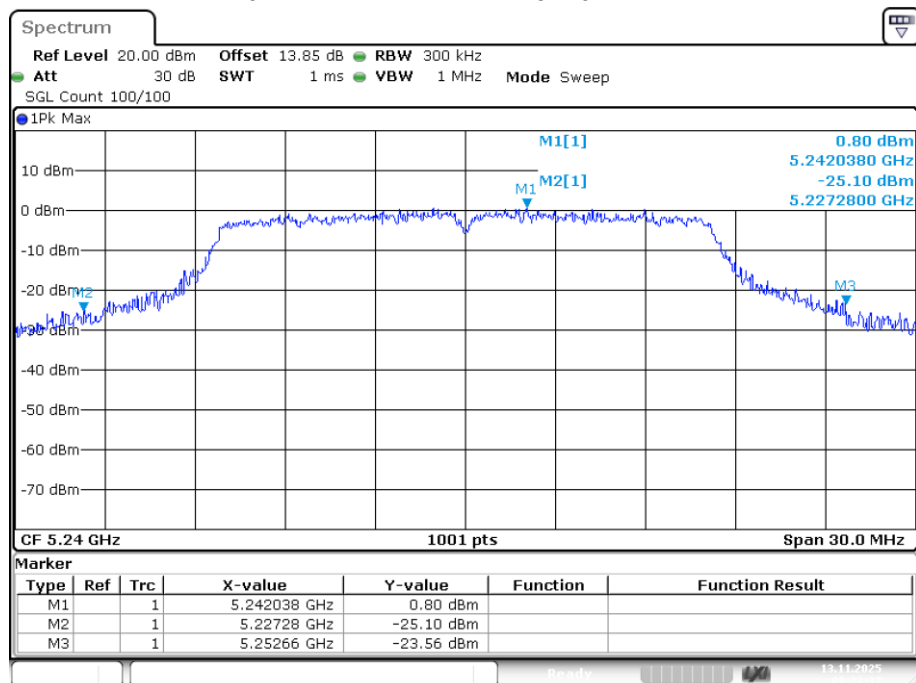
**Measurement Data:****Band 1 (5150-5250 MHz):****-26dB Bandwidth**

| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) |
|-----------|------|-----------------|---------|------------------------|
| NVNT      | a    | 5180            | Ant1    | 26.13                  |
| NVNT      | a    | 5200            | Ant1    | 26.52                  |
| NVNT      | a    | 5240            | Ant1    | 25.38                  |
| NVNT      | ac20 | 5180            | Ant1    | 26.55                  |
| NVNT      | ac20 | 5200            | Ant1    | 27.57                  |
| NVNT      | ac20 | 5240            | Ant1    | 26.82                  |
| NVNT      | ac40 | 5190            | Ant1    | 49.38                  |
| NVNT      | ac40 | 5230            | Ant1    | 50.4                   |
| NVNT      | ax20 | 5180            | Ant1    | 26.04                  |
| NVNT      | ax20 | 5200            | Ant1    | 27.78                  |
| NVNT      | ax20 | 5240            | Ant1    | 28.23                  |
| NVNT      | ax40 | 5190            | Ant1    | 57.66                  |
| NVNT      | ax40 | 5230            | Ant1    | 48.54                  |
| NVNT      | n20  | 5180            | Ant1    | 26.61                  |
| NVNT      | n20  | 5200            | Ant1    | 27.36                  |
| NVNT      | n20  | 5240            | Ant1    | 27.24                  |
| NVNT      | n40  | 5190            | Ant1    | 48.9                   |
| NVNT      | n40  | 5230            | Ant1    | 49.38                  |

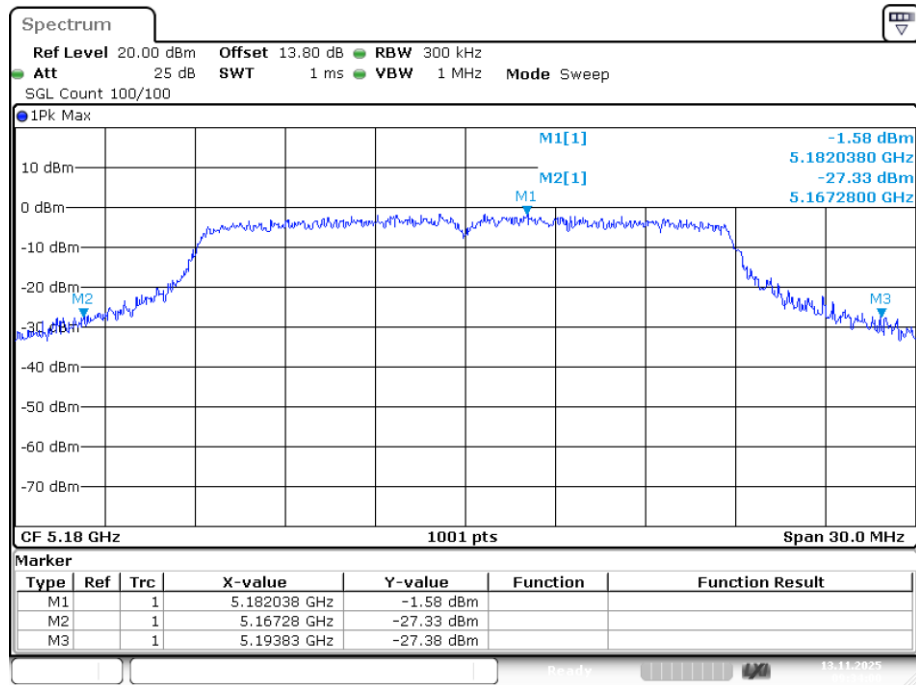
**-26dB Bandwidth NVNT a 5180MHz Ant1****-26dB Bandwidth NVNT a 5200MHz Ant1**



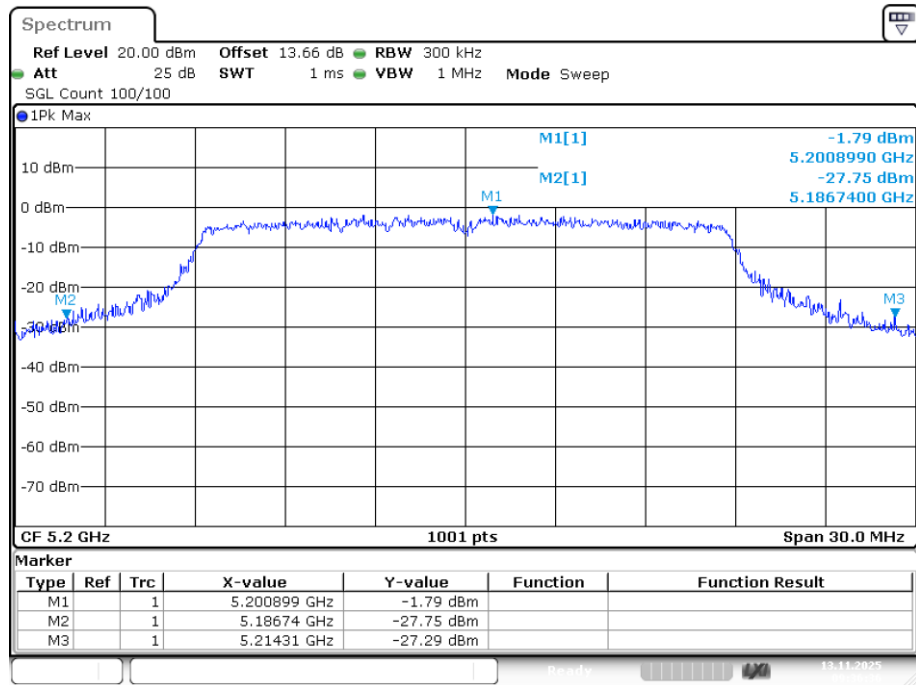
### -26dB Bandwidth NVNT a 5240MHz Ant1



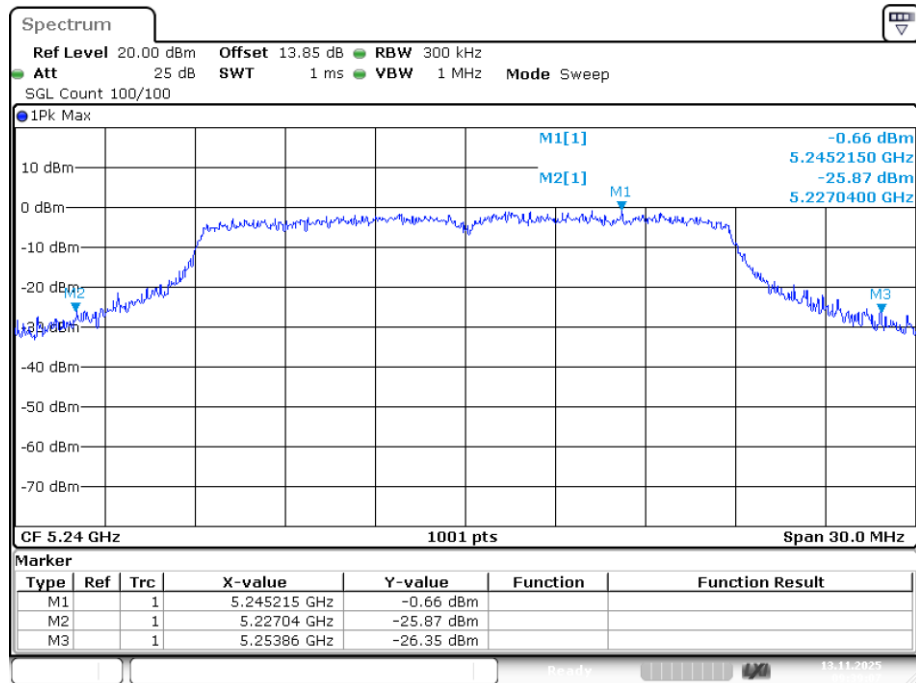
### -26dB Bandwidth NVNT ac20 5180MHz Ant1



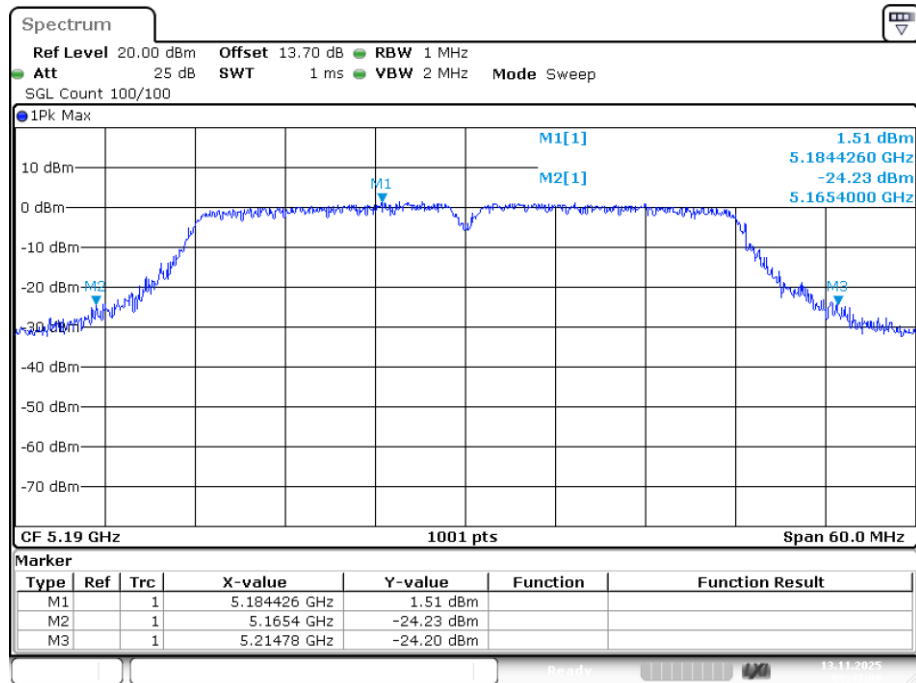
### -26dB Bandwidth NVNT ac20 5200MHz Ant1



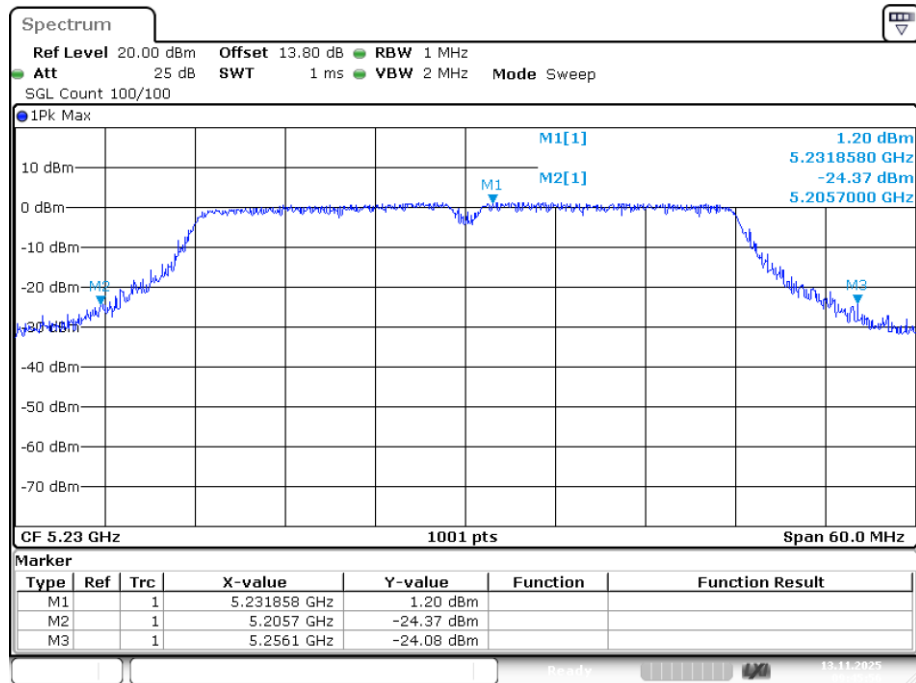
### -26dB Bandwidth NVNT ac20 5240MHz Ant1



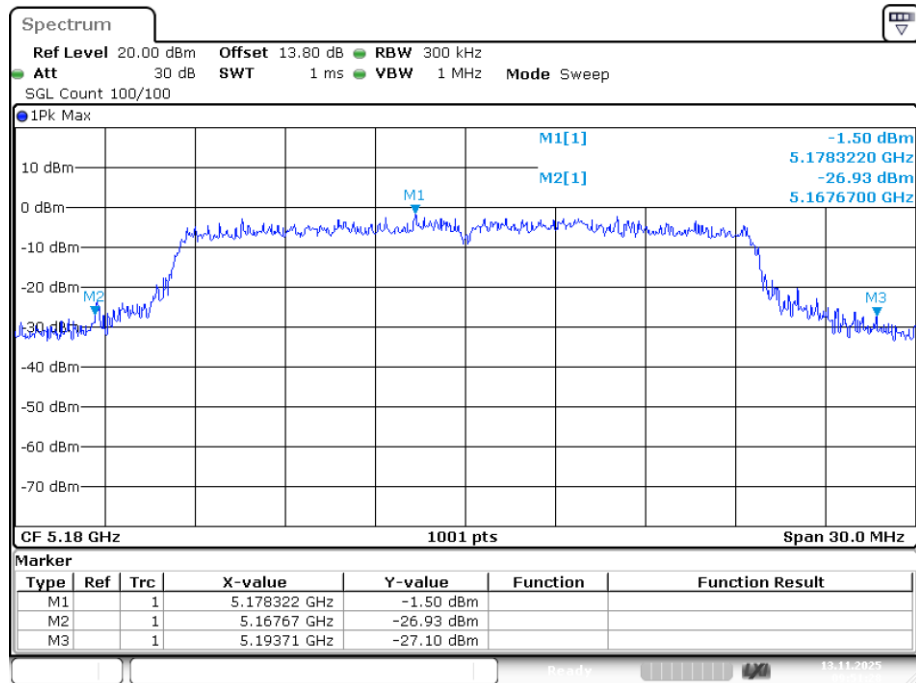
### -26dB Bandwidth NVNT ac40 5190MHz Ant1



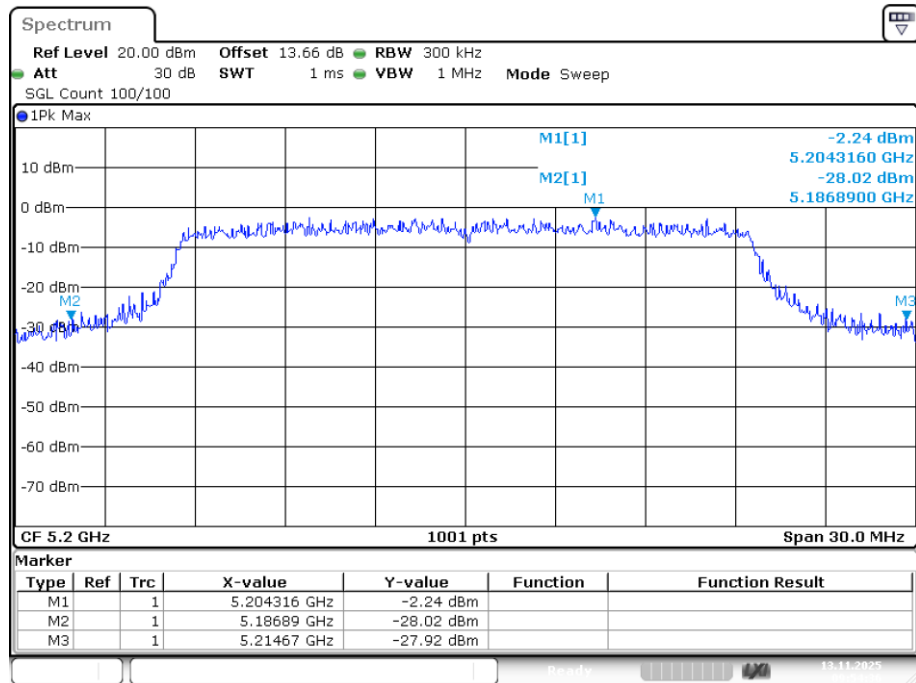
### -26dB Bandwidth NVNT ac40 5230MHz Ant1



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

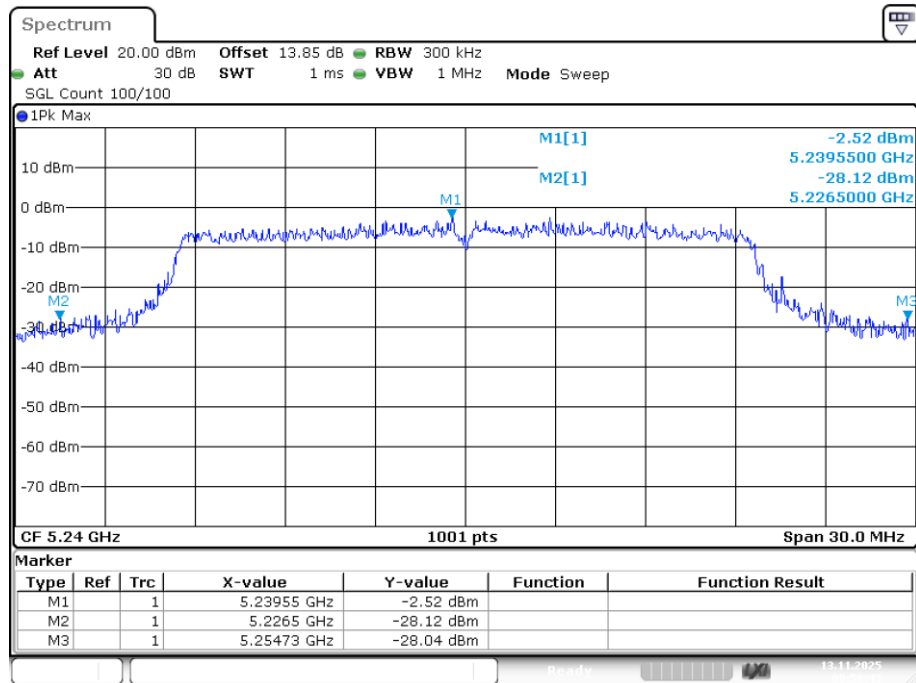


### -26dB Bandwidth NVNT ax20 5200MHz Ant1



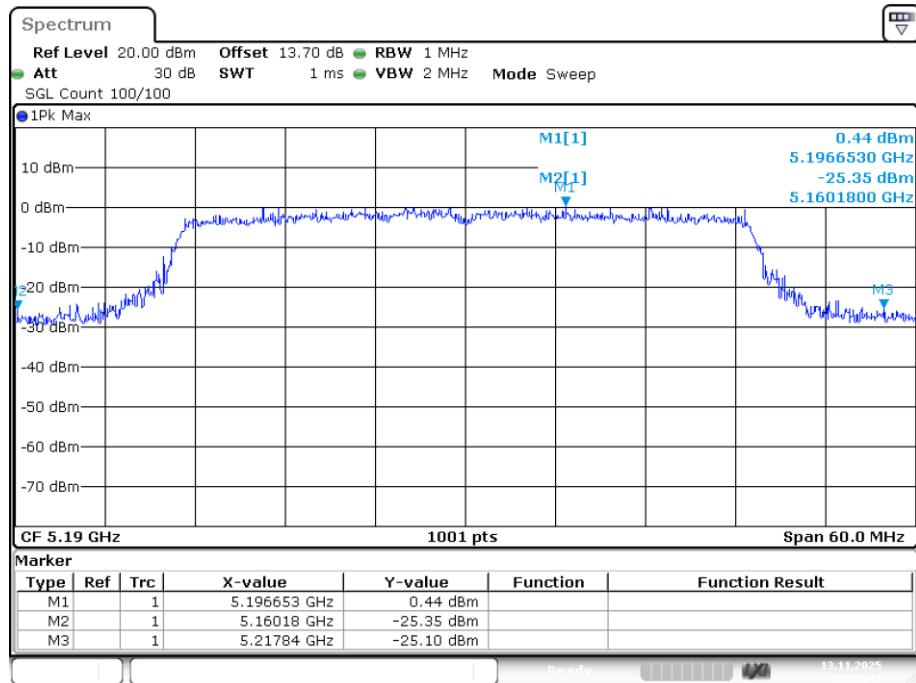
Date: 13.NOV.2025 09:54:35

### -26dB Bandwidth NVNT ax20 5240MHz Ant1

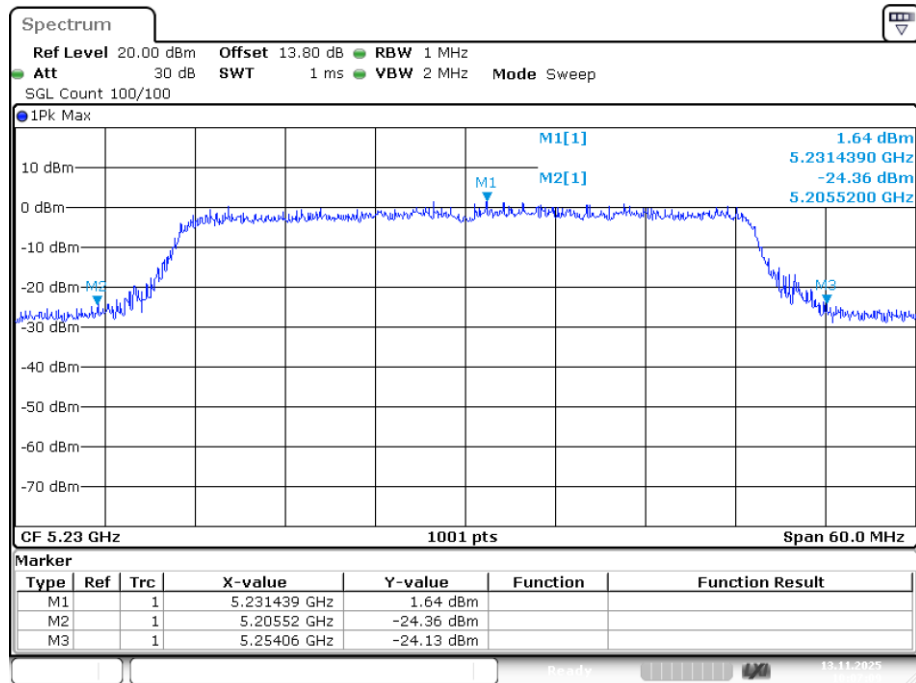


Date: 13.NOV.2025 09:59:42

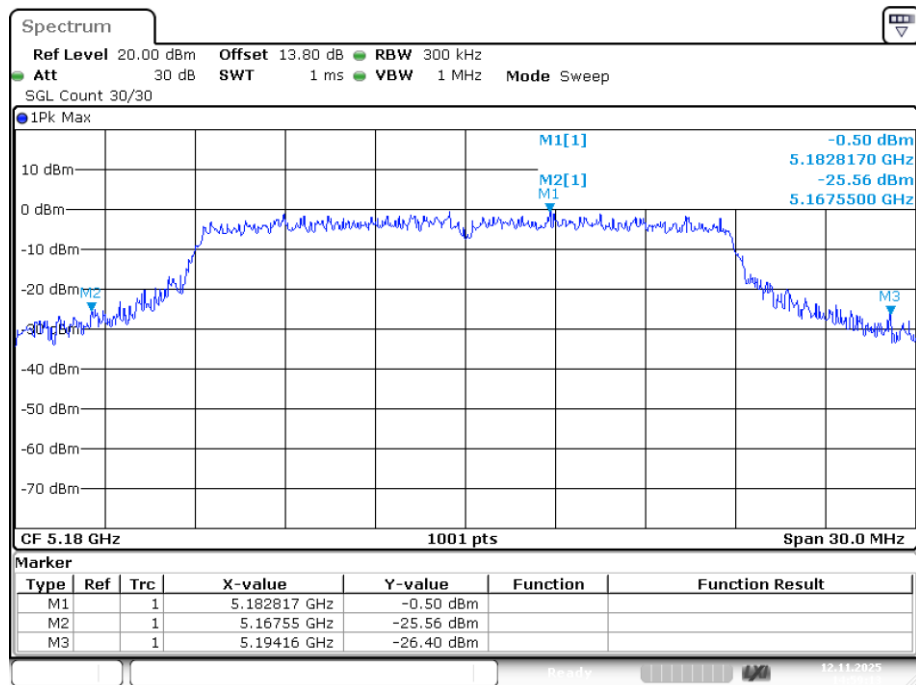
### -26dB Bandwidth NVNT ax40 5190MHz Ant1



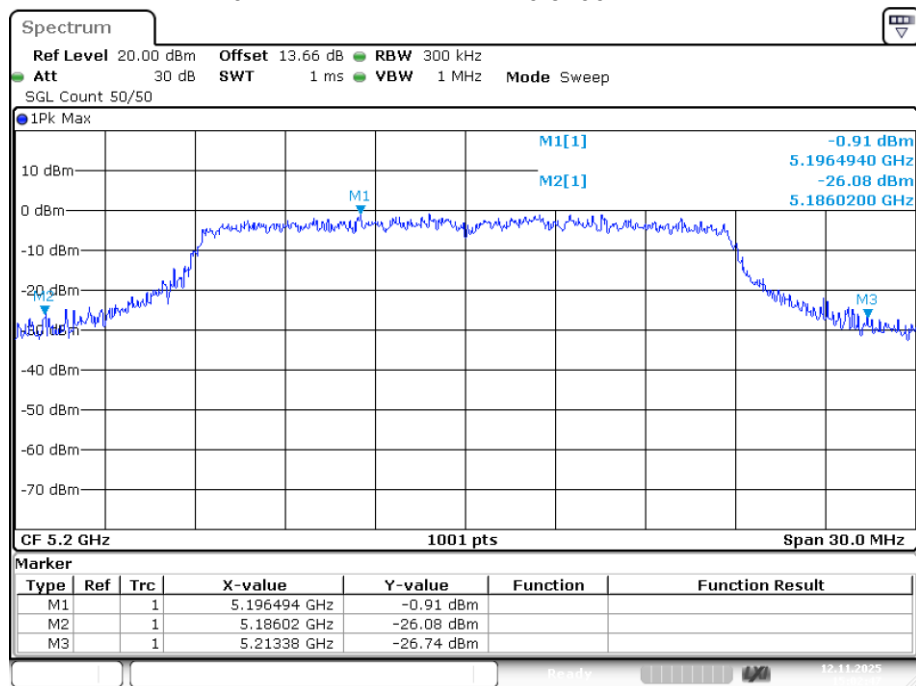
### -26dB Bandwidth NVNT ax40 5230MHz Ant1



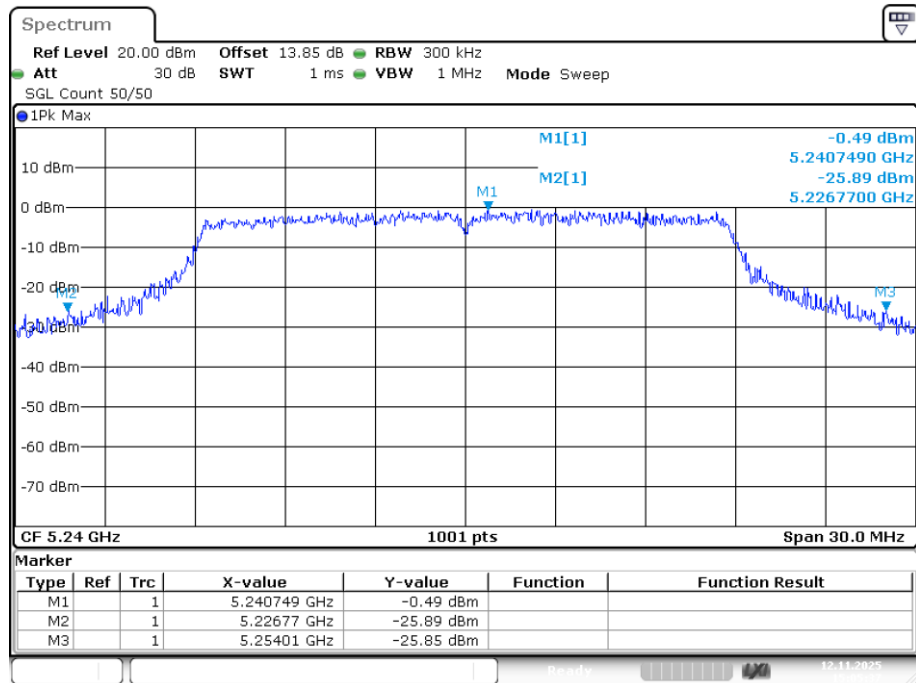
### -26dB Bandwidth NVNT n20 5180MHz Ant1



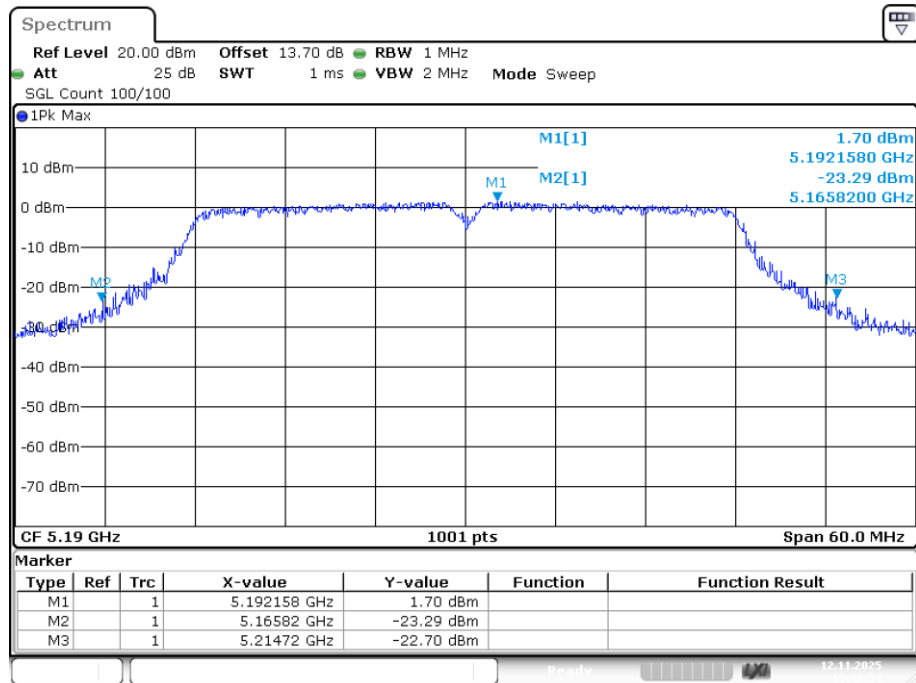
### -26dB Bandwidth NVNT n20 5200MHz Ant1



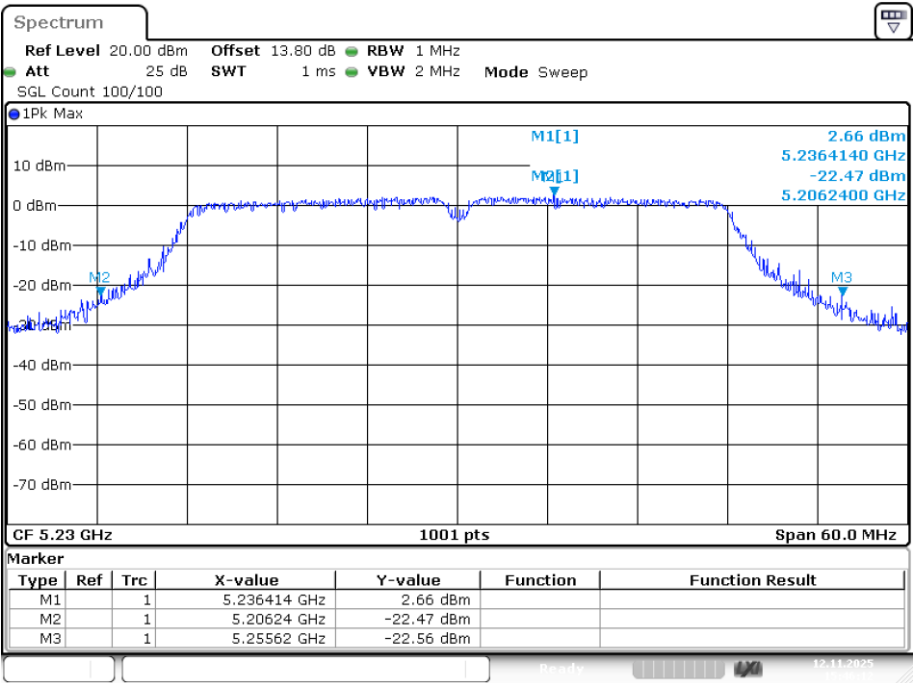
### -26dB Bandwidth NVNT n20 5240MHz Ant1



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



### -26dB Bandwidth NVNT n40 5230MHz Ant1



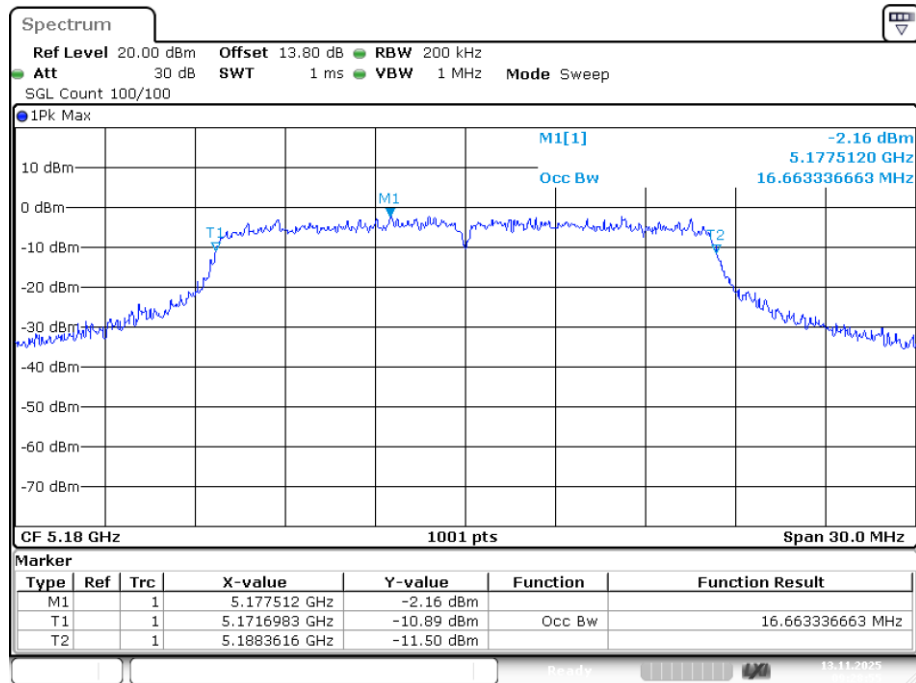
Date: 12.NOV.2025 15:46:11

Note: offset=cable factor

**Occupied Channel Bandwidth**

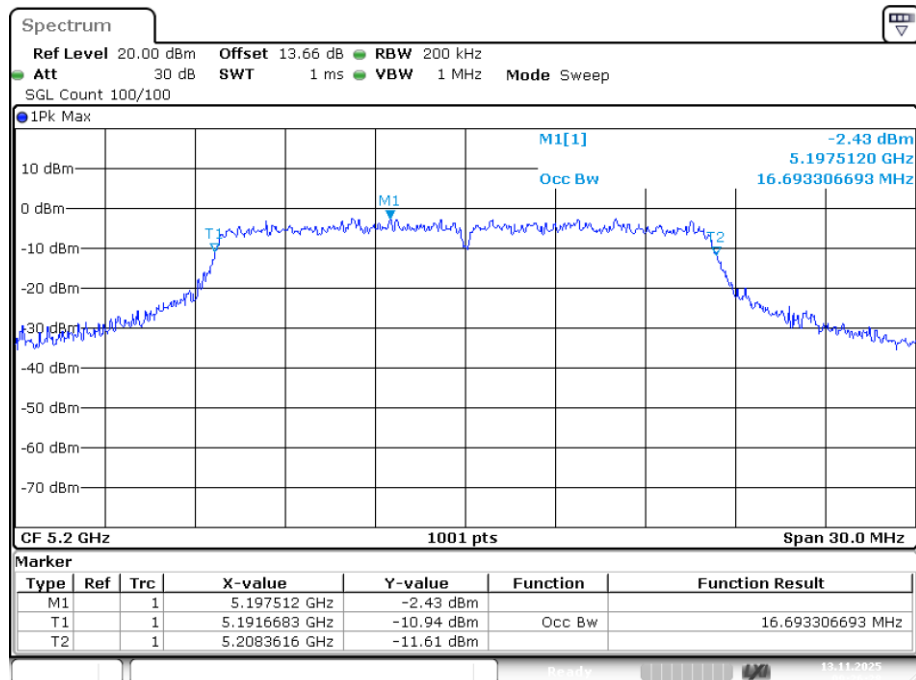
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5180            | Ant1    | 16.663        |
| NVNT      | a    | 5200            | Ant1    | 16.693        |
| NVNT      | a    | 5240            | Ant1    | 16.663        |
| NVNT      | ac20 | 5180            | Ant1    | 17.892        |
| NVNT      | ac20 | 5200            | Ant1    | 17.922        |
| NVNT      | ac20 | 5240            | Ant1    | 17.892        |
| NVNT      | ac40 | 5190            | Ant1    | 36.803        |
| NVNT      | ac40 | 5230            | Ant1    | 36.803        |
| NVNT      | ax20 | 5180            | Ant1    | 19.091        |
| NVNT      | ax20 | 5200            | Ant1    | 19.031        |
| NVNT      | ax20 | 5240            | Ant1    | 19.031        |
| NVNT      | ax40 | 5190            | Ant1    | 38.002        |
| NVNT      | ax40 | 5230            | Ant1    | 38.122        |
| NVNT      | n20  | 5180            | Ant1    | 17.862        |
| NVNT      | n20  | 5200            | Ant1    | 17.862        |
| NVNT      | n20  | 5240            | Ant1    | 17.892        |
| NVNT      | n40  | 5190            | Ant1    | 36.683        |
| NVNT      | n40  | 5230            | Ant1    | 37.163        |

## OBW NVNT a 5180MHz Ant1



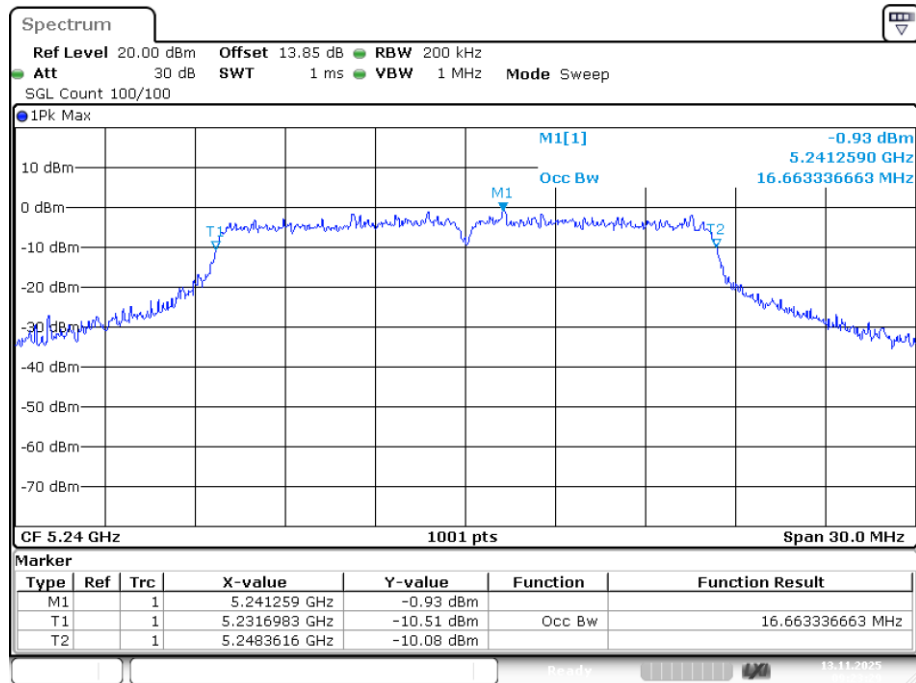
Date: 13.NOV.2025 09:28:54

## OBW NVNT a 5200MHz Ant1

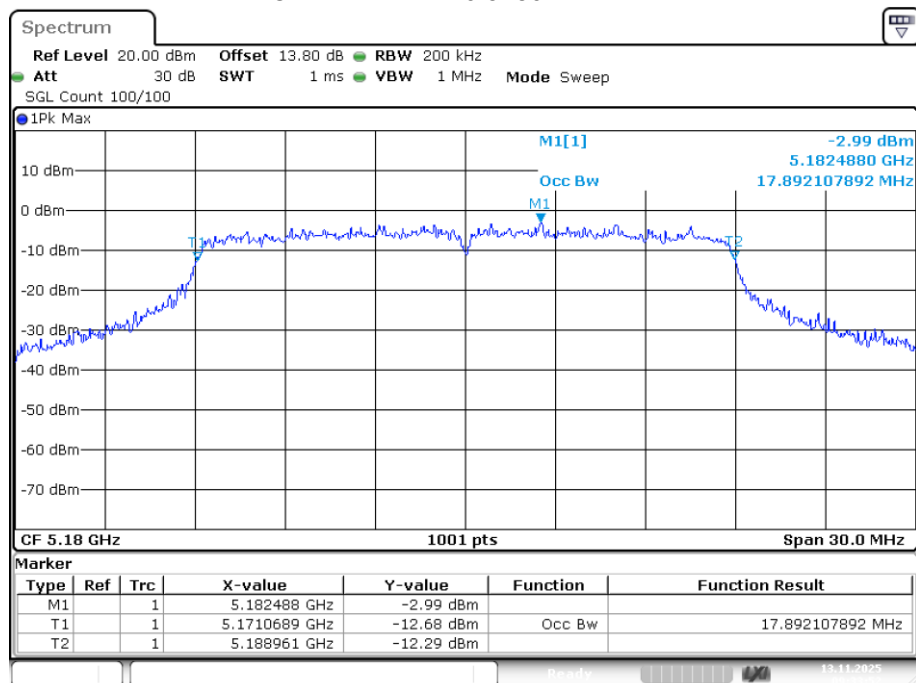


Date: 13.NOV.2025 09:26:28

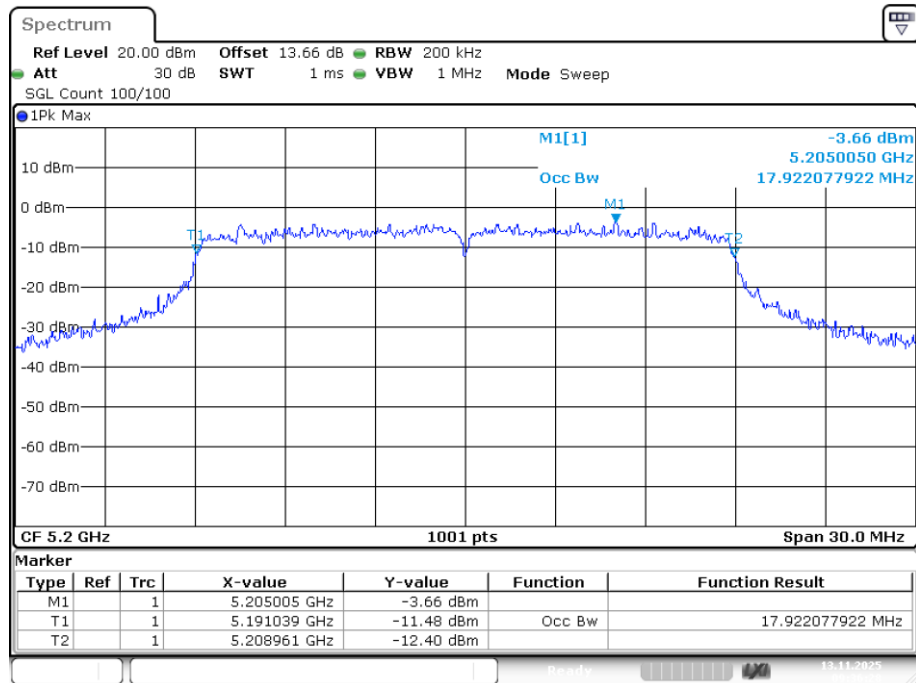
## OBW NVNT a 5240MHz Ant1



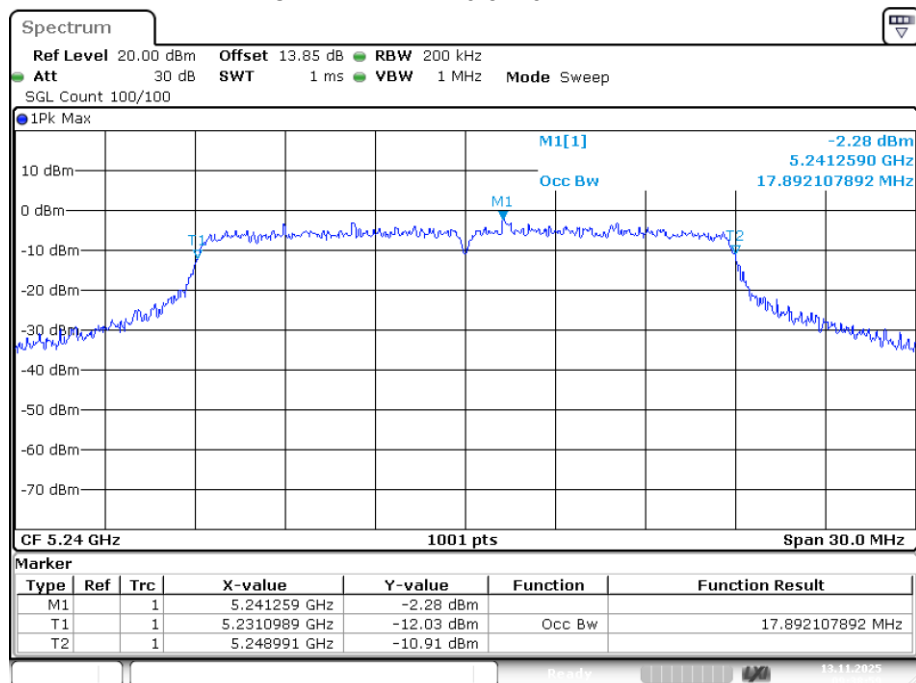
OBW NVNT ac20 5180MHz Ant1



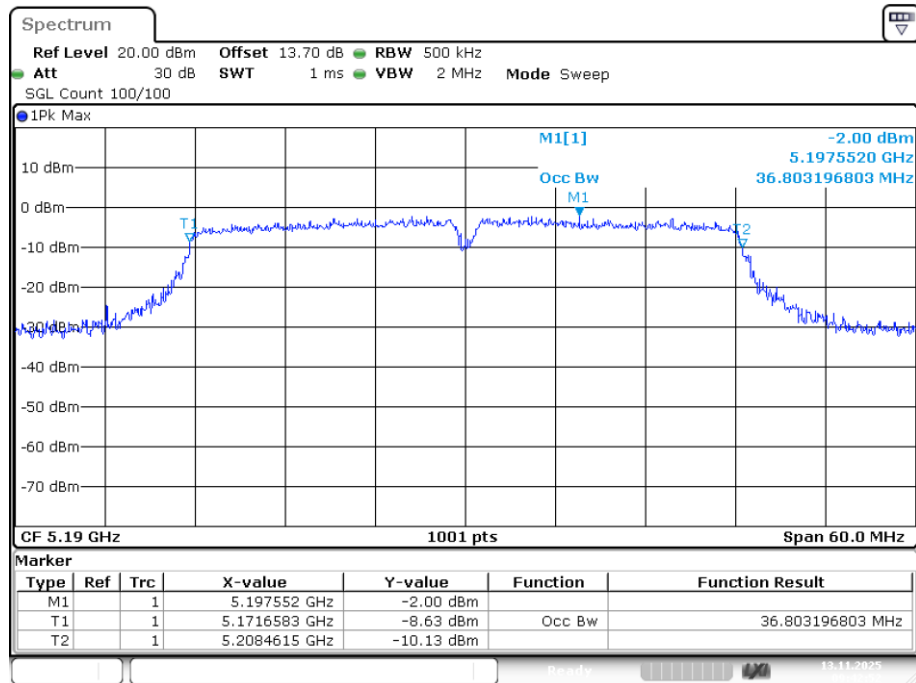
OBW NVNT ac20 5200MHz Ant1



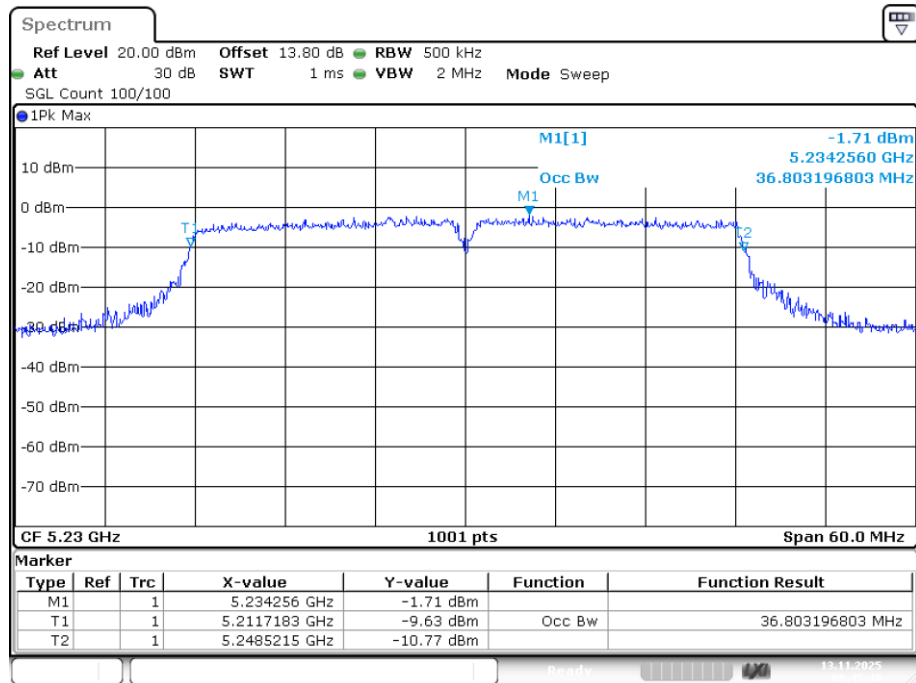
OBW NVNT ac20 5240MHz Ant1



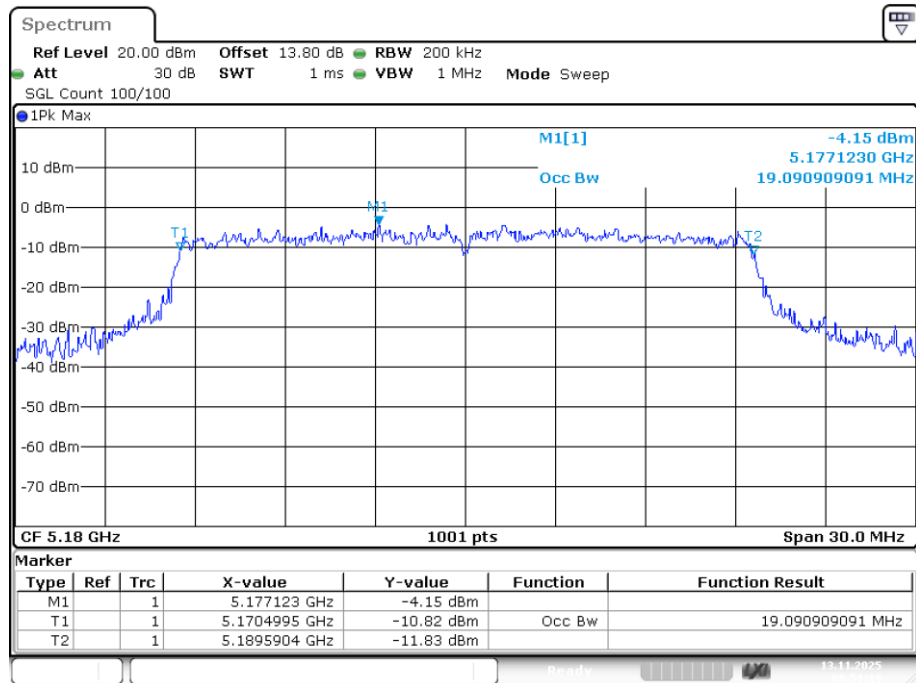
OBW NVNT ac40 5190MHz Ant1



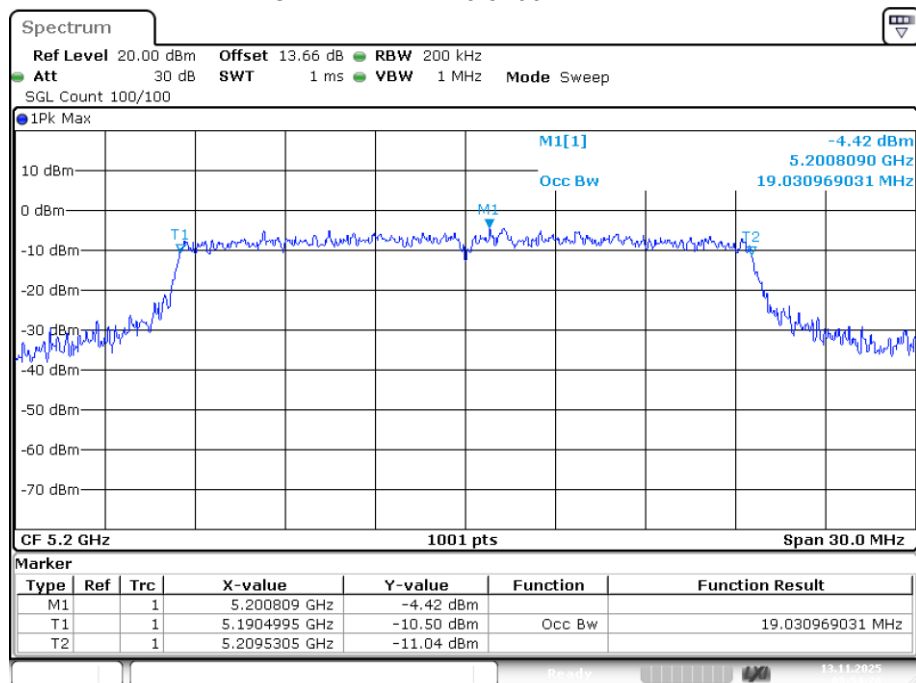
OBW NVNT ac40 5230MHz Ant1



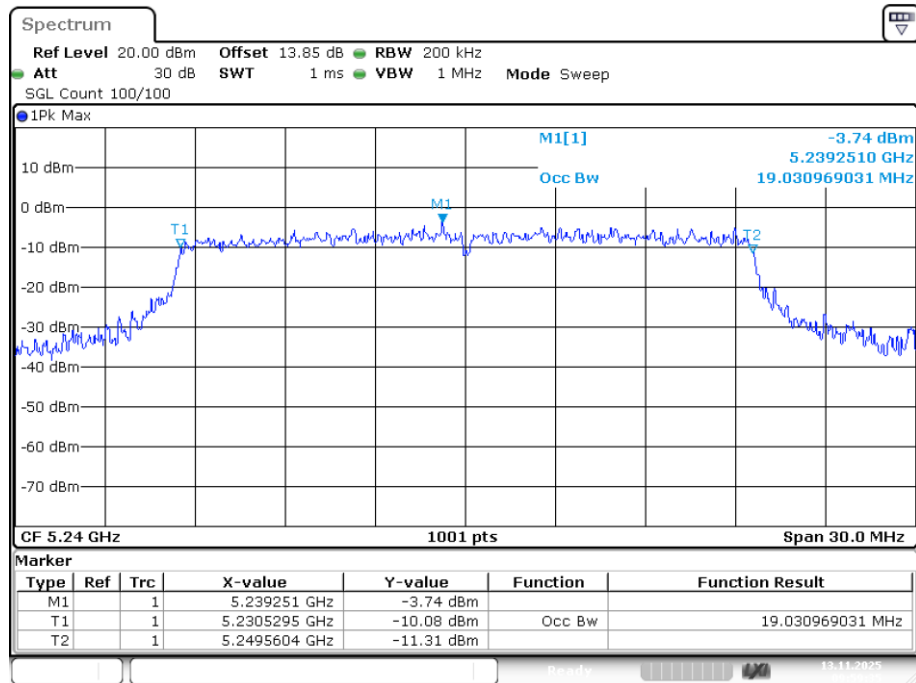
OBW NVNT ax20 5180MHz Ant1



OBW NVNT ax20 5200MHz Ant1

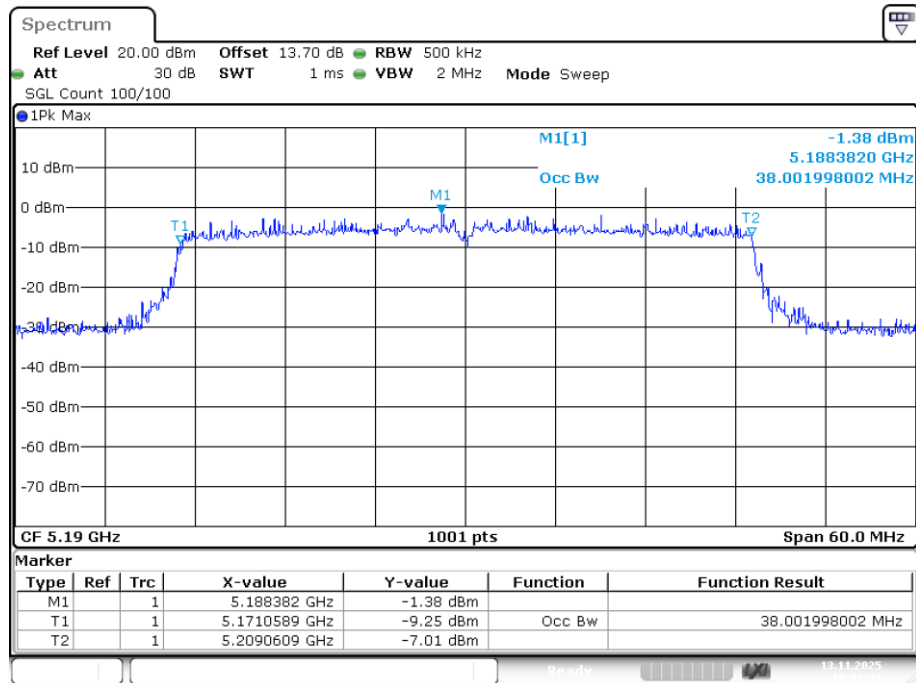


OBW NVNT ax20 5240MHz Ant1



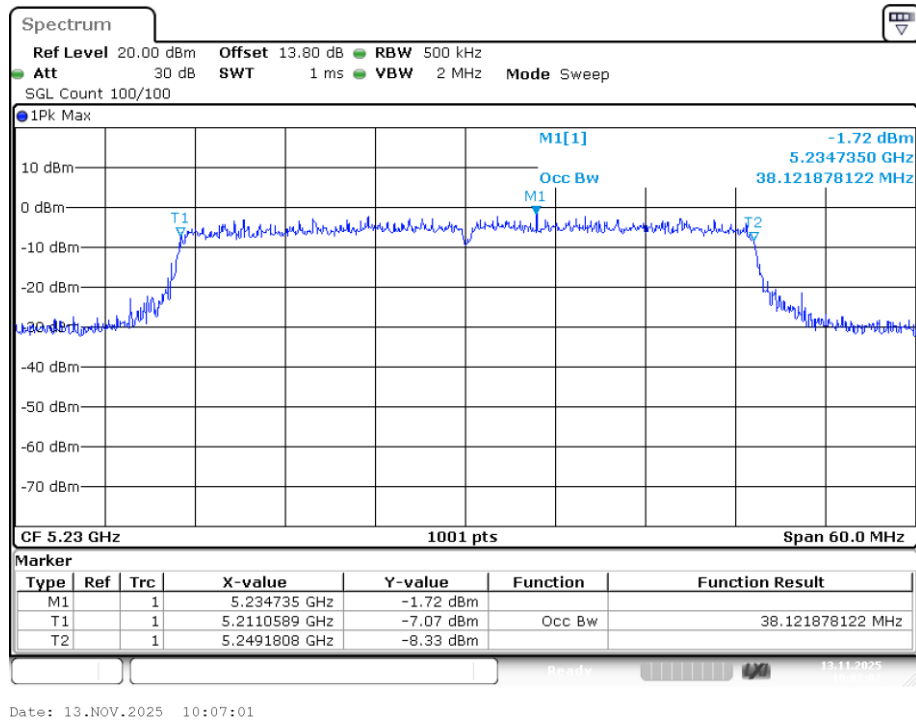
Date: 13.NOV.2025 09:59:35

## OBW NVNT ax40 5190MHz Ant1

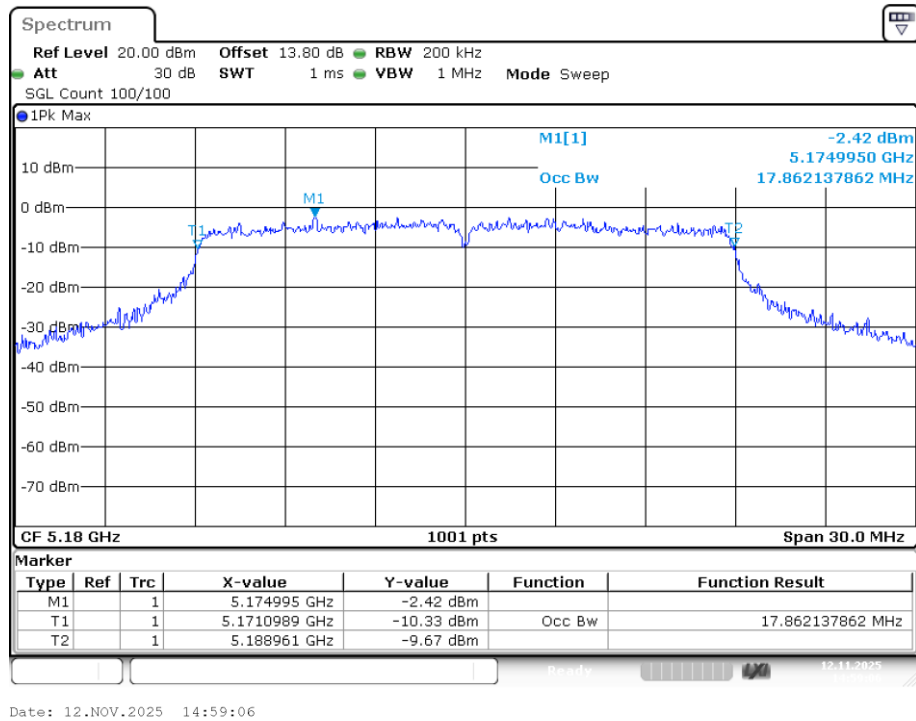


Date: 13.NOV.2025 10:03:39

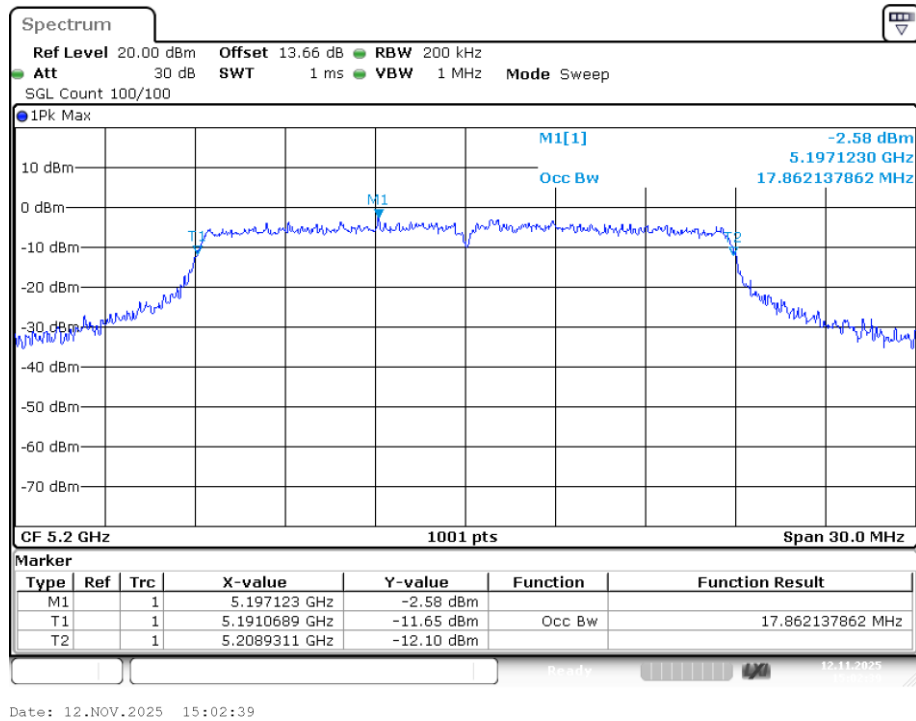
## OBW NVNT ax40 5230MHz Ant1



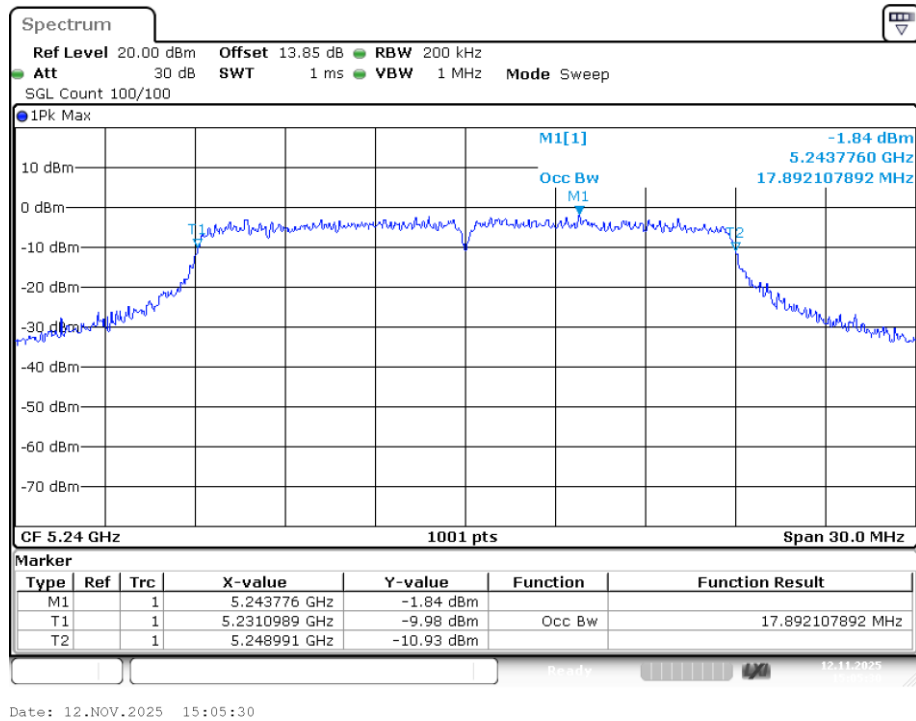
## OBW NVNT n20 5180MHz Ant1



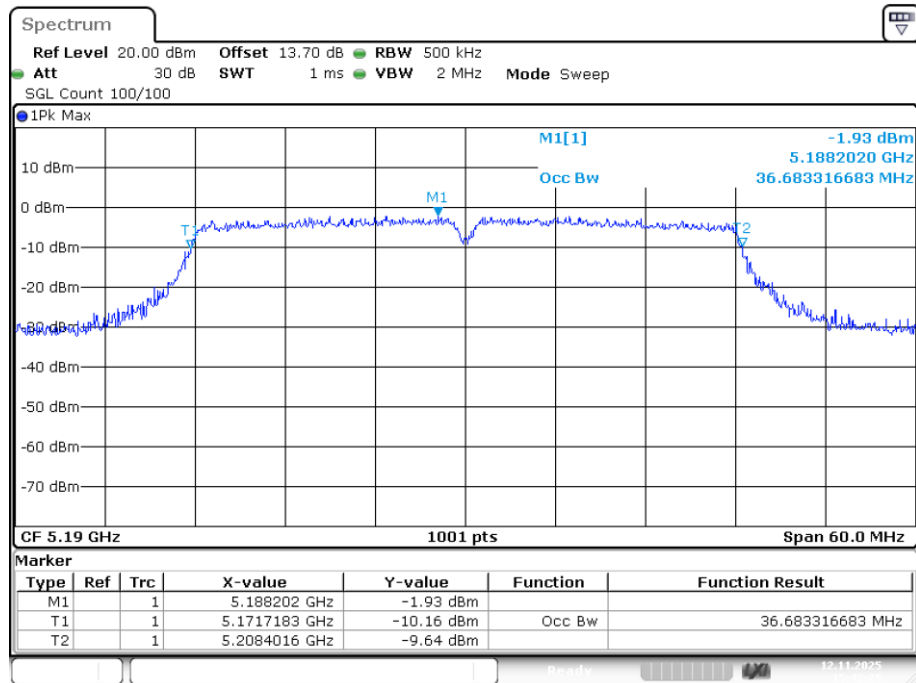
## OBW NVNT n20 5200MHz Ant1



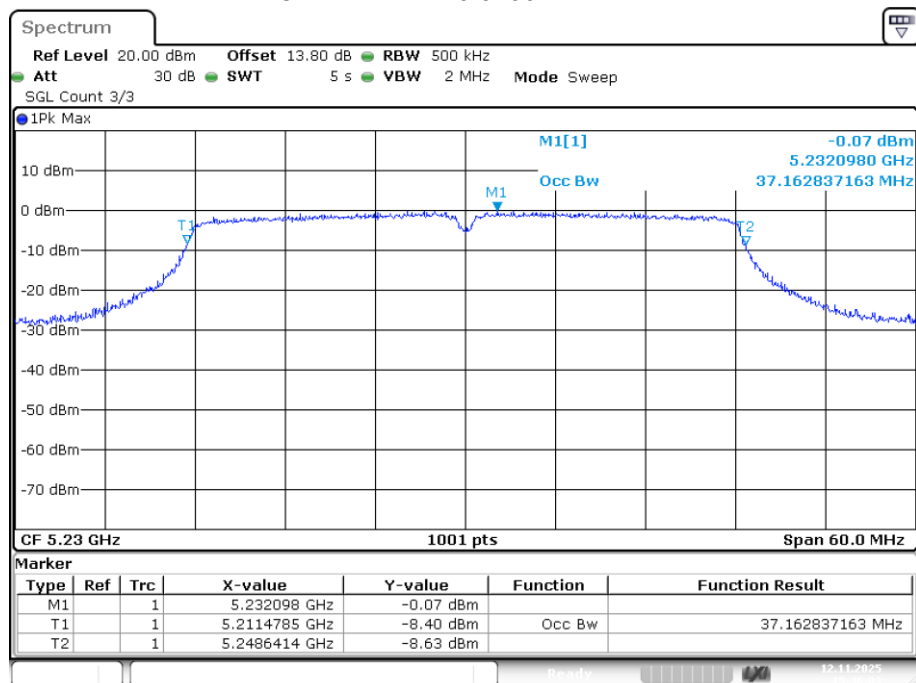
## OBW NVNT n20 5240MHz Ant1



## OBW NVNT n40 5190MHz Ant1



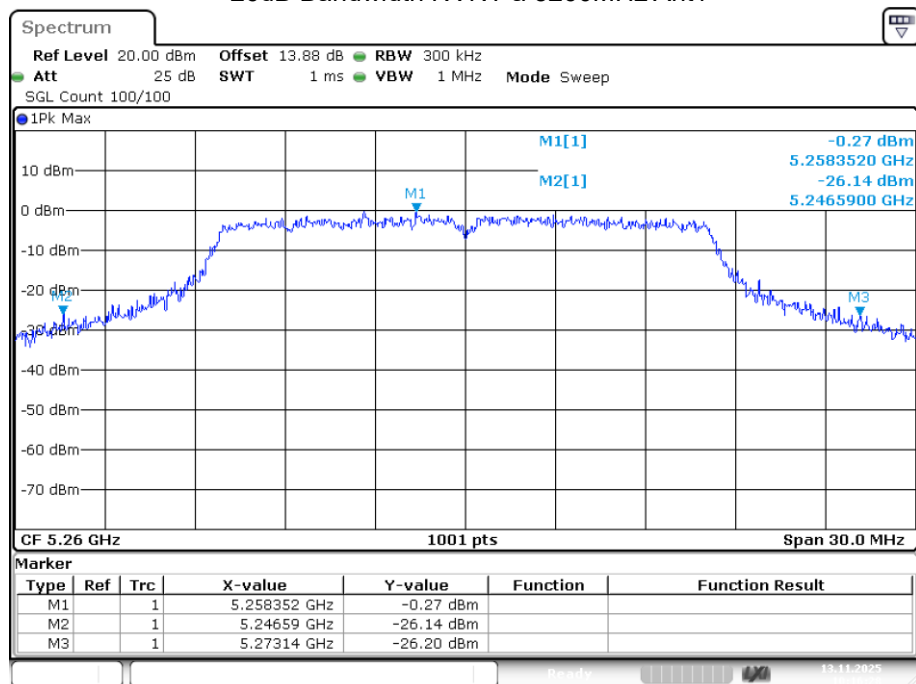
## OBW NVNT n40 5230MHz Ant1



Note: offset=cable factor

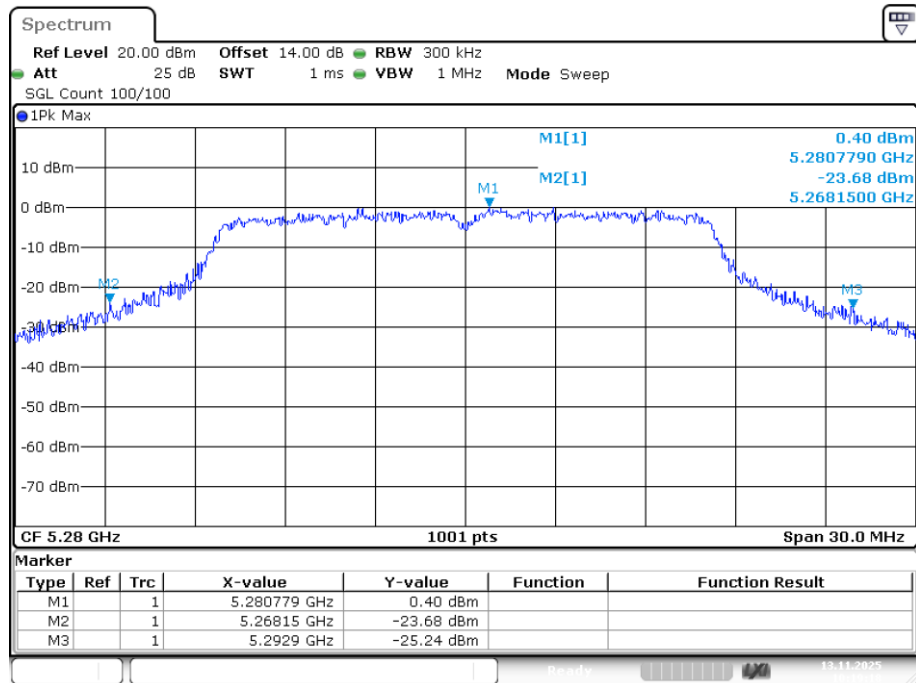
**Band 2 (5250-5350 MHz):****-26dB Bandwidth**

| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) |
|-----------|------|-----------------|---------|------------------------|
| NVNT      | a    | 5260            | Ant1    | 26.55                  |
| NVNT      | a    | 5280            | Ant1    | 24.75                  |
| NVNT      | a    | 5320            | Ant1    | 25.11                  |
| NVNT      | ac20 | 5260            | Ant1    | 27.27                  |
| NVNT      | ac20 | 5280            | Ant1    | 26.7                   |
| NVNT      | ac20 | 5320            | Ant1    | 25.86                  |
| NVNT      | ac40 | 5270            | Ant1    | 48.24                  |
| NVNT      | ac40 | 5310            | Ant1    | 49.8                   |
| NVNT      | ax20 | 5260            | Ant1    | 27.45                  |
| NVNT      | ax20 | 5280            | Ant1    | 27.72                  |
| NVNT      | ax20 | 5320            | Ant1    | 27.99                  |
| NVNT      | ax40 | 5270            | Ant1    | 52.92                  |
| NVNT      | ax40 | 5310            | Ant1    | 48.18                  |
| NVNT      | n20  | 5260            | Ant1    | 26.85                  |
| NVNT      | n20  | 5280            | Ant1    | 27.45                  |
| NVNT      | n20  | 5320            | Ant1    | 27.93                  |
| NVNT      | n40  | 5270            | Ant1    | 49.14                  |
| NVNT      | n40  | 5310            | Ant1    | 48.3                   |

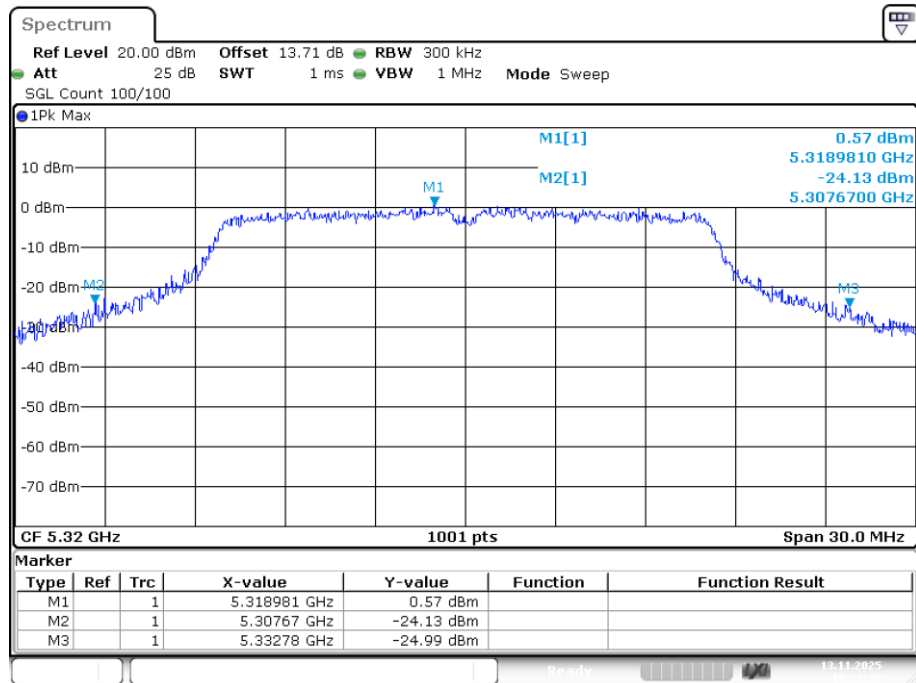
**-26dB Bandwidth NVNT a 5260MHz Ant1**

Date: 13.NOV.2025 10:16:28

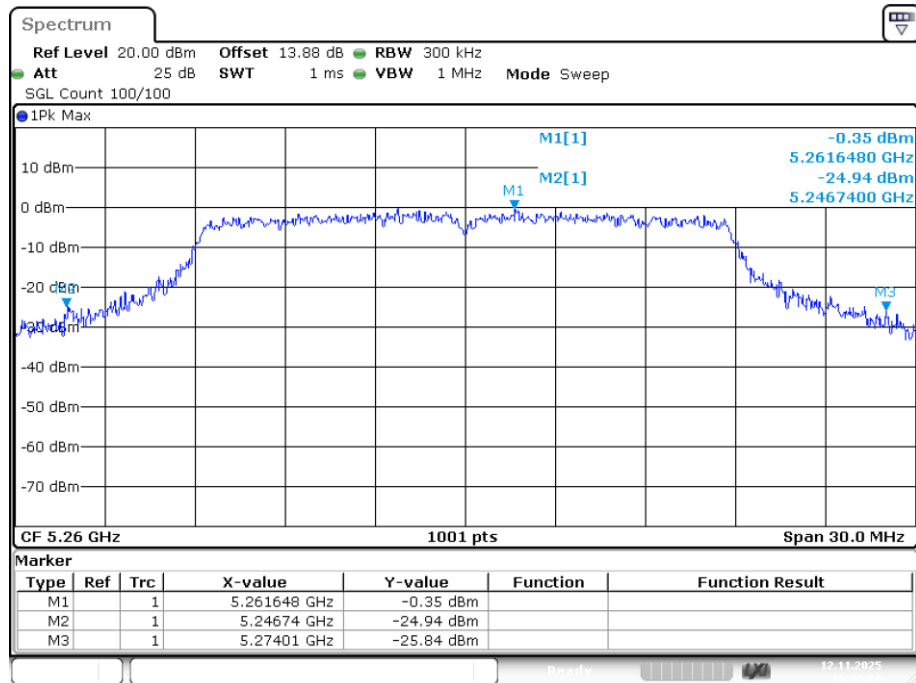
**-26dB Bandwidth NVNT a 5280MHz Ant1**



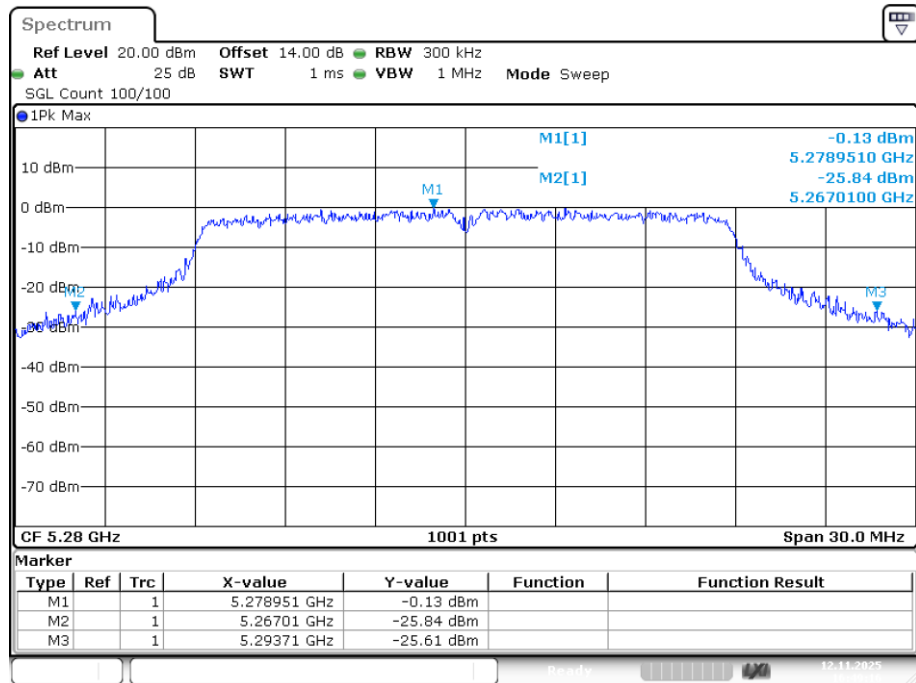
### -26dB Bandwidth NVNT a 5320MHz Ant1



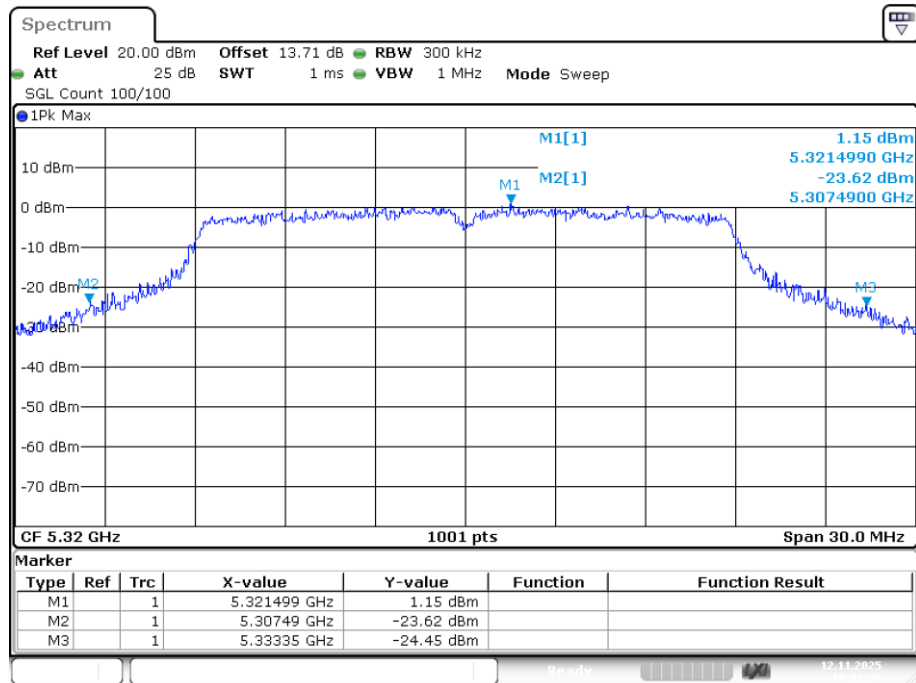
### -26dB Bandwidth NVNT ac20 5260MHz Ant1



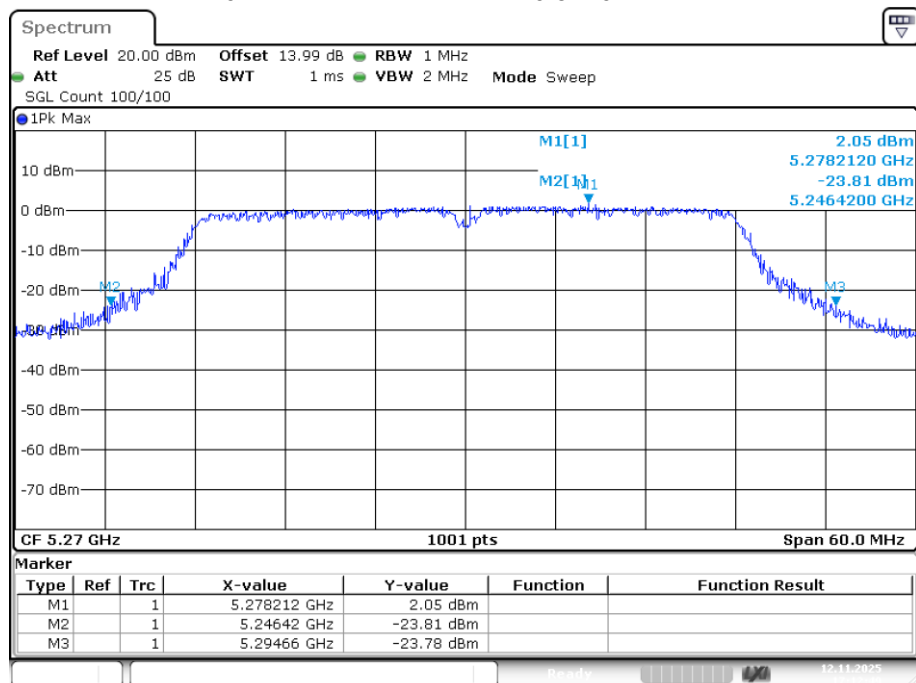
### -26dB Bandwidth NVNT ac20 5280MHz Ant1



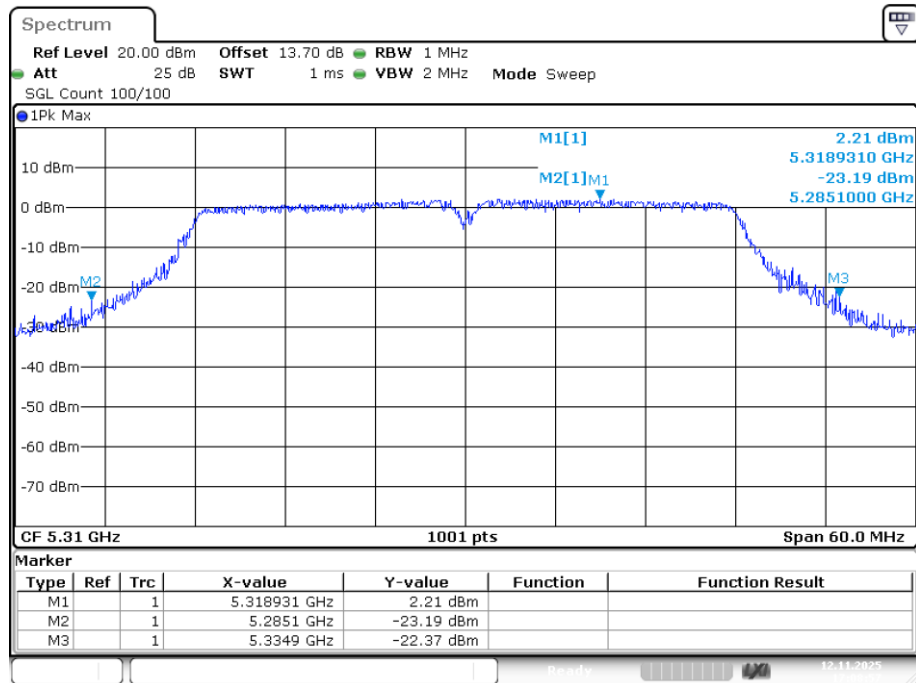
### -26dB Bandwidth NVNT ac20 5320MHz Ant1



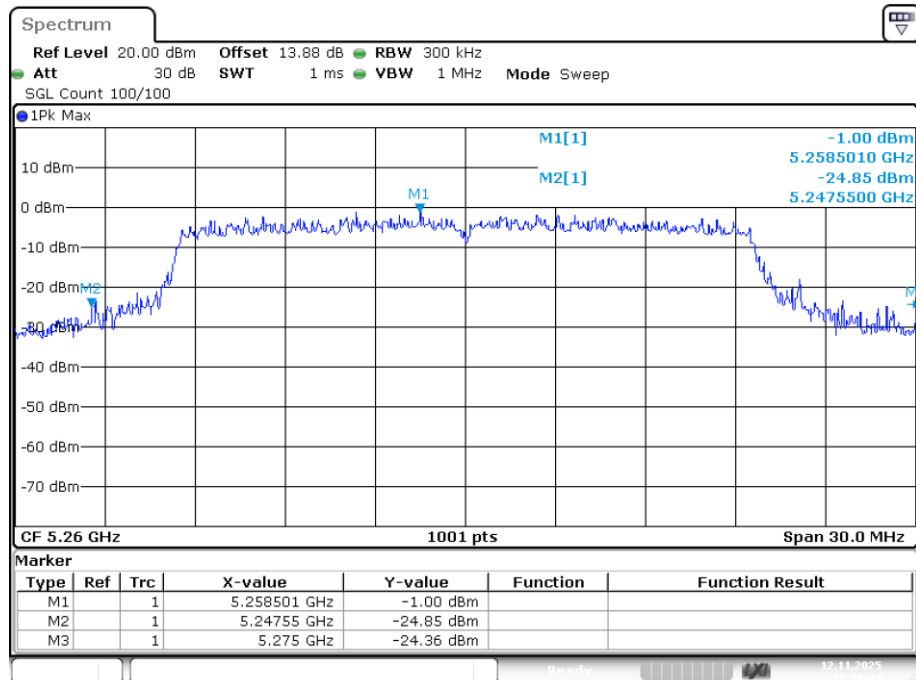
### -26dB Bandwidth NVNT ac40 5270MHz Ant1



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

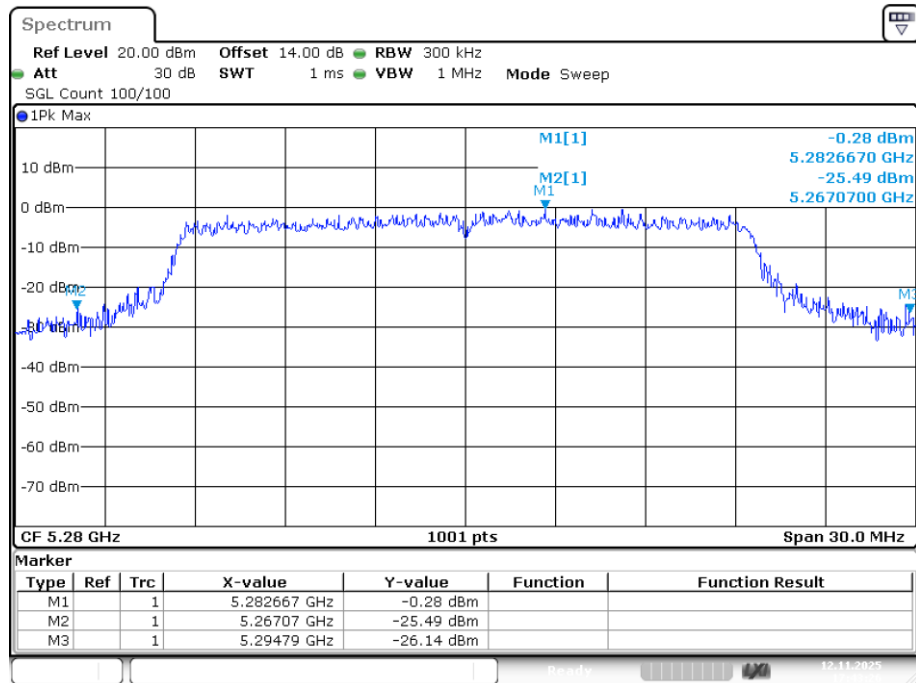


Date: 12.NOV.2025 17:08:57

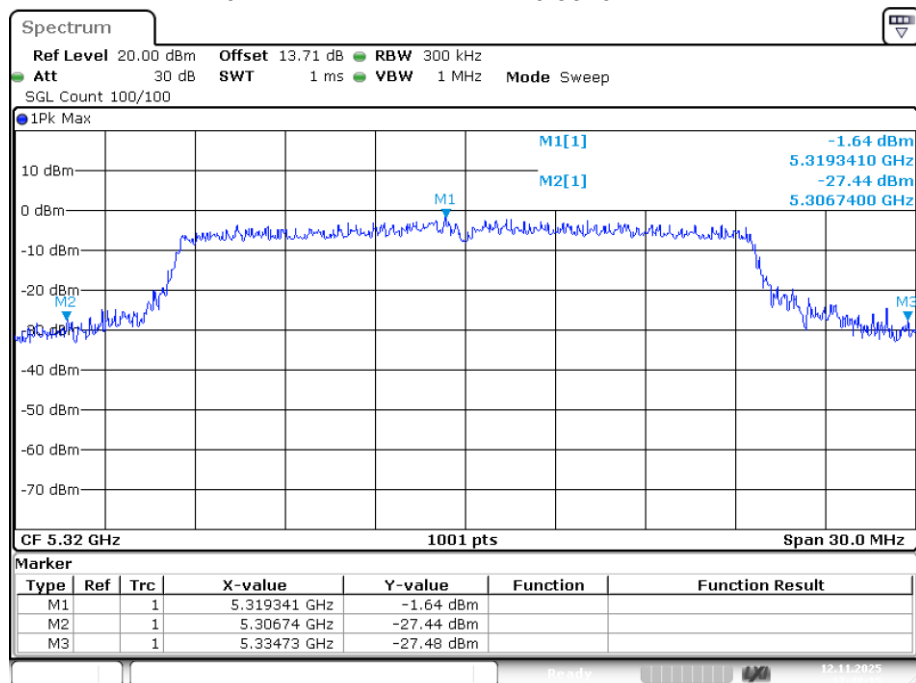
**-26dB Bandwidth NVNT ax20 5260MHz Ant1**

Date: 12.NOV.2025 17:30:44

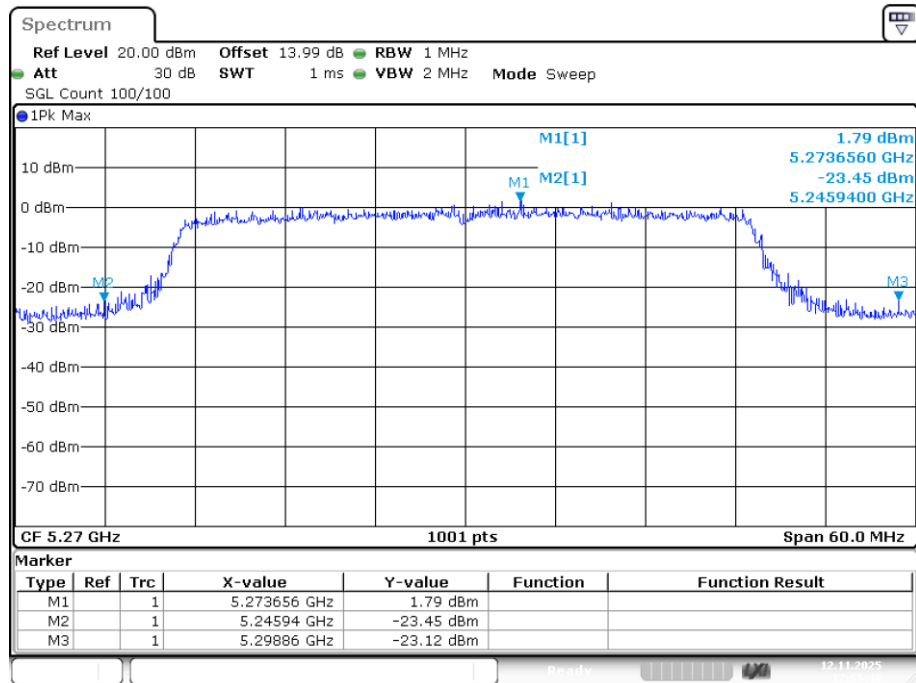
**-26dB Bandwidth NVNT ax20 5280MHz Ant1**



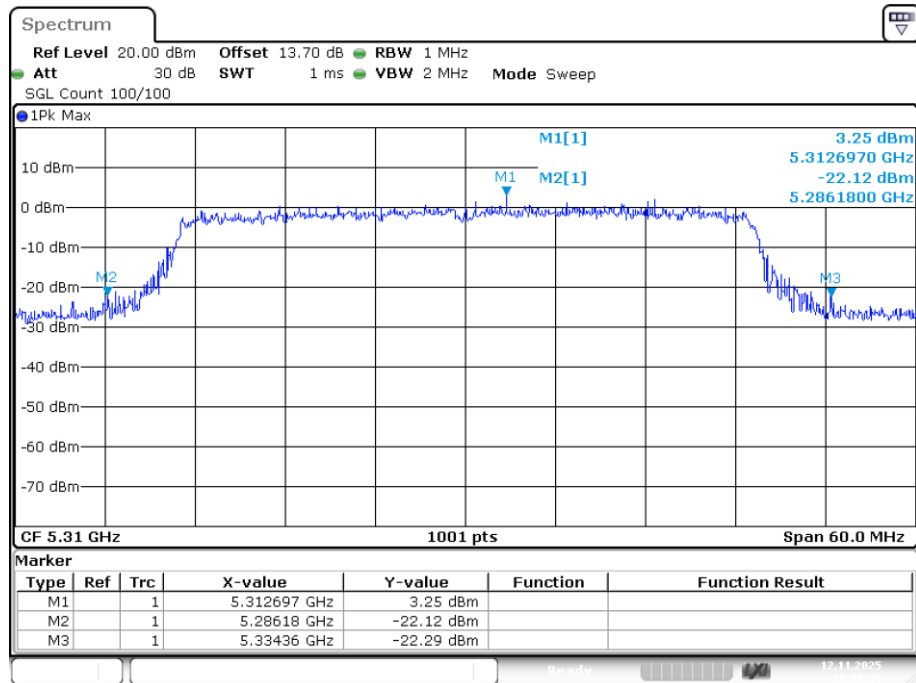
-26dB Bandwidth NVNT ax20 5320MHz Ant1



-26dB Bandwidth NVNT ax40 5270MHz Ant1

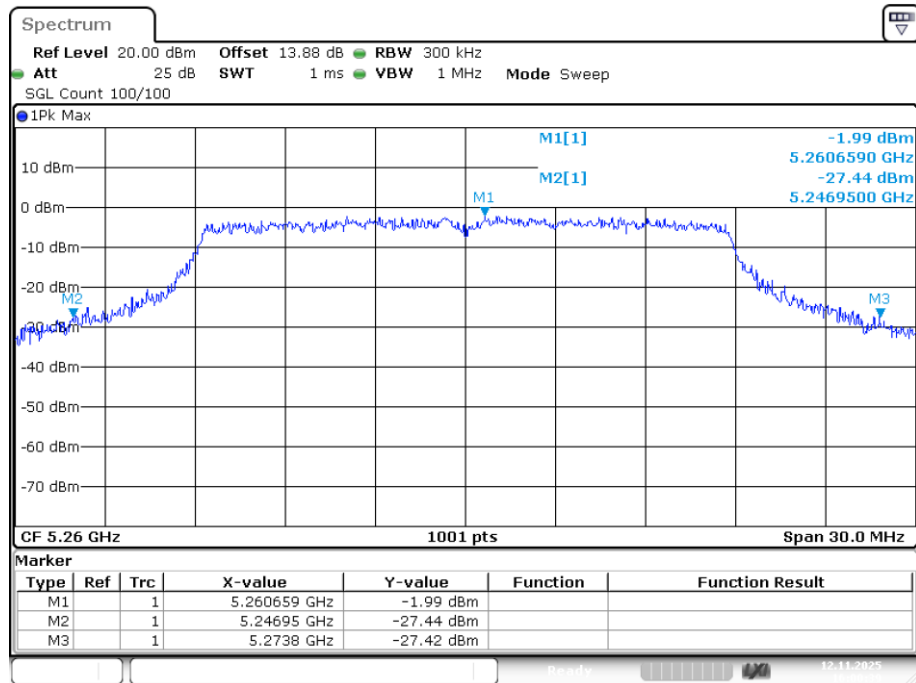


Date: 12.NOV.2025 17:55:48

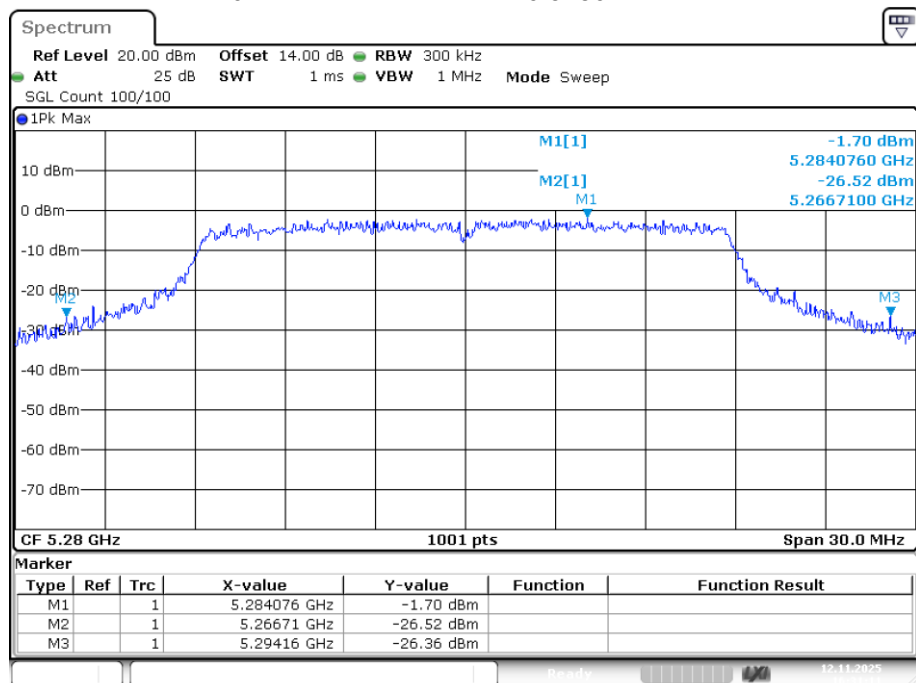
**-26dB Bandwidth NVNT ax40 5310MHz Ant1**

Date: 12.NOV.2025 18:00:39

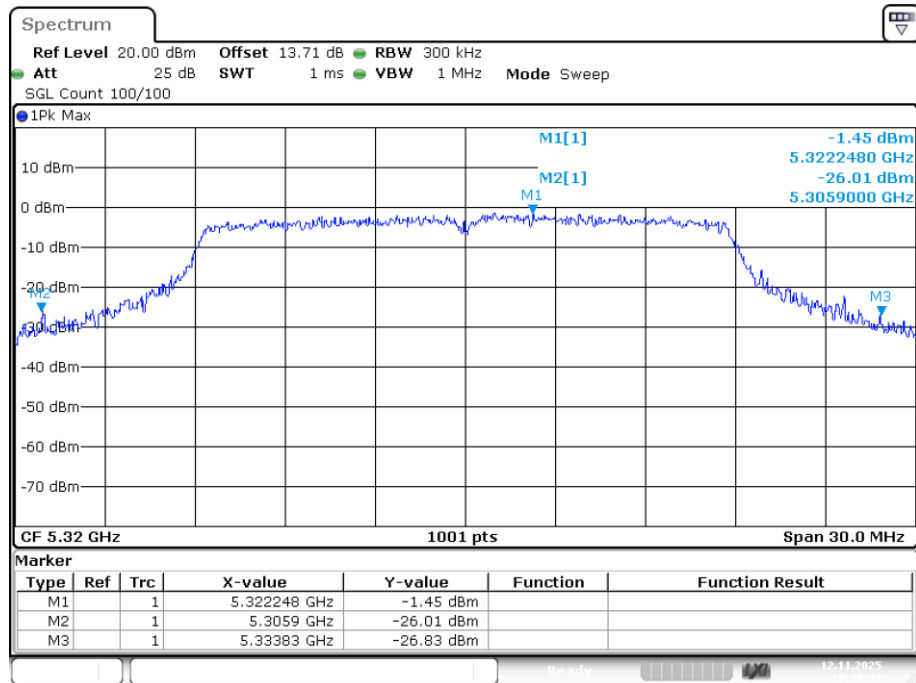
**-26dB Bandwidth NVNT n20 5260MHz Ant1**



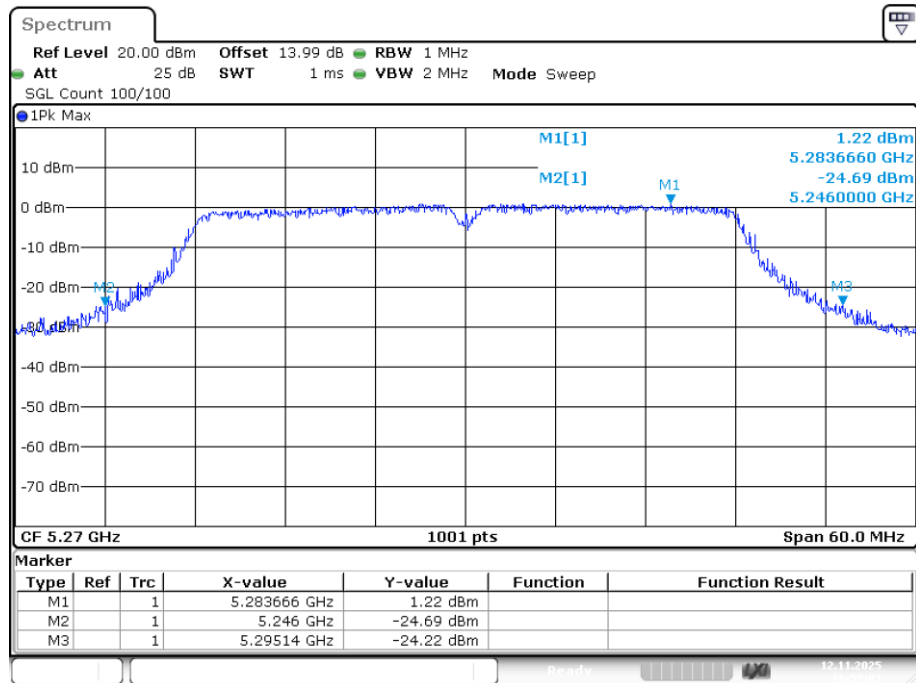
### -26dB Bandwidth NVNT n20 5280MHz Ant1



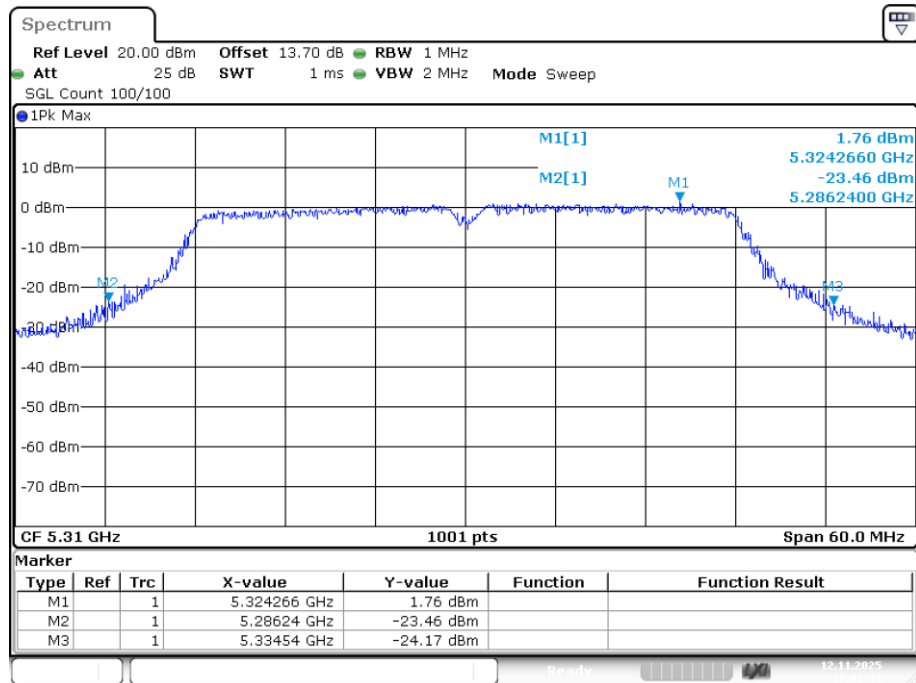
### -26dB Bandwidth NVNT n20 5320MHz Ant1



### -26dB Bandwidth NVNT n40 5270MHz Ant1



### -26dB Bandwidth NVNT n40 5310MHz Ant1

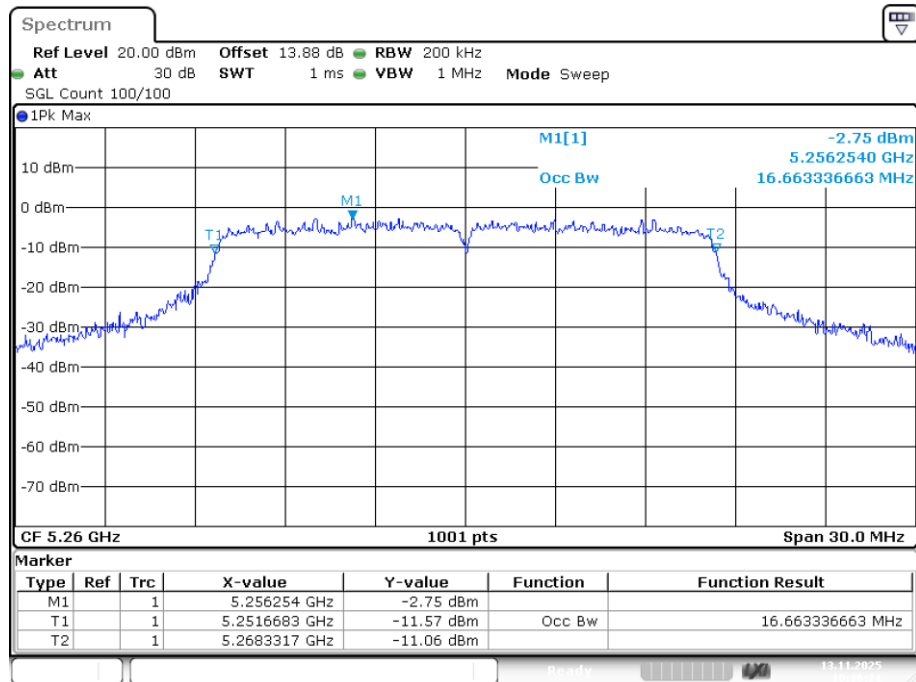


Note: offset=cable factor

### Occupied Channel Bandwidth

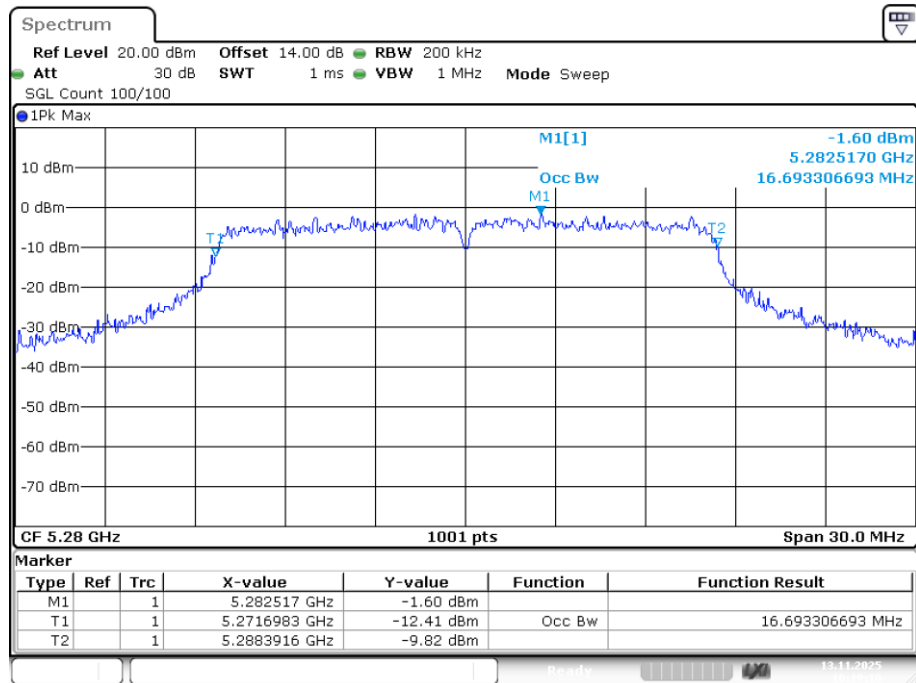
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5260            | Ant1    | 16.663        |
| NVNT      | a    | 5280            | Ant1    | 16.693        |
| NVNT      | a    | 5320            | Ant1    | 16.663        |
| NVNT      | ac20 | 5260            | Ant1    | 17.922        |
| NVNT      | ac20 | 5280            | Ant1    | 17.922        |
| NVNT      | ac20 | 5320            | Ant1    | 17.892        |
| NVNT      | ac40 | 5270            | Ant1    | 36.923        |
| NVNT      | ac40 | 5310            | Ant1    | 36.743        |
| NVNT      | ax20 | 5260            | Ant1    | 19.061        |
| NVNT      | ax20 | 5280            | Ant1    | 18.971        |
| NVNT      | ax20 | 5320            | Ant1    | 19.061        |
| NVNT      | ax40 | 5270            | Ant1    | 38.182        |
| NVNT      | ax40 | 5310            | Ant1    | 38.182        |
| NVNT      | n20  | 5260            | Ant1    | 17.922        |
| NVNT      | n20  | 5280            | Ant1    | 17.892        |
| NVNT      | n20  | 5320            | Ant1    | 17.892        |
| NVNT      | n40  | 5270            | Ant1    | 36.803        |
| NVNT      | n40  | 5310            | Ant1    | 36.803        |

### OBW NVNT a 5260MHz Ant1

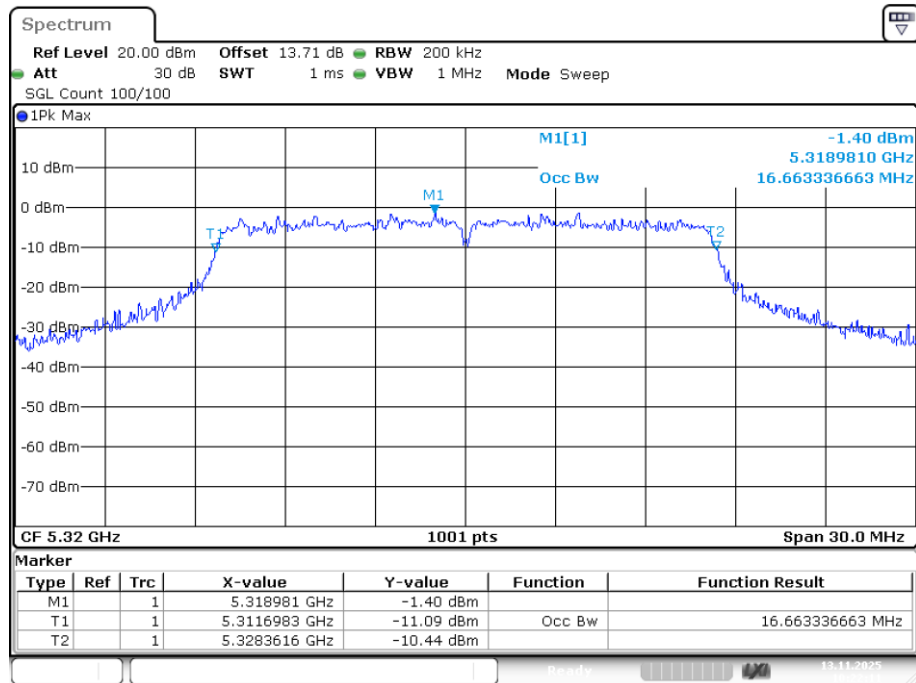


Date: 13.NOV.2025 10:16:20

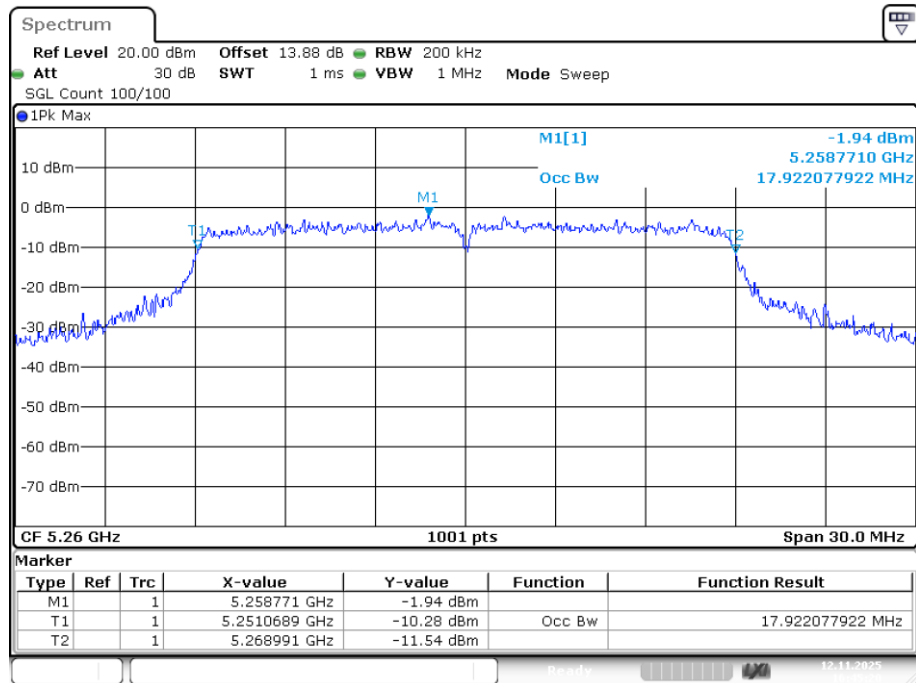
### OBW NVNT a 5280MHz Ant1



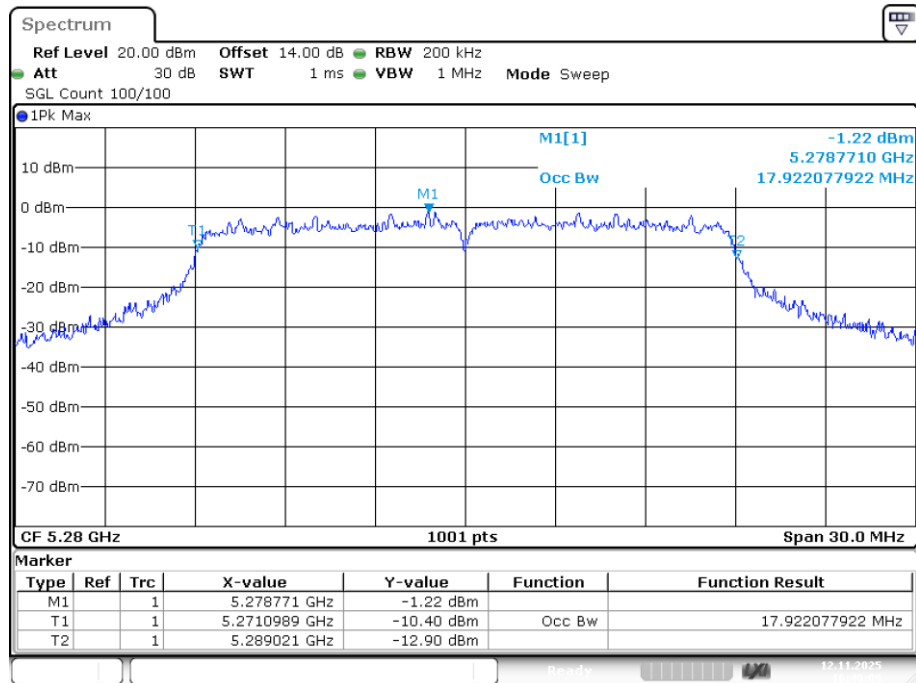
OBW NVNT a 5320MHz Ant1



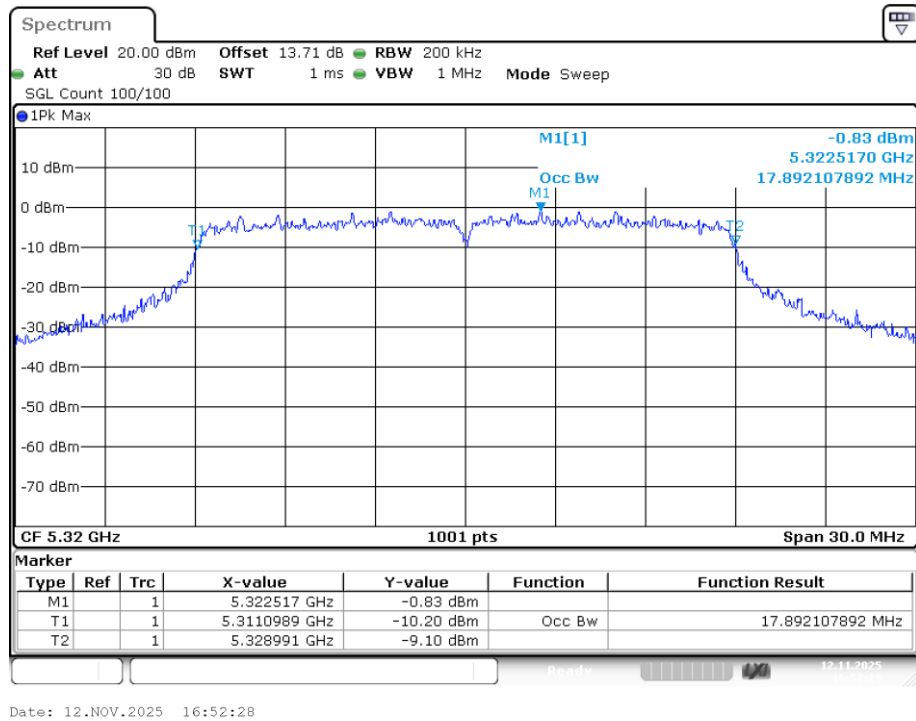
OBW NVNT ac20 5260MHz Ant1



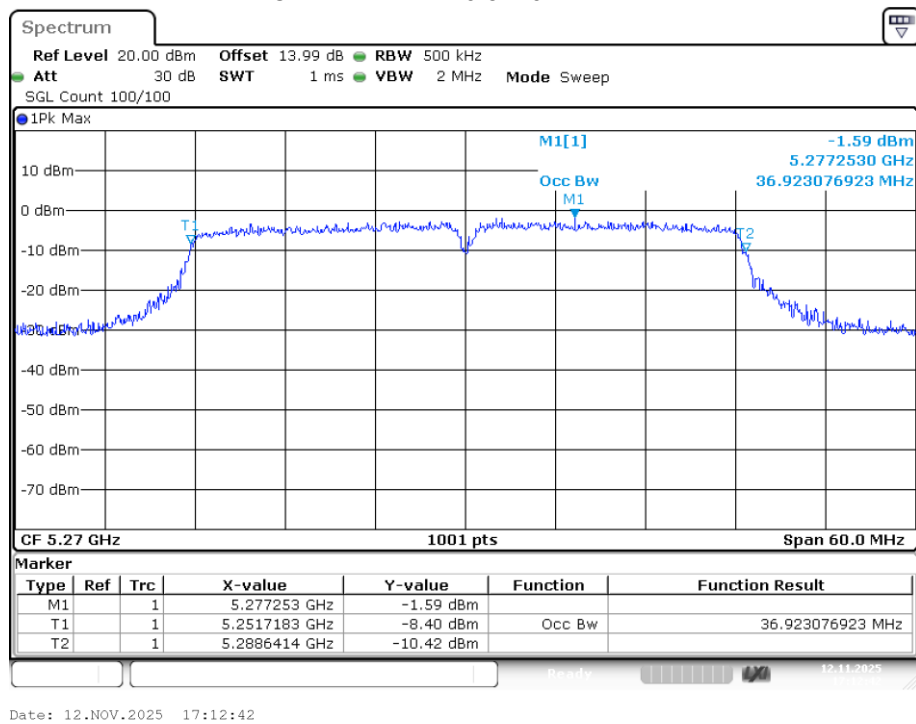
OBW NVNT ac20 5280MHz Ant1



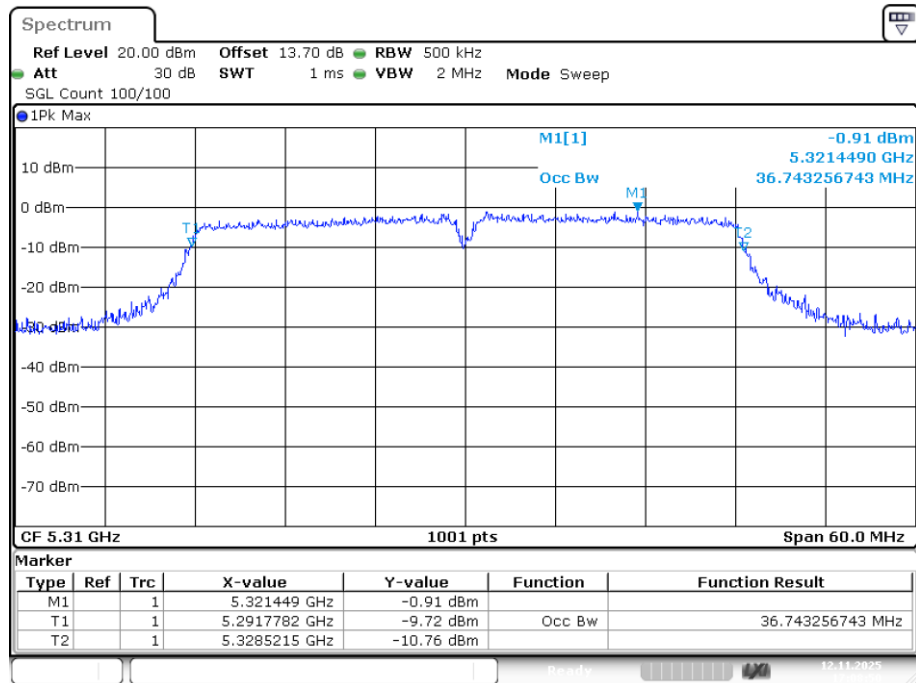
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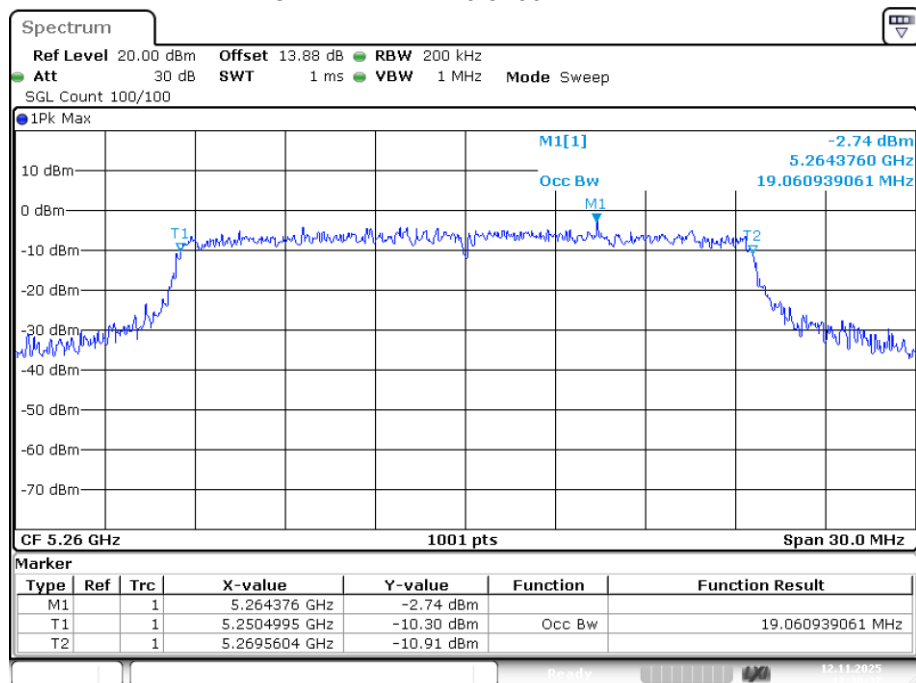
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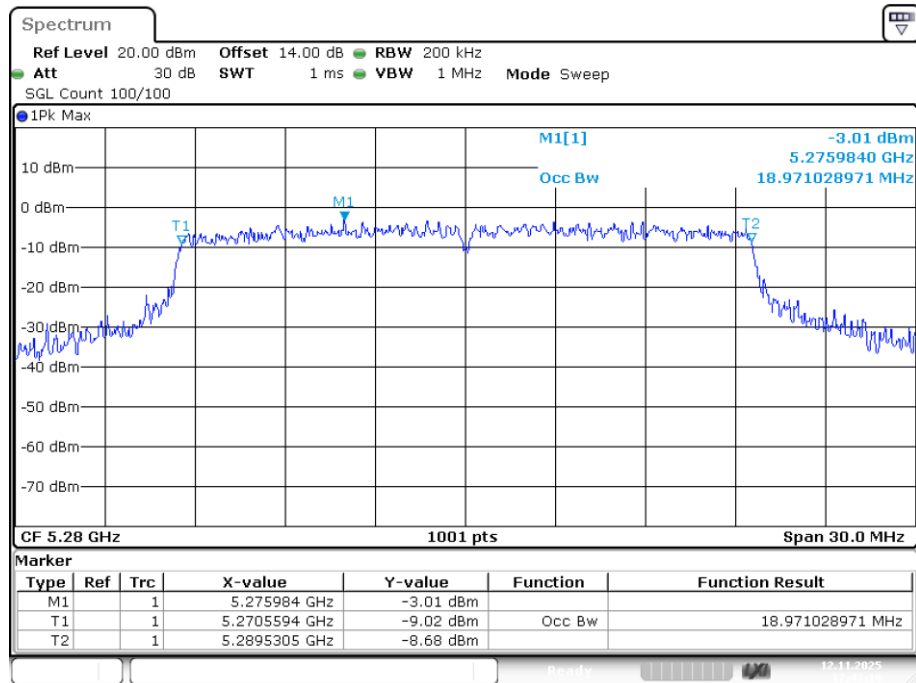
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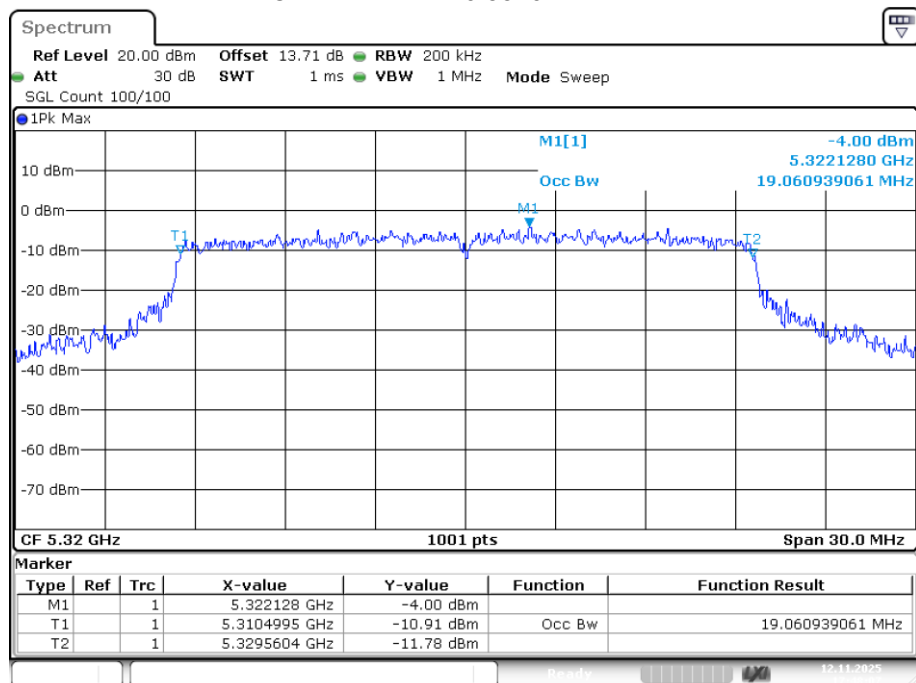
## OBW NVNT ax20 5260MHz Ant1



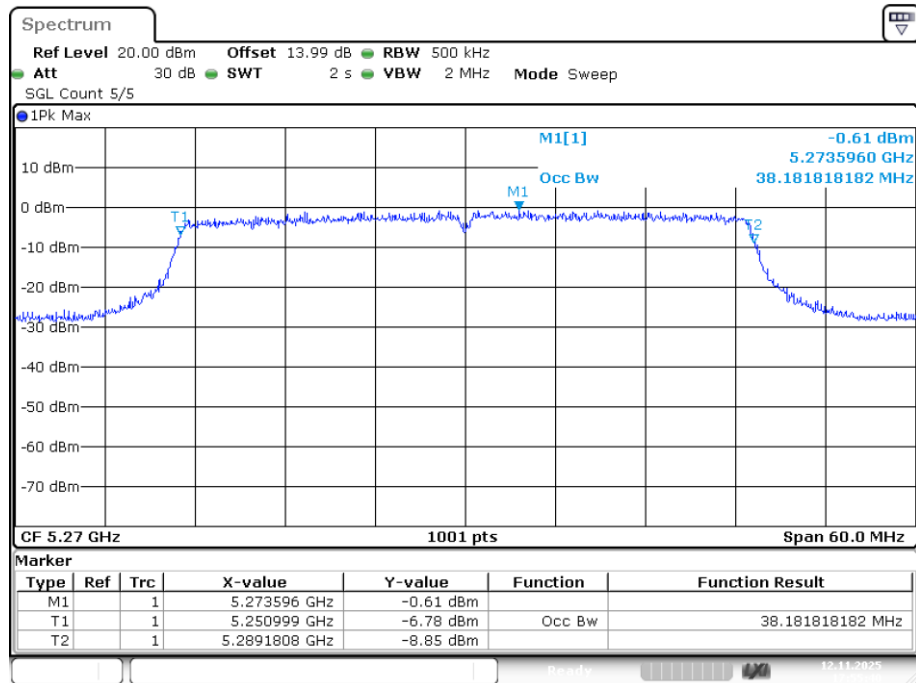
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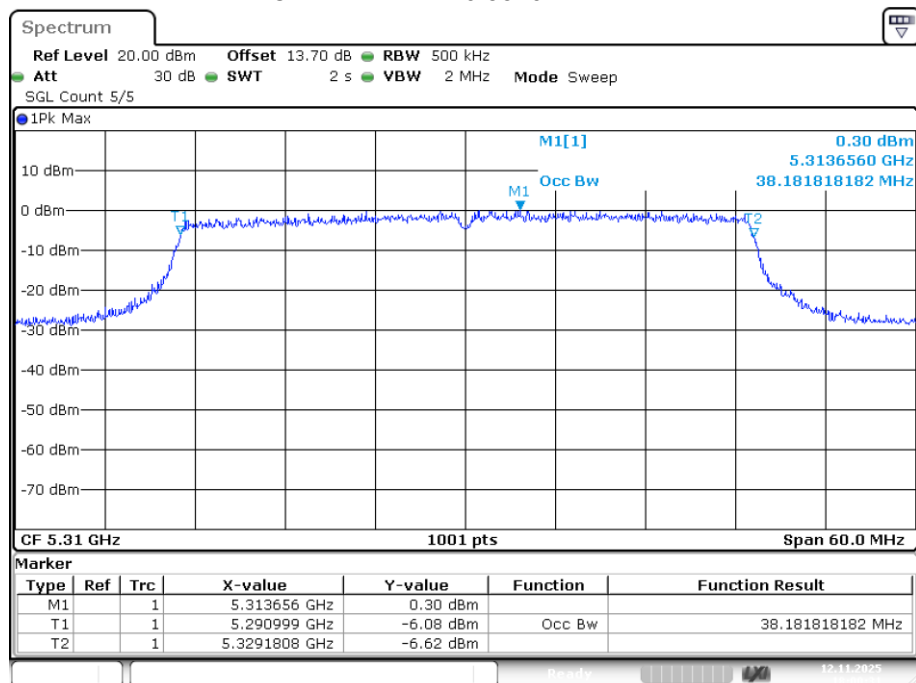
OBW NVNT ax20 5320MHz Ant1



OBW NVNT ax40 5270MHz Ant1



OBW NVNT ax40 5310MHz Ant1



OBW NVNT n20 5260MHz Ant1