



FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : Xiaomi
MODEL NAME : 2506BPN68G
FCC ID : 2AFZZPN68G
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : May 03, 2025 ~ Jun. 03, 2025

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Fly Liang

Approved by: Fly Liang



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People's Republic of China



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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FR524529C | Rev. 01 | Initial issue of report | Jun. 11, 2025 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|----------------|--------------------|--|-----------------------|-------------|------------------------------------|
| 3.1 | 15.247(a)(2) | 6dB Bandwidth | ≥ 0.5MHz | Pass | - |
| 3.1 | - | 99% Bandwidth | - | Report Only | - |
| 3.2 | 15.247(b) | Power Output Measurement | ≤ 30dBm | Pass | - |
| 3.3 | 15.247(e) | Power Spectral Density | ≤ 8dBm/3kHz | Pass | - |
| 3.4 | 15.247(d) | Conducted Band Edges | ≤ 20dBc | Pass | - |
| | | Conducted Spurious Emission | | Pass | - |
| 3.5 | 15.247(d) | Radiated Band Edges and Radiated Spurious Emission | 15.209(a) & 15.247(d) | Pass | Under limit 3.30 dB at 2483.77 MHz |
| 3.6 | 15.207 | AC Conducted Emission | 15.207(a) | Pass | Under limit 14.30 dB at 0.16 MHz |
| 3.7 | 15.203 & 15.247(b) | Antenna Requirement | 15.203 & 15.247(b) | Pass | - |

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

| Product Feature | |
|-----------------|---|
| Equipment | Mobile Phone |
| Brand Name | Xiaomi |
| Model Name | 2506BPN68G |
| FCC ID | 2AFZZPN68G |
| IMEI Code | Conducted: 864724070091723&864724070091731 Conduction: 864724070065800/864724070065818 Radiation: 864724070091343/864724070091350 |
| HW Version | 1351P2404 |
| SW Version | Xiaomi HyperOS 2.0 |
| EUT Stage | Identical Prototype |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|--|
| Tx/Rx Channel Frequency Range | 2412 MHz ~ 2462 MHz |
| Maximum (Peak) Output Power to antenna | <p><SISO Ant.10> 802.11b : 21.89 dBm (0.1545 W) 802.11g : 25.17 dBm (0.3289 W) <SISO Ant.8> 802.11b : 21.81 dBm (0.1517 W) 802.11g : 25.97 dBm (0.3954 W) <MIMO Ant.10+8> 802.11n HT20 : 28.32 dBm (0.6792 W) 802.11ac VHT20 : 28.17 dBm (0.6561 W) 802.11ax HE20 : 28.59 dBm (0.7228 W) 802.11be EHT20 : 28.73 dBm (0.7464 W)</p> |
| 99% Occupied Bandwidth | <p><Ant.8/10> 802.11b : 12.907MHz 802.11g : 16.602MHz 802.11n HT20 : 17.654MHz 802.11be EHT20 : 18.938MHz</p> |
| Antenna Type / Gain | <p><Ant 8>:PIFA Antenna type with gain -0.83 dBi <Ant 10>:PIFA Antenna type with gain -1.50 dBi</p> |
| Type of Modulation | <p>802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)</p> |

Note:

1. The device supports WLAN SISO mode for 802.11b/g mode.
2. The device supports WLAN SISO & MIMO CDD mode for 802.11n/ac/ax/be mode.
3. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to the higher normal output power for 802.11n/ac/ax/be mode.
4. For 802.11n/ac mode, the whole testing has assessed only 802.11n HT20 by referring to the higher output power.
5. For 802.11ax/be mode, the whole testing has assessed only 802.11be EHT20 by referring to the higher output power.
6. 802.11ax/be support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power/PSD > partial RU, therefore the full RU perform full, and partial RU verify bandedge/spurious.
7. 802.11be support OFDMA for small size RU, 52Tone + 26 Tone or 106Tone + 26Tone, test combination as below,
 - a. For Low channel, 52Tone_Index38 + 26Tone_Index1 and 106Tone_Index53 + 26Tone_Index4
 - b. For High channel, 52Tone_Index39 + 26Tone_Index7 and 106Tone_Index54 + 26Tone_Index4
8. The worse cases of RSE for partial RU and small size RU are shown in this report.



1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

| | | | |
|---------------------------|---|----------------------------|---------------------------------------|
| Test Firm | Sporton International Inc. (ShenZhen) | | |
| Test Site Location | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985 | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | TH01-SZ CO02-SZ 03CH03-SZ | CN1256 | 421272 |

1.7 Test Software

| Item | Site | Manufacturer | Name | Version |
|------|-----------|--------------|------|-------------|
| 1. | 03CH03-SZ | AUDIX | E3 | 6.2009-8-24 |
| 2. | CO02-SZ | AUDIX | E3 | 6.120613b |

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels (X, Y, Z) for Adapter mode, Earphone mode and Wireless charging mode. The worst cases (X Plane-Adapter mode) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------------|---------|-------------|---------|-------------|
| 2400-2483.5 MHz | 1 | 2412 | 7 | 2442 |
| | 2 | 2417 | 8 | 2447 |
| | 3 | 2422 | 9 | 2452 |
| | 4 | 2427 | 10 | 2457 |
| | 5 | 2432 | 11 | 2462 |
| | 6 | 2437 | - | - |



2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

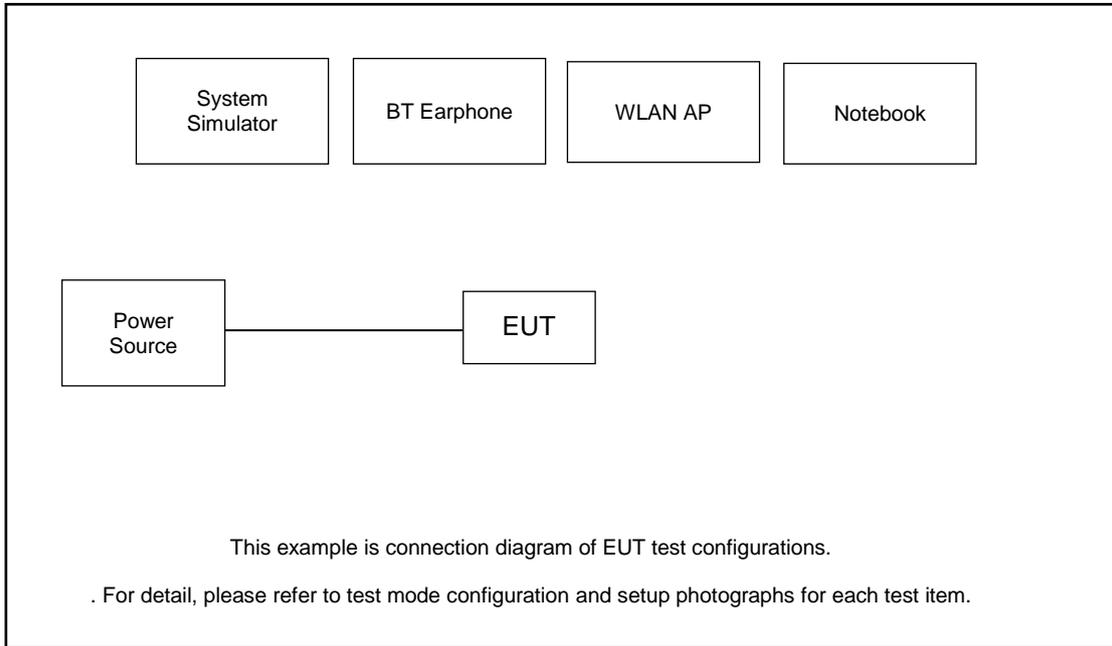
MIMO Antenna

| Modulation | Data Rate |
|----------------|-----------|
| 802.11b | 1 Mbps |
| 802.11g | 6 Mbps |
| 802.11n HT20 | MCS0 |
| 802.11be EHT20 | MCS0 |

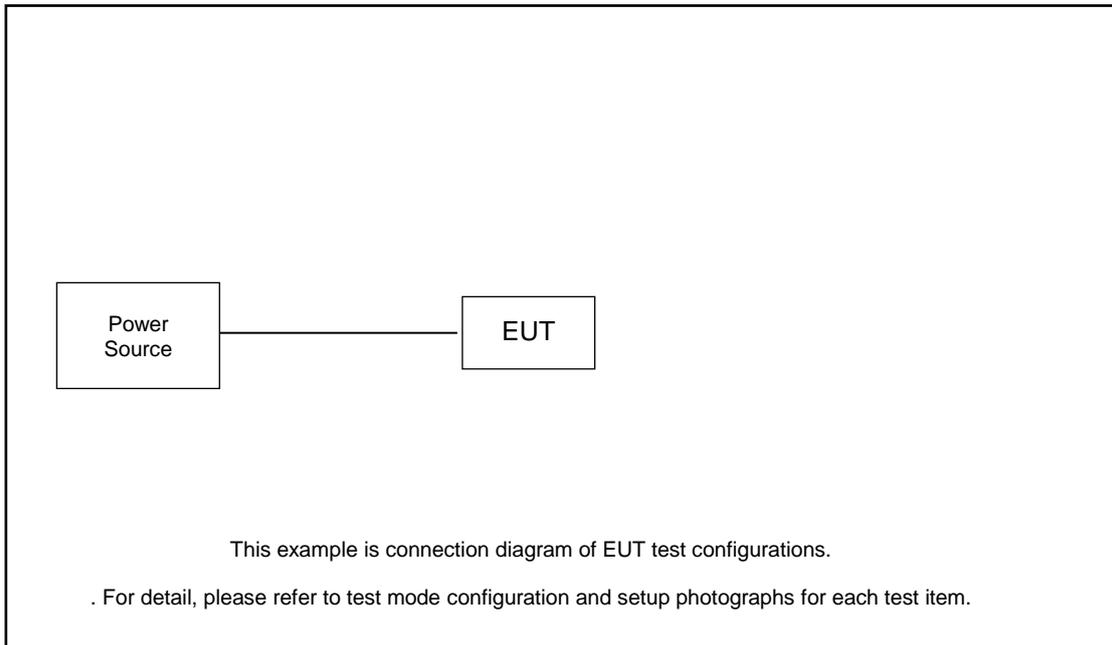
| Test Cases | |
|---|--|
| AC Conducted Emission | Mode 1 :GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable(Charging from Adapter1) |
| Remark: For Radiated Test Cases, The tests were performance with Adapter1 and USB Cable. | |

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:





2.4 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|--------------------|------------|--------------|-------------|------------|-------------------|
| 1. | System Simulator | R&S | CMU 200 | N/A | N/A | Unshielded, 1.8 m |
| 2. | WLAN AP | D-Link | DIR-820L | KA2IR820LA1 | N/A | Unshielded, 1.8 m |
| 3. | Notebook | DELL | Latiude 3400 | N/A | N/A | Unshielded, 1.8m |
| 4. | Bluetooth Earphone | Samsung | EO-MG900 | PYAHS-107W | N/A | N/A |

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

Following shows an offset computation example with cable loss 2.12 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 2.12 + 10 = 12.12 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

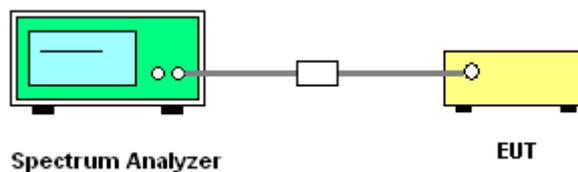
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) $\geq 3 \times$ RBW. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

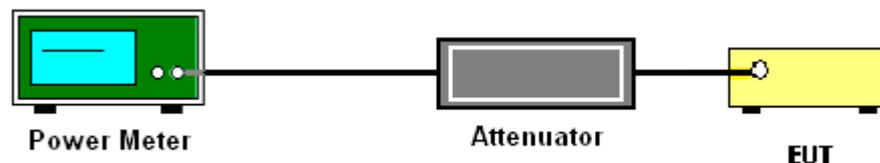
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01:

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

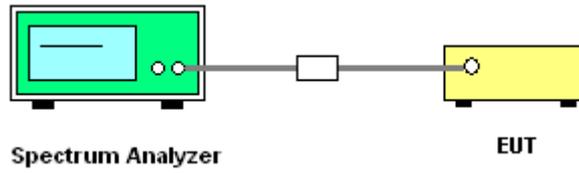
Method (b): Measure and sum spectral maxima across the outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

Method (c): Measure and add $10 \log(N_{ANT})$ dB, where N_{ANT} is the number of outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The quantity $10 \log(N_{ANT})$ dB is added to each spectrum value before comparing to the emission limit.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

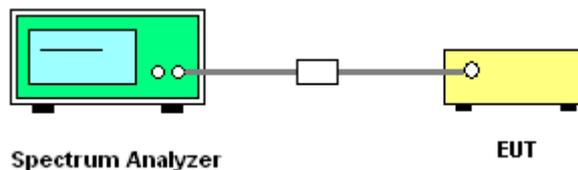
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

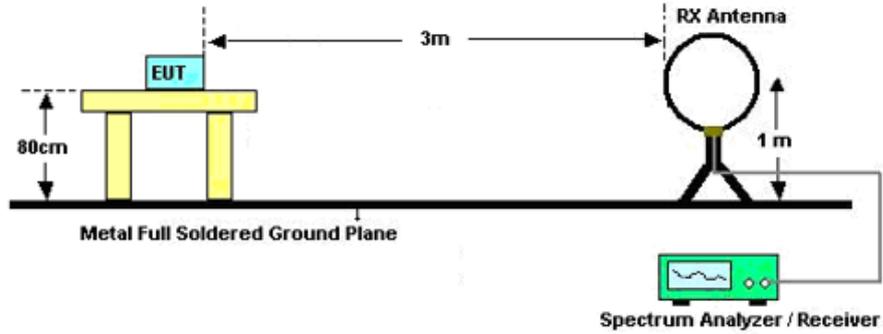


3.5.3 Test Procedures

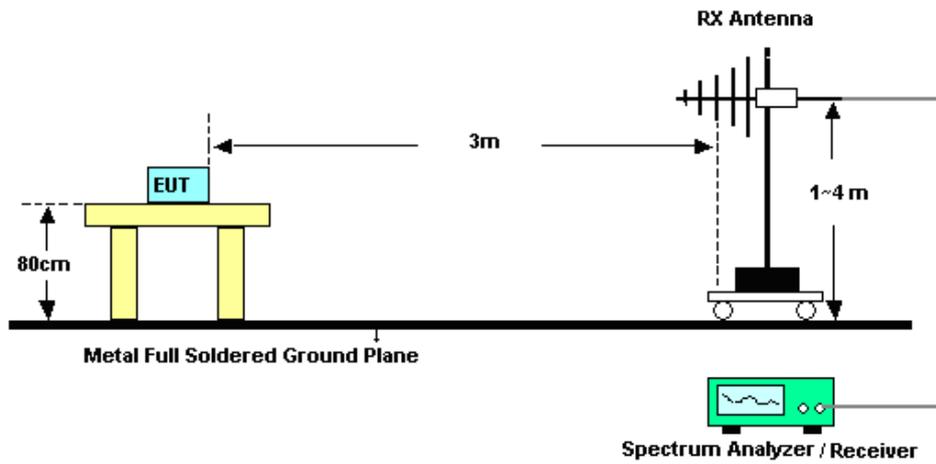
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

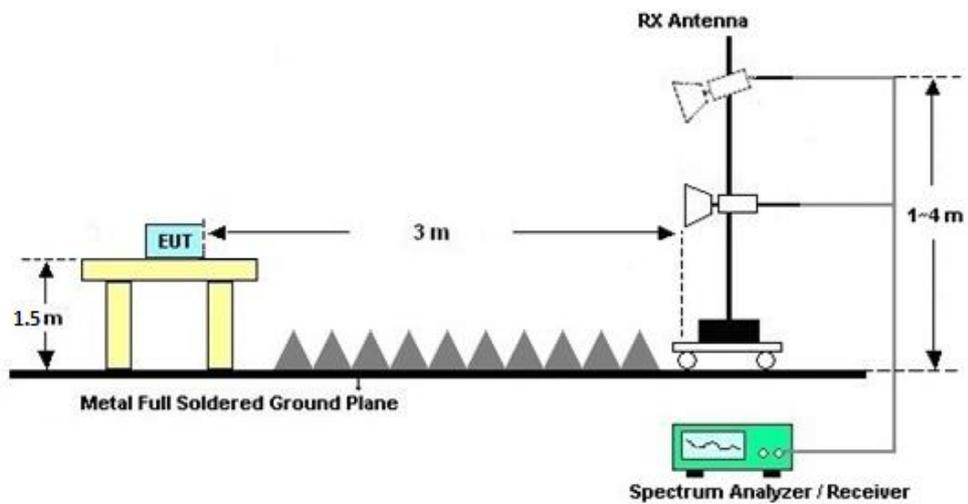
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of Emission (MHz) | Conducted Limit (dB μ V) | |
|--------------------------------|------------------------------|-----------|
| | 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.

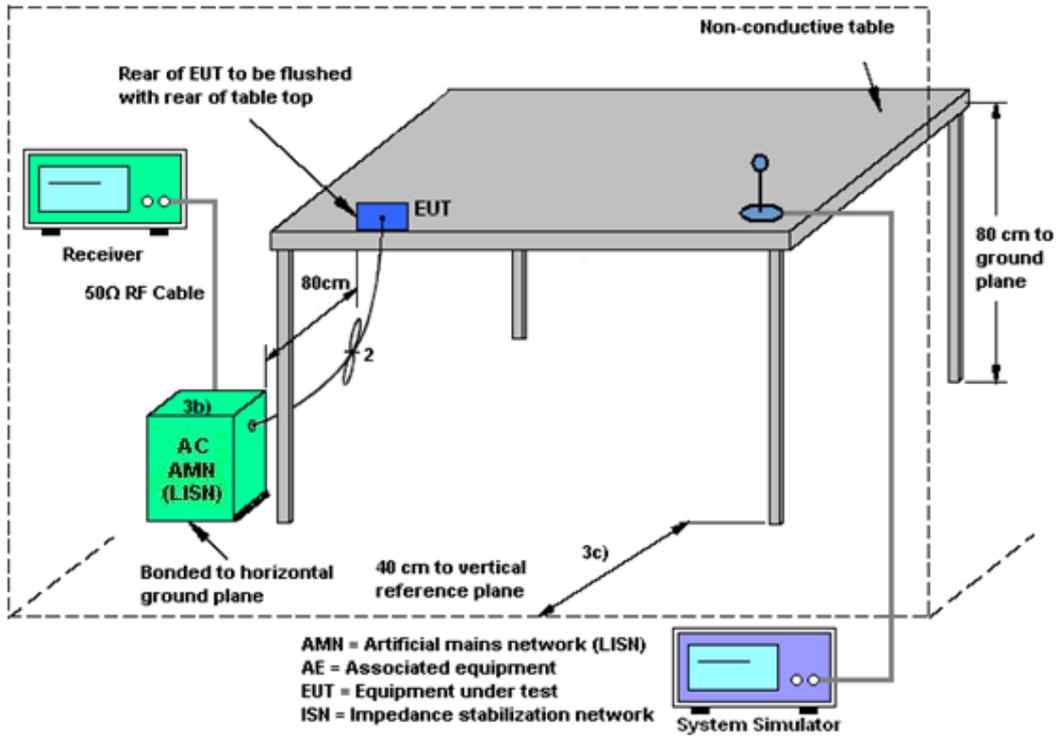
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

| <CDD Modes> | | | | | | |
|--------------------------|-------------------------|--------------------------|---------------------------------------|-------------------------------------|---|---|
| | | | DG for Power (dBi) | DG for PSD (dBi) | Power Limit Reduction (dB) | PSD Limit Reduction (dB) |
| | Ant. 8 (dBi) | Ant. 10 (dBi) | | | | |
| 2.4 GHz | -0.83 | -1.50 | -0.83 | 1.85 | 0.00 | 0.00 |

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------|----------------|--------------------------|--------------|-----------------|------------------|----------------------------|---------------|-----------------------|
| Spectrum Analyzer | R&S | FSV40 | 101078 | 10Hz~40GHz | Apr. 02, 2025 | May 03, 2025~Jun, 03, 2025 | Apr. 01, 2026 | Conducted (TH01-SZ) |
| Pulse Power Sensor | Anritsu | MA2411B | 1339473 | 30MHz~40GHz | Dec. 25, 2024 | May 03, 2025~Jun, 03, 2025 | Dec. 24, 2025 | Conducted (TH01-SZ) |
| Power Meter | Anritsu | ML2495A | 1218010 | 50MHz Bandwidth | Oct. 14,2024 | May 03, 2025~Jun, 03, 2025 | Oct. 13, 2025 | Conducted (TH01-SZ) |
| EMI Receiver | R&S | ESR7 | 102297 | 9kHz~7GHz; | Jul. 03, 2024 | May 13, 2025 | Jul. 02, 2025 | Conduction (CO02-SZ) |
| AC LISN | R&S | ENV216 | 101499 | 9kHz~30MHz | Jul. 03, 2024 | May 13, 2025 | Jul. 02, 2025 | Conduction (CO02-SZ) |
| AC Power Source | CHROMA | 61601 | 616010002470 | 100Vac~250Vac | Dec.25, 2024 | May 13, 2025 | Dec. 24, 2025 | Conduction (CO02-SZ) |
| EMI Test Receiver&SA | KEYSIGHT | N9038A | MY54450083 | 20Hz~8.4GHz | Apr. 02, 2025 | May 03, 2025~May 20, 2025 | Apr. 01, 2026 | Radiation (03CH03-SZ) |
| EXA Signal Analyzer | KEYSIGHT | N9010B | MY59071191 | 10KHz~44GHz | Apr. 02, 2025 | May 03, 2025~May 20, 2025 | Apr. 01, 2026 | Radiation (03CH03-SZ) |
| Loop Antenna | R&S | HFH2-Z2E | 101141 | 9kHz~30MHz | Dec. 28, 2024 | May 03, 2025~May 20, 2025 | Dec. 27, 2025 | Radiation (03CH03-SZ) |
| Bilog Antenna | TeseQ | CBL6112D | 35408 | 30MHz~2GHz | Aug. 20, 2023 | May 03, 2025~May 20, 2025 | Aug. 19, 2025 | Radiation (03CH03-SZ) |
| Double Ridege Guide Antenna | ETS-Lindgren | Burgeon-3117 | 00240107 | 1GHz~18GHz | Jul. 13, 2024 | May 03, 2025~May 20, 2025 | Jul. 12, 2025 | Radiation (03CH03-SZ) |
| HF Amplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz | Jul. 03, 2024 | May 03, 2025~May 20, 2025 | Jul. 02, 2025 | Radiation (03CH03-SZ) |
| SHF-EHF Horn | com-power | AH-840 | 101071 | 18Ghz~40GHz | Apr. 03, 2025 | May 03, 2025~May 20, 2025 | Apr. 02, 2026 | Radiation (03CH03-SZ) |
| Amplifier | EM Electronics | EM330 | 060756 | 0.01Hz~3000MHz | Apr. 02, 2025 | May 03, 2025~May 20, 2025 | Apr. 01, 2026 | Radiation (03CH03-SZ) |
| HF Amplifier | MITEQ | AMF-7D-00101800-30-10P-R | 1943528 | 1GHz~18GHz | Oct. 14, 2024 | May 03, 2025~May 20, 2025 | Oct. 13, 2025 | Radiation (03CH03-SZ) |
| HF Amplifier | Keysight | 83017A | MY53270357 | 500MHz~26.5G Hz | Apr. 02, 2025 | May 03, 2025~May 20, 2025 | Apr. 01, 2026 | Radiation (03CH03-SZ) |
| AC Power Source | Chroma | 61601 | 616010002729 | N/A | Oct. 18, 2024 | May 03, 2025~May 20, 2025 | Oct. 17, 2025 | Radiation (03CH03-SZ) |
| Turn Table | EM | EM1000 | N/A | 0~360 degree | NCR | May 03, 2025~May 20, 2025 | NCR | Radiation (03CH03-SZ) |
| Antenna Mast | EM | EM1000 | N/A | 1 m~4 m | NCR | May 03, 2025~May 20, 2025 | NCR | Radiation (03CH03-SZ) |

NCR: No Calibration Required



5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

| Test Item | Uncertainty |
|--|-------------|
| Conducted Spurious Emission & Bandedge | ±1.34 dB |
| Occupied Channel Bandwidth | ±0.012 MHz |
| Conducted Power | ±1.34 dB |
| Conducted Power Spectral Density | ±1.32 dB |
| Frequency | ±1.3 Hz |

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.5 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.9 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0 dB |
|---|--------|

----- THE END -----



Appendix A. Conducted Test Results

A1. Conducted Test Results

| | | | | |
|----------------|-------------------|--------------------|-------|----|
| Test Engineer: | He Qingsheng | Temperature: | 21~25 | °C |
| Test Date: | 2025/5/3~2025/6/3 | Relative Humidity: | 51~54 | % |

TEST RESULTS DATA
Peak Output Power

| 2.4GHz Band Single Antenna | | | | | | | | | | | | | | | | |
|----------------------------|-----------|-----|-----|-------------|----------------------------|-------|-------|-----------------------------|-------|----------|-------|------------------|-------|------------------------|-------|------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | | | Conducted Power Limit (dBm) | | DG (dBi) | | EIRP Power (dBm) | | EIRP Power Limit (dBm) | | Pass /Fail |
| | | | | | Ant10 | Ant8 | SUM | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | |
| 11b | 1Mbps | 1 | 1 | 2412 | 21.74 | 21.10 | | 30.00 | 30.00 | -1.50 | -0.83 | 20.24 | 20.27 | 36.00 | 36.00 | Pass |
| 11b | 1Mbps | 1 | 6 | 2437 | 21.89 | 21.81 | | 30.00 | 30.00 | -1.50 | -0.83 | 20.39 | 20.98 | 36.00 | 36.00 | Pass |
| 11b | 1Mbps | 1 | 11 | 2462 | 21.26 | 21.08 | | 30.00 | 30.00 | -1.50 | -0.83 | 19.76 | 20.25 | 36.00 | 36.00 | Pass |
| 11g | 6Mbps | 1 | 1 | 2412 | 24.76 | 24.94 | | 30.00 | 30.00 | -1.50 | -0.83 | 23.26 | 24.11 | 36.00 | 36.00 | Pass |
| 11g | 6Mbps | 1 | 6 | 2437 | 25.17 | 25.97 | | 30.00 | 30.00 | -1.50 | -0.83 | 23.67 | 25.14 | 36.00 | 36.00 | Pass |
| 11g | 6Mbps | 1 | 11 | 2462 | 24.13 | 24.63 | | 30.00 | 30.00 | -1.50 | -0.83 | 22.63 | 23.80 | 36.00 | 36.00 | Pass |
| HT20 | MCS0 | 2 | 1 | 2412 | 24.40 | 24.84 | 27.64 | 30.00 | | -0.83 | | 26.81 | | 36.00 | | Pass |
| HT20 | MCS0 | 2 | 6 | 2437 | 24.91 | 25.67 | 28.32 | 30.00 | | -0.83 | | 27.49 | | 36.00 | | Pass |
| HT20 | MCS0 | 2 | 11 | 2462 | 23.64 | 24.13 | 26.90 | 30.00 | | -0.83 | | 26.07 | | 36.00 | | Pass |
| VHT20 | MCS0 | 2 | 1 | 2412 | 24.23 | 24.70 | 27.48 | 30.00 | | -0.83 | | 26.65 | | 36.00 | | Pass |
| VHT20 | MCS0 | 2 | 6 | 2437 | 24.77 | 25.52 | 28.17 | 30.00 | | -0.83 | | 27.34 | | 36.00 | | Pass |
| VHT20 | MCS0 | 2 | 11 | 2462 | 23.44 | 23.82 | 26.64 | 30.00 | | -0.83 | | 25.81 | | 36.00 | | Pass |

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

| 2.4GHz Band Single Antenna | | | | | | | | | | | | | | | | |
|----------------------------|-----------|-----|-----|-------------|-------------------------------|-------|-------|-----------------------------|-------|----------|-------|------------------|-------|------------------------|-------|------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | Conducted Power Limit (dBm) | | DG (dBi) | | EIRP Power (dBm) | | EIRP Power Limit (dBm) | | Pass /Fail |
| | | | | | Ant10 | Ant8 | SUM | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | |
| 11b | 1Mbps | 1 | 1 | 2412 | 19.70 | 19.20 | | 30.00 | 30.00 | -1.50 | -0.83 | 18.20 | 18.37 | 36.00 | 36.00 | Pass |
| 11b | 1Mbps | 1 | 6 | 2437 | 19.80 | 19.70 | | 30.00 | 30.00 | -1.50 | -0.83 | 18.30 | 18.87 | 36.00 | 36.00 | Pass |
| 11b | 1Mbps | 1 | 11 | 2462 | 19.30 | 19.20 | | 30.00 | 30.00 | -1.50 | -0.83 | 17.80 | 18.37 | 36.00 | 36.00 | Pass |
| 11g | 6Mbps | 1 | 1 | 2412 | 19.30 | 19.00 | | 30.00 | 30.00 | -1.50 | -0.83 | 17.80 | 18.17 | 36.00 | 36.00 | Pass |
| 11g | 6Mbps | 1 | 6 | 2437 | 19.40 | 19.70 | | 30.00 | 30.00 | -1.50 | -0.83 | 17.90 | 18.87 | 36.00 | 36.00 | Pass |
| 11g | 6Mbps | 1 | 11 | 2462 | 19.00 | 19.10 | | 30.00 | 30.00 | -1.50 | -0.83 | 17.50 | 18.27 | 36.00 | 36.00 | Pass |
| HT20 | MCS0 | 2 | 1 | 2412 | 18.70 | 18.60 | 21.66 | 30.00 | | -0.83 | | 20.83 | | 36.00 | | Pass |
| HT20 | MCS0 | 2 | 6 | 2437 | 18.80 | 19.30 | 22.07 | 30.00 | | -0.83 | | 21.24 | | 36.00 | | Pass |
| HT20 | MCS0 | 2 | 11 | 2462 | 18.50 | 18.60 | 21.56 | 30.00 | | -0.83 | | 20.73 | | 36.00 | | Pass |
| VHT20 | MCS0 | 2 | 1 | 2412 | 18.30 | 18.10 | 21.21 | 30.00 | | -0.83 | | 20.38 | | 36.00 | | Pass |
| VHT20 | MCS0 | 2 | 6 | 2437 | 18.30 | 18.80 | 21.57 | 30.00 | | -0.83 | | 20.74 | | 36.00 | | Pass |
| VHT20 | MCS0 | 2 | 11 | 2462 | 18.00 | 18.10 | 21.06 | 30.00 | | -0.83 | | 20.23 | | 36.00 | | Pass |

| Setting | |
|---------|-------|
| Ant 10 | Ant 8 |
| 19.00 | 19.00 |
| 19.00 | 19.00 |
| 19.00 | 19.00 |
| 19.00 | 19.00 |
| 19.00 | 19.00 |
| 19.00 | 19.00 |
| 18.50 | |
| 18.50 | |
| 18.50 | |
| 18.00 | |
| 18.00 | |
| 18.00 | |

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

| 2.4GHz Band MIMO | | | | | | | | | | | | | | | | | |
|------------------|-----------|-----|-----|-------------|------------|----------------------------|-------|-------|-----------------------------|------|----------|------|------------------|------|------------------------|------|------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Peak Conducted Power (dBm) | | | Conducted Power Limit (dBm) | | DG (dBi) | | EIRP Power (dBm) | | EIRP Power Limit (dBm) | | Pass /Fail |
| | | | | | | Ant10 | Ant8 | SUM | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | |
| HE20 | MCS0 | 2 | 1 | 2412 | Full | 24.55 | 25.13 | 27.86 | 30.00 | | -0.83 | | 27.03 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 1 | 2412 | 26/0 | 21.95 | 21.66 | 24.82 | 30.00 | | -0.83 | | 23.99 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 1 | 2412 | 52/37 | 22.26 | 21.72 | 25.01 | 30.00 | | -0.83 | | 24.18 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 1 | 2412 | 106/53 | 23.34 | 22.89 | 26.13 | 30.00 | | -0.83 | | 25.30 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 6 | 2437 | Full | 24.95 | 26.13 | 28.59 | 30.00 | | -0.83 | | 27.76 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 11 | 2462 | Full | 23.63 | 23.96 | 26.81 | 30.00 | | -0.83 | | 25.98 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 11 | 2462 | 26/8 | 20.13 | 19.61 | 22.89 | 30.00 | | -0.83 | | 22.06 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 11 | 2462 | 52/40 | 20.67 | 20.47 | 23.58 | 30.00 | | -0.83 | | 22.75 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 11 | 2462 | 106/54 | 22.71 | 22.85 | 25.79 | 30.00 | | -0.83 | | 24.96 | | 36.00 | | Pass |

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

| 2.4GHz Band MIMO | | | | | | | | | | | | | | | | | |
|------------------|-----------|-----|-----|-------------|------------|-------------------------------|-------|-------|-----------------------------|------|----------|------|------------------|------|------------------------|------|------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) | | | Conducted Power Limit (dBm) | | DG (dBi) | | EIRP Power (dBm) | | EIRP Power Limit (dBm) | | Pass /Fail |
| | | | | | | Ant10 | Ant8 | SUM | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | |
| HE20 | MCS0 | 2 | 1 | 2412 | Full | 18.40 | 18.20 | 21.31 | 30.00 | | -0.83 | | 20.48 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 1 | 2412 | 26/0 | 8.67 | 8.29 | 11.49 | 30.00 | | -0.83 | | 10.66 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 1 | 2412 | 52/37 | 11.66 | 11.08 | 14.39 | 30.00 | | -0.83 | | 13.56 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 1 | 2412 | 106/53 | 13.78 | 13.32 | 16.57 | 30.00 | | -0.83 | | 15.74 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 6 | 2437 | Full | 18.50 | 19.00 | 21.77 | 30.00 | | -0.83 | | 20.94 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 11 | 2462 | Full | 18.00 | 18.20 | 21.11 | 30.00 | | -0.83 | | 20.28 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 11 | 2462 | 26/8 | 7.43 | 7.61 | 10.53 | 30.00 | | -0.83 | | 9.70 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 11 | 2462 | 52/40 | 10.60 | 10.34 | 13.48 | 30.00 | | -0.83 | | 12.65 | | 36.00 | | Pass |
| HE20 | MCS0 | 2 | 11 | 2462 | 106/54 | 13.48 | 13.97 | 16.74 | 30.00 | | -0.83 | | 15.91 | | 36.00 | | Pass |

| Setting | |
|---------|-------|
| Ant 10 | Ant 8 |
| 18.00 | 18.00 |
| 8.00 | 8.00 |
| 11.00 | 11.00 |
| 14.00 | 14.00 |
| 18.00 | 18.00 |
| 18.00 | 18.00 |
| 8.00 | 8.00 |
| 11.00 | 11.00 |
| 14.50 | 14.50 |

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

| 2.4GHz Band MIMO | | | | | | | | | | | | | | | | | |
|------------------|-----------|-----|-----|-------------|------------|----------------------------|-------|-------|-----------------------------|------|----------|------|------------------|------|------------------------|------|------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Peak Conducted Power (dBm) | | | Conducted Power Limit (dBm) | | DG (dBi) | | EIRP Power (dBm) | | EIRP Power Limit (dBm) | | Pass /Fail |
| | | | | | | Ant10 | Ant8 | SUM | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | |
| EHT20 | MCS0 | 2 | 1 | 2412 | Full | 24.83 | 25.44 | 28.16 | 30.00 | | -0.83 | | 27.33 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 1 | 2412 | 26/0 | 22.09 | 21.80 | 24.96 | 30.00 | | -0.83 | | 24.13 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 1 | 2412 | 52/37 | 22.40 | 21.86 | 25.15 | 30.00 | | -0.83 | | 24.32 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 1 | 2412 | 106/53 | 23.48 | 23.03 | 26.27 | 30.00 | | -0.83 | | 25.44 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 1 | 2412 | 25+26 | 22.22 | 22.26 | 25.25 | 30.00 | | -0.83 | | 24.42 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 1 | 2412 | 106+26 | 24.06 | 23.91 | 27.00 | 30.00 | | -0.83 | | 26.17 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 6 | 2437 | Full | 25.16 | 26.22 | 28.73 | 30.00 | | -0.83 | | 27.90 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | Full | 23.89 | 24.37 | 27.15 | 30.00 | | -0.83 | | 26.32 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | 26/8 | 20.27 | 19.75 | 23.03 | 30.00 | | -0.83 | | 22.20 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | 52/40 | 20.81 | 20.61 | 23.72 | 30.00 | | -0.83 | | 22.89 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | 106/54 | 22.85 | 22.99 | 25.93 | 30.00 | | -0.83 | | 25.10 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | 25+26 | 21.65 | 22.02 | 24.85 | 30.00 | | -0.83 | | 24.02 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | 106+26 | 23.14 | 23.43 | 26.30 | 30.00 | | -0.83 | | 25.47 | | 36.00 | | Pass |

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

| 2.4GHz Band MIMO | | | | | | | | | | | | | | | | | |
|------------------|-----------|-----|-----|-------------|------------|-------------------------------|-------|-------|-----------------------------|------|----------|------|------------------|------|------------------------|------|------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) | | | Conducted Power Limit (dBm) | | DG (dBi) | | EIRP Power (dBm) | | EIRP Power Limit (dBm) | | Pass /Fail |
| | | | | | | Ant10 | Ant8 | SUM | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | Ant10 | Ant8 | |
| EHT20 | MCS0 | 2 | 1 | 2412 | Full | 19.00 | 18.80 | 21.91 | 30.00 | | -0.83 | | 21.08 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 1 | 2412 | 26/0 | 8.75 | 8.37 | 11.57 | 30.00 | | -0.83 | | 10.74 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 1 | 2412 | 52/37 | 11.74 | 11.16 | 14.47 | 30.00 | | -0.83 | | 13.64 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 1 | 2412 | 106/53 | 13.86 | 13.40 | 16.65 | 30.00 | | -0.83 | | 15.82 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 1 | 2412 | 52+26 | 13.73 | 13.66 | 16.71 | 30.00 | | -0.83 | | 15.88 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 1 | 2412 | 106+26 | 15.71 | 15.09 | 18.42 | 30.00 | | -0.83 | | 17.59 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 6 | 2437 | Full | 19.10 | 19.60 | 22.37 | 30.00 | | -0.83 | | 21.54 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | Full | 18.60 | 18.80 | 21.71 | 30.00 | | -0.83 | | 20.88 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | 26/8 | 7.51 | 7.69 | 10.61 | 30.00 | | -0.83 | | 9.78 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | 52/40 | 10.68 | 10.42 | 13.56 | 30.00 | | -0.83 | | 12.73 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | 106/54 | 13.56 | 14.05 | 16.82 | 30.00 | | -0.83 | | 15.99 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | 52+26 | 12.57 | 12.83 | 15.71 | 30.00 | | -0.83 | | 14.88 | | 36.00 | | Pass |
| EHT20 | MCS0 | 2 | 11 | 2462 | 106+26 | 14.40 | 14.38 | 17.40 | 30.00 | | -0.83 | | 16.57 | | 36.00 | | Pass |

| Setting | |
|---------|-------|
| Ant 10 | Ant 8 |
| 18.50 | |
| 8.00 | |
| 11.00 | |
| 14.00 | |
| 13.00 | |
| 15.00 | |
| 18.50 | |
| 18.50 | |
| 8.00 | |
| 11.00 | |
| 14.50 | |
| 13.50 | |
| 15.00 | |

Note: Measured power (dBm) has offset with cable loss.



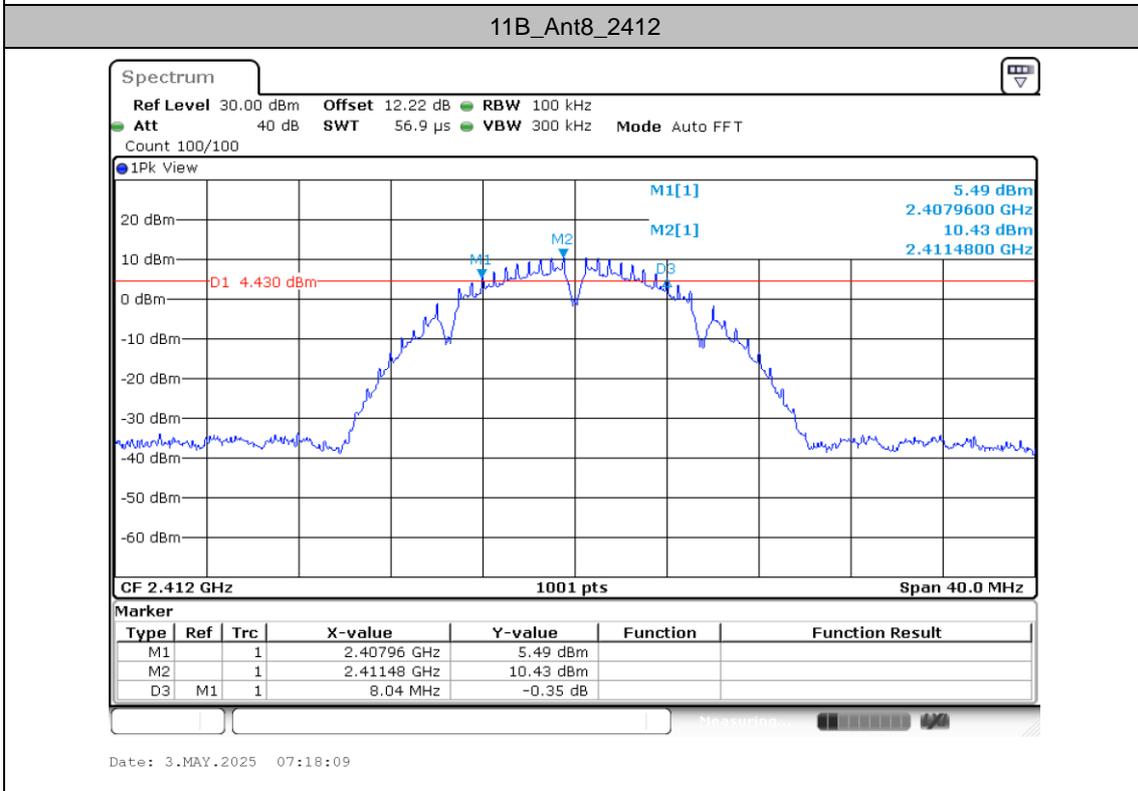
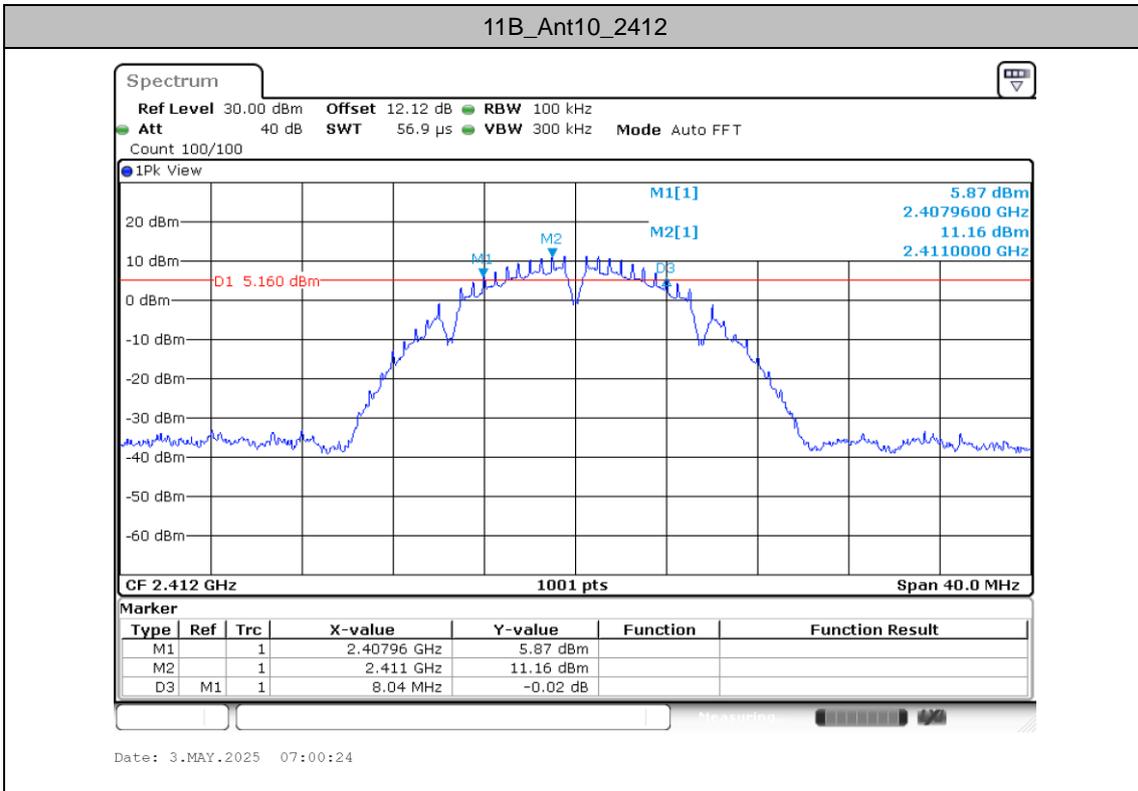
DTS Bandwidth

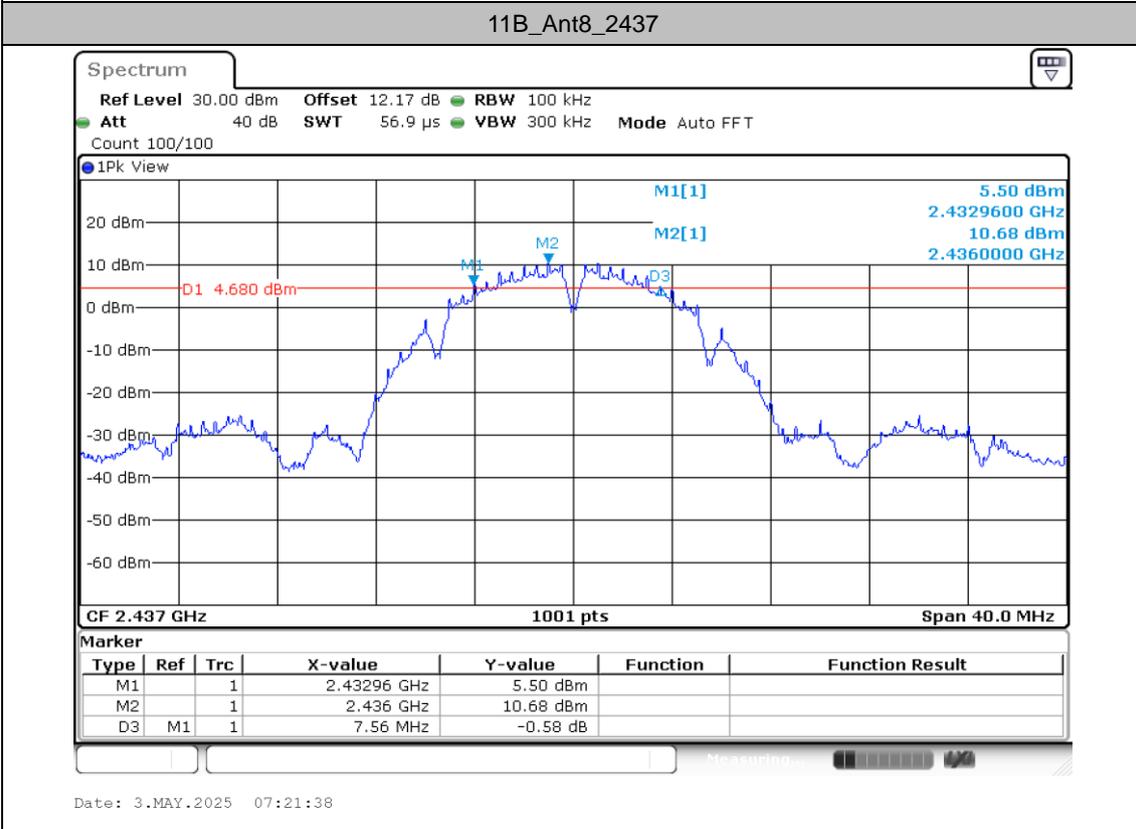
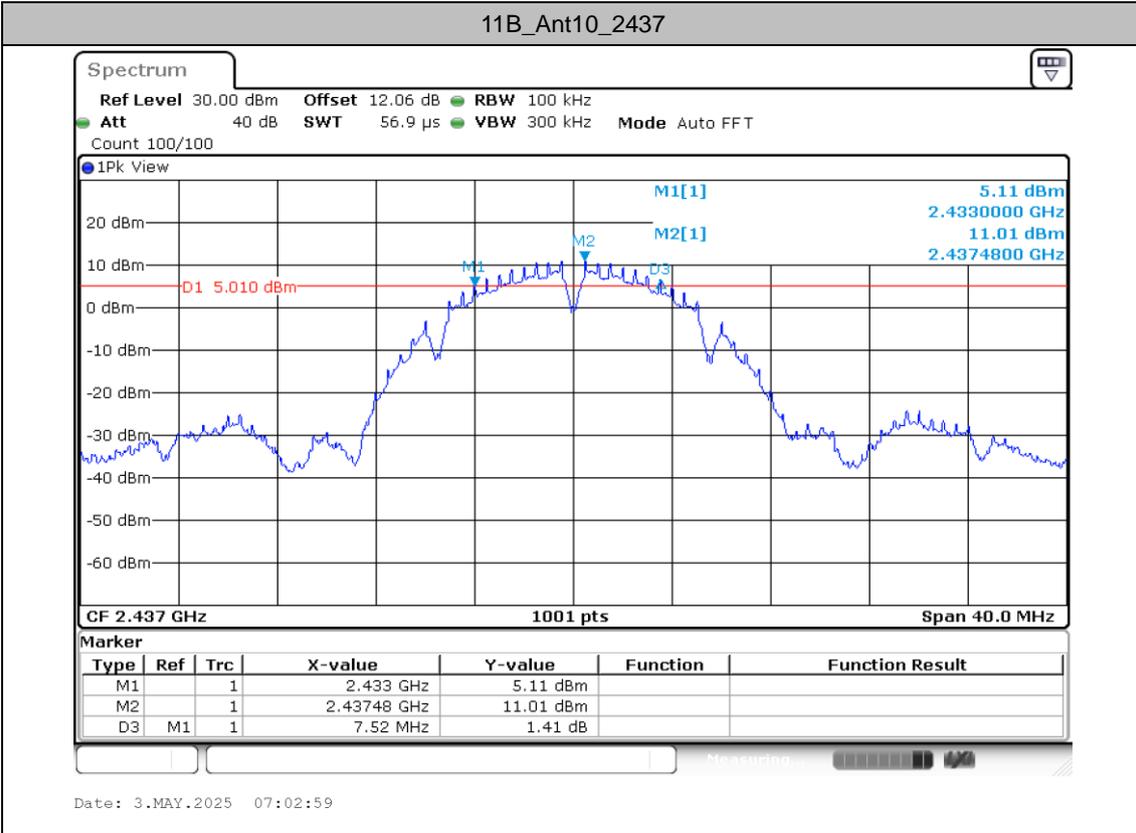
Test Result

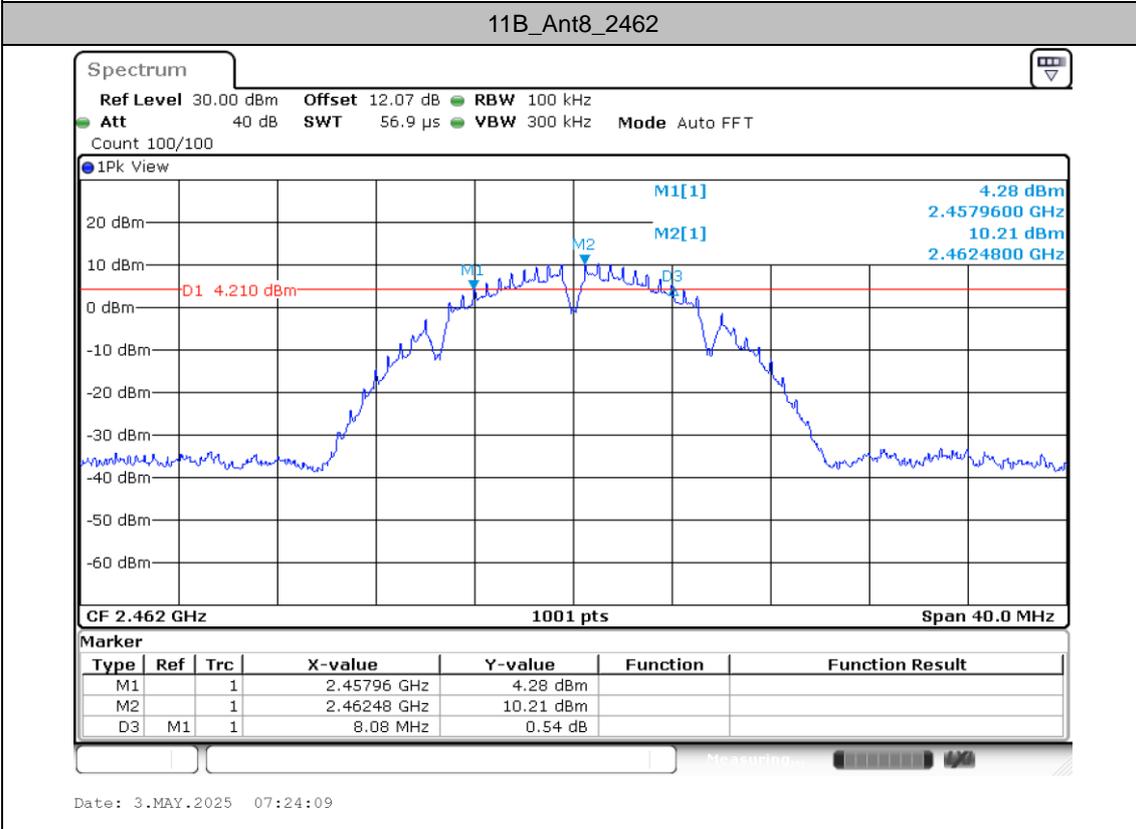
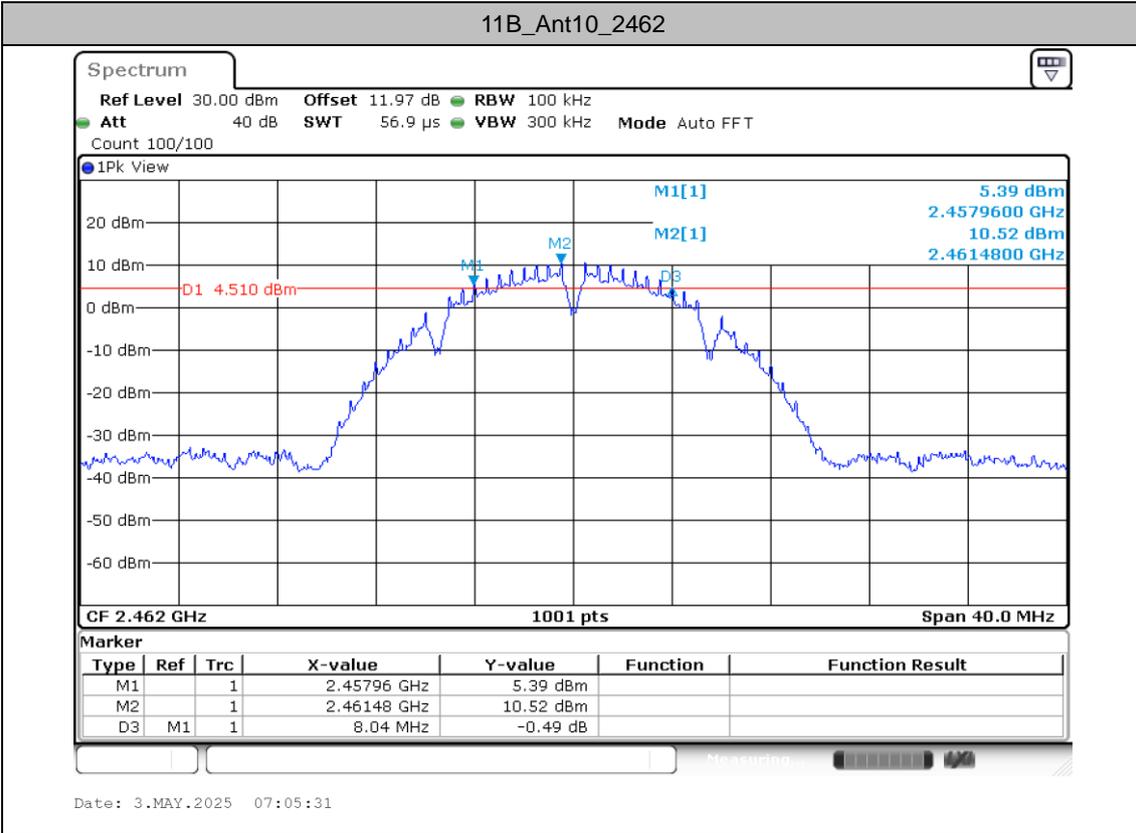
| TestMode | Antenna | Freq(MHz) | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|-----------|--------------|---------|---------|------------|---------|
| 11B | Ant10 | 2412 | 8.04 | 2407.96 | 2416.00 | 0.5 | PASS |
| | Ant8 | 2412 | 8.04 | 2407.96 | 2416.00 | 0.5 | PASS |
| | Ant10 | 2437 | 7.52 | 2433.00 | 2440.52 | 0.5 | PASS |
| | Ant8 | 2437 | 7.56 | 2432.96 | 2440.52 | 0.5 | PASS |
| | Ant10 | 2462 | 8.04 | 2457.96 | 2466.00 | 0.5 | PASS |
| | Ant8 | 2462 | 8.08 | 2457.96 | 2466.04 | 0.5 | PASS |
| 11G | Ant10 | 2412 | 15.44 | 2404.44 | 2419.88 | 0.5 | PASS |
| | Ant8 | 2412 | 16.32 | 2403.84 | 2420.16 | 0.5 | PASS |
| | Ant10 | 2437 | 15.32 | 2429.44 | 2444.76 | 0.5 | PASS |
| | Ant8 | 2437 | 15.72 | 2428.84 | 2444.56 | 0.5 | PASS |
| | Ant10 | 2462 | 16.04 | 2453.84 | 2469.88 | 0.5 | PASS |
| | Ant8 | 2462 | 15.72 | 2454.44 | 2470.16 | 0.5 | PASS |
| 11N20MIMO | Ant10 | 2412 | 16.52 | 2403.60 | 2420.12 | 0.5 | PASS |
| | Ant8 | 2412 | 16.96 | 2403.20 | 2420.16 | 0.5 | PASS |
| | Ant10 | 2437 | 16.16 | 2429.24 | 2445.40 | 0.5 | PASS |
| | Ant8 | 2437 | 15.92 | 2428.60 | 2444.52 | 0.5 | PASS |
| | Ant10 | 2462 | 16.52 | 2453.60 | 2470.12 | 0.5 | PASS |
| | Ant8 | 2462 | 16.92 | 2453.84 | 2470.76 | 0.5 | PASS |
| 11BE20MIMO | Ant10 | 2412 | 17.40 | 2402.84 | 2420.24 | 0.5 | PASS |
| | Ant8 | 2412 | 18.20 | 2402.88 | 2421.08 | 0.5 | PASS |
| | Ant10 | 2437 | 18.28 | 2427.88 | 2446.16 | 0.5 | PASS |
| | Ant8 | 2437 | 16.56 | 2427.96 | 2444.52 | 0.5 | PASS |
| | Ant10 | 2462 | 18.08 | 2452.72 | 2470.80 | 0.5 | PASS |
| | Ant8 | 2462 | 17.24 | 2453.88 | 2471.12 | 0.5 | PASS |

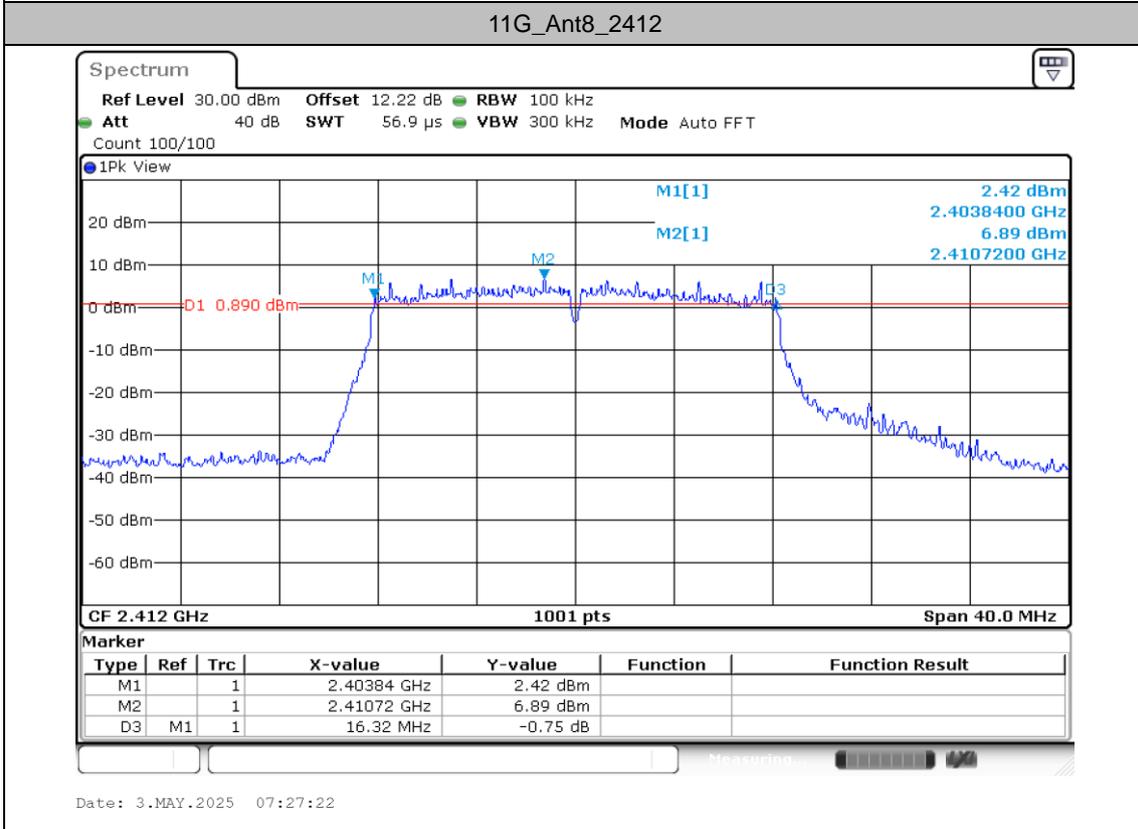
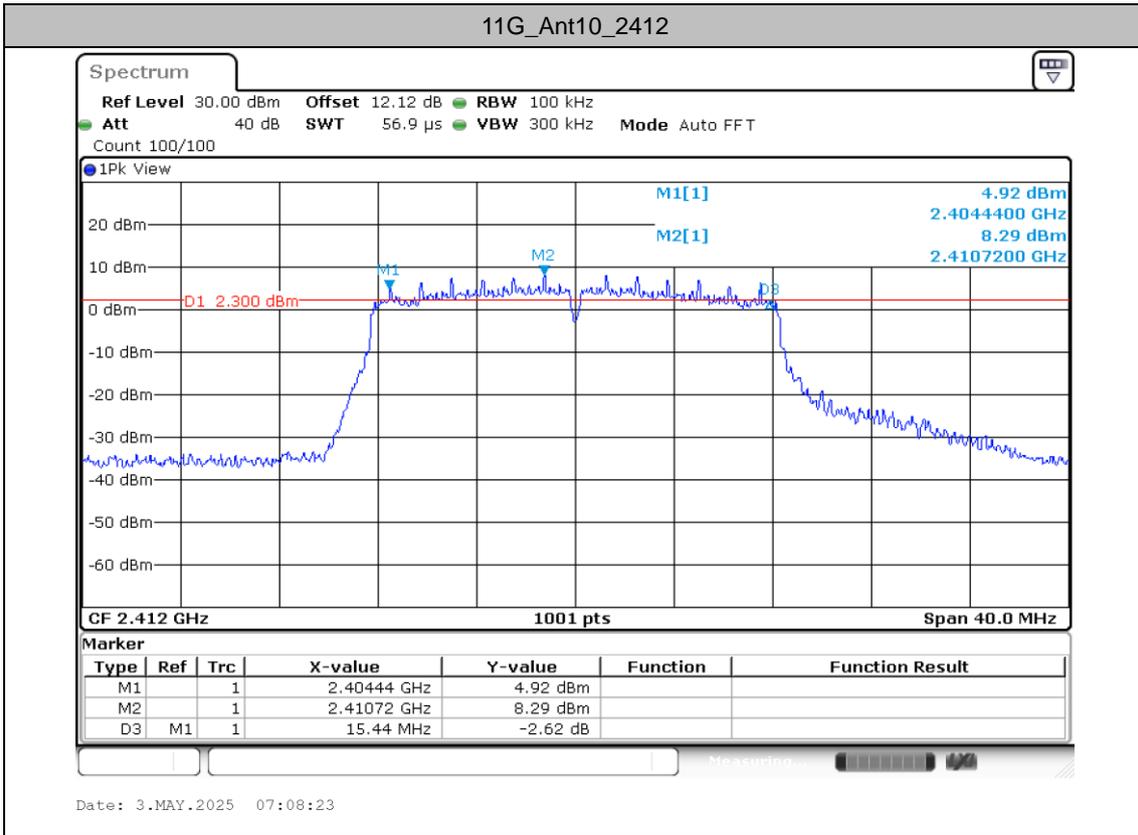


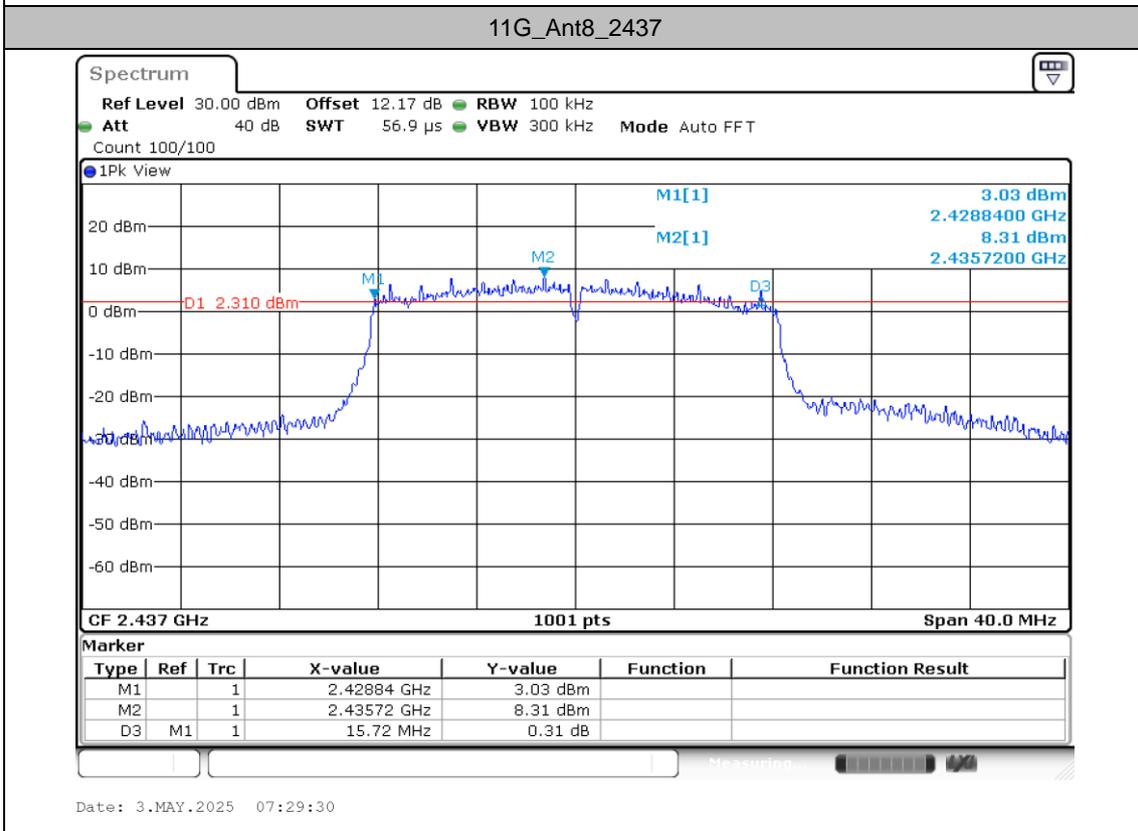
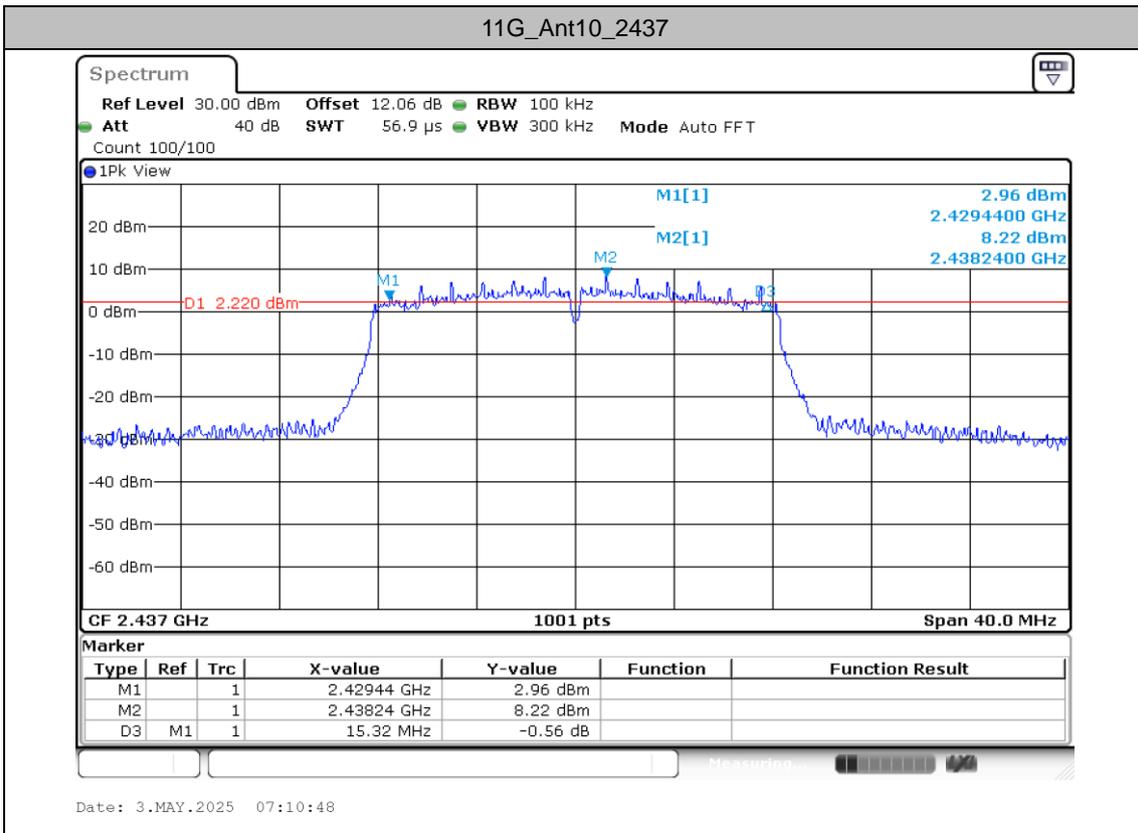
Test Graphs

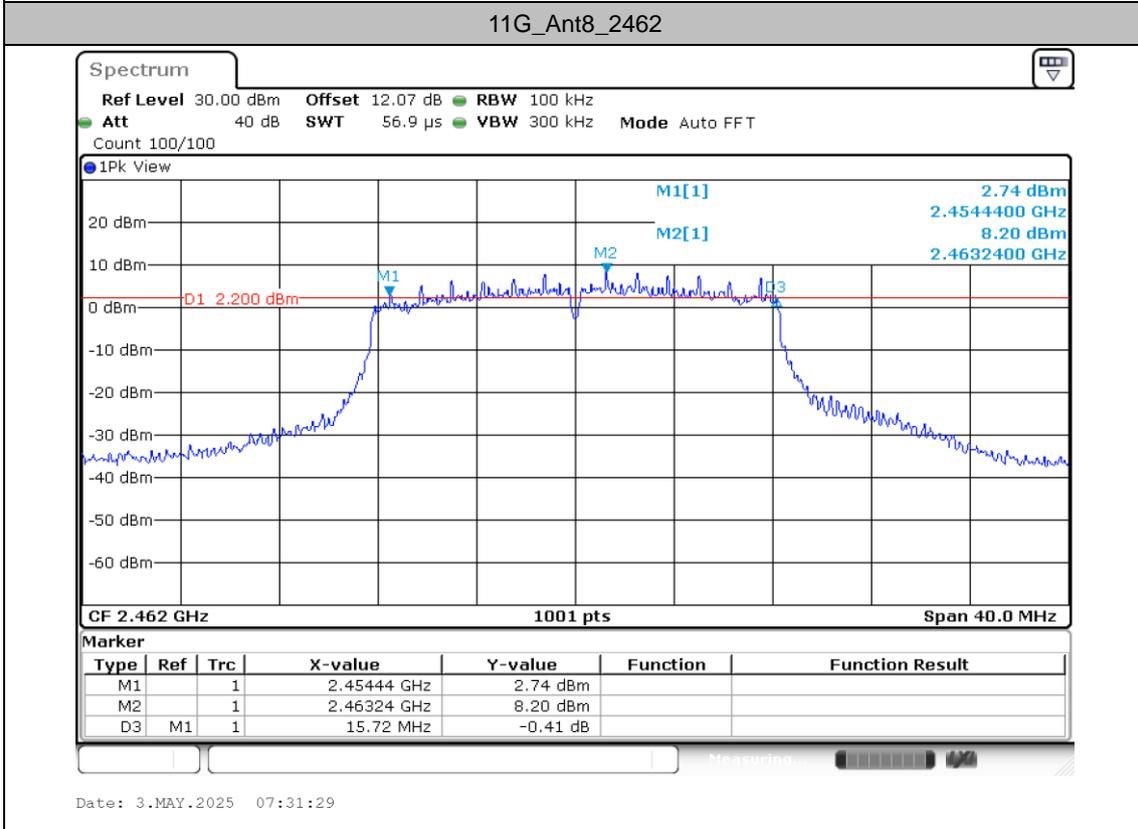
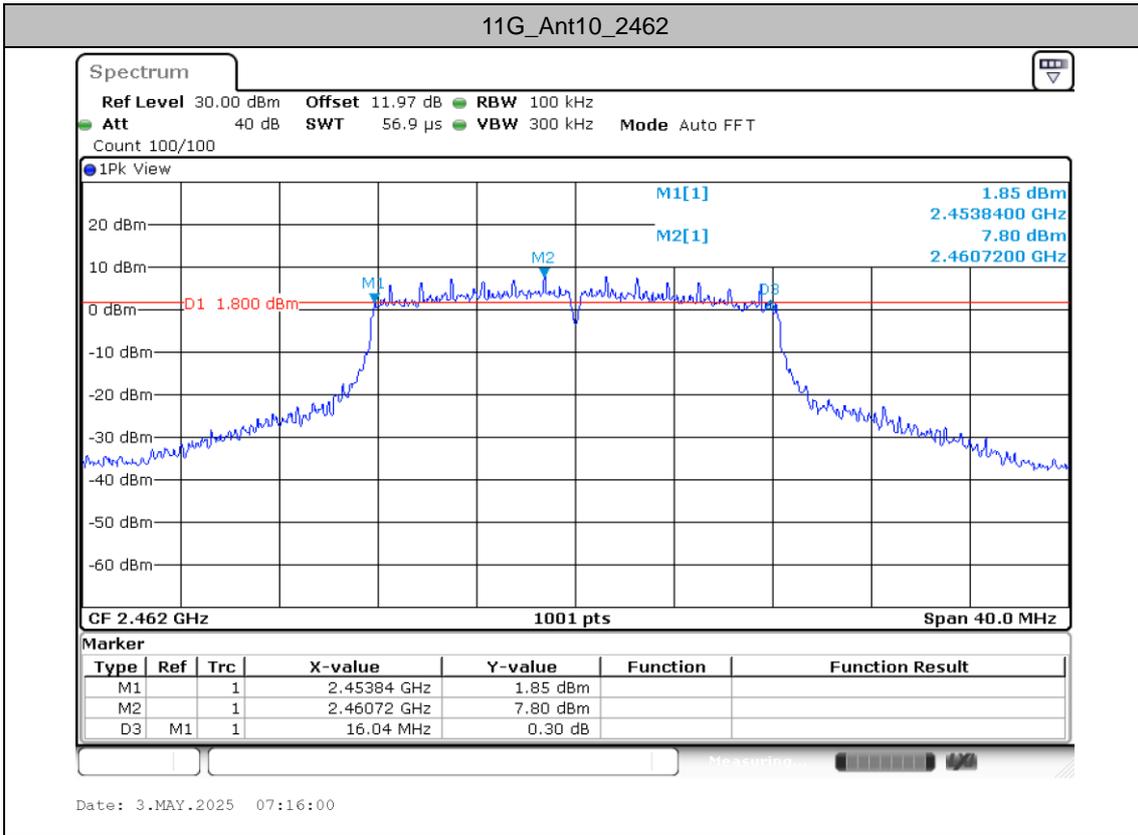


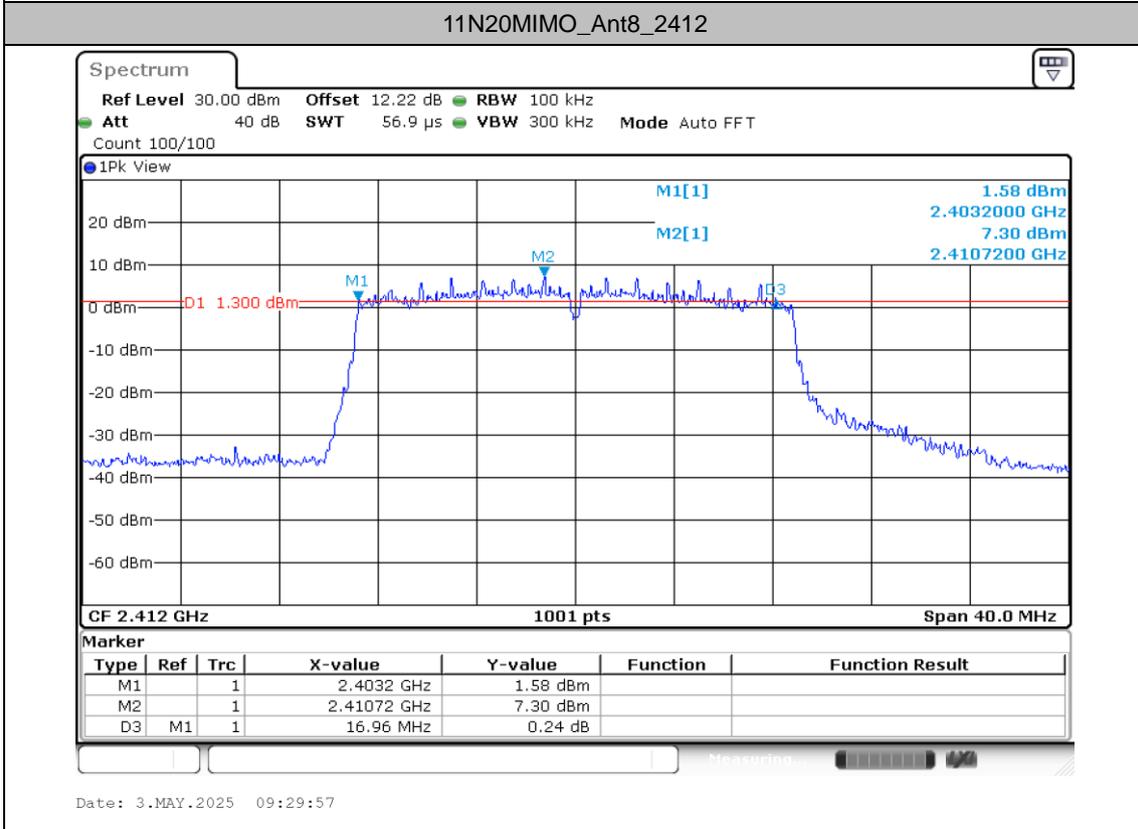
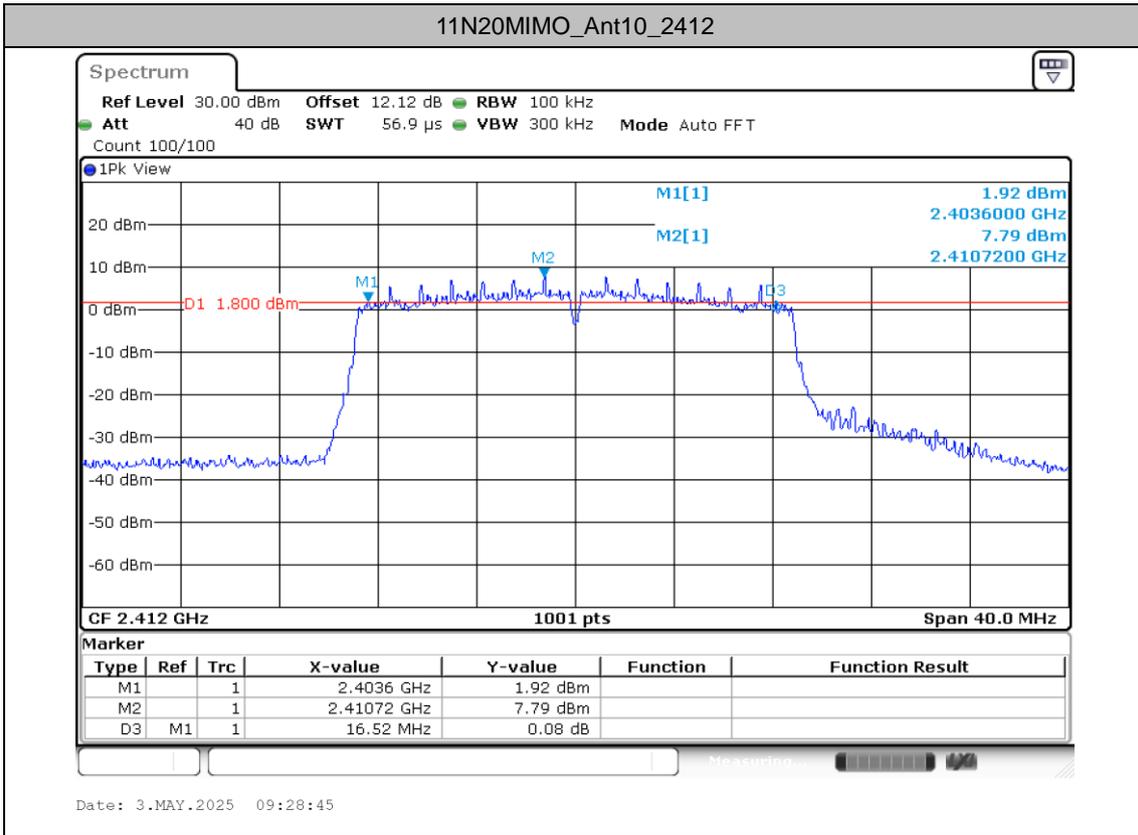


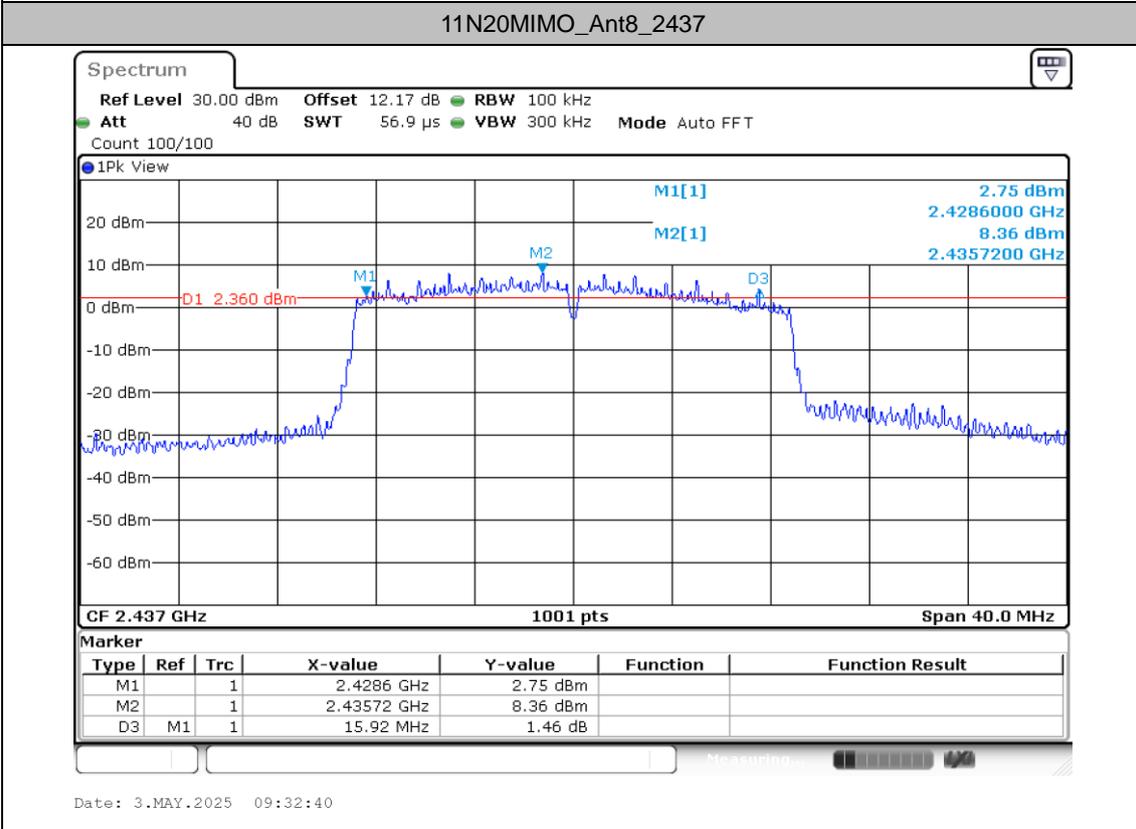
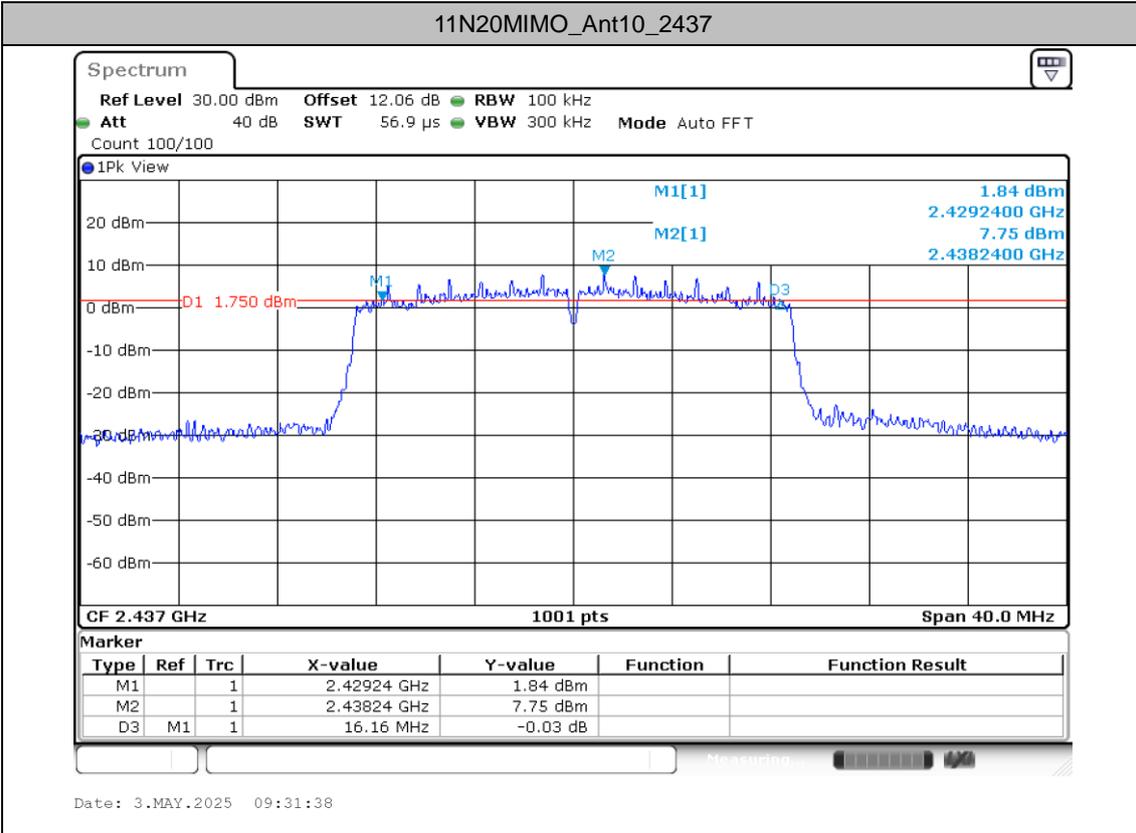


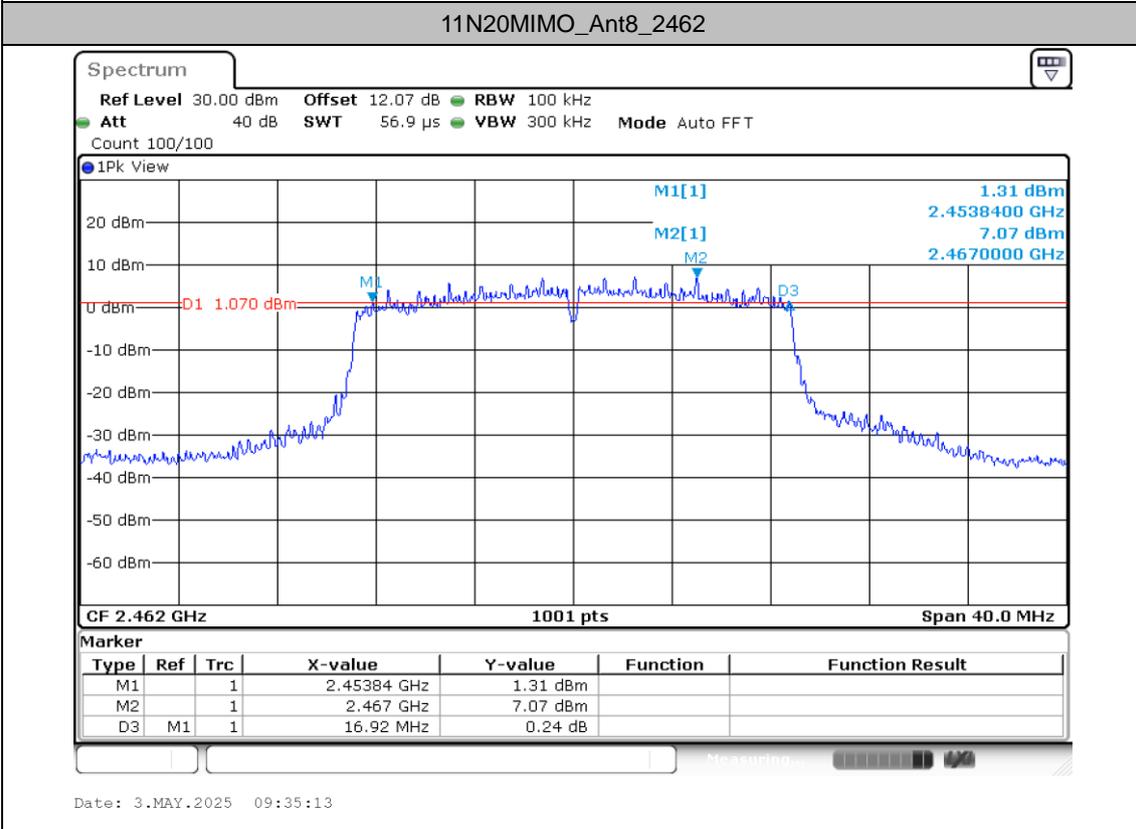
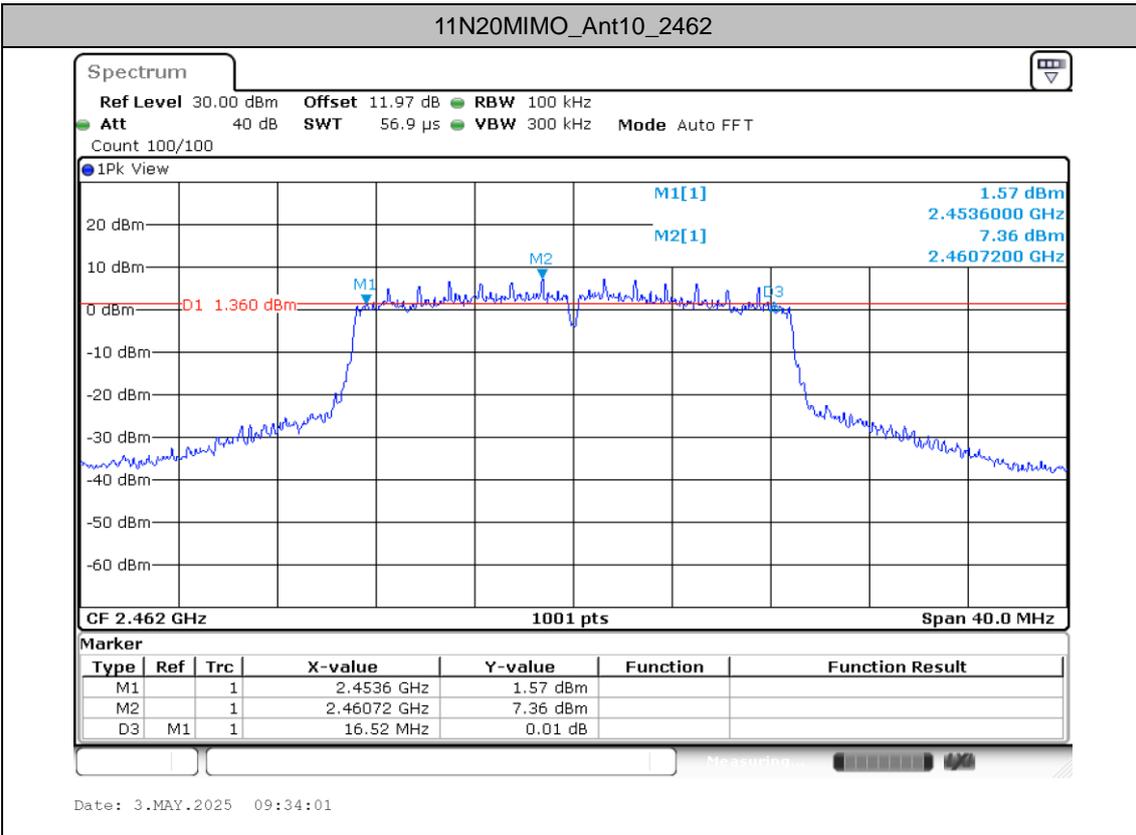


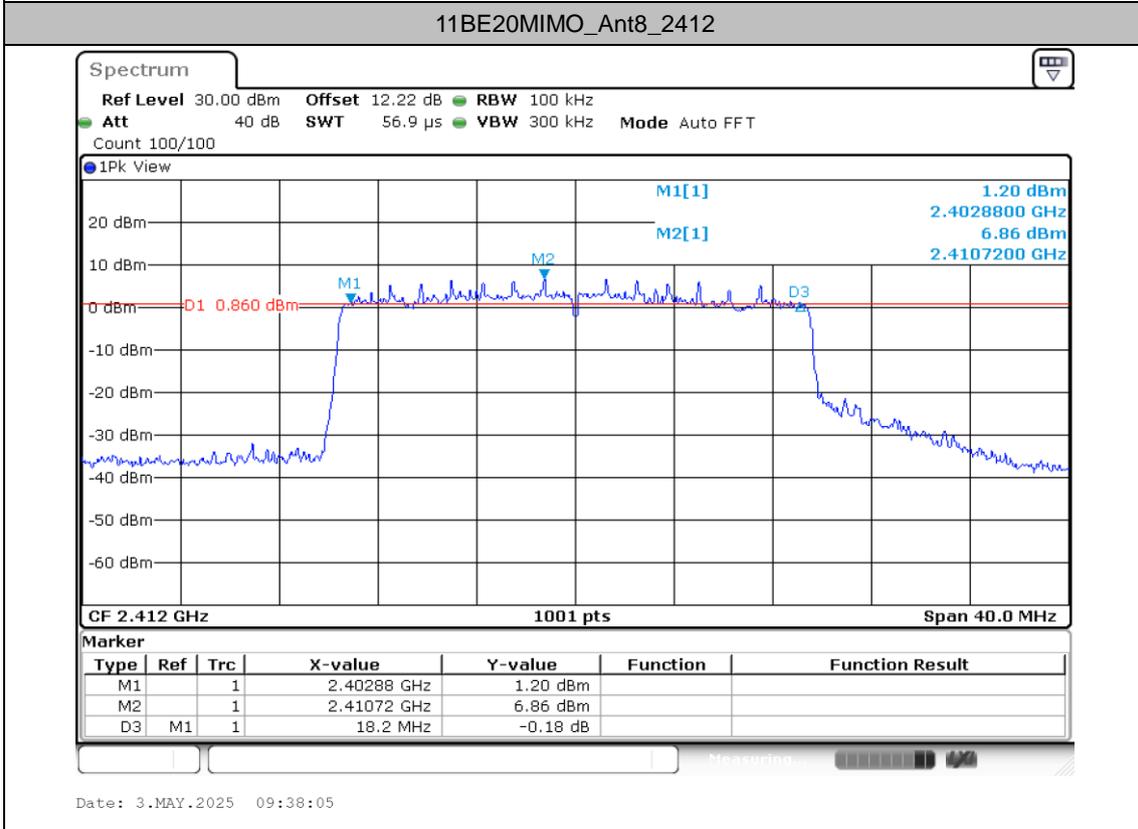
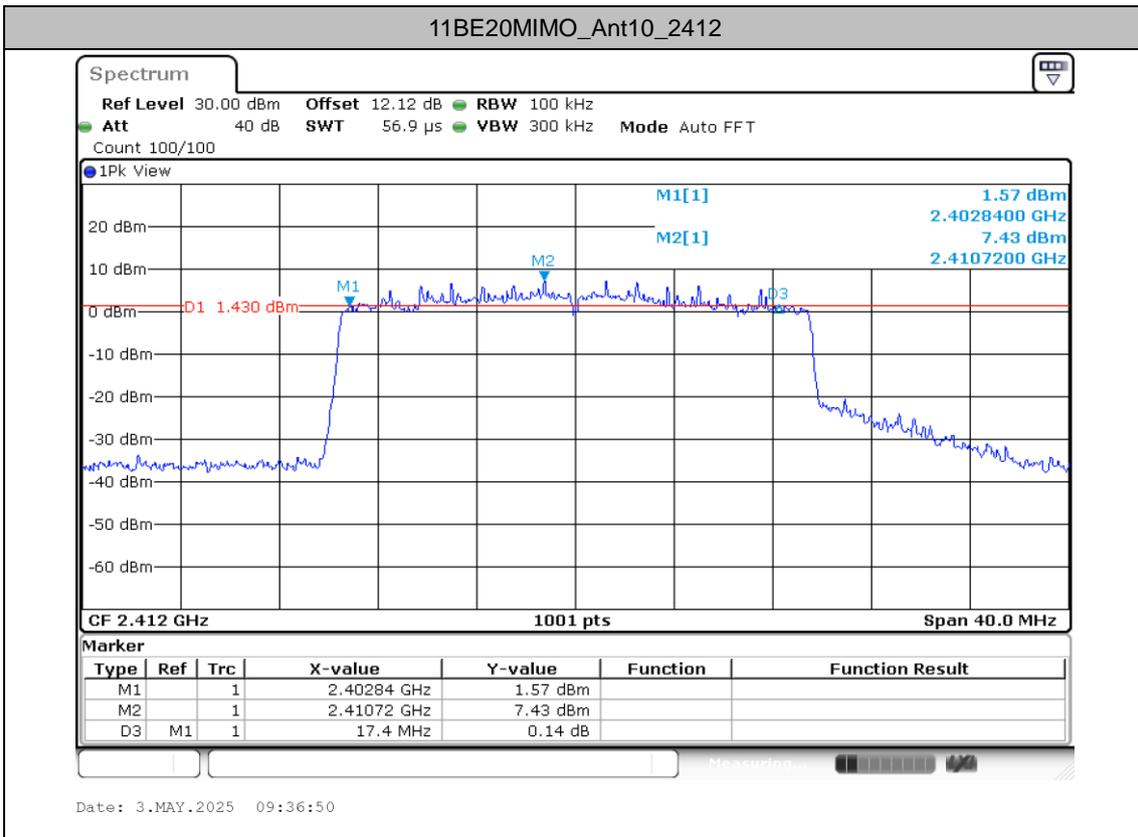


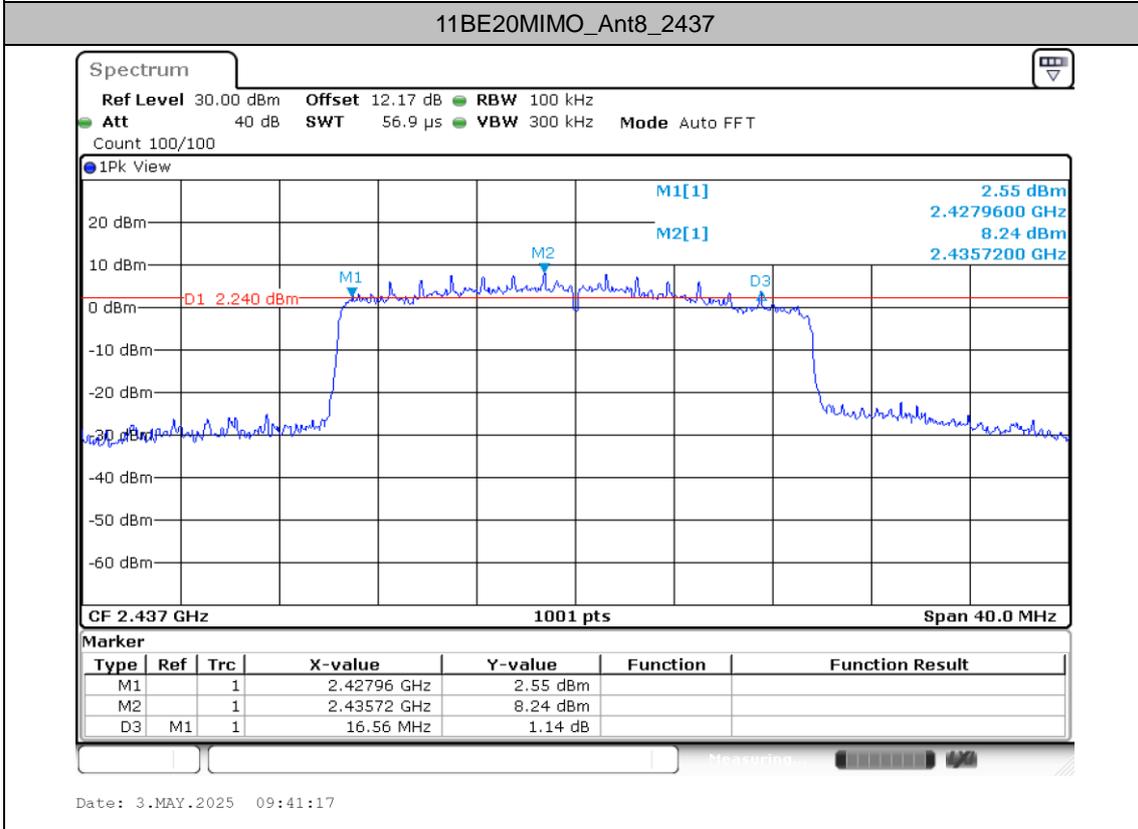
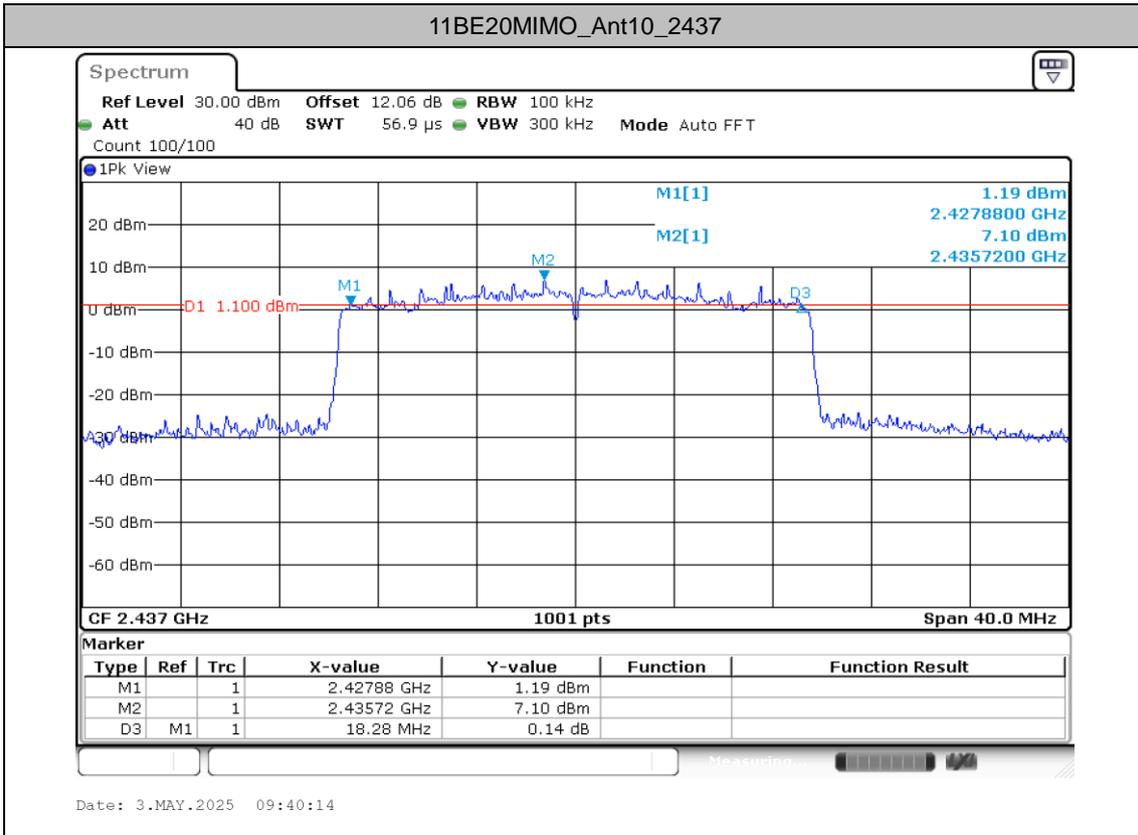


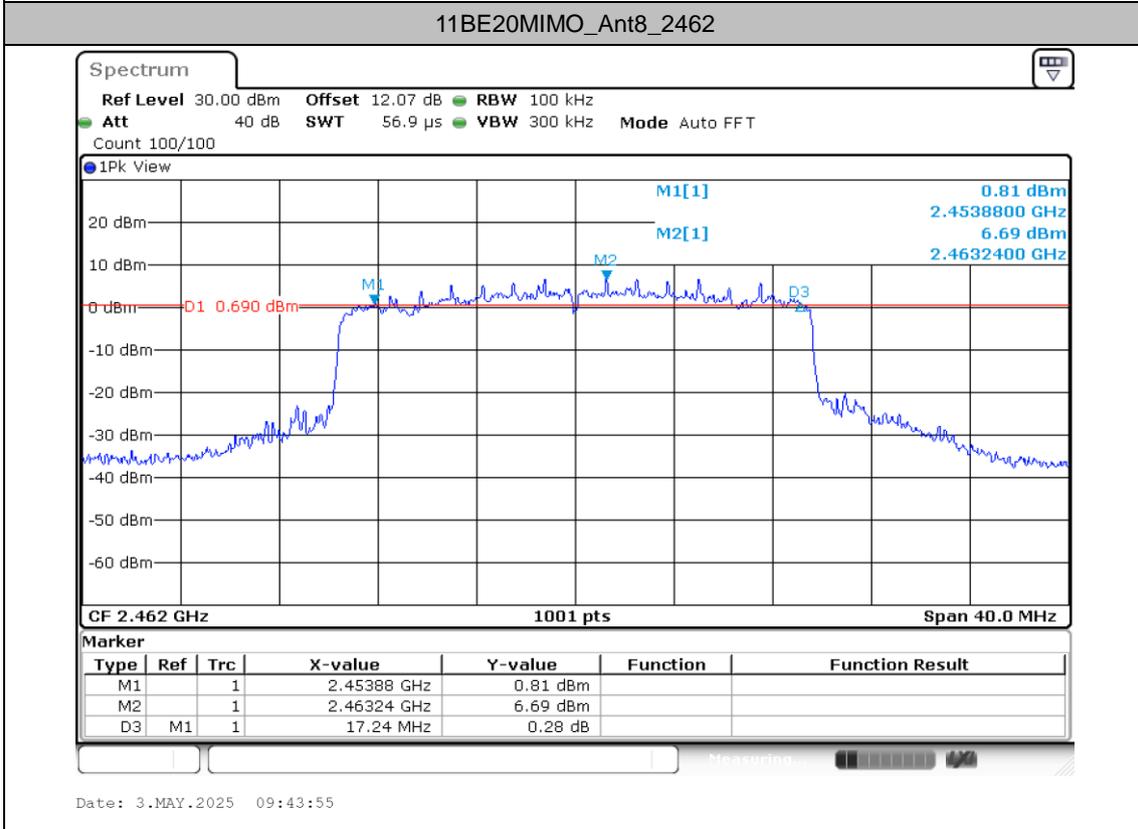
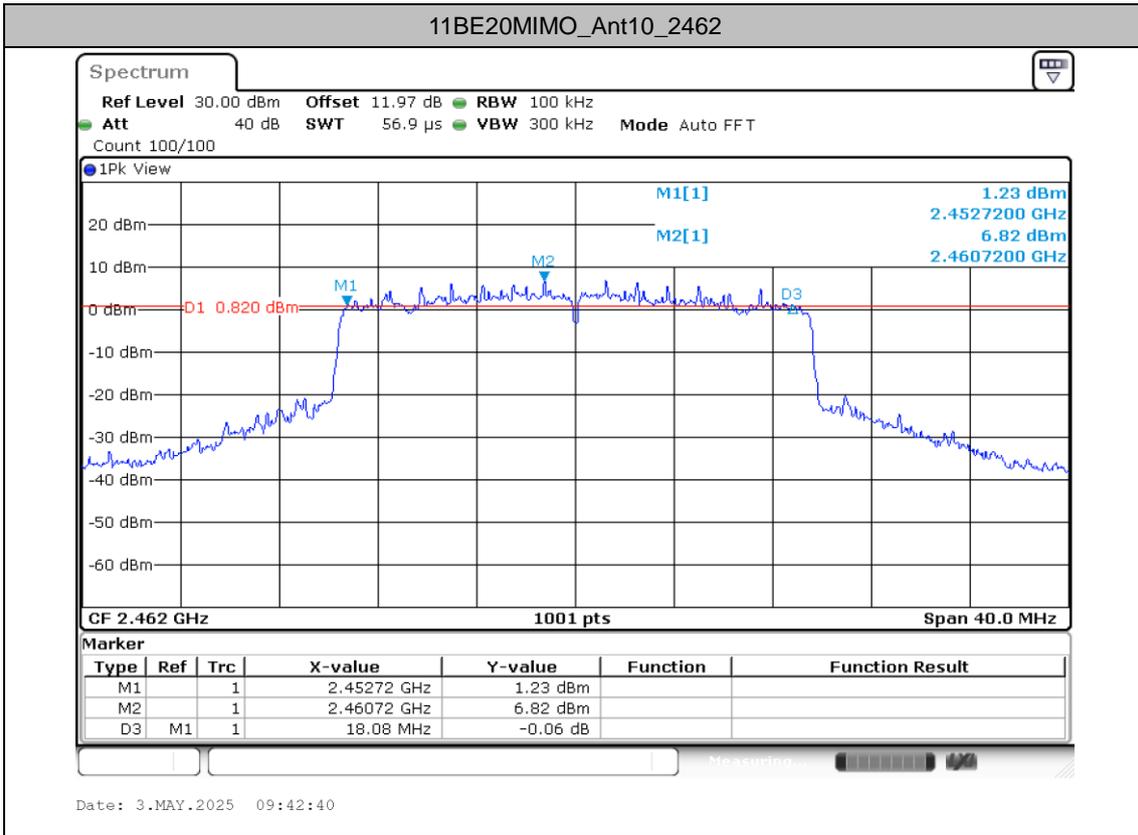














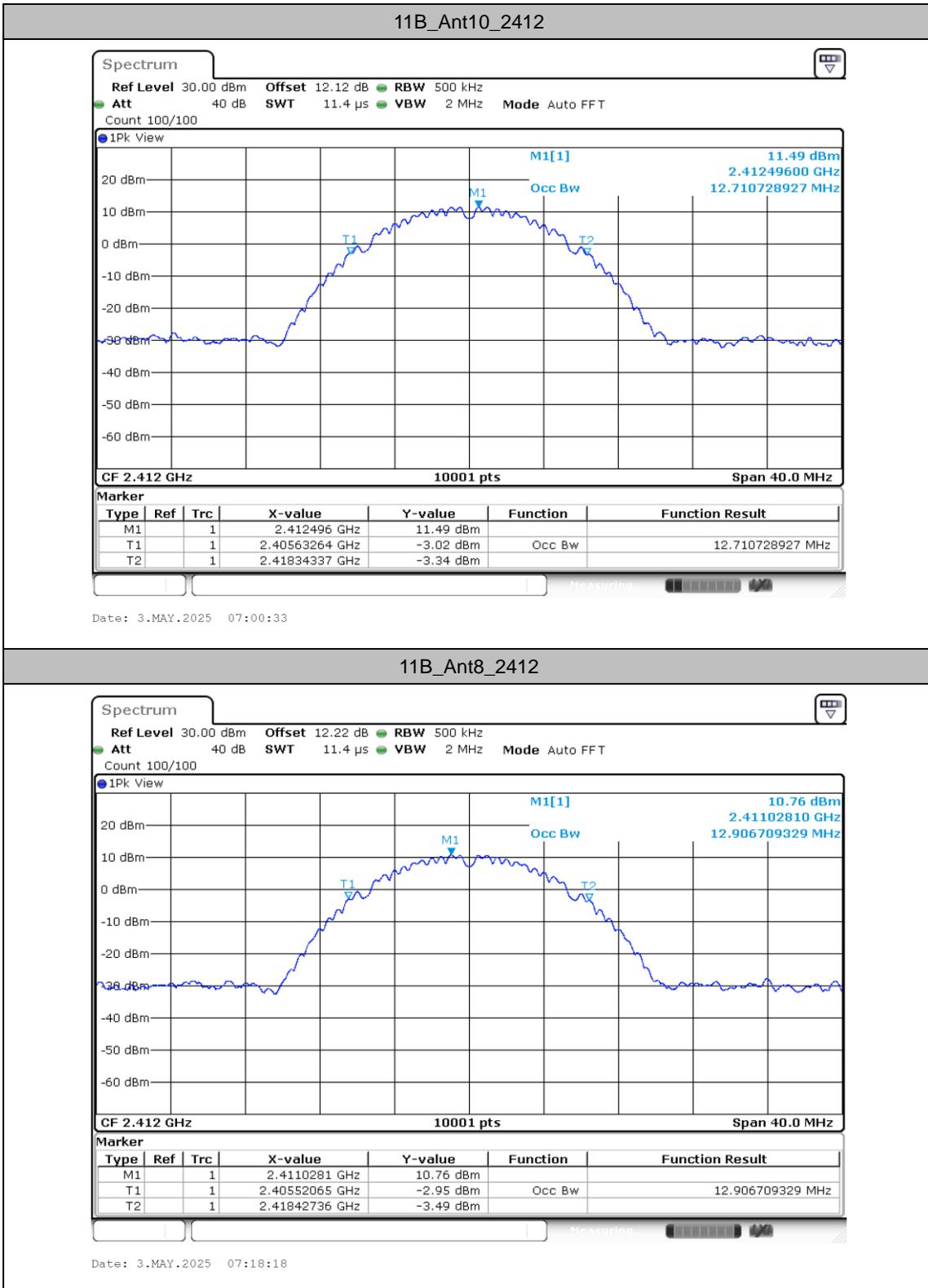
Occupied Channel Bandwidth

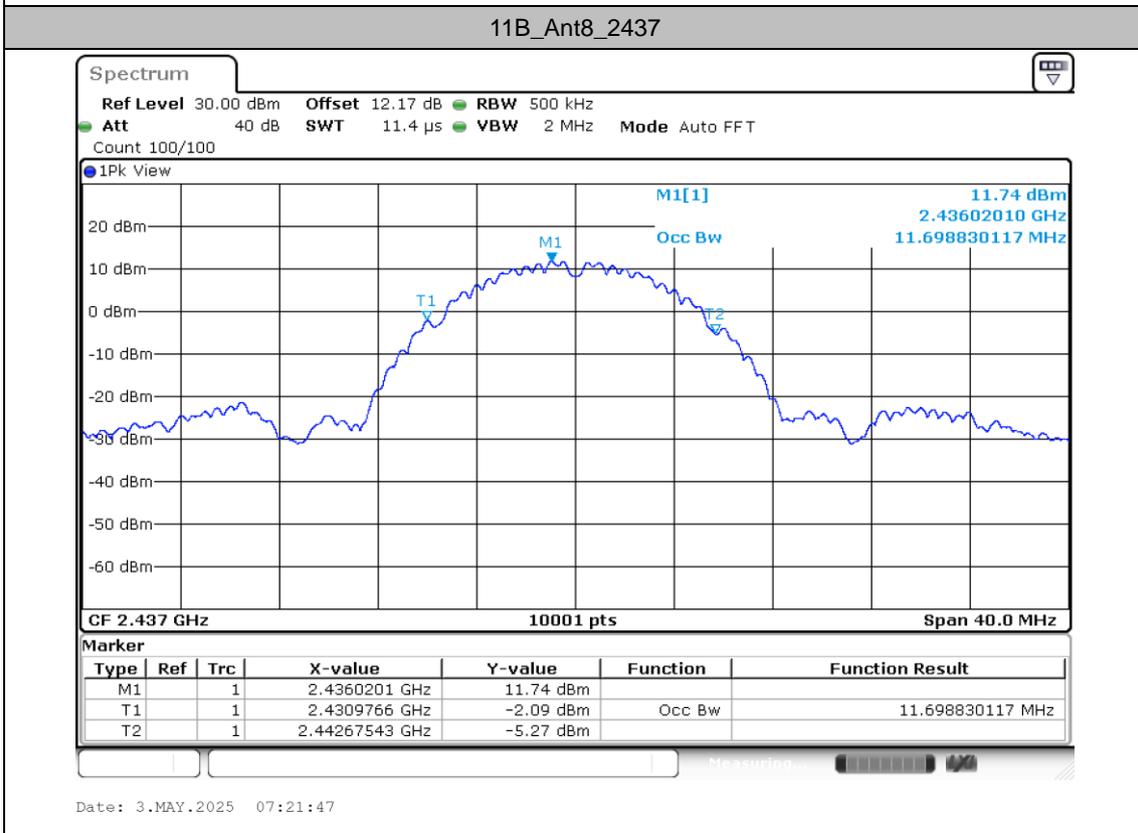
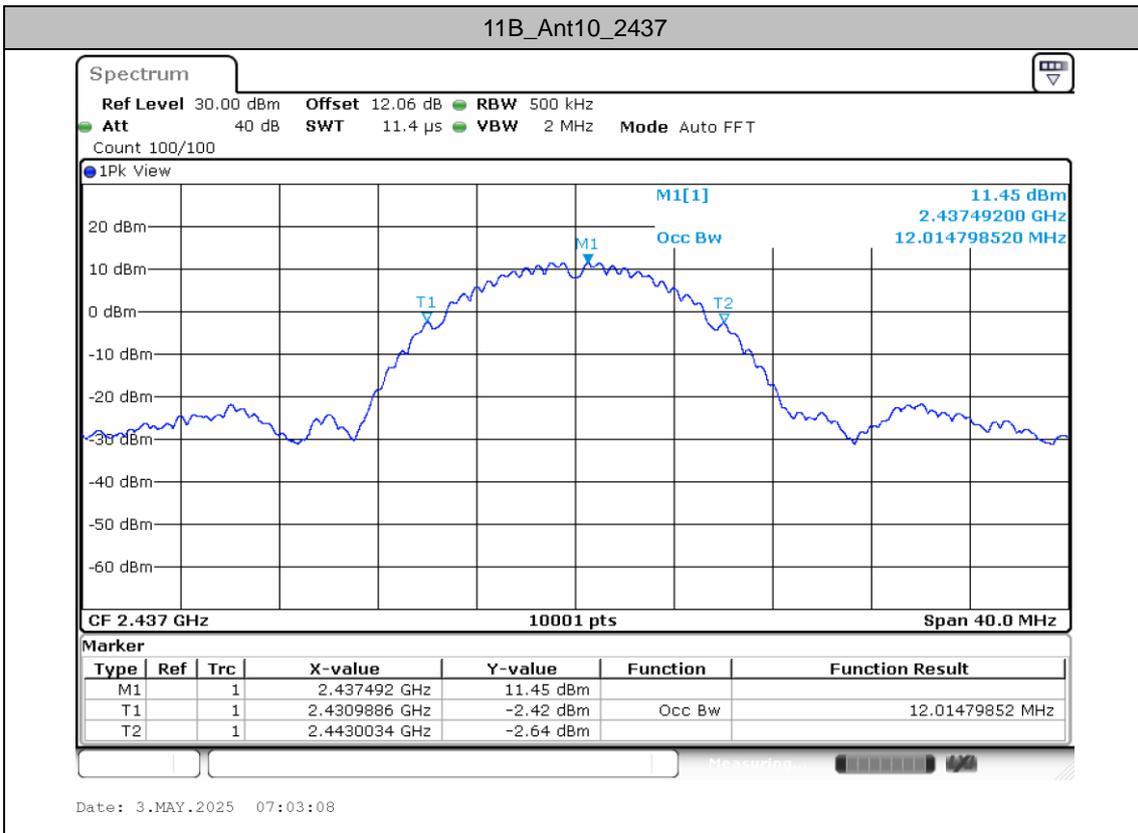
Test Result

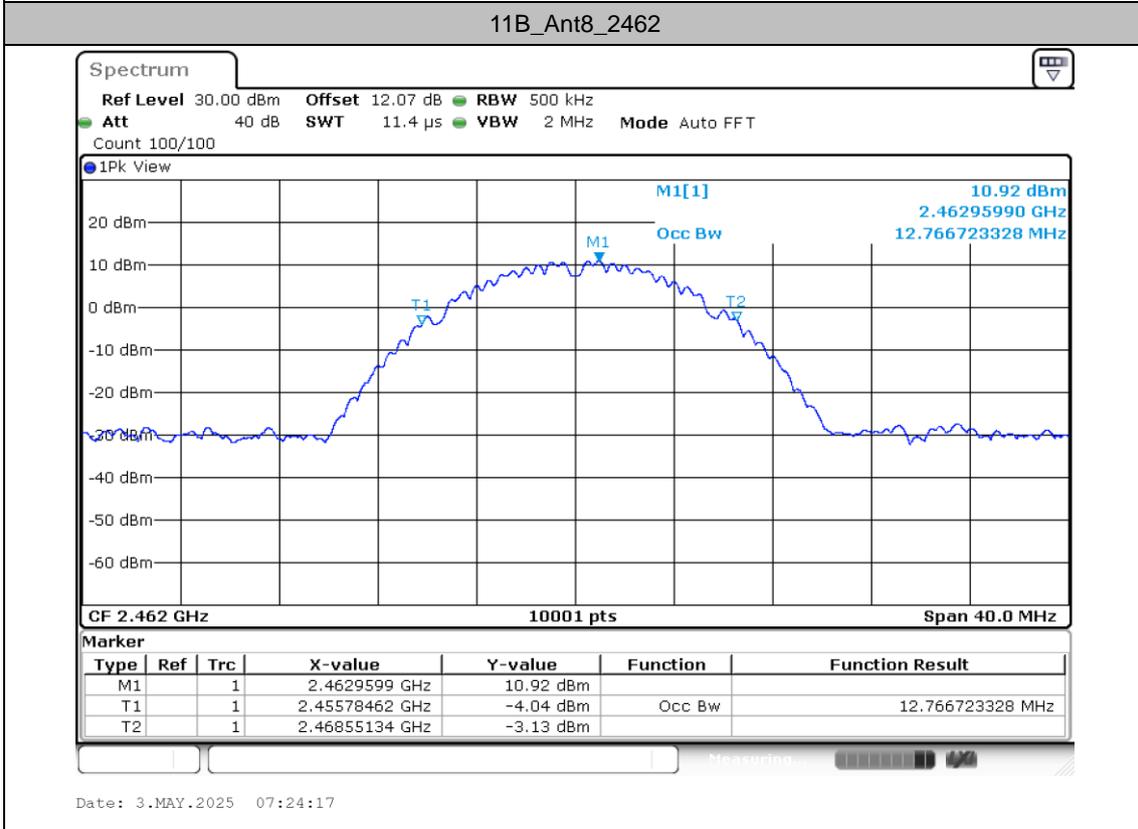
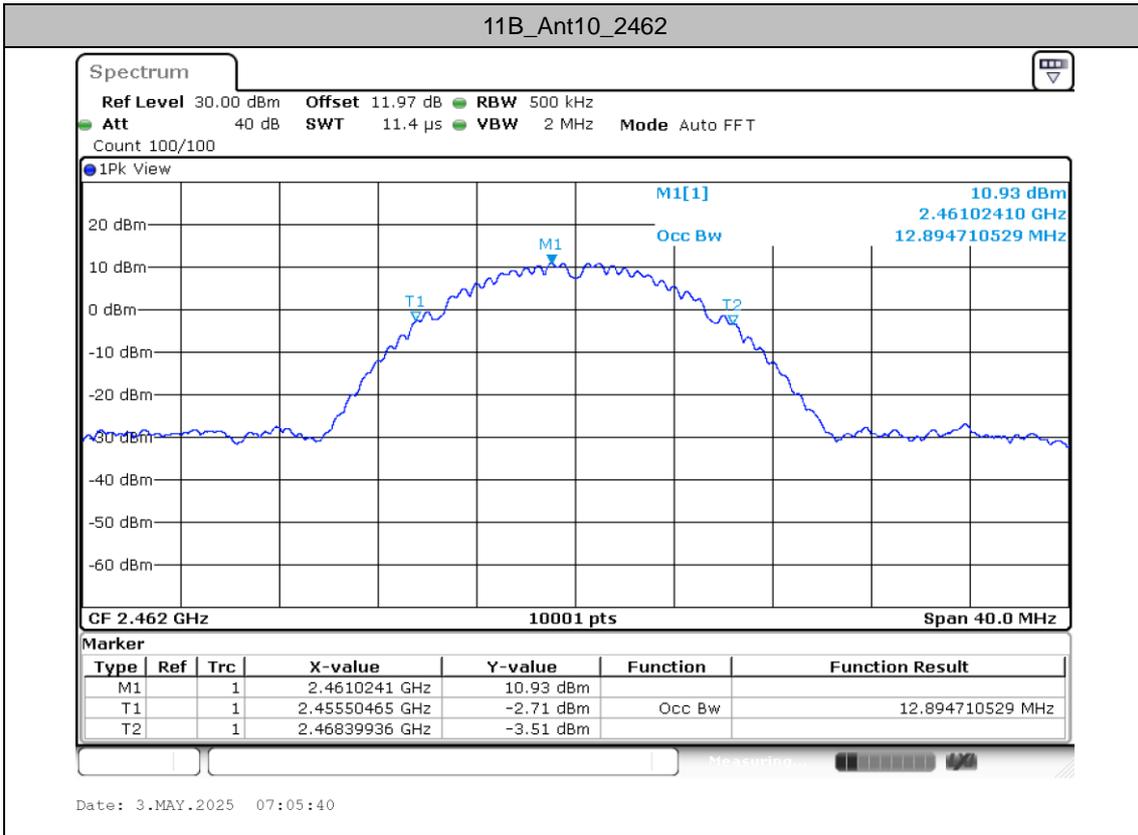
| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz] | FH[MHz] |
|------------|---------|-----------|-----------|-----------|-----------|
| 11B | Ant10 | 2412 | 12.711 | 2405.6326 | 2418.3434 |
| | Ant8 | 2412 | 12.907 | 2405.5206 | 2418.4274 |
| | Ant10 | 2437 | 12.015 | 2430.9886 | 2443.0034 |
| | Ant8 | 2437 | 11.699 | 2430.9766 | 2442.6754 |
| | Ant10 | 2462 | 12.895 | 2455.5046 | 2468.3994 |
| | Ant8 | 2462 | 12.767 | 2455.7846 | 2468.5513 |
| 11G | Ant10 | 2412 | 16.538 | 2403.7328 | 2420.2712 |
| | Ant8 | 2412 | 16.570 | 2403.7048 | 2420.2752 |
| | Ant10 | 2437 | 16.582 | 2428.7368 | 2445.3192 |
| | Ant8 | 2437 | 16.550 | 2428.6368 | 2445.1872 |
| | Ant10 | 2462 | 16.602 | 2453.6888 | 2470.2912 |
| | Ant8 | 2462 | 16.538 | 2453.7928 | 2470.3312 |
| 11N20MIMO | Ant10 | 2412 | 17.542 | 2403.2289 | 2420.7711 |
| | Ant8 | 2412 | 17.506 | 2403.2129 | 2420.7191 |
| | Ant10 | 2437 | 17.618 | 2428.2049 | 2445.8231 |
| | Ant8 | 2437 | 17.450 | 2428.1769 | 2445.6271 |
| | Ant10 | 2462 | 17.654 | 2453.1369 | 2470.7911 |
| | Ant8 | 2462 | 17.482 | 2453.3169 | 2470.7991 |
| 11BE20MIMO | Ant10 | 2412 | 18.794 | 2402.5729 | 2421.3671 |
| | Ant8 | 2412 | 18.938 | 2402.5209 | 2421.4591 |
| | Ant10 | 2437 | 18.890 | 2427.5569 | 2446.4471 |
| | Ant8 | 2437 | 18.826 | 2427.5049 | 2446.3311 |
| | Ant10 | 2462 | 18.906 | 2452.5249 | 2471.4311 |
| | Ant8 | 2462 | 18.854 | 2452.6049 | 2471.4591 |

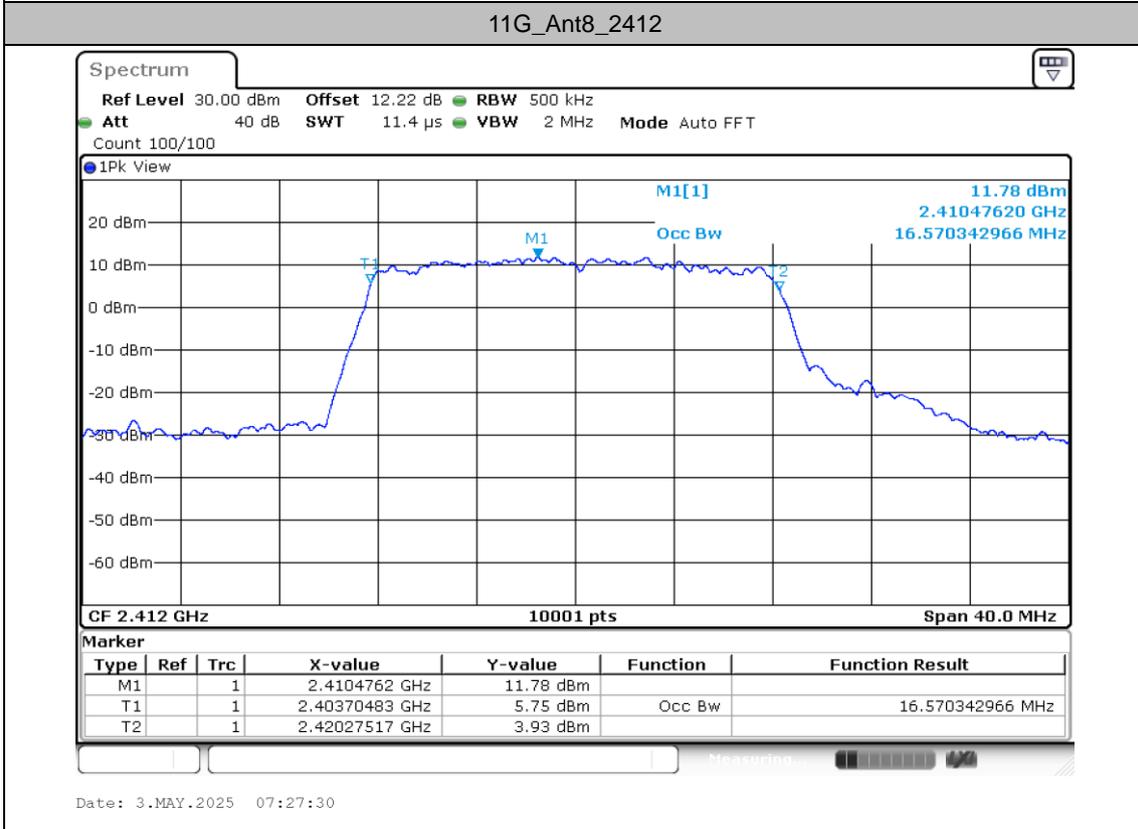
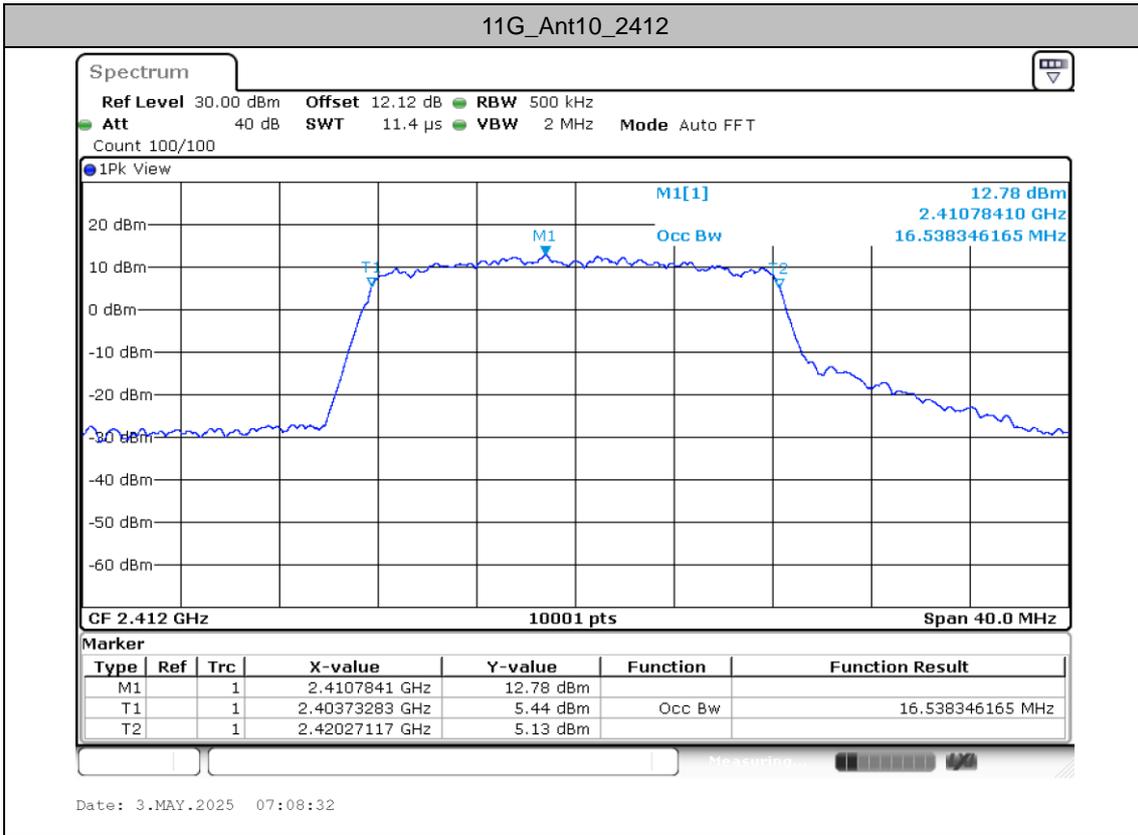


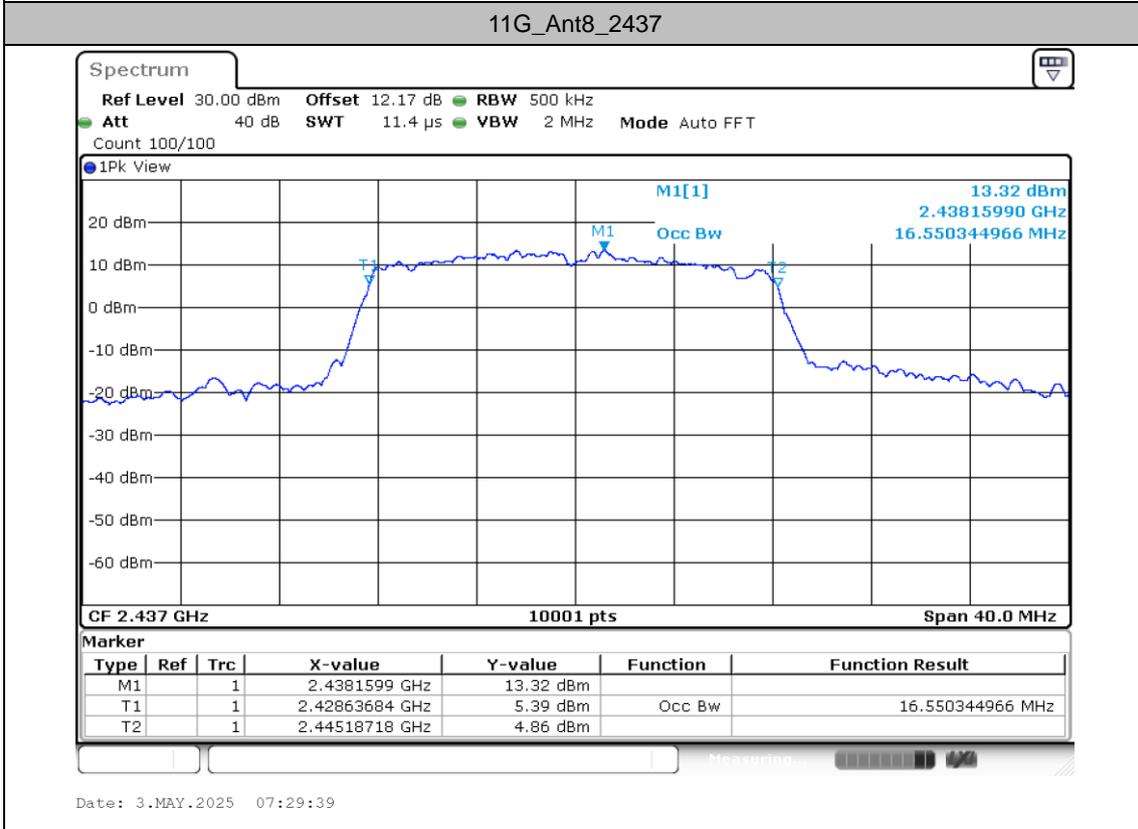
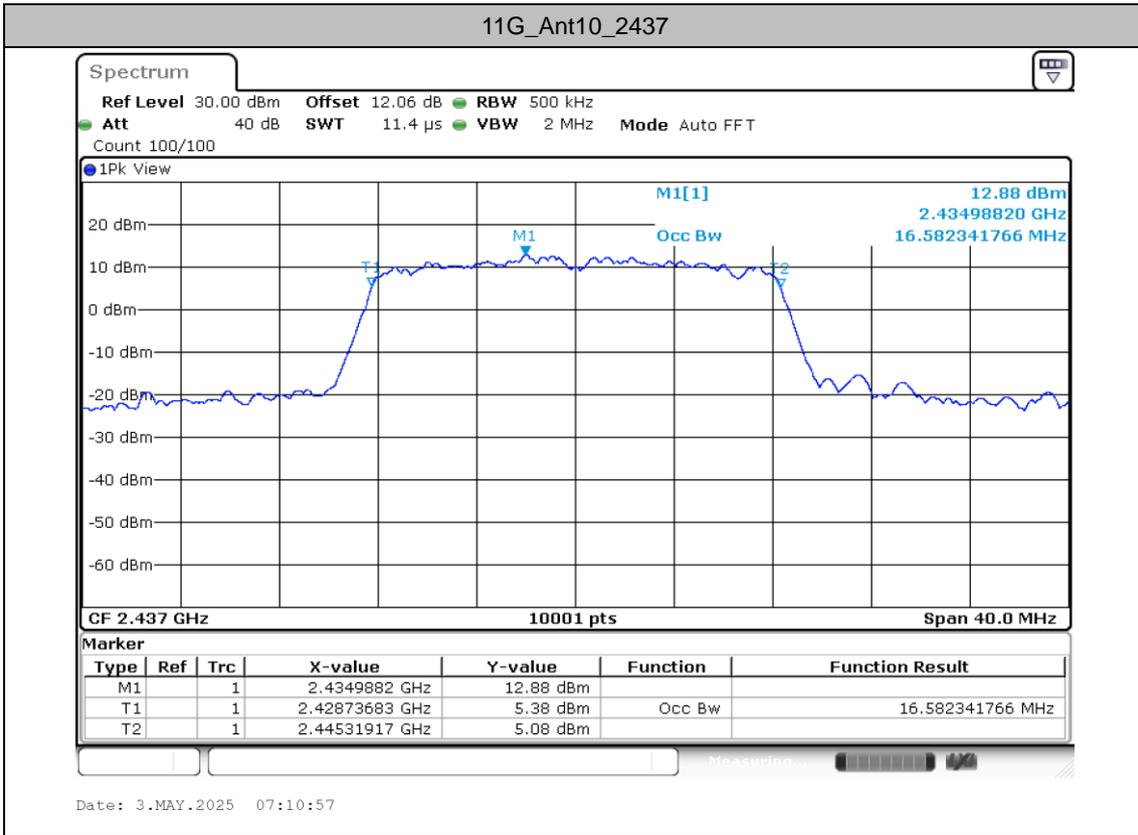
Test Graphs

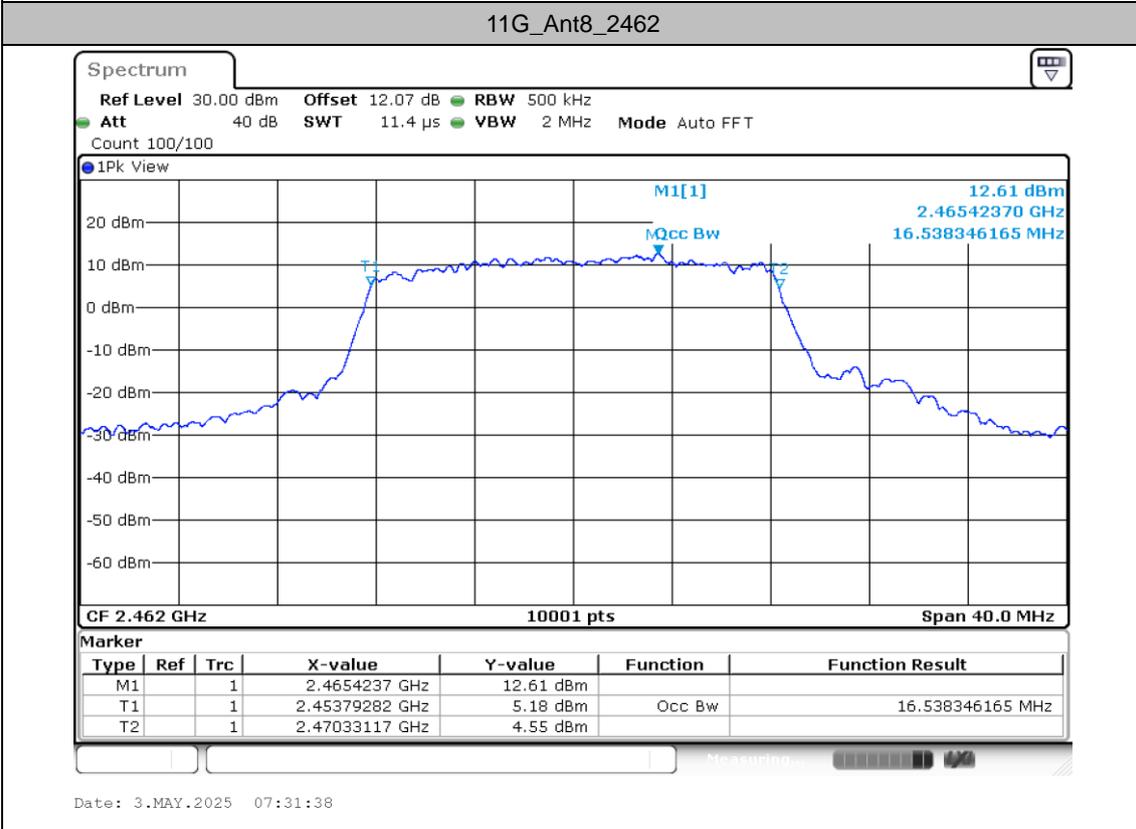
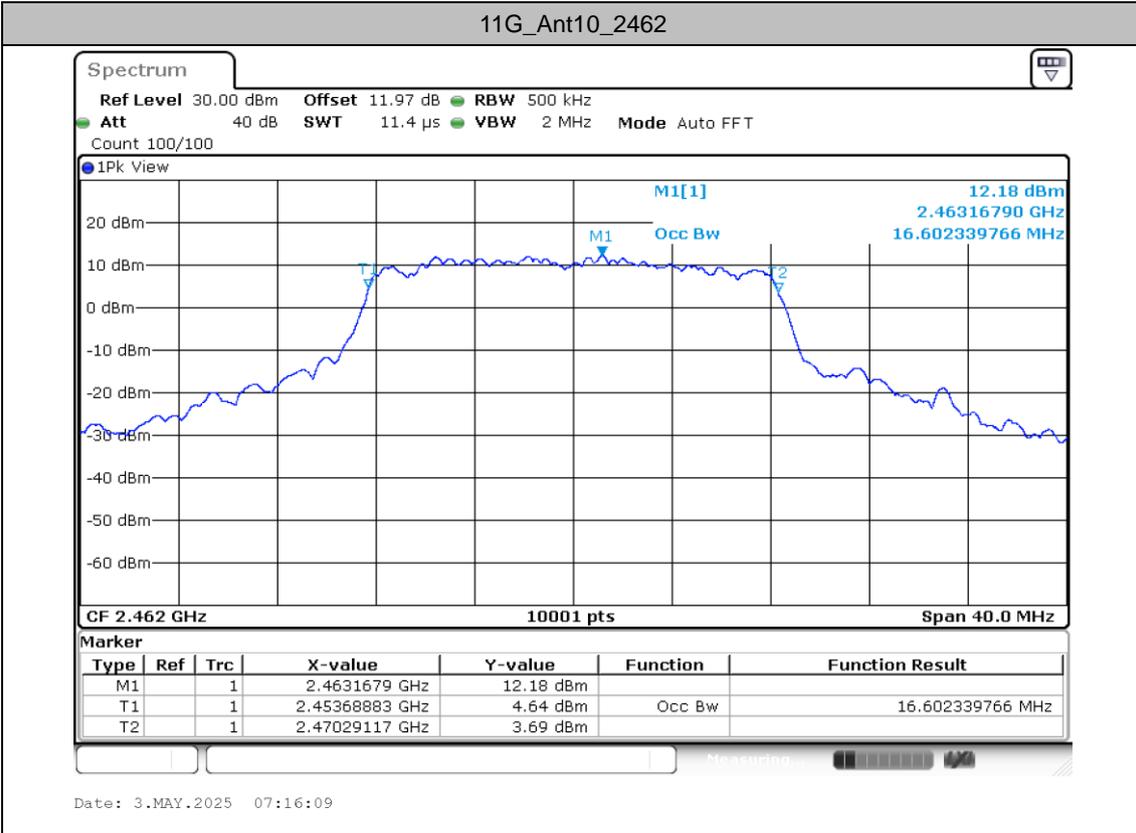


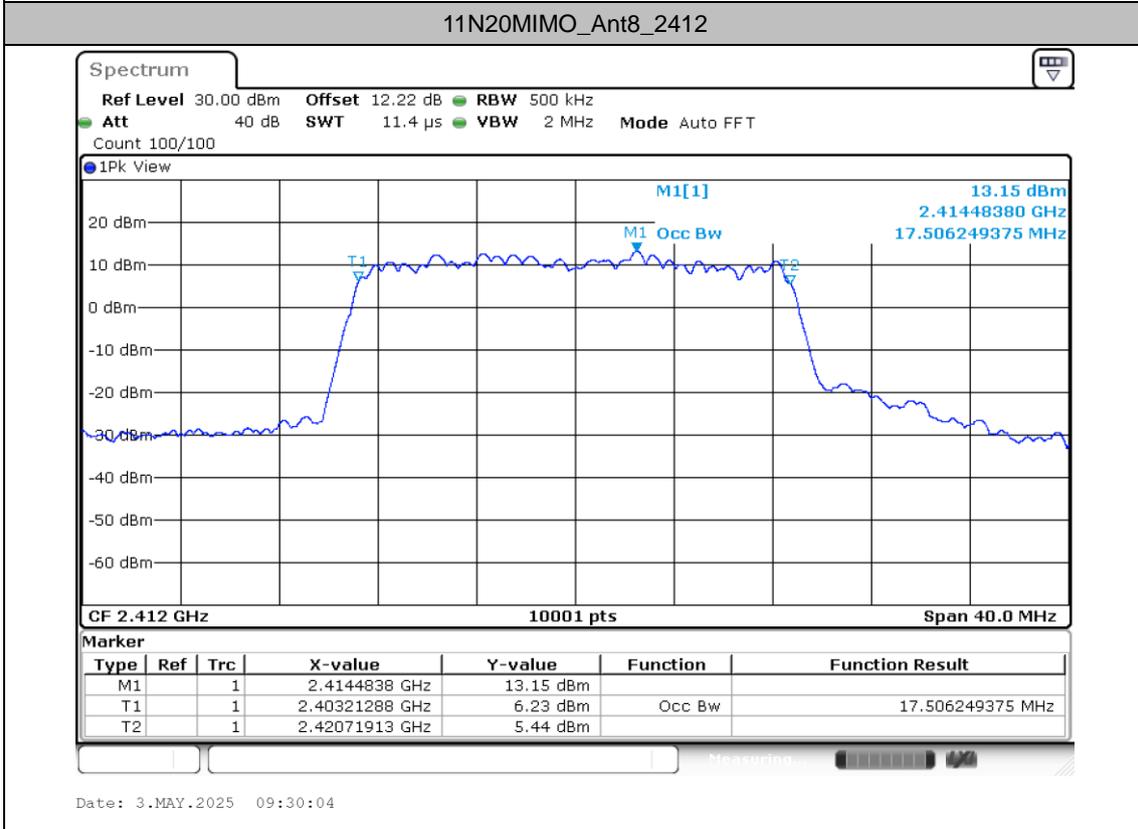
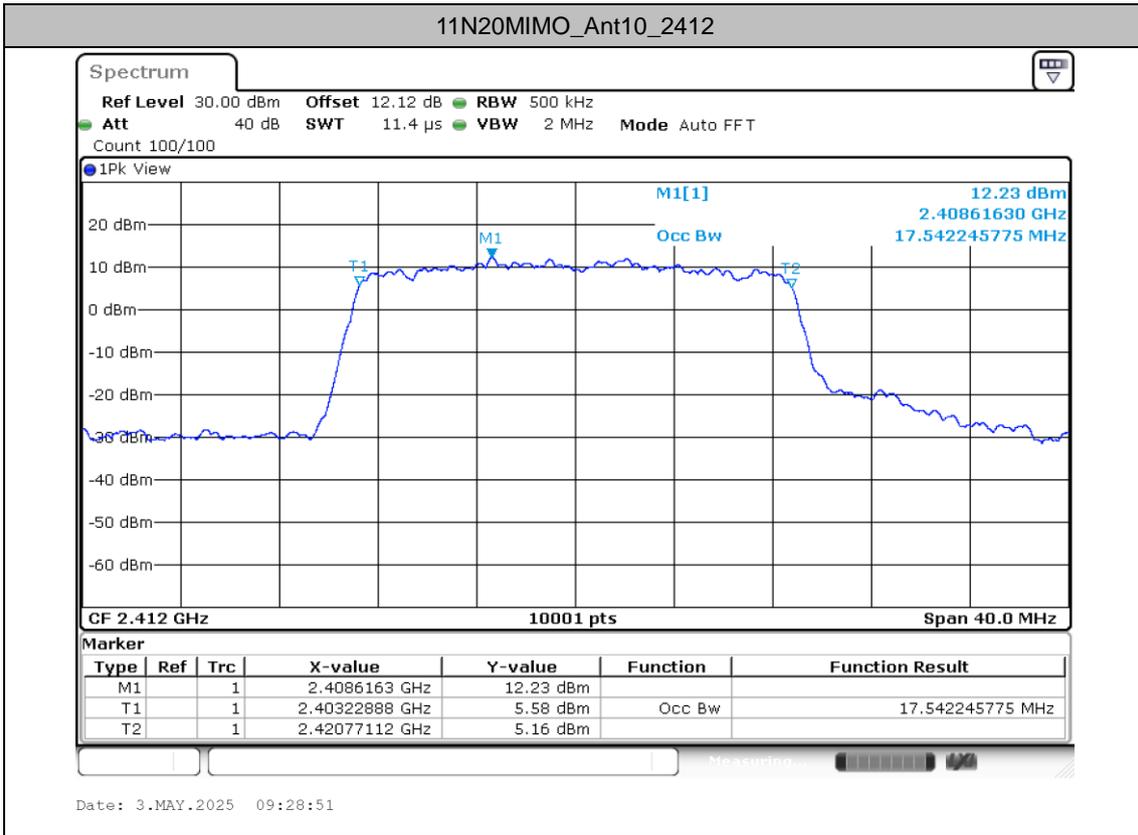


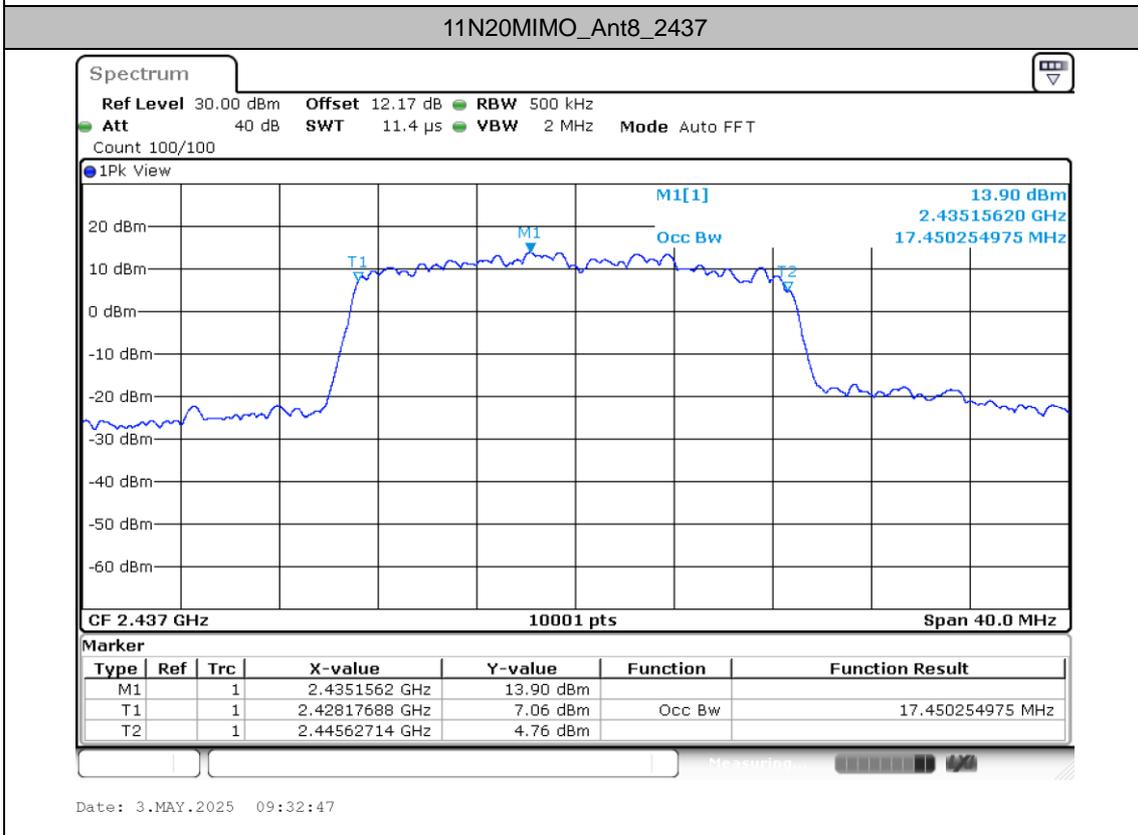
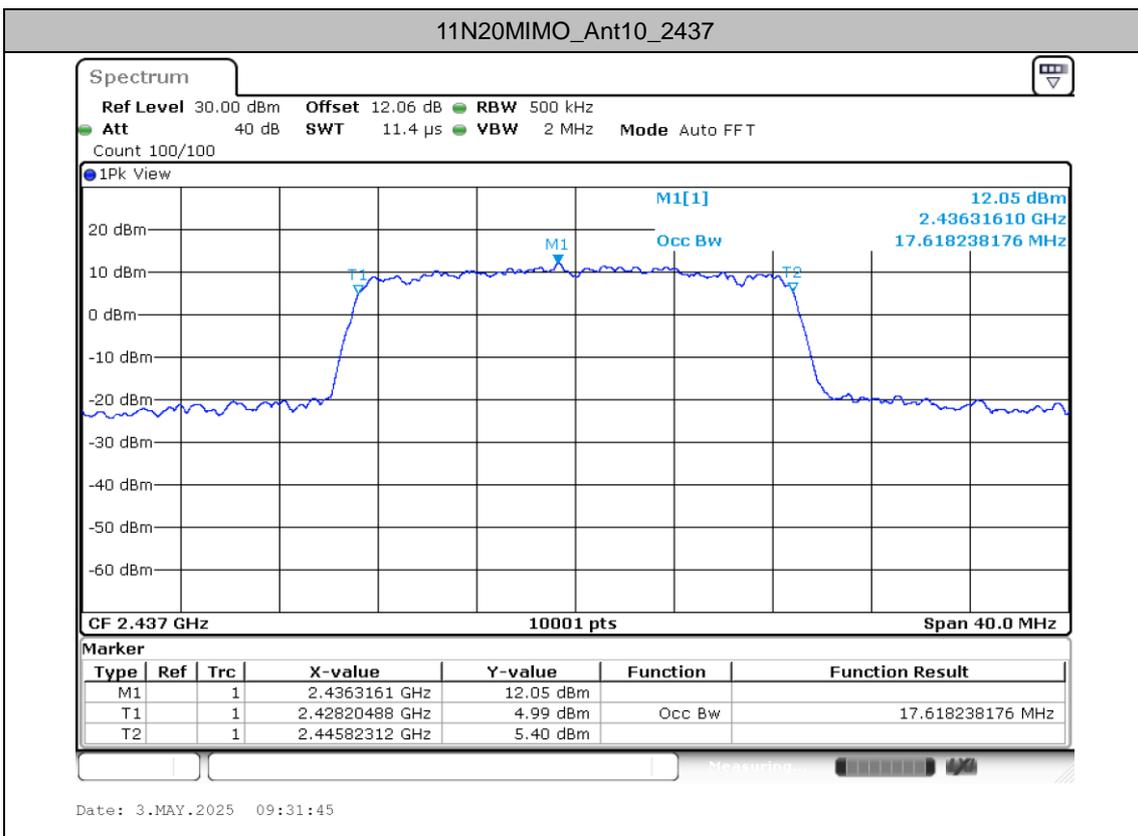


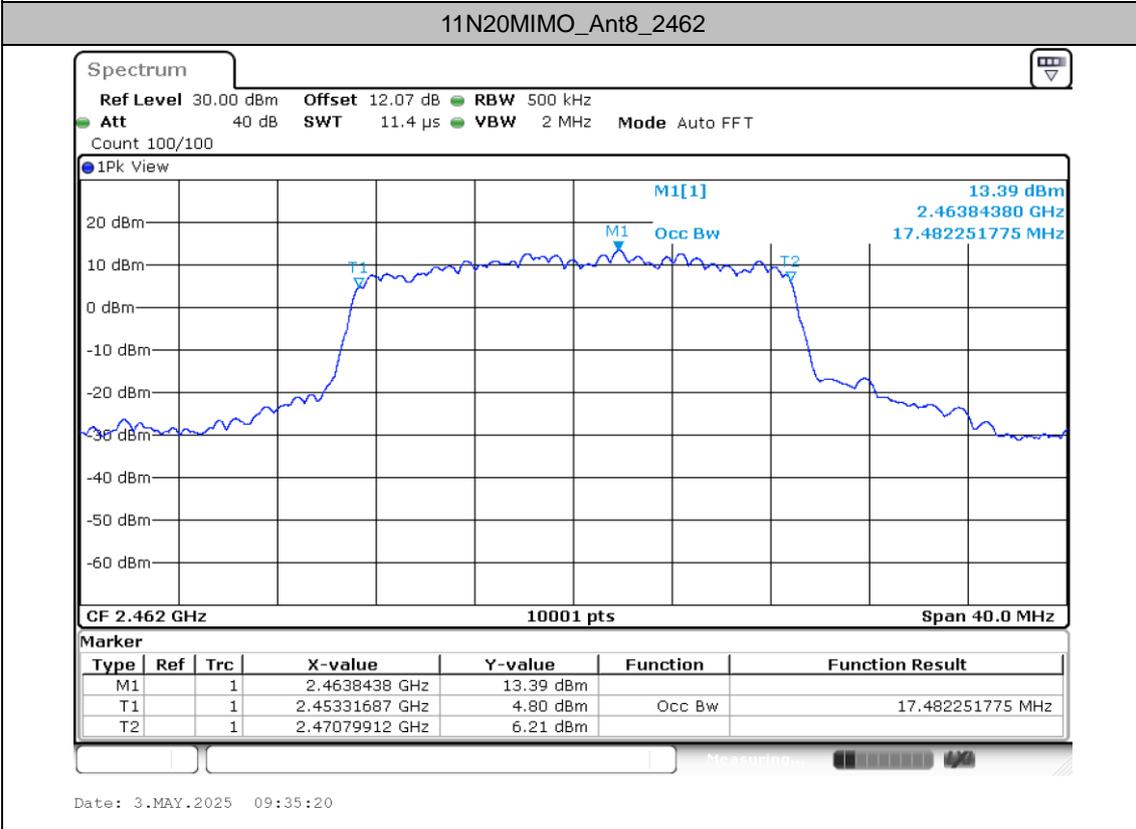
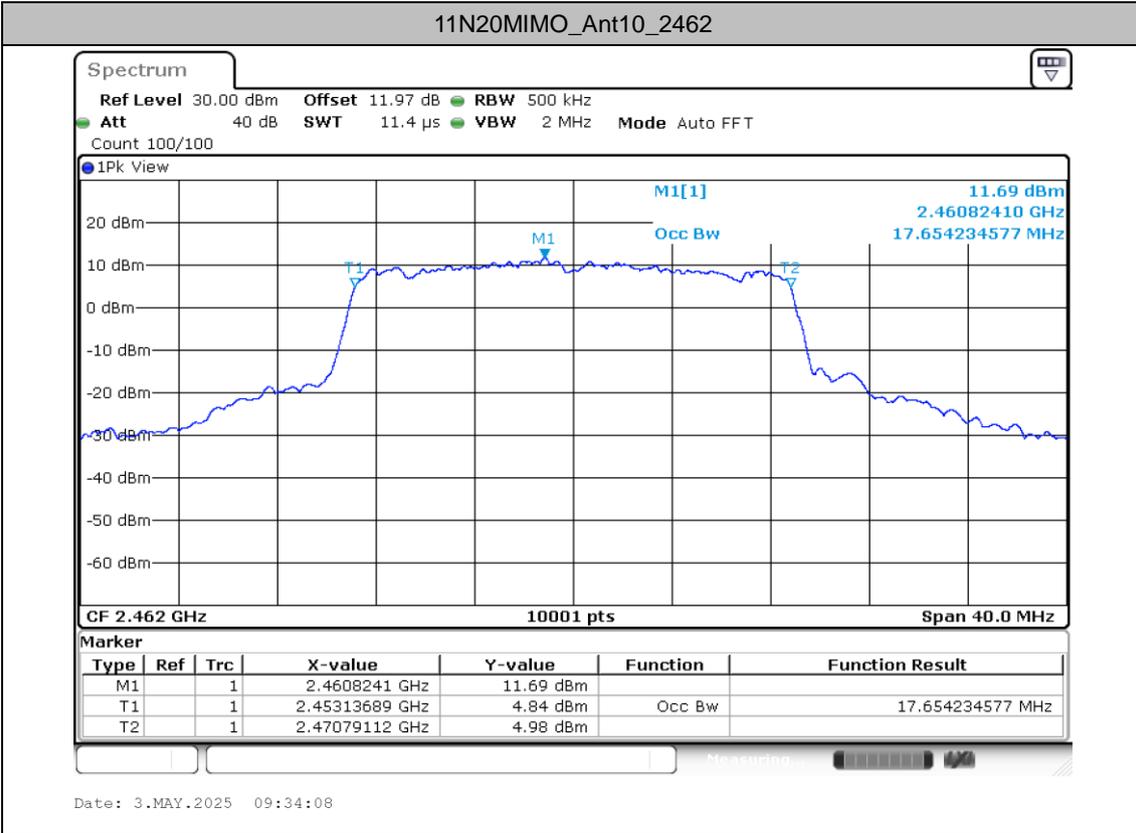


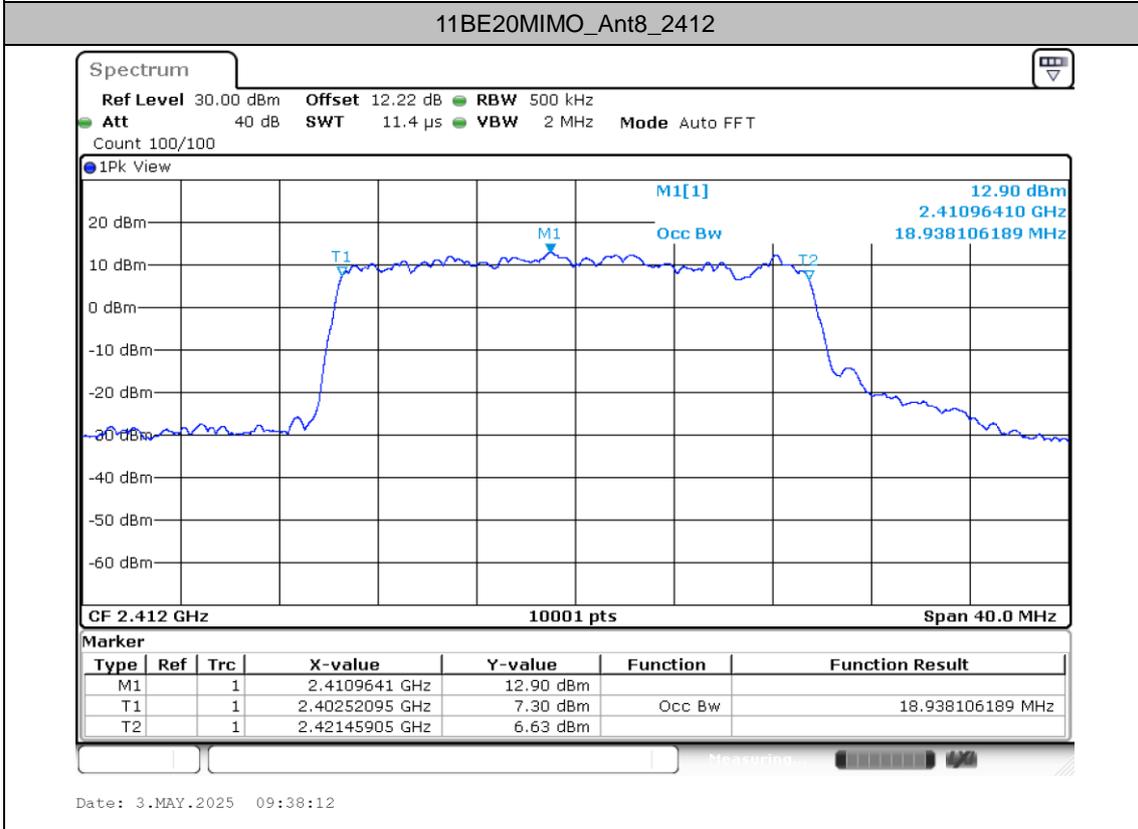
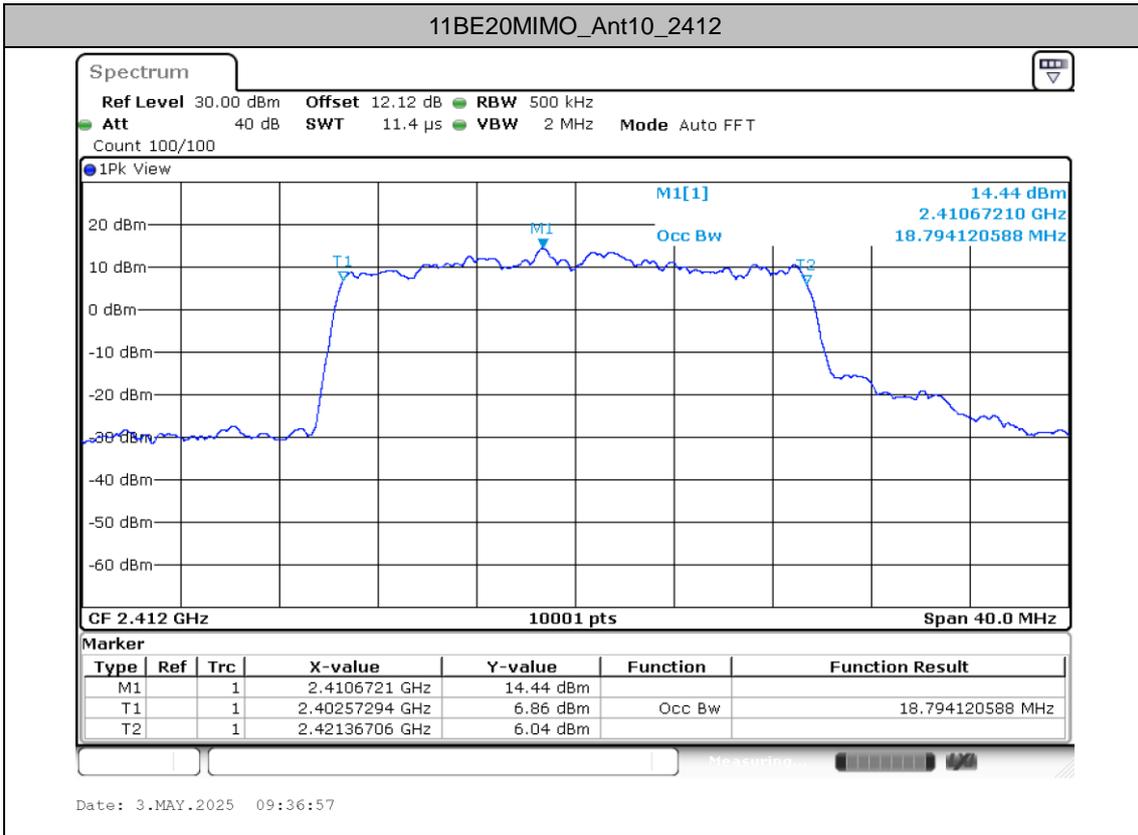


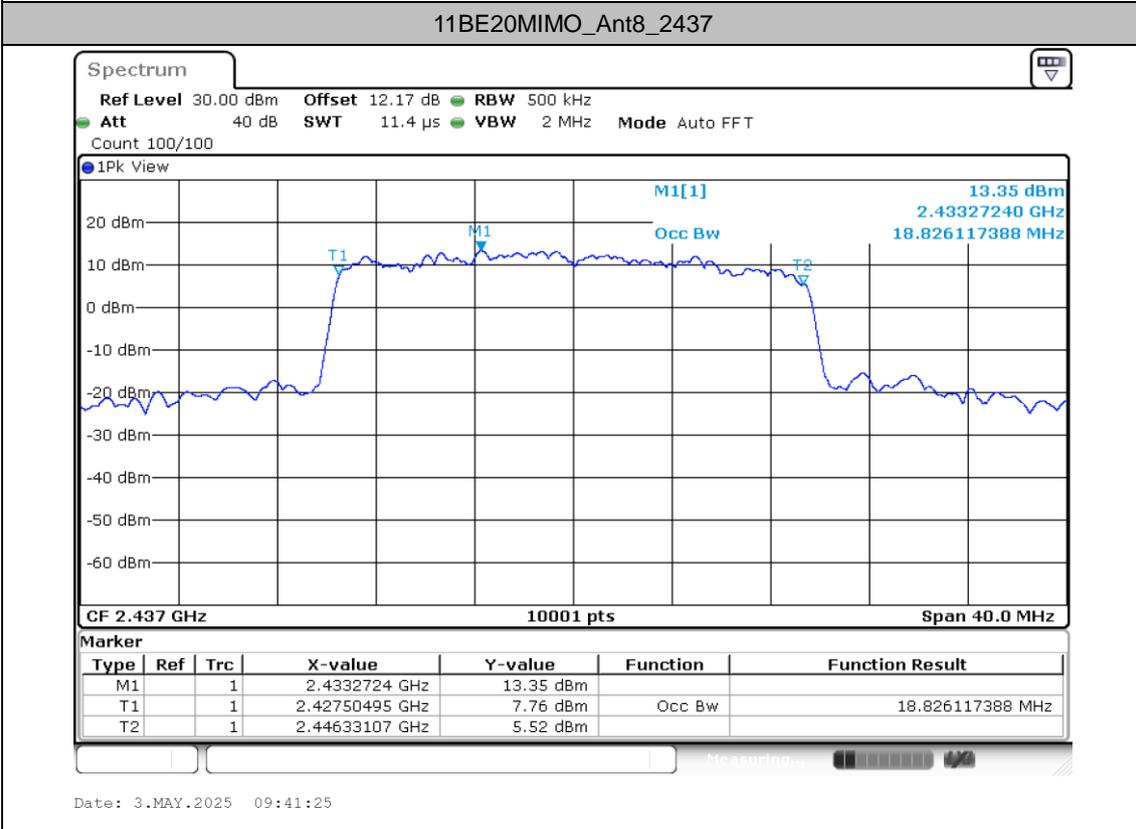
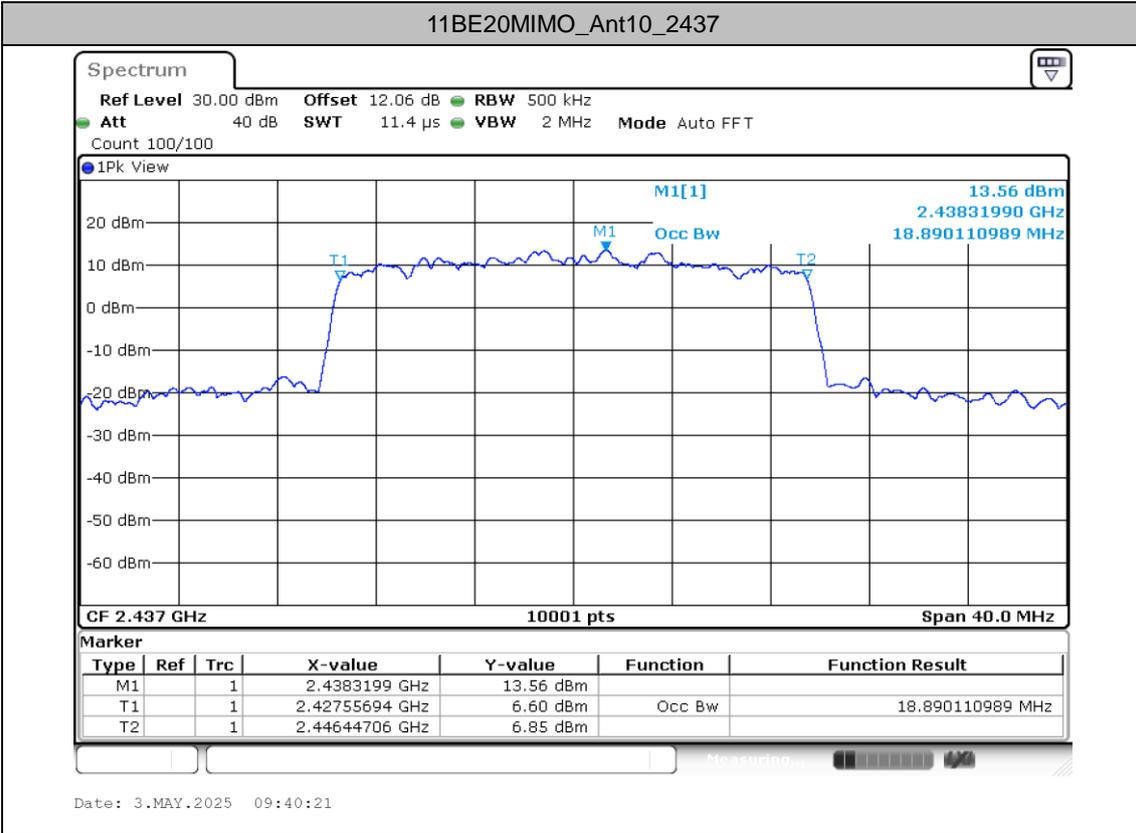


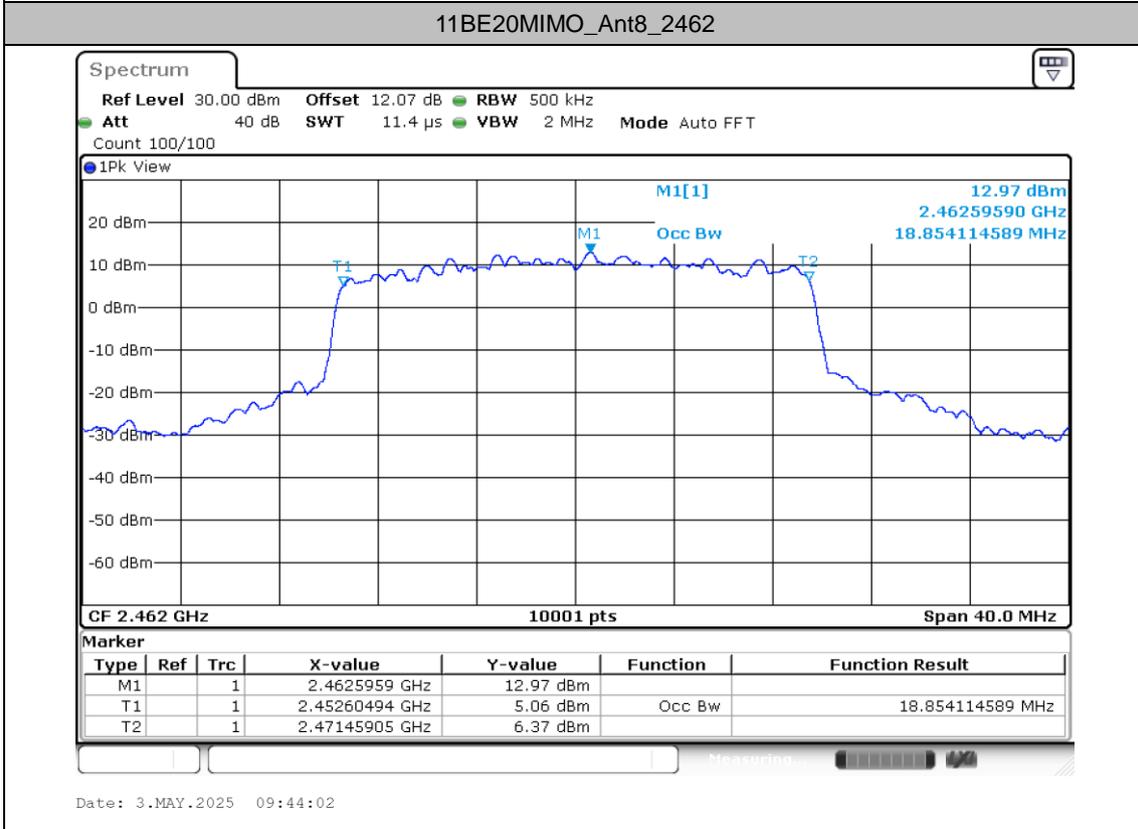
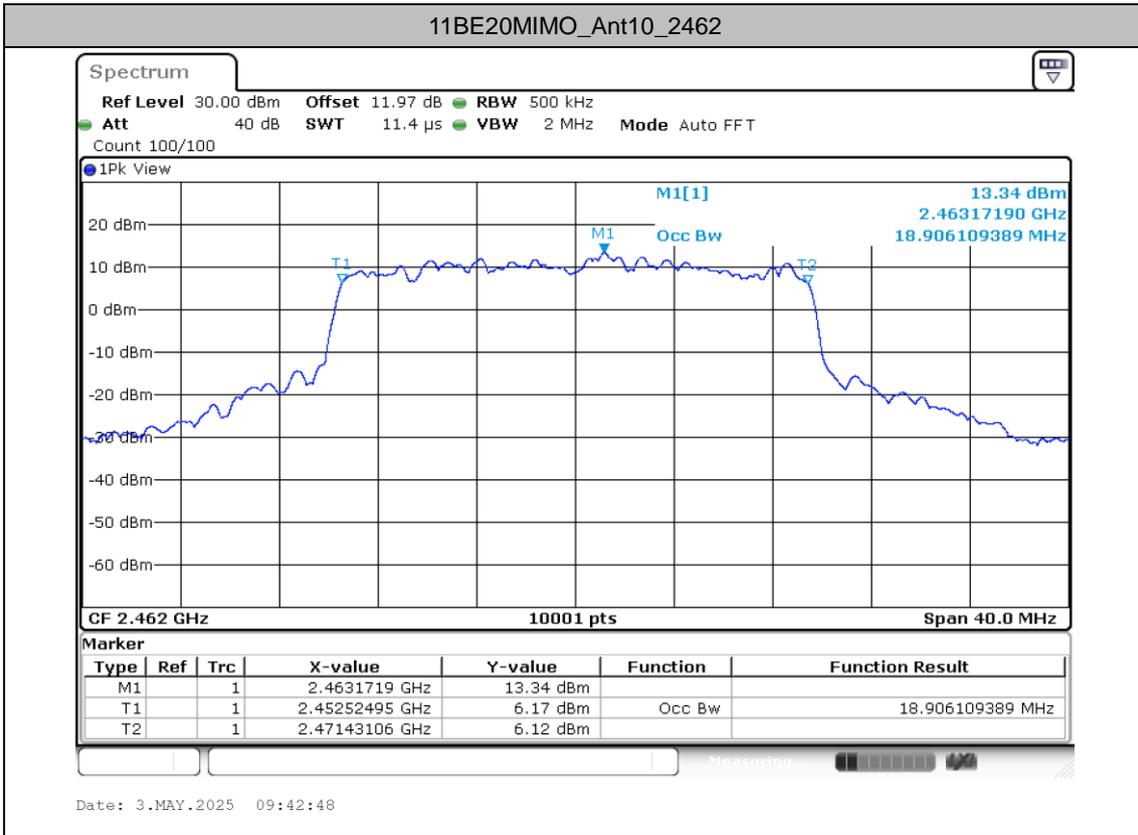














Maximum power spectral density

Test Result

| TestMode | Antenna | Freq(MHz) | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|------------|---------|-----------|-------------------|------------------|---------|
| 11B | Ant10 | 2412 | -2.44 | ≤8.00 | PASS |
| | Ant8 | 2412 | -3.76 | ≤8.00 | PASS |
| | Ant10 | 2437 | -2.49 | ≤8.00 | PASS |
| | Ant8 | 2437 | -2.62 | ≤8.00 | PASS |
| | Ant10 | 2462 | -2.55 | ≤8.00 | PASS |
| | Ant8 | 2462 | -3.16 | ≤8.00 | PASS |
| 11G | Ant10 | 2412 | -3.41 | ≤8.00 | PASS |
| | Ant8 | 2412 | -5.07 | ≤8.00 | PASS |
| | Ant10 | 2437 | -4.04 | ≤8.00 | PASS |
| | Ant8 | 2437 | -3.52 | ≤8.00 | PASS |
| | Ant10 | 2462 | -5.68 | ≤8.00 | PASS |
| | Ant8 | 2462 | -3.63 | ≤8.00 | PASS |
| 11N20MIMO | Ant10 | 2412 | -5.22 | ≤8.00 | PASS |
| | Ant8 | 2412 | -5.47 | ≤8.00 | PASS |
| | total | 2412 | -2.33 | ≤8.00 | PASS |
| | Ant10 | 2437 | -4.80 | ≤8.00 | PASS |
| | Ant8 | 2437 | -3.98 | ≤8.00 | PASS |
| | total | 2437 | -1.36 | ≤8.00 | PASS |
| | Ant10 | 2462 | -6.33 | ≤8.00 | PASS |
| | Ant8 | 2462 | -6.04 | ≤8.00 | PASS |
| total | 2462 | -3.17 | ≤8.00 | PASS | |
| 11BE20MIMO | Ant10 | 2412 | -6.90 | ≤8.00 | PASS |
| | Ant8 | 2412 | -6.85 | ≤8.00 | PASS |
| | total | 2412 | -3.86 | ≤8.00 | PASS |
| | Ant10 | 2437 | -6.21 | ≤8.00 | PASS |
| | Ant8 | 2437 | -6.24 | ≤8.00 | PASS |
| | total | 2437 | -3.21 | ≤8.00 | PASS |
| | Ant10 | 2462 | -7.73 | ≤8.00 | PASS |
| | Ant8 | 2462 | -7.21 | ≤8.00 | PASS |
| | total | 2462 | -4.45 | ≤8.00 | PASS |



Test Graphs

